

“Construction of Six Lane Elevated Road from Basaveshwara Circle to Hebbal Flyover via Le Meridian Hotel and Mekhri Circle in Bengaluru”

COST- ABSTRACT

PART	DESCRIPTION	AMOUNT (INR)
A	Construction of elevated road (Main flyover & Ramps),Approaches to Steel flyover with RE panel,Grade separators (3 Underpasses),Road widening works including drainage & signages,Contiguous piles at Hebbal ramps for traffic diversion, Utilities diversions/shifting/rerouting works for BWSSB - Water Lines & UGD lines, Improvement & Maintenance of Road under Traffic Management, drainage,etc.	
B	Illumination works in project area & Utilities diversions/shifting/rerouting works for shifting/re-routing electrical utilities	
	TOTAL	
PROJECT COST		
Amount in words :		
	Custom's duty (INR)	

flyover_____

AMOUNT (INR.) In CRORES

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND
MEKHRI CIRCLE IN BENGALURU

“Construction of Six Lane Elevated Road from Basaveshwara Circle to Hebbal Flyover via Le Meridian Hotel and

REVISED BILL OF QUANTITIES

PART (A)

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
1	29400	Bored cast-in-situ R.C.C. Pile with OPC cement design mix M35 (minimum cement content for pile is 400kgs and for under water pile 440kgs) with 20mm and down size graded granite metal coarse aggregates @0.68CUM and fine aggregates @ 0.45CUM, with superplastisiser @3lts conforming to IS 9103-1999 Reaffirmed-2008, excluding Reinforcement complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead up to 1000 m complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.A. Pile diameter =1200 mm	RMT	
2		Supplying, Fitting and Placing un-coated TMT bar Reinforcement in as per Drawing and Technical Specifications complete as per specifications .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	4513.40	For Foundations	MT	
ii	991.51	For sub -structure	MT	
ii	11893.43	For Super structure	MT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
3		Pile load tests on single vertical pile in accordance with IS:2911(Part-IV).Rock anchors shall be used for reactions in pile load tests as per clause 7.1.3 of IS 2911(part 4) 2013 with amendments if any. The rate shall include cost of pile and testing, all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	3750	Initial vertical load test	MT	
ii	7500	Routine vertical load test	MT	
iii	250	Lateral load test	MT	
4	2055	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
5		Earth work excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specification by Mechanical means The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	68710.06	For 0-3m	CUM	
ii	15651.18	For 3-6m	CUM	
iii	103.91	For 6m above	CUM	
6		Plain/ Reinforced Cement Concrete M15 with OPC cement with 40mm and down size graded granite metal coarse aggregates @0.84 CUM and fine aggregates @ 0.56CUM in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100The rate shall include cost of pile and testing,all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	1600	For pile cap	CUM	
ii	4352.99	For Open Foundation	CUM	
iii	70.66	Below Approach slab	CUM	
iv	4706.23	PCC infill in Piers	CUM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
7	27100	Cement Concrete for Reinforced Concrete in Pile Cap complete as per Drawing and Technical Specification complete as per specifications. RCC of grade M35 with 20mm and down size graded granite metal coarse aggregates @0.68CUM and fine aggregates @ 0.45CUM, with superplastisiser @3lts conforming to IS91031999 Reaffirmed-200B. Case-I: Using Batching Plant, Transit Mixer and Concrete Pump.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
8	15000	<p>Preparing shop drawings, obtaining consultant's approval, procuring, fabricating and erecting in position M.S. structures conforming to Grade E410BR using rolled sections, plates/sheets, angles, channels, rods, bars, flats, etc., in all sub structure works including portals and at all levels of required technical specifications including surface preparation by abrasive blasting to Swedish standard Sa 2 1/2 finish in closed compartments for dust suppression, straightening, cutting, bending, welding, bolting as per drawings and including metalizing with alloy of 85% zinc and 15% aluminium by weight material with minimum 150 micron thickness as per IS:5905 & BS: 2560 (Part-II) etc., complete with two sealer coating of 40 micron Each for pier, pier cap, portal frames, and all other substructure works (both built-up and rolled sections), as per detailed drawings and technical specifications. (Anchor bolts, nut, Anchor frames, connection bolts, Fasteners will not be paid separately. Rates inclusive of necessary tests as per technical specification)</p> <p>1. Welding shall be done using low hydrogen electrodes of approved make. 2. All welding to be done with Submerged arc welding (SAW) 3. Work includes Providing & fixing of anchor bolts as per drawing and grouting with non shrink grout as per drawings & technical specifications. 4. Weight of structural steel members, will be measured on basis of standard cross sections duly multiplying with steel density of 7850KG/CUM as indicated in relevant Indian standards. No claims will be admissible regarding rolling margin etc. The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.</p>	MT	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
9		Supplying, fitting and fixing in position true to line and level POT-PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomeric confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel, metal galvanized or metalized and elastomeric elements to be as per IRC: 83 part-I & II respectively and other parts conforming to BS: 5400, section 9.1 & 9.2 Specification complete as per drawing and approved Technical Specifications complete as per specifications. The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
		Capacity of bearing in MT		
1	Pinned [Fixed type]			
i	13	150	NOS	
ii	53	200	NOS	
iii	11	300	NOS	
iv	56	400	NOS	
v	4	750	NOS	
vi	1	1000	NOS	
2	Guided bearings			
i	86	150	NOS	
ii	368	200	NOS	
iii	77	300	NOS	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
iv	404	400	NOS	
v	23	750	NOS	
vi	2	1000	NOS	
3	<u>Free bearings</u>			
i	99	150	NOS	
ii	420	200	NOS	
iii	88	300	NOS	
iv	459	400	NOS	
v	19	750	NOS	
vi	1	1000	NOS	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
10	46700	<p>Preparing shop drawings, obtaining consultant's approval, Providing, fabricating and erecting [including the temporary supports wherever required] in position M.S. structures conforming to Grade E410BR using rolled sections, plates/sheets, angles, channels, rods, bars, flats, etc., in all super structure works and at all levels of required technical specifications including surface preparation by abrasive blasting to Swedish standard Sa 2 1/2 finish in closed compartments for dust suppression, straightening, cutting, bending, welding, bolting as per drawings and including metalizing with alloy of 85% zinc and 15% aluminium by weight material with minimum 150 micron thickness as per IS:5905 & BS: 2560 (Part-II), with two layers of sealer coat of 40 micron EACH for structural girder, diaphragm, cross bracing and all other substructure works including shear connectors (both built-up and rolled sections), as per detailed drawings and technical specifications. (Connection bolts, Fasteners will not be paid separately. The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work</p> <p>1. Welding shall be done using low hydrogen electrodes of approved make. 2. All welding to be done with Submerged arc welding (SAW) automatic welding machines only. 3. Weight of structural steel members, will be measured on basis of standard cross sections duly multiplying with steel density of 7850KG/CUM as indicated in relevant Indian standards. No claims will be admissible regarding rolling margin etc</p>	MT	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
11	191000	Providing and fixing metal decking plate over steel girders using self tapping screws. Thickness of deck plate shall be minimum 1.25mm and shall serve as permanent shuttering to the deck slab 240 mm thick measured over crest of metal decking & shall have adequate strength of support weight of green concrete and other imposed loads during concreting over a SPAN of 3000mm to 4000mm between steel girders as per manufacturer's recommendations/ calculations/ test certificates for approval including fixing, side lapping; end lapping, primer and final painting underneath etc. complete as per engineers approval and specification. (height of trough as per design should be included in the cost). Measurement shall be of the plan area of roof covered by metal decking. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	SQM	
12	54103.95	Furnishing and Placing Reinforced / Prestressed cement concrete for super-structure in all heights as per drawing and Technical Specification complete as per specifications. RCC / PSC with OPC cement, design mix M35 with 20mm and down size graded granite metal coarse aggregates @0.68CUM and fine aggregates@ 0.45CUM, with superplastisiser@3lts conforming to IS 9103-1999 Reaffirmed-2008 Using Batching Plant, Transit Mixer & Concrete Pump.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
13	8142	Providing RCC M20 design mix using granite metal 20 mm and down size for 10cm thick solid parapet or perforated as per design specification and direction. (exclusive of cost of steel & its fabrication charges) including necessary centring, form work and finishing smooth with CM 1:3 etc complete for precast cover slab for median drain.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
14	20683.60	Furnishing and Placing Reinforced / Prestressed cement concrete for super-structure in all heights as per drawing and Technical Specification complete as per specifications. RCC with OPC cement design mix M40 with 20mm and down size graded granite metal coarse aggregates @0.67CUM and fine aggregates @ 0.44CUM, with superplastisiser @3lts conforming to IS91 03-1999 Reaffirmed-2008 Using Batching Plant, Transit Mixer & Concrete Pump .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge.	CUM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
15	26170	Providing and fixing in position MS pipe railing over crash barrier using 80NB medium class pipe, including fabrication, providing pipe supports and base plates, brackets, along with bolts, fixing in position, providing anti corrosive treatment as per the detailed drawing and technical specifications, etc. complete (base plates, brackets, bolts, supports, will not be measured separately).The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	
16	2600	Drainage Spouts complete as per drawing and Technical specification complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos	
17	9300	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 Kgs/sq.cm working pressure 140mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
18	2159.5	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement up to 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer / supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation complete as per specifications .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge.	RMT	
19	73859.5	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
20	29200	Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at 1 litre for 2 SQM complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
21	4300	Providing and fixing to wall, ceiling and floor / concrete crash barrier unplasticised 110 mm dia PVC 6.00 Kgs/sqcm working pressure with pipe fittings, wall clips etc and making good the wall, ceiling and floor etc for sanitary/cable pipe line including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	
22	19259.51	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 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 complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
23	19527	Providing and fixing of Reflective Raised Pavement marker (RPM's) (Cat eyes) Road studs conforming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm X 105mm and reflecting area of 13Sqcm with the slope of retro reflective surface within the limit of 35+ 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 279mcd/lux at an entrance angle of zero degree and observation angle of 0.2degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd/lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively" The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 KG in accordance with MoRTH specification.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
24	10809.85	Construction of Reinforced Earth structures including supply of all components with fascia panels. GI strip Soil Reinforcing element, including treatment/ improvement/ strengthening of ground, if required, complete as per Additional Technical specifications, and detailed in drawings with 10 year's performance guarantee. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	SQM	
25	4578.42	Providing and laying of Filter media with granular materials stone crushed aggregates satisfying the requirements laid down as per specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
26	2649.4	Construction of a narrow filter sub- surface drain consisting of porous or perforated pipe laid in narrow trench surrounded by a geotextiles filter fabric, with a minimum of 450 mm overlap of fabric and installed as per clause 700.2.3 and 300.9.3.5 including excavation and backfilling complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
27	152.5	Reinforced cement concrete M30 approach slab including reinforcement and formwork complete as per drawing and Technical specification complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
28	28824.75	Back filling behind abutment, wing wall and return wall or any other place complete as per drawing and Technical Specification complete as per specifications. A. Granular material .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
29	120314.31	Construction of sub-grade and earthen shoulders with approved material Gravel/Murum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per MoRTH specifications (including cost of earth, watering charges & compaction by vibratory roller). The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
30	10108.45	Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications.A. Plant Mix Method. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specification and directions of the Engineer-in-charge of work. Close graded granular sub-base material as per 400-1 of MoRTH specification For Grading- I Material	CUM	
31	11866.81	Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of 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 complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
32	49667.26	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 KG/SQM using mechanical means complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	SQM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
33	52831.4	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG-30 grade bituminous binder , transporting the hot mix to work site, to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.7 complete in all respects as per specifications. Using 100/120 TPH capacity H.M.P with sensor paver Gr-1 (80mm-100mm) with 4% VG-30 Bitumen. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
34	201748	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 KG per SQM on the prepared bituminous/granular surface cleaned with mechancial broom. complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work Using bitumen 80/100 (VG-30)	SQM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
35	31188.82	Providing and laying bituminous concrete 40 mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per specification Using 100/120 TPH capacity with sensor paver Gr-II (35mm-45mm) with 6% VG-30 Bitumen. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
36	671645.74	Providing and applying tack coat on the prepared black topped surfaces at 2.5 KG per 10 SQM, heating bitumen in boiler fitted with spray SET (excluding cleaning of road surface) including cost of all materials, labour, HOM of machinerics complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	

