Annexure C3.2 Scope of Work –

Description:

This project involves the inspection, treatment, and preservation of 45 wooden poles and crossarms that support the 11kV overhead power line at Rand Water Panfontein. The treatment aims to extend the service life of the poles, enhance structural integrity, and prevent damage caused by rot, fungal decay, and termite infestation. Safety file to be submitted to Rand Water Panfontein safety officer/s and induction to be attended prior to work commencement.

Objectives

To preserve and protect the 11kV wooden poles from biological deterioration.

To ensure compliance with safety and reliability standards for electrical infrastructure.

To prolong the lifespan and maintain the mechanical strength of the poles.

To ensure minimal disruption to existing electrical services during the maintenance period.

Scope of Work Activities

Site Preparation and Safety

- Conduct a site inspection and risk assessment prior to commencement.
- Implement all necessary safety precautions, including signage, PPE, and isolation procedures.
- Liaise with Rand Water and relevant stakeholders before work begins.

Pole Identification and Inspection

- Identify and label all 45 wooden poles for record purposes.
- Conduct visual and mechanical inspection to assess condition (checking for cracks, decay, termite damage, and ground-line deterioration).
- Record pole conditions and submit a brief inspection report to the client.

Pole Treatment Process

- Excavate around the base of each pole (approximately 300–400mm below ground level).
- Clean the pole surface by removing soil, debris, or vegetation.
- Apply approved wood preservative chemicals (e.g., Creosote, Copper Chrome Arsenate (CCA), or equivalent) as per manufacturer's specifications and environmental regulations.
- Ensure uniform application to both above-ground and below-ground sections. 2 layers of creosote per pole and crossarms
- Backfill the excavated area after treatment and compact properly.
- All cutouts, fuse dropouts, insulators and lightning arresters to be cleaned.

Quality Control

- Ensure the treatment is applied in compliance with SANS 1288 and SANS 457 standards for wooden utility poles.
- Perform random sampling for treated poles to confirm proper chemical absorption.
- Provide photographic documentation of before and after treatment.

Environmental and Waste Management

- Collect and dispose of waste material according to environmental and Rand Water standards.
- Avoid chemical spillage and contamination of soil or water resources.

Completion and Reporting

- Submit a completion report including:
- List of all treated poles
- Inspection findings
- Treatment method and chemicals used
- Before-and-after photos
- Safety and environmental compliance documentation

Responsibilities

Party Responsibilities - Contractor Execute all work safely, supply all materials, equipment, and labour required for treatment.

Rand Water - Provide site access, coordinate isolation (if required), and inspect work upon completion.

Equipment and Materials

- Wood preservative chemicals (CCA or approved equivalent)
- Excavation tools
- PPE (gloves, safety boots, face shields, masks, safety harnesses)
- Application brushes or spray system
- Inspection tools (hammer, probe, camera)
- Stepladders or skyjacks to be supplied by contractors.
- 11KV line earth cables and link sticks to be supplied and applied to overhead lines for safety before work can start.

Safety