

5

MUNICIPAL CORPORATION BHILAI

NIT

कार्य का नाम :- वार्ड क्रमांक 54 एवेन्यु सी को स्मार्ट रोड के रूप में विकसित करने का कार्य।

(As Per FWD Building & Road SOR works w.e.f 01/01/2015, Electrical SOR 1.1.2020)

SN.	Details of Item	Qty.	Unit
ROAD SOR 1.1.2015			
1	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area. thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35-1997. The finished surface to be level, uniform and free from streaks and holes.)	600.00	Sqm
2	Road Markers/Road Stud with Lens Reflector (Providing and fixing of road stud 100x 100 mm, die cast in aluminum, resistant to corrosive effect of salt and grit, fitted with lens reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BIS 873, part-IV: 1973)	500.00	NO
3	Retro- reflectorized Traffic signs (Providing and fixing of retroreflectorized cautionary, mandatory and informatory sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 1.5 mm thick supported on a mild steel frame of size 40 x 40 x 5 mm and mild steel angle iron post 75 mm x 75 mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45cm x 60cm, 60 cm below ground level as per approved drawing) 60 cm x 45 cm rectangular Item NO 8.4 (V)	15.00	NO
4	Half Brick Circular Tree Guard, in 2nd class Brick, internal diameter 1.25 meters, and height 1.2 meters, above ground and 0.20 meter below ground (Half brick circular tree guard, in 2nd class brick, internal diameter 1.25 meters, and height 1.2 meters, above ground and 0.20 meter below ground, bottom two courses laid dry, and top three courses in cement mortar 1:6 (1 cement : 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete)	20.00	NO
Electrification Work			
5	Supplying, installation, testing and commissioning of Acrylic LED light (a) Specification of Acrylic 3 mm thick x 3 " width x 4 " depth *(imbose) (b) Specification of LED modules :- Each Moduel should have 6 Nos LED of 1 watt	30.00	Sqft
6	Supplying, installation, testing and commissioning of following LED Rope light complete as per specification and IP65, P.F. should be greater than 0.759 Watt per Metre White / Warm White	500.00	M
7	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio ≥ 120 lumens /watt. 60 watt	4.00	Nos
8	Supplying, installation, testing and commissioning of hybrid solar street luminaire of housing made of extruded Aluminium and IP65 ingress protection. The all in one solar street lighting system having system lumen output up to 120 LPW (as per LM79 report of NABL accredited lab only), CCT of 6500k (+/- 500k) and CRI > 70, L70 should be of 50000 hours or more. The luminaire should be having SMD type LEDs with secondary lens / optics suitable for street lighting application, MPPT charge Controller and DC driver and automatic dusk to dawn operation feature. The All in one Solar Street light must have hybrid feature under which LED light can be operate by both AC mains & DC supply. The integrated luminaire should have monocrystalline PV module, Lithium battery pack having upto 10Hrs. of autonomy with full power mode and upto 36Hrs. of autonomy with saving mode. Specially designed in built PIR sensor allows to sense motion i.e. if a human is within sensor range then streetlight is at 100% full power lighting mode otherwise if no movement is detected to save energy it dims down to 30% of power. 25w , 50Wp Monocrystalline Panel - 12.8V 22Ah Lithium Ferro Phosphate (LifePo4) battery	2.00	Nos

SN.	Details of Item	Qty.	Unit
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010)5 x 2.5 sq. mm	105.00	M
	Building SOR 1.1.2015		
10	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:Furn like Arica, China etc (3 year old)	30.00	N
11	Painting on old work (one or more coats) to give an even shade with:Satin synthetic enamel paint	150.00	Sqm
12	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.Electric resistance or induction butt welded tubes Grade-250	350.00	KG
13	Extra for curvature in making steel work in tubular structure in built-up sections, trusses and frame work	200.00	Kg

कार्यपालन अभियन्ता
नगर पालिक निगम, भिलाई


सहायक अभियन्ता
नगर पालिक निगम, भिलाई


उप अभियन्ता
नगर पालिक निगम, भिलाई