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ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
37	189596.49	Providing and laying 25 mm thick mastic asphalt wearing course 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 surface with bitumen precoated fine grained hard stone chipping of 13.2 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 is not less than 100°C, protruding 1 mm to 4 mm over mastic surface, complete as per clause 500.15 as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
38	19973.03	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 unserviceabl~ material and STACKing the serviceable material with all lifts complete as per specifications. By Mechanical Means. - Prestressed I Reinforced cement concrete grade M-20 & above. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
39	4184.01	Plain / Reinforced Cement Concrete in Open Foundation with OPC cement, design mix M35 with 20mm and down size graded granite metal coarse aggregates@0.68CUM and fine aggregates @ 0.45CUM, with superplastisiser @3lts conforming to IS 9103-1999 Reaffirmed-2008 With Batching Plant, Transit Mixer and Concrete Pump . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
40	3570.84	Design mix M35 with OPC cement for substructure in all heights with 20mm and down size graded granite metal coarse aggregates @0.68 CUM and fine aggregates @ 0.48 CUM, with superplastisiser@3lts conforming to 189103-1999 Reaffirmed-2008-. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
41	2960.00	Providing Weep Holes in Brick /Plain/Reinforced concrete abutment, wing wall/ return wall with 110 mm outer dia. PVC pipe at 2 KG/SQM, fixing in position in C.M. 1:3 with necessary collar and clamp extending through the full width of the structure with slope of 1V:20H towards drawing face force as per drawing including cost of all materials, glue, labour, transportation, lead lift, loading etc. unloading complete as per specifications and directions of the Engineer-in-charge of work	RMT	
42	4177.06	Providing and laying of Filter media with stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition as per drawing including cost of materials, labour, watering, transporting, lead, lift, loading, unloading etc., complete as per specifications and directions of the Engineer-in-charge of work	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
43	4131.50	Providing & fixing 2 mm thick corrugated copper plate in expansion joint complete as per drawing & Technical Specification complete as per specifications . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	
44	4131.5	Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & Technical Specification complete as per specifications . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	
45	4131.5	providing and fixing in position 20 mm thick premoulded joint filler in expansion joint for fixed ends of simply supported SPANs not exceeding 10 m to cater for a horizontal movement upto 20 mm, covered with sealant complete as per drawing & Technical Specification . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	
46	4131.5	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
47	4639.4	Plain cement concrete M10 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications. The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, curing, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
48	18880.32	Providing and laying in position reinforced cement concrete of design mix M20 with 20mm and down size graded granite metal, coarse aggregates @ 0.69 CUM and fine aggregates @ 0.460 CUM, with superplasticiser @ 3lts conforming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, curing, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge.	CUM	
49	2478.67	Providing and fixing precast cover slab over cross drains M25 as per drawing and technical specifications For Underpass drainage covers. The rate shall include all materials, labour, all lead and lift, conveyance of all material & equipments, curing, hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
50	37	Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1 :5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 KG (weight of cover 23KG and weight of frame 15 KG) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1 :3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing ,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos	
51	1200	Laying Reinforced cement concrete pipe NP4 prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge.	RMT	
52	58612.24	Providing and applying tack coat on granular base such as WBM and WMM surfaces hot bitumen primed at 4 KG per 10 SQM, heating bitumen in boiler fitted with spray SET (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	SQM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
53	294182.16	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
54	438	Cutting of trees girth including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions 1 pit, labour charges complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work- 600 mm to 900mm	Nos	
55	60	Cutting of trees girth including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions 1 pit, labour charges complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work 900mm to 1800mm	Nos	
56	26	Cutting of trees girth including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions 1 pit, labour charges complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work 1800mm to 2700mm	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
57	24	Cutting of trees girth including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions 1 pit, labour charges complete as per specifications. The rate shall include all materials , labour, all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work above 2700mm	Nos	
58	112635.16	Excavation for roadwork in soil with hydraulic excavator of 0.9 CUM bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. The rate shall include all materials , labour, all lead and lift, conveyance of all material & equipments, Watering, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
59	1176.73	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finish to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1 KM including cost of all materials, labour, HOM of machineris complete as per specifications. Profile Corrective Course (PCC). The rate shall include all materials , labour, all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
60		Providing and erecting gantry mounted variable message sign board electronically operated capable of flashing the desired message over a designed support system of aluminium alloy or galvanised steel, erected as per approved design and drawings and with lateral clearance as per clause SOO.2.3 complete as per specifications. i) Gantry Support System. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	25	New construction	MT	
ii	96	Alluminium Alloy Plate for Over Head Sign	SQM	
61	124	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per revised IRC :67- 2012 made of high intensity grade sheeting vide clause 800.1 .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 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. For new & traffic diversion works- 90 cm equilateral triangle -Type XI	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
62	12	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per revised IRC :67- 2012 made of high intensity grade sheeting vide clause 800.1 .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 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. For new & traffic diversion works - 60cm circular -Type XI	Nos	
63	44	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per revised IRC :67- 2012 made of high intensity grade sheeting vide clause 800.1 .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 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. For new & traffic diversion works - 80mm x 60mm rectangular -Type XI	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
64	29	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per revised IRC :67- 2012 made of high intensity grade sheeting vide clause 800.1 .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 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. For new & traffic diversion works - 90 cm high.octagon -Type XI	Nos	
65	31400.42	Stripping, Storing and Re-laying Top soil from Borrow Areas in Agriculture Fields. Stripping of top soil from borrow areas located in agriculture fields, storing at a suitable place, spreading and re-laying after taking the borrow earth to maintain fertility of the agricultural field, finishing it to the required levels and satisfaction of the farmer complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work .	CUM	
66	37891.79	Preparation of seed bed on previously laid top soil, furnishing and placing of seeds, fertilizer, mulching material, applying bituminous emulsion at the rate of 0.23litres per SQM and laying and fixing jute netting, including watering for 3 months all as per Clause 308 complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
67	42482.88	Turfing with Sods -Furnishing and laying of the live sods of perenial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the Engineer including preparation of ground, fetching of sods and watering. complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
68	7581.42	Supply at site of work well decayed farm yard manure , from any available source, approved by the engineer in charge including screening and STACKing .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	CUM	
69	21874.92	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 KG per SQM over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between jOints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification s.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
70	1241.33	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 materjal with all lifts complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. Compound wall - Size stone masonry	CUM	
71	201.13	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 materjal with all lifts complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. Dismantling brick / Tile work B. In cement mortar	CUM	
72	51378	Dismantling of Kerb stone channel by manual means including and disposal of dismantled material with all lifts and complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	
73	3890	Dismantling of guard rails by manual means and disposal of dismantled materials with all lifts and Stacking erviceable materials and unserviceable materials seperately complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
74	126.05	Dismantling Steel work in all types of Sections upto a Height of 5 m above plinth level including Cutting of Rivet. - A. Including dismembering." The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	MT	
75	6006.55	Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 of MoRTH complete as per specifications .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work . Earthwork in filling - excavated portion for footpath	CUM	
