

**BID SPECIFICATIONS: ELECTRICAL SERVICE PROVIDER TO SUPPLY, DELIVERY TO SITE, OFFLOADING, INSTALLATION, COMMISSIONING, TESTING AND HANDING OVER IN FULL WORKING OF 12M MIDHINGE HIGH MAST WITH FLOODLIGHT AT ARC- OVI.**

**1. TECHNICAL SPECIFICATIONS**

NO	DESCRIPTION
<b>1.1.</b>	<b>SITE INFORMATION</b>
i.	Supply, delivery to site, off-loading, installation, commissioning, testing and handing over in full working order of a 12m x 15 Midhinge high mast floodlight.
ii.	The mast shall be constructed in accordance with SANS 10225 Code of Practise for Design and Construction of Lighting Masts.
iii.	The masts shall carry at its top six (9) luminaires each with 400 watts led floodlights. The luminaires must be spread evenly around the circumference of the mast.
iv.	A certificate of compliance shall be issued upon completion of the installation
v.	The installation shall be carried by a registered person.
vi.	The mast must have a certificate of manufacture covering all relevant requirements and compliance standards.
<b>1.2.</b>	<b>Control panels and luminaires</b>
i.	.The mast shall be fed by a 6mm <sup>2</sup> x 3core armouring cable. .1x 50A double pole isolator incoming from the supply. .40A double pole isolator main inside the mast. .3x 10A single pole circuit breakers. .2x 10A breaker for a photocell and contactor coil. .1x 25A contactor with 220v coil. . luminaires shall be fed by 2.5mm <sup>2</sup> x 4 core plus earth cable to a junction box .The mast must have an earth bar and a neutral bar mounted inside.
ii.	A photocell shall be mounted on the mast at a minimum of 4m above ground level.
iii.	The mast must have mounting clips for circuit breakers of at least 8 and a contactor
iv	Each mast must have a 360 degrees Wi-Fi camera installed on it connected to the security guard control room.
<b>1.4</b>	<b>Foundations</b>
i.	The contractor shall appoint a geo-technical consultant to report on the soil conditions and the foundations shall be designed based on this data and the type of mast erected.

NO	DESCRIPTION
	Concrete foundations shall protrude at least 200 mm above ground level with 40mm pvc sleeve pipe.
ii.	The foundation steel of the mast must be adequately earthed to the ground with an earth spike.
<b>1.5</b>	<b>Corrosion Protection</b>
i.	All parts of the mast, not specified as manufactured from stainless steel, shall be hot dip galvanized to SANS 121 and inspection certificates provided if required. No welding, drilling, punching, bending shall be carried out after the galvanising process has been completed.

**BID SPECIFICATIONS: ELECTRICAL SERVICE PROVIDER TO SUPPLY, DELIVERY TO SIDE, OFFLOADING, INSTALLATION, COMMISSIONING, TESTING AND HANDING OVER IN FULL WORKING OF 12M MIDHINGE HIGH MAST WITH FLOODLIGHT AT ARC-OVI.**

**PRICING SCHEDULE SUMMARY**

Description of Service	Quantity	Total Price
1. 12M MIDHINGE MAST C/W 9 WAY BRACKETS WITH A SPIKE.	15	R
2. EXCAVATION AND CASTING OF FOUNDATION.	15	R
3. 10mm <sup>2</sup> X 3 CORE AMOURING CABLE TO BE MEASURED ON SIDE	15	R
4. ASSEMBLY AND ERECTION OF MAST.	15	R
5. ELECTICAL MATERIAL INSIDE MAST. 5.1 1x 50A DOUBLE POLE ISOLATOR INCOMING FROM THE SUPPLY. . 40A DOUBLE POLE ISOLATOR MAIN INSIDE THE MAST. . 4MM <sup>2</sup> 4 CORE PLUS EARTH. . 3x 10A SINGLE POLE C/BREAKER. . 2x10A CIRCUIT BREAKER FOR A CONTACTOR COIL AND A PHOTOCELL.. .1x 25A CONTACTOR 220V COIL. 1.5MM <sup>2</sup> X 3 CORE ROUND CABLE 100M FOR A PHOTOCELL	15	R
6. 400W LED FLOODLIGHT FOR HIGH MAST APPLICATION X9	15	R
7. CABLE IDENTIFICATION TAPE FOR EVERY CABLE LAID IN THE GROUND.	15	R
8. JUNCTION BOX X3 WATER PROOF.	15	R
9. 360 DEGREE WATER PROOF WI-FI CAMERA CONNECTED INSIDE SECURITY CONTROL ROOM.	15	R
10. TRENCHING AND BACKFILLING FOR A SUPPLY CABLE	15	R
11. <b>Please include a certificate of Compliance for each High Mast</b>	15	

<b>VAT</b>	R
<b>Total Cost Including VAT</b>	R