

## **Annexure C3.2 – Scope of Work**

### **Cable fault locating, repairs, supply and delivery for the electrical plants at ZuikerBosch Water Treatment**

The work includes cable fault locating, cable jointing and testing and commissioning of medium voltage cable faults at Zuiker Bosch water treatment plant linking substations as part of our electrical ring network and supply to our essential equipment like MV motors.

#### **Scope requirements**

Test, locate, repair cable faults on medium voltage cables.

Testing includes performing VLF testing and ensuring cable is ready for energizing.

Do fault location and pinpoint fault.

The scope also includes the supply of transitional joints and normal joints.

There should be a charge per mm<sup>3</sup> for trenching soft soil and Hard soil.

It is the responsibility of the supplier to ensure that after repairs has been done the area is restored and rehabilitated.

The repairs and locating will be conducted as and when required.

Supply of XLPE CU cable size for the cable repaired as and when required with measurements to be confirmed with Rand water personnel before installation.

Always barricade where there is an excavation.

Use necessary PPE when executing the work

Take caution when digging to avoid damaging nearby cables and pipework.

All repair work and testing to align with Rand water standards

Service period of 3 years.

The conductor type of the cable should always be copper.

Cable Type	Cable size
Three Cores	70 mm <sup>2</sup>
Three Cores	300 mm <sup>2</sup>
Three Cores	120mm <sup>2</sup>
Single Core	300 mm <sup>2</sup>
Single Core	400 mm <sup>2</sup>
Single Core	500 mm <sup>2</sup>
Single Core	120 mm <sup>2</sup>
Single Core	70 mm <sup>2</sup>
Single Core	150 mm <sup>2</sup>

Contractor will be required to hand in a Safety File for approval according to Zuikerbosch WTP specifications and requirements.

Contractor to do Risk Assessment before starting any work on site.

Contractor must supply together with his pricing schedule a complete technical specification of cable joints.

It is the Responsibility of the supplier to rehabilitate the area after work has been done.

All test results reports must be submitted in hard and soft copy after commissioning.

1 Year warranty will be required after work has been conducted.

## **Annexure C4 Site Information**

### **RAND WATER ZUIKERBOSCH – we meet at Risk Control Parking Area**

Vischagat Road, Three Rivers East

Vereeniging, 1939

GPS Coordinates: S 26° 41.520 and E 28° 00.061

### **THE IMPORTANCE OF WEARING PPE**

Everyone accessing the plant will be expected to wear safety shoes, failure to which no access will be granted.

### **THE IMPORTANCE OF CARRYING YOUR DRIVER'S LICENSE**

Everyone accessing the site using personal or company vehicles is requested to always carry their valid driver's license.

### **VALID CAR DISCS ARE ESSENTIAL**

Every company or personal vehicle accessing the site must have a valid car disc. The biometric system will scan and cross-reference these discs to ensure compliance with local regulations. Failure to have a valid car disc may result in the vehicle being refused entry.

### **DATA SECURITY**

The site complies with the principle of Personal Access to Information Act (PAIA) and as such all data collected will be treated with the utmost confidentiality and used solely for security and access control purposes.