76	7360	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. at every pier locations - 300 mm dia. NP-2 - Including all Drain Passage - From collection chambers to longitudinal drain. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
77	623	Providing and laying of a reinforced cement concrete pipe duct, 600 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 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: 9S - 1997 and approved drawings complete as per specifications. Case - I : Single row for one utility service Single pipe For Utility crossing at every 500 m interval.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	
78	750	Laying Reinforced cement concrete pipe NP4 prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. 1200 mm dia For Pipe culverts. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	
79	6460	Excavation for roadway in marshy soil with hydraulic excavator 0.9 CUM bucket capacity including cutting and loading in tippers and disposal and trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
80	6460	Removing B.S. slab of Drain and Stacking	SQM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
81	2980	Refixing stone slabs of drains and pointing in C.M (1 :3)..	SQM	
82	222046.04	Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
83	15	Direction and Place Identification Signs with size more than 0.9 SQM Size Board Providing and erecting direction and place identification retro- reflectorised sign as per revised IRC : 67-2012 made of high intensity grade sheeting vide clause 800.1.3, 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, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	SQM	
84	800	Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°,'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
85	667	Provision of red fluorescent with white reflective sleeve traffic cone made of low density polyethylene (LOPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 KG in weight, placed at 1.5 m interval, all as per BS: 873 complete as per specifications .The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos.	
86	1235	Bored cast-in-situ R.C.C. Pile with OPC cement design mix M35, with 20mm and down size graded granite metal coarse aggregates @0.68CUM and fine aggregates @ 0.45CUM, with superplastisiser @3lts conforming to IS 9103-1999 Reaffirmed-2008, excluding Reinforcement complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead up to 1000 m complete as per specifications.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all machineries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work. Pile diameter =1000 mm For contiguous piles	RMT	
87	3057.07	Cutting road surface for pipe line trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc in the following classification complete, Cutting Asphalt Road. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries, testing,and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
88	14139.05	Earthwork excavation for pipe line trenches (except building works) including disposing on bank upto a lead of 30 meter including danger lighting using sight rails and boning rods including shoring, strutting, bailing out water at every 100 RMTs wherever necessary as directed in the following strata. In all soils mixed with boulders of 30 cms size upto and exclusive of disintegrated rock including 0 to 2.0 RMTs depth. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries, testing,and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
89	15729.57	Refilling pipe line trenches and foundation with selected available earth from trench excavation including watering consolidation in layers of 15 cms., thickness including disposing off the surplus earth with a leads and liftsThe rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries, testing,and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
90		Manufacturing, providing, transporting, rolling, lowering, laying and jointing, testing, commissioning of ERW (Electric resistance welded) SAW (Submerged ARC welded), M.S. pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments with necessary allied works. , Excavation, M.S linking works. Advertisement charges etc. complete (approximate). The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	700	711mm dia MS pipe 7.9mm thick	RMT	
ii	2200	610mm dia MS pipe 7.90mm thick	RMT	
iii	1300	457mm dia MS pipe 7.10mm thick	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
iv	500	406mm dia MS pipe 7.10mm thick	RMT	
v	2000	323.9mm dia MS pipe 6.40mm thick	RMT	
91		Manufacturing, providing, transporting, rolling, lowering, laying and jointing, testing and commissioning of MS specials of minimum 8 mm thick conforming to IS 7322:1985 with latest amendments, perfect linking and welding of joints to correct position including cost and conveyance of materials with all lead and lifts, cost of all labour, complete as per detailed specification with inside lining two coats of food grade epoxy painting of approved make with each coat of 250 micron, thick over one coat of food grade epoxy primer of approved make with minimum of 50 micron thick and outside thick 25 mm thick coating in CM 1:3 by providing 50 x 50 mm weld mesh including loading and unloading of pipes for the following category to suit PSC/MS/CI/AC/DI/PVC pipes. The rate are inclusive of all taxes and duties. The weight of the MS shell only be considered before lining and coating for arriving at the rate. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries, testing,and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	1750	upto 500 mm dia MS specials	KG	
ii	2250	above 500 mm dia	KG	
92	1251.19	Disposal of surplus earth including loading and unloading, leading upto a lead of 15 KMT The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries,and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
93		Providing, fabrication, supply & fixing at site of various diameter MS flanges as per IS standards to fix Sluice Valves as per sketch. The rate is inclusive of all materials, labour, consumables, hire charges for tools & tackle, welding equipment etc complete as per instruction of Engineer in charge. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries,testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	2	600 mm dia flanges	Nos	
ii	2	450 mm dia Flanges	Nos	
iii	2	400 mm dia Flanges	Nos	
iv	2	300 mm dia Flanges	Nos	
v	2	150mm dia flanges	Nos	
vi	2	100mm dia flanges	Nos	
94		Supplying and fixing of DI resilient seated soft sealing sluice valve with body , bonnet of ductile Iron of grade GGG50, wedge fully rubber lined with EPDM and seals of NBR and the valves should be vacuum tight and 100% leak proof with face dimensions as per BS 5163-89/IS 14846-2000/DIN 3202 F4/F5. The stem sealing should be with torodal sealing rings (Minimum 2 "O"- eings). All the valves should be with Electro static power coating both inide and outside with pocket less body passage. The rate is inclusive of cost of Valve, bolts and nuts and rubber insertions, excluding earthwork.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all machineries,testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
i	1	600 mm dia Sluice Valve(DR)	Nos	
ii	1	450 mm dia Sluice Valve	Nos	
iii	1	406 mm dia Sluice Valve	Nos	
iv	1	300 mm dia Sluice Valve	Nos	
v	1	150mm dia flanges	Nos	
vi	1	100mm dia flanges	Nos	
95		Providing, fabrication, supply & fixing at site of various diameters MS MJ ends suit CI/DI pipes as per sketch. The cost is inclusive of all material, rubber 'O' Rings, flanges, bolt and nuts, labour, consumables, hire charges for tools and tackles, welding equipment complete as per instructions of the Engineer in charge. The rate is inclusive of cost of Valve, bolts and nuts and rubber insertions, excluding earthwork.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all macheneries,testing, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.		
i	2	700 mm dia	Nos	
ii	2	600 mm dia	Nos	
iii	2	450 mm dia	Nos	
iv	2	400 mm dia	Nos	
v	2	300 mm dia	Nos	
vi	2	150mm dia flanges	Nos	
vii	2	100mm dia flanges	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
96		Supplying Ductile Iron pipes conforming to IS 8329:2000 with latest amendments and conveying to worksite rolling and lowering into trenches, laying true to line and level and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials (including cost of specials and jointing materials) with rubber gaskets including cleaning the socket and spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc and giving necessary hydraulic test to the required pressure as per ISS with all lead and lift including cost of jointing materials. (contractor will make his own arrangements for procuring water for testing) with all lead and lifts as directed by the Engineer-in-charge.		
i	250	150 mm dia DI K9 Class	RMT	
ii	650	100 mm dia DI K9 Class	RMT	
97	1185	Supplying of S&S RCC Spun Vibrated Cast Pipes of NP 3 Class conforming to IS 458:1988 with latest amendments , 300 mm dia using Ordinary Port Land cement, and conveying to worksite,rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes & specials including cost of specials including perfect linking of joints with jack to correct position including cost of jointing materials ie., rubber rings conforming to IS: 5382 for S&S RCC pipes with all lead and lifts as directed and giving necessary hydraulic test as per ISS and testing & commissioning etc., complete (Contractor will make his own arrangements for procuring for testing) Before execution of the work, Contractor shall carry out the survey and will be paid extraas per the saperate item. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
98	39	Providing and constructing " wire cut brick manhole chambers " using Sulphate resistant cement, conical in shape at top with C.C. 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offSET of 0.15 m around the chamber and brick masonry in C.M. 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12 mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1:6 slope in the concretet towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20mm and down size including conveying to wrok spot supplying & fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendments in CC 1:2:4, supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia, Grade Fe-415 steel bar (as per IS 1786) staggered at 30 cms apart as detailed in technical Specifications and as directed, watering, curring, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, dewatering, engraving manhole No.with flow direction on the inner conical surface etc., as per the drawing with wire cut bricks as per techinal specifiatiions for the following diameters & depths by using Ordinary Port Land Cement 1.2 meter diameter manholes 1-2 meters depthThe rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	Nos	
99	215.34	Disposal of surplus earth including loading and unloading, leading upto a lead of 15 KMThe rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, and any other incidental charges etc complete as per specifications and directions of the Engineer-in-charge of work.	CUM	
		PART (A) TOTAL		
		PART (B)		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
100	17	<p>415 VOLTS FEEDER PILLARS -For surface road lighting-Fabrication supplying and mounting MS Box (compartment wise) with provision for separate energy meter compartment as per approved BESCOM norms. Double door type, made out of 14SWG size 1000X1000X300mm suitable for floor / wall mouting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paints and finally finished with approved colour enameled metal paint etc., complete.The box should be mounted on MS angle iron powder coated of size 50x50x6mm with 1:2:4 concreting (0.25x.75x.9RMT) including coping.,cutout for incoming & outgoing cables with base plate and including internal wiring of size 10Sqmm with copper lugs and necessary accessories etc.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, , hire charges of all macheneries, testing, and any other incidental charges etc Complete as per BESCOM specification and direction of the engineer in charge of work.</p> <p>Incomer : 1No CBCT ELR,1No 100A 4P Onload change over switch AC-23A duty 415V ,1SET R,Y,B Phase indicating lamps with MCB,1 No 0-500V voltmeter with selector switch, 1 SET 3Ph Energy meter with CT's ,1 No 100A 4P MCCB 25kA with OC/SC and shut trip releases ,1 No 0-100A Ammeter with selector switch with CT's, Bus bar: 100A 4x30x6mm Aluminium strip Outgoing : 2 No 32A 4P contactor with electronic Timers 3-120 sec, 4 No 32A 4P MCB,10kA</p>	EACH	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
101	23	For surafcae and flyover road lighting- Fabrication supplying and mounting MS Box (compartment wise) with provision for separate energy meter compartment as per approved BESCOM norms. Double door type, made out of 14SWG size 1000X1000X300mm suitable for floor / wall mouting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paints and finally finished with approved colour enameled metal paint etc., complete.The box should be mounted on MS angle iron powder coated of size 50x50x6mm with 1:2:4 concreting (0.25x.75x.9RMT) including coping.,cutout for incoming & outgoing cables with base plate and including internal wiring of size 10Sqmm with copper lugs and necessary accessories etc.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.	EACH	
		Incomer : 1No CBCT ELR,1No 100A 4P Onload change over switch AC-23A duty 415V ,1SET R,Y,B Phase indicating lamps with MCB,1 No 0-500V voltmeter with selector switch, 1 SET 3Ph Energy meter with CT's ,1 No 100A 4P MCCB 25kA with OC/SC and shut trip releases ,1 No 0-100AAmmeter with selector switch with CT's, Bus bar: 100A 4x30x6mm Aluminium strip Outgoing : 2 No 32A 4P contactor with electronic Timers 3-120 sec, 4 No 32A 4P MCB,10kA		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
102	12	For Highmast lighting -Fabrication supplying and mounting MS Box (compartment wise) with provision for separate energy meter compartment as per approved BESCOM norms. Double door type ,made out of 14SWG size 1000X1000X300mm suitable for floor / wall mouting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paints and finally finished with approved colour enameled metal paint etc., complete.The box should be mounted on MS angle iron powder coated of size 50x50x6mm with 1:2:4 concreting (0.25x.75x.9RMT) including coping,,cutout for incoming & outgoing cables with base plate and including internal wiring of size 10Sqmm with copper lugs and necessary accessories etc. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.	EACH	
		Incomer : 1No CBCT ELR,1No 63A 4P Onload change over switch AC-23A duty 415V ,1SET R,Y,B Phase indicating lamps with MCB,1 No 0-500V voltmeter with selector switch, 1 SET 3Ph Energy meter with CT's ,1 No 63A 4P MCCB 25kA with OC/SC and shut trip releases ,1 No 0-100A Ammeter with selector switch with CT's ,1 No 63A 4P contactor with electronic Timers 3-120 sec SETting, Bus bar: 100A 4x30x6mm Aluminium strip Outgoing : 2 No 32A 4P contactor with electronic Timers 3-120 sec, 2 No 32A 4P MCB,10kA		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
103	5	For Underpass lighting -Fabrication supplying and mounting MS Box (compartment wise) Double door type ,made out of 14SWG size 1000X1000X300mm suitable for floor / wall mouting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paints and finally finished with approved colour enameled metal paint etc., complete.The box should be mounted on MS angle iron powder coated of size 50x50x6mm with 1:2:4 concreting (0.25x.75x.9RMT) including coping.,cutout for incoming & outgoing cables with base plate and including internal wiring of size 10Sqmm with copper lugs and necessary accessories etc.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.	EACH	
		<p>Incomer : 1No CBCT ELR,1No 100A 4P Onload change over switch AC-23A duty 415V ,1SET R,Y,B Phase indicating lamps with MCB,1 No 0-500V voltmeter with selector switch, 1 SET 3Ph Energy meter with CT's ,1 No 100A 4P MCCB 25kA with OC/SC and shut trip releases ,1 No 0-100A Ammeter with selector switch with CT's, Bus bar: 250A 4x30x10mm Aluminium strip</p> <p>Outgoing : 2 No 32A 4P contactor with electronic Timers 3-120 sec (for dual operation system), 2 No 32A 4P MCB,10kA</p>		
		FLYOVER / ROAD LIGHT POLES		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
104		Fabricating, supplying and erection of ... RMTs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for ... RMTs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom...mm, top...mm with 3mm thick, suitable base plate and 4Nos of... long J bolts along with template and the pole shall be galvanized with not less than 65micron as per ASTM-A123 and 153 etc.(excluding foundation) as per drawing appended. Make : BAJAJ /VALMONT / PHILIPS/ Crompton Greaves or Equivalent. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.		
i	1200	9 meters- Top 70mm and bottom 155mm dia	EACH	
ii	83	6 meters- Top 70mm and bottom 130mm dia	EACH	
105	850	Supply and fixing of Spiral earth electrodes as per standard technical specification The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.	EACH	
106	350	Supply and installation/Fixing/provision of Outdoor type Thermoplastic modular panel enclosure with transparent polycarbonate Lid,shock proff,IP67(weather proof), rust proof, dust proof, water proof, corrosion proof having internally embedded gasket and suitable duct caps to seal the mounting slots with provision for all sides cable entry through glands, with suitable connector /terminal (255mmx205mmx112mm) for 3Ph/1Ph loop in & loop out and branch out vibration proof terminals suitable for 16Sqmm Al cable with 6A DP MCB (breaking capacity of10kA) and with suitable earthing. Make : HENSEL or Equivalent. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.	EACH	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
107		M.S.Brackets - Supplying, and fixing of Hot dip Galvanized M.S Bracket suitable for outdoor luminaries and shall be mounted on Octogonal pole using necessary bolts, nuts, etc., complete. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.		
i	550	a) Single arm bracket with 1500mm Standard 40/50mm dia	EACH	
ii	700	b) Double arm bracket with 1500mm Standard 40/50mm dia	EACH	
108		LUMINAIRES -Supply of LED Streetlight with pressure die cast aluminium housing body with optimal heat sink for better thermal dissipation.diffuser with injection moulded & is made of polycarbonate material with high transmission index,delivering superior light output.rated life burning hrs.50000hr @ lumen maintenance of 70% CCT > 5500K,IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK 08 . Power factor > 0.9 with mains current should not be greater than 0.1A to 0.7A & surge protection -min 4 KV along with over voltage /overload ,short circuit/ miswiring protection.compatible for pole mounting with outer dia of 40mm to 50mm. universal voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application.Overload & short circuit protection ensures reliable operation in spite of problem in output side.Compliance to IS 10322/IEC 60598,LM 79 & LM 80 adherence with RoHS .UL approved MCPCB.top access streetlight with single screw to ensure ease of maintenance at the sight site location with minimised minimal tools.LED Light fixture withW system power consumption. LED efficiency >130 lm/w at 1W & fixture efficiency >80lm/w with nominal CRI 75+ . housing with supplier word mark/name shall be engraved /Embossing on the die cast housing / body part. luminaire manufacturer should have in-house facility accredited by NABL/CPRI and any government certified agency and design and development facility certified by ISO -9001: 2008 .		
		Warranty of 5years against any manufacturing defect working under standard electrical condition as mentioned above should be given LED source manufacturer .suitable for A1/A2 raods as per IS 1944 part I & part II. Make:Schreder/Philips/GE/CG . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments,hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specifications and directions of the Engineer-in-charge of work.		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
i	700	180 Watts (For Flyover Lighting)	EACH	
ii	1375	150 Watts (For Surface Road Lighting)	EACH	
109		<p>Supplying of LED flood light (FOR UNDERPASS LIGHTING) with ----W system power consumption pressure die cast aluminium housing with powder coating with IP 65 protection. 1, 200 to 275V voltage with electronic driver, PF > 0.9 , should meet ANSI 2G vibration test, Compliance to UL /CE with Class I . system rating shall be 50K hrs . @ lumen maintenance of 70% , system efficacy > 80 lm/w . overload and short circuit protection ensures reliable operation in spite of problem in output side . compliance to IS 10322/IEC 60598, LM 79 and LM 80 adherence with RoHS. UL approved MCPCB. top access streetlight with single screw to ensure ease of maintenance at the site location with minimised minimal tools . LED light fixture ---W system power consumption LED efficiency > 130lm/w @ 1W and fixture efficiency > 80lm/w with nominal CRI > 75 . luminaire manufacturer should have inhouse facility accredited by NABL/CPRI and any government certified agency and design and development facility certified by ISO 9001:2008. housing with supplier word mark/name shall be engraved /Embossing on the die cast housing / body part . warranty of 5years against any manufacturing defect working under standard electrical condition as mentioned above should be given LED manufacturer Make:Schreder/Philips/GE/CG</p>		
	65	LED Flood Light 110W	No	
110	2140	<p>Fixing halogen / Metal Halide / SVL / IL /LED floodlight fitting over existing poles / Wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires complete. The rate shall include all materials , labour, all lead and lift, conveyance of all material & equipments, hire charges of all machineries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.</p>	Nos	
		1.1 KV GRADE PVC INSULATED ARMoured ALUMINIUM CONDUCTOR CABLES AND TERMINATIONS.		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
111		Supplying of LT UG Cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strip (except 2C x10 Sqmm wire armoured) conforming to IS -3975:1990 (No . of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS -1554 part -1:1998 & conforming to GTP of group-A. Make: SBEE/Unistar/Havells. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
i	1000	3.5C x 240 Sqmm	RMT	
ii	2000	3.5 core 50 sqmm	RMT	
iii	9500	3.5 core 35 sqmm	RMT	
iv	1600	3.5 core 25 sqmm	RMT	
v	45000	4 core 16 sqmm	RMT	
vi	20500.00	Supply & Installation of LT UG cable Un armored Copper flexible condutor, PVC insulated 3Cx2.5Sqmm Make: Finolex/SBEE/Walna/Anchor	RMT	
112		Labour Charges for laying of 1.1kV class UG Cable in existing trench GI Pipe / Stoneware pipe / on wall / on pole as required.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
		In existing trench/duct		
i	45000	6 sqmm to 16 sqmm	RMT	
ii	13100	25 sqmm to 75 sqmm	RMT	
iii	1000	185Sqmm to 240 Sqmm	RMT	
113		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
i	10700	16 Sqmm	EACH	
ii	30	25 Sqmm Long Barrel	EACH	
iii	320	35 Sqmm Long Barrel	EACH	
iv	40	50 Sqmm Long Barrel	EACH	
v	70	240 Sqmm Long Barrel	EACH	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
114		Supplying and fixing of Heavy duty cable glands suitable for UG cable of 1.1KV class(metal only). The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
i	800	25 mm dia	EACH	
ii	200	32 mm dia	EACH	
iii	30	45 mm dia	EACH	
iv	100	75 mm dia	EACH	
115		Supplying and fixing L.T. cast iron pot heads suitable for 1.1kv Class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
i	24	25 Sqmm	EACH	
ii	90	35 Sqmm	EACH	
iii	10	50 Sqmm	EACH	
116		Digging of trench of 0.6m Deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
i	32087	In soil (ordinary)	RMT	
ii	500	cutting road surface	RMT	
iii	500	asphalt cutting	RMT	
117		Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site		
		With HDPE pipe		
i	800	Normal soil 6" bore size	RMT	
ii	200	Rock soil 6" bore size	RMT	
118	490	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150 mm alround the cable.	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
119	351	EARTHING- Supplying, fixing and wiring earth electrodes for grounding conduits, IC cutouts and other equipment on meter board using 40mm dia 2.9 mm thick GI pipe 2.5RMT long buried in a pit. The pit should filled with equal proportion of salt and charcoal 150mm around the pipe to the conduit etc, is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122mm dia	No	
120		Supplying and running of GI/copper strips for grounding connection using necessary fixing materials as required. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.		
		GI strip		
i	2100	25 x 3 mm	RMT	
ii	9000	25 x 6 mm	RMT	
121		HIGH MAST LIGHTING -Fabrication, supplying ,erection ,testing & commssssioning of --- RMTs long polygon high mast with single / multiple telescopic sections having, (minimum overlap distance of 1.5 times of top section) thickness as per BSEN 10025 grade S 355 JO- ASTM A572 -50 steel sheet plate for shaft suitable to withstand a wind velocity of 47m/sec as per IS 875 part 3 (as per GA Drawing). Base plate as per IS2062/ASTM A572-50. The Mast shall be galvanised in single hot dip as per BSEN ISO 1461/ASTM A123 with an average 70 microns as per IS 2629, and welded as per BS 5135 single L-seam joint. The mast shall have 2way head frame with die cast LM-6 pulleys, stainless steel axils, phosphors bronze bearing bush press fitted with seperate guides for 2runs of 5mm dia stainless steel wire rope of AISI 304 grade 7/19-core , (factor of safety as per TR NO -7). 2.5 sqmm EPR insulated PCP sheathed trailing power cable housed inside the bottom shaft of mast with door having locking arrangement. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
		The mast shall have power tool operating on 230/415V 50Hz ,1/3 phases reversible geared motor. The mast shall have lantern of 2 segments suitable dia with max load of carrying capacity as per IS 1239. The mast shall be erected on existing RCC footing. The mast shall be supplied with 3mm thick template, lightning arrester of 1.2m length galvanised pipe with top arrow will be fitted on top of the head frame cover and GLS type aviation twin lamps fitting with wiring complete as per specifications and directions of the Engineer-in-charge of work.(Excluding foundation) as per technical data. Make: BAJAJ /VALMONT / PHILIPS/ Crompton Greaves		
i	12	12 RMT/ 12.5 RMT - top 100 & bottom -310mm dia	EACH	
122	72	Supplying of LED flood light with 2 x 150W, System Power consumption pressure die cast aluminium housing with powder coating with IP 65 protection. 1, 200 to 275V voltage with electronic driver, PF > 0.9 , should meet ANSI 2G vibration test, Compliance to UL /CE with Class I . System rating shall be 50K hrs . @ lumen maintenance of 70% , system efficacy > 80 lm/w . overload and short circuit protection ensures reliable operation inspite of problem in output side . compliance to IS 10322/IEC 60598, LM 79 and LM 80 adherence with RoHS. UL approved MCPCB. Top access streetlight with single screw to ensure ease of maintenance at the site location with minimised minimal tools . LED light fixture ---W system power consumption LED efficiency > 130lm/w @ 1W and fixture efficiency > 80lm/w with nominal CRI > 75 . luminaire manufacturer should have inhouse facility accredited by NABL/CPRI and any government certified agency and design and development facility certified by ISO 9001:2008. housing with supplier word mark/name shall be engraved /Embossing on the die cast housing / body part. warranty of 5years against any manufacturing defect working under standard electrical condition as mentioned above should be given by LED manufacturer Make:Schreder/Philips/GE/CG	Nos	
123	72	Fixing halogen / Metal Halide / SVL / IL /LED floodlight fitting over existing poles / Wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.	Nos	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
124		Supply and erection of ----RMT RCC Pole including earth work etc., complete as per the standard technical specification of BESCO. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCO specification and direction of the engineer in charge of work.		
	10	9 RMT 145KG WL	EACH	
125		Supply , Installation & fixing ,testing and comissioning LT Feeder Piller Box -Outdoor type . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCO specification and direction of the engineer in charge of work.		
	10	LT Feeder Piller box 8way with cutouts	Nos	
126	600		RMT	
127	1250	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as perthe directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCO specification and direction of the engineer in charge of work.	SQM	
128	1250	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint	RMT	
129		Providing and fixing to wall, ceiling and floor unplasticised PVC (UPVC) pipes 10.00 KGf/sq.cm working pressure chemp plast I Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCO specification and direction of the engineer in charge of work.		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
i	2000	with 110mm outer dia	RMT	
ii	6950	with 200mm outer dia	RMT	
130	3800	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 KG/sq.cm working pressure 25mm outside diameter chemp plast I Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.	RMT	
131		Supplying PVC flexible conduit pipe ...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy guage saddles on either side of the terminated pipe.		
i	1100	20mm	RMT	
132		Supply and fixing of class A (meduim duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV .		
i	400	50mm	RMT	
ii	400	100mm	RMT	
133	500	Providing and laying of a reinforced cement concrete pipe duct,300mm 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 sides of RCC pipe as IRC 98-1997,bedded on a 0.3m thick layer of granular material free of rock pieces,outer to outer distance of pipe atleast half dia of pipe subject to minimum 450mm in case of double and tripple 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 complete as per specifications . Case-I: Single row of one utility.	RMT	
134	1750	Foundation for poles -Earth work in excavation for foundation of structures as per drawing and technical specifications, including SETting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications I. Ordinary soil -A. Manual Means (i) Depth upto 3m . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, Watering , hire charges of all macheneries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
135	700	Plain/Reinforcement cement concrete M20 with OPC cement with 20mm and down size graded granite metal coarse aggregates @0.69CUM and fine aggregates @ 0.46CUM, with superplasticiser @ 3lts conforming to IS9103-1999 reaffirmed-2008, in open foundation complete as per drawing and technical specifications. Case-1 : "Using Concrete Mixer" . The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all machineries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
136	45	Plain/Reinforcement cement concrete-design Mix M25 with OPC cement with 20mm and down size graded granite metal coarse aggregates @0.70CUM and fine aggregates @ 0.47CUM, with superplasticiser @ 3lts conforming to IS9103-1999 reaffirmed-2008, in open foundation complete as per drawing and technical specifications Using Concrete Mixer.The rate shall include all materials , labour,all lead and lift, conveyance of all material & equipments, curing , hire charges of all machineries, testing, and any other incidental charges etc complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
137	2.20	Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specifications. TMT Bars Fe 500	MT	
138	2/22.658	Supplying of towers including tightening of bolts and nuts including loading, unloading at store and site (including the Wt. of stubs) 66kV Narrow based D+25 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC conditions a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
139	2/8.252	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
140	1/16.31	Supply of 66kV Narrow based D+18 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC condntions a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
141	1/5.94	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
142	1/5.94	Supply of 66 kV Narrow based D+6 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC condntions a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
143	1/1.98	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
144	3	Supply of galvanised bolts and nuts with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	MT	
145	0.8	LABOUR CHARGES Survey: - Check survey using their own equipment for 66kV plain terrain with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	
146	2/22.658	Assembling and erection of towers including tightening of bolts and nuts including loading, unloading at store and site (including the Wt. of stubs) 66kV Narrow based D+25 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC condntions a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
147	2/8.252	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
148	1/16.31	Assembling and erection of 66kV Narrow based D+18 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC conditons a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
149	1/5.94	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
150	1/5.94	Assembling and erection of 66 kV Narrow based D+6 Narrow based (Hoody-HAL) type tower with stub 25% extra labour for erection under LC conditons a) High tensile (HT)steel tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
151	1/1.98	b) Mild steel (MS) tower materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
152	3	Fixing of galvanised bolts and nuts with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	MT	
153	4	Tower Accessories : - Supplying and fixing GI angle 45X45X5mm. 1 RMT length with cleats, bolts, nuts as per specification and fixing above 0.5 RMTs length EACH at inner and out surface of tower to facilitate running of barbed wire with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SET	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
154	4	Number plates with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
155	4	Danger boards with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
156	4	Circuit plates with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
157	4	Phase plates (SET of 3 No's) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SET	
158	4	Earth bond 450 mm long with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No.	
159	4	Grounding of tower with GI pipe including the cost of GI pipe with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SET	
160	1600	LABOUR CHARGES Fixing of barbed wire with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	R-RMT.	
161	4	Fixing of Number plates with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
162	4	Fixing of Danger boards with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
163	4	Fixing of Circuit plates with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
164	4	Fixing of Phase plates (SET of 3 No's) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SET	
165	4	Fixing of Grounding of tower with GI pipe including the cost of GI pipe with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SET	
166	4.8	Conductor and Earth wire: - Supply of Drake ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM m	
167	1.2	Stringing of ground conductor labour under LC condition with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	
168	48	Supply of Double Tension string of 6 units EACH along with hard ware for Drake ACSR and arcing horn with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	STACK	
169	4.8	LABOUR CHARGES Stringing of Drake ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	
170	12	Stringing of Drake ACSR under LC condition 3 SPANs 6 conductor EACH with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SPAN	
171	1.2	Stringing of ground conductor labour under LC condition with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
172	4	Stringing of ground conductor labour under LC condition with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SPAN	
173	40	Accessories for conductor :- Supply of P G Clamps suitable for Drake ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
174	30	Supply of Vibration dampers for Drake with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
175	6	Supply of MSC joints suitable for Drake ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
176	6	Supply of Repair sleeves suitable for Drake ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No	
177	20	Hardware for Earthwire Supply of P G Clamps suitable for GROUND ACSR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No.	
178	10	Supply of Single Tension clamps, suitable for Ground conductor with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No.	
179	1600	LABOUR CHARGES Tack welding of Bolts and Nuts (No of tower x 400) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
180	2/4.0	Dismantling :- Releasing of 66 kV SA towers (2Nos) without stubs with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	No/MT	
181	3.6	Releasing of ACSR Coyote conductor releasing for short Span in normal length of the line single Span in plain terrain under LC condition with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SPAN	
182	0.6	Releasing of Ground conductor releasing for short SPAN in normal length of the line single SPAN in plain terrain under LC condition with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SPAN	
183	1400	Civil Portion Excavation for foundation including back filling, levelling of consolidation Normal soil with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
184	600	Excavation for foundation including back filling, levelling of consolidation DFR with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
185	185	Foundation Concreting Concreting and curing 1:2:4 (M20) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
186	125	Foundation Concreting Concreting and curing 1:2:4 (M15) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
187	26.56	Foundation Concreting Concreting and curing 1:3:6 (M10) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
188	25	TMT Steel reinforcement (including material and labour) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	MT	
189	2000	Back filling with excavated earth available near the tower and consolidation layer by layer 150mm depth with adequate quantity of water with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
190	2100	Supply of 66 kV (E) grade single core 240 sq mm circular stranded plain annealed compacted copper conductor, screen of extruded semiconducting compound. XLPE insulation, screen of semiconducting compound, non woven water swellable semiconducting tape, extruded lead alloy (E) sheath, semiconducting bedding tape (S), helically applied copper wires open helix copper tape, non woven water swellable tape, extruded HDPE sheath conductive coating and anti termite treated. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work. Makes: LS Cables, Universal Unistar Cables, KEI Cables, Philips Dodge International Ltd, KEC (RPG) Cables.	RMT.	
191	18	Supply of Straight through joints suitable for 66 kV(E) grade single core 240 sq mm copper conductor XLPE insulated lead sheathed cable complete. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work. Makes: Raychem RPG, 3M, Pfisterer Switzerland.	Nos.	
192	300	Providing Casting pre cast RCC slab in CC 1:1.5:3, Using 20mm down size jelly clean sieved sand, from work, curing, transportation, handling charges, laying in the trenchless and placing in position including reinforced steel of 8 mm dia at a spacing of 75mm c/c both ways etc., complete as per direction including cost of material, labour, steel, with locking arrangement as per specifications etc., for slab thickness of 62.50 mm (average). (700mm x 0.35m) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	SQM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
193	20	Handling and fixing of cable joints/ route marking blocks on cable route as per KPTCL, DRGS, with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
194	1050	Supply of sieved / riddled sand of approved quality including all lead, lift, labour for filling into the trenches etc., complete (350X 2X1.5) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
195	0.35	LABOUR PORTION Surveying of cable route, excavation trial holes as per field requirements, preparation of cable route profile drawings for cable laying, final route alignment, making lines and grades, preparation of final cable route drawings after laying and energising for preparing bill of materials. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	
196	18	Handling and making normal straight through Joints for 66 KV EHV power cables with all consumables at site etc., complete. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	Nos.	
197	350	Cutting the road surface cable trench and disposing of the excavation, as directed including barricading providing danger lighting boards etc., in the following classifications of road surfaces. C) Cutting cement concrete surface. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM	
198	1050	Excavation of earth for laying of single core EHT UG cable, cables to a depth of 1.5m including removing and refixing the kerb and pavement stone slabs, Removing and refixing masonry of other services with a lead 50m including shoring, strutting, providing caution boards, danger lightning in the following strata of soil. f) Hard Soil with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
199	0.7	Laying of 66 KV single core XLPE copper cable in trefoll tapping, fixing pipes for drain and gate crossing as per drawing specification in trench pipes, ducts by pulling drawing etc., including transport, handling of cable drums, paving out cables using standard cable installation equipments. complete as per KPTCL specification and direction of the engineer in charge of work. Note: The quoted rate per KM each circuits crossing of 6 nos, single core cables including transport of cable drums materials, equipments to site and returning unused itmes to store.	KMs ckt.	
200	1050	Backfilling the cable trench, with selected available ridded earth from the trench excavation and consolidating with ramiing in successive layers of 15 Cums. Thickness watering wherever necessary, achiever 95% Proctar density forming a crown for subsidence, including supply and laying inthe trench PVC warming tape. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, ete, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM.	
201	175	Disposal of excavated stuff including all lead and lift charges loading, unloading etc., complete with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, ete, complete as per KPTCL specification and direction of the engineer in charge of work.	CUM.	
202	600	Horizontal Trenchless cutting: Design of calbe crossing arrangm,ents at highway using HDD arrangements shal accommodate crossing of XLPE UG cable. The work shall be carried out as per the direction of KPTCL in charge of the work.with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, ete, complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
203	4	JOINT BAYS: Designing, engineering and providing RCC joint bay to accommodate jointing UG cables. The scope of work includes earth work excavation in all type of soil, providing PCC 1:4, 150 mm thick RCC raft and RCC side walls to design, RCC covering slabs to design, providing reinforced steel, centering, form work, neat finishing of the inside surface by plastering in CM 1:4, 12 mm thick filling with approved sand inluding watering compacting, backfilling available suitable earth for foundation sites, cost of all mateials, labours, curig, etc, complete and other items of works required for successful completion of work etc. b) for 66KV size of bay 4.00 x 1.80 x 1.50 m clear fo t bangalore. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, ete, complete as per KPTCL specification and direction of the engineer in charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
204	350	Surface Restoration Providing road restoration work consisting of Granular Sub -Base, wet mix macadam, bituminous macadam, bituminous concrete, Primer coat & Tack Coat as per specifications / requirements and drawing including cost of all materials, labour, over heads, machineries etc., and directions of the Engineer in Charge of the work. a) Cable trench clear with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	RMT	
205	0.35	Laying of 12 Fibre Dual Window Mono Mode (DWMM) Optical Fibre Cables as per drawings & Specifications with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	KM	
206	4	Handling & Making of Straight through joints clousers for 12 Fibre Dual Window Mono Mode (DWMM) Optical Fibre Cables with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	Nos.	
207	350	Supplying and providing PVC warning tapes 150mm wide & 100 Microns thick as per specifications, drawings and directions of the Engineer in charge of the work with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per KPTCL specification and direction of the engineer in charge of work.	RMT	
208	15	Supply of 11 kV Class 3X 400 Sq.mm XLPE UG Cable Flat wire armoured, dry cured, pressure extruded with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar Universal Cables (Sathna), Nicco, CCI.	KM	
209	3.5	Supply of 11 kV Class 3X 240 Sq.mm XLPE UG Cable Flat wire armoured, dry cured, pressure extruded with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar Universal Cables (Sathna), Nicco, CCI.	KM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
210	5	Supply of 11 kV Class 3X 95 Sq.mm XLPE UG Cable Flat wire armoured, dry cured, pressure extruded with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar Universal Cables (Sathna), Nicco, CCI.	KM	
211	60	Supply of Straight through jointing kits HS Type suitable for 3 Core x 11 KV 400 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	
212	20	Supply of Straight through jointing kits HS Type suitable for 3 Core x 11 KV 240 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	
213	30	Supply of Straight through jointing kits HS Type suitable for 3 Core x 11 KV 95 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	
214	60	Supply of Cable termination kit Out door / In door HS Type Suitable for 3 Core X 11 KV 400 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	
215	45	Supply of Cable termination kit Out door / In door HS Type Suitable for 3 Core X 11 KV 240 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	
216	40	Supply of Cable termination kit Out door / In door HS Type Suitable for 3 Core X 11 KV 95 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Raychem.	per Kit	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
217	1000	Supply of RCC Hume pipe, 2000 mm long, 150 mm dia with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
218	300	Supply of GI Pipe, 150 mm dia for drain crossing, cable raising etc with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
219	100000	Supply of Cable covering tiles 250X125X40 mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
220	1200	Supply of Sand with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
221	300	Supply of Route and joint indicating stones with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
222	12	Supply of 11 RMT long spun pole with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
223	5	Supply of H Frame for mounting GOS along with necessary supporting accseries with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
224	10	Supply of Double breack 400 A GOS with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
225	15	Supply of Single breack 200 A GOS with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
226	25	Supply of Earthing materials pipe type for grounding as per BESCOM Specification with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
227	12	Concreting materials for 11 RMTs Spun Pole a) Pole concreting 1:2:4, 1000x1000x2500 mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	EACH	
228	25	Supply of 70/90KN disc insulator with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
229	50	Supply of 11 Kv Pin insulator with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
230	15	Supply of Horizontal Cross arm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
231	1.5	Supply of rabbit conductor with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
232	25	Supply of P.G.Clamps for Coyote to Coyote with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
233	12000	LABOUR CHARGES Cable trench excavation and refilling, 1000x0.6x1=600, Ordinary soil with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
234	15	Supplying and Laying of 3 core x 400 sqmm 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE(E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed Complete as per BESCO specification and direction of the engineer in charge of work.	KM	
235	3.5	Supplying and Laying of 3 core x 240 sqmm 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE(E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed Complete as per BESCO specification and direction of the engineer in charge of work.	KM	
236	5	Supplying and Laying of 3 core x 95 sqmm 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE(E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed Complete as per BESCO specification and direction of the engineer in charge of work.	KM	
237	20	Fixing of Covering the cable with tiles with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCO specification and direction of the engineer in charge of work.	KM	
238	60	Making of Straight through jointing kits HS Type suitable for 400 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCO specification and direction of the engineer in charge of work.	Nos.	
239	20	Making of Straight through jointing kits HS Type suitable for 240 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCO specification and direction of the engineer in charge of work.	Nos.	
240	30	Making of Straight through jointing kits HS Type suitable for 95 Sq.mm Cable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCO specification and direction of the engineer in charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
241	60	Making of Cable termination kit Out door / In door HS Type Suitable for 3X400 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Per kit	
242	45	Making of Cable termination kit Out door / In door HS Type Suitable for 3X240 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Per kit	
243	40	Making of Cable termination kit Out door / In door HS Type Suitable for 3X95 Sq.mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Per kit	
244	12	Errrection of 11 RMT long Spun pole with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
245	5	Fixing of H Frame with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
246	10	Fixing of Double break 400 Amps GOS with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
247	15	Fixing of Single break 200 Amps GOS with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
248	25	Fixing of Earthing materials pipe type for grounding as per BESCOM specification with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
249	2000	Laying of RCC Hume pipe, 2000 mm long, 150 mm dia with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
250	300	Laying of GI Pipe, 150 mm dia for drain crossing, cable raising etc with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
251	15	Fixing of Horizontal Cross arm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
252	1.5	Stringing of Rabbit Conductor with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
253	20	Spreading Sand with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
254	300	Fixing of Route and Joint indicating stones with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
255	10000	Making of trech by trenchless technology by adopting horizontal boring Boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5" bore size with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
256	25	Laying of cable covering tiles as per BESCOM specification	KM	
257	9	Supply of RMU(3way), One In comer + One Breakers +one out going (2OD + 1 VL), 350 MVA, 800 Amps, VCB type with copper bus bar, DAS Compatiable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.. Makes: ABB, Schnider, MEI.	No	
258	2	Supply of RMU(4way), One In comer + Two Breakers +one out going (2OD + 2 VL), 350 MVA, 800 Amps, VCB type with copper bus bar, DAS Compatiable with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.. Makes: ABB, Schnider, MEI.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
259	3	Supply of RMU(5way), One In comer + Three Breakers +one out going (2OD + 3 VL), 350 MVA,800 Amps, VCB type with copper bus bar, DAS Compatible with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work. Makes: ABB, Schnider, MEI.	Nos.	
260	4	Supply of RMU(6way), One In comer + Four Breakers +one out going (2OD + 4 VL), 350 MVA, 800 Amps, VCB type with copper bus bar, DAS Compatible with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.: ABB, Schnider, MEI.	Nos.	
261	12	Supply of Compact RMU 11KVA class SF6/ VCB type 1OD 800 Amps, VCB type with copper bus bar, DAS Compatible with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work. Makes: ABB, Schnider, MEI.	Nos.	
262	7.74	Supply of Bed Concreting with CC1:2:4 as per Labour Charges with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
263	31	Supply of Foundation with Reinforcement CC 1:2:4 as per labour charges with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
264	301	Providing Reinforcement as per labour charges with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KGs	
265	1032	Supplying of Frame of MS channel 100x50mm and MS angle 40x40x5mm welding etc., complete. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KG	
266	86	Supply of Lettering the RMU with enamel paint and also writing single line diagram of EACH panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
267	70	Supply of Rod type earthing with 40 mm dia 3 RMTs long MS rod as per BESCOM specification with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	
268	75	LABOUR CHARGES Earth Excavation for R.M.U. Foundation depositing of earth on bank up to a lead of 50 RMTs and with a lift up to 1.5 RMTs with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	CUM	
269	86	Labour charges for Fixing foundation frame of MS channel 100X50mm and MS angle 40X40X5mm welding, fixing in concrete, aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel etc., complete. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
270	8	Supply of Spun pole 11.0 RMT long with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
271	8	Supply of Single pole strcture materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
272	72	Supply of 11 kV Pin insulators with GI pins with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
273	72	Supply of HT single top support with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
274	24	Supplying & Fixing of 45 kN disc insulators with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
275	24	Supply of Earthing materials pipe type for grounding as per BESCOM specification with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
276	8	Supply of Caution / Danger Board as per as per BESCOM specification with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	
277	16	Supply of Anti - Climbing Device (12RMTs / 1 KG G.I. Barbed Wire) Lumpsum with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KG	
278	40	Supply of GI Wire 8 SWG with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KG	
279	80	Supply of Guy wire 7/10 SWG with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KGs	
280	8	Supply of 11KV GOS 200A Single break with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
281	8	Supply of HG fuse unit with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET/3 Nos	
282	8	Supply of 11KV Lightning Arrestor with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET/3 Nos	
283	8	Supply of Concreting materials for 11 RMTs Spun Pole b) Pole concreting 1:2:4, 1000x1000x2500 mm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	EACH	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
284	8	Supply of Horizontal Cross arms with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
285	360	Supply of LT Wiring Kit. (Double circuit) a) Aluminium lead wire 240 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
286	96	Supply of LT Wiring Kit. b) Copper lugs 240 sqmm P.G.Clamps 240 sqmm (Rabbit to Rabbit) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
287	64	Supply of LT Wiring Kit. c) Spacers for DTC wiring with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
288	320	Supply of PVC Pipe-25 mm dia with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
289	64	Supply of PVC bends with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	
290	2	Supplying and laying of 11 KV class 3-Phase Aerial Bunched Cable of size 3 x 95 + + 70 sqmm Stranded & Compacted Aluminium Phase Conductor , and Stranded Messenger Conductor with all aluminium Alloy, Phase Conductor is insulated with XLPE compound along with required accessories (T-Joining kits, Termination kits, , Suspension clamp, Dead end/Anchor clamp including bracket and pole clamp, End caps, 11KV lightning arrester, guy SET, concreting for guy SETs, Grounding connection for messenger wire, Anchor sleeve for messenger wires, spiral earth electrodes) Make: SBEE, and other BESCOM approved	KM	
291	8	LABOUR CHARGES Erection of Spun pole 11.0 RMT long with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
292	8	Fixing of Single pole transformer structure kit for 250kVA with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
293	72	Fixing of HT Single top supports with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
294	8	Releasing & Reerection of existing transformer for 250 KVA. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
295	8	Releasing & Reerection of LT Distribution box. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
296	8	Releasing & Reerection of LT Metering box. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
297	8	Releasing & Refixing of LT Trivector meter. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
298	8	Fixing of Lightning Arrestor with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
299	24	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
300	8	Fixing of Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
301	16	Fixing of Anti - Climbing Device (12RMTs / 1 KG G.I. Barbed Wire) Lumpsum with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KG	
302	8	Fixing of 11KV GOS 200A Single break with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
303	8	Fixing of HG fuse unit with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET/3 Nos	
304	8	Construction of platform with size stone, cement concrete for erection of 250 kVA Transformer/Metering cubicle / Heavy Equipment. Construction of platform (1.5x1.5x1.2) RMT in size stone, for erection of transformers/Heavy equipment including all materials, labour. Excavation of (1.5x1.5x1) mt pit for foundation providing and laying cement concrete 1:4:8 for foundation laid in 1cm thick layers, well compacted curing etc., complete providing and construction of stone masonry 0.9m below ground level and 1.2m above ground level neatly hammer dressed in cement mortar 1:6 cutting complete providing pointing to stone masonry in cement mortar 1:3 after racking joint & nicely lining curing etc., plastering the concrete surfaces in cement mortar 1:4 including smooth rendering curing etc., curing at every stages completely with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Per structure	
305	3	Supply of Armoured L.T.UG Cable 1.1kV Class 3.5 Core x 240 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar, Nicco, SBEE, CCI	KM	
306	0.05	Supply of Armoured L.T.UG Cable 1.1kV Class 3.5 Core x 50 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar, Nicco, SBEE, CCI	KM	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
307	2.5	Supply of Armoured L.T.UG Cable 1.1kV Class 3.5 Core x 25 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar, Nicco, SBEE, CCI	KM	
308	2.5	Supply of Armoured L.T.UG Cable 1.1kV Class 4 Core x 16 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, cComplete as per BESCOM specification and direction of the engineer in charge of work. Make: Unistar, Nicco, SBEE, CCI	KM	
309	3	Supplying and laying of 1.1 KV class 3-Phase Aerial Bunched Cable of size 3 x 95 + 1 x 16 + 1x 70 sqmm Stranded & Compacted Aluminium Phase Conductor , and Stranded Messenger Conductor with all aluminium Alloy, Phase Conductor is insulated with XLPE compound along with required accessories (Piercing connector, Suspension clamp, Dead end/Anchor clamp including bracket and pole clamp, Universal hook, bolt and nuts, T-connectors, cable straight thru joints Preinsulated lugs, guy SET, concreting for guy SETs, PVC insulated wires, spiral earth electrodes) Make: SBEE, and other BESCOM approved	KM	
310	12	Supply of LT Feeder Piller box 8 way with cutouts with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
311	150	Supply & fixing of 240 Sq.mm Copper terminals with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
312	10	Supply & fixing of 50 Sq.mm Copper terminals with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
313	100	Supply & fixing of 25 Sq.mm Copper terminals with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
314	150	Supply & fixing of 16 Sq mm Aluminium terminals with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
315	40	Supplying & Fixing of PVC Pipe-100 mm dia with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
316	20	Supply of RCC Pole - 9.0M Long, 145 KG WL with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
317	10	Supply of Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for RCC poles with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
318	10	Supply of Guy SETs with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
319	25	Supply of L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
320	100	Supply & fixing of Pin Insulators 1.1. kV class with GI Pins with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	
321	25	Supply & fixing of No.8 strain insulator. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	No	
322	12	Supply of Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	SET	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
323	3	LABOUR CHARGES Laying of Armoured L.T.UG Cable 1.1KV Class 3.5 x 240 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
324	0.05	Laying of Armoured L.T.UG Cable 1.1KV Class 3.5 x 50 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
325	5	Laying of Armoured L.T.UG Cable 1.1KV Class 3.5 x 25 sqmm & 4x16 sqmm with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
326	12	Erection of LT feeder pillar box. 12 way with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, Complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
327	12	Fixing of Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
328	5000	Digging of trench of 0.6m deep x 0.50 RMT wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)(In soil (ordinary) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	RMT	
329	20	Erection of RCC Pole - 9.0M Long, 145 KG WL with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
330	10	Fixing of Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for RCC poles with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
331	10	Fixing of Guy SETs with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
332	25	Fixing of L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles) with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
333	150	Releasing of RCC pole 9 RMTs long. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
334	10	Releasing of Rabbit Conductor. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	KMs	
335	15	Dismantling of D.P.Structure with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	SET	
336	5	Releasing of Coyote Conductorwith all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	KM	
337	10	Releasing of Spun polewith all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
338	8	Releasing of TC structure materials with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
339	200	Releasing of Horizontal Cross arm with HT ST supports. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ITEM.No.	Quantity	Description of items	Unit	Quoted R
				in Figures
340	150	Releasing of 4 pin Cross arm. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
341	900	Releasing of existing 11 RMT long streetlight poles with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
342	1000	Releasing of existing 250 Watts SV/MH Fittings with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
343	50	Releasing of existing Street light Control box with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
344	6	Releasing of existing High Mast with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
345	1000	Releasing of existing existing 9 / 10 / 11 M height street light pole including lighting fixture. with all lead and lift, loading and unloading charges, including cost of all materials labour charges, all other incidental charges, etc, complete as per BESCOM specification and direction of the engineer in charge of work.	Nos.	
		PART (B) TOTAL		
		TOTAL PART (A)+(B)		

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
	0
	0
	0
	0

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
	0
	0
	0

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
	0
	0
	0

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
	0
	0

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
	0.00
	0.00
	0

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
in Words	
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CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

ates (INR.)	Amount (INR)
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ates (INR.)	Amount (INR)
in Words	

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

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[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

[illegible]

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[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

[illegible]

CONSTRUCTION OF SIX LANE ELEVATED ROAD FROM BASAVESHWARA CIRCLE TO HEBBAL FLYOVER VIA LE MERIDIAN HOTEL AND MEKHRI CIRCLE IN BENGALURU

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ates (INR.)	Amount (INR)
in Words	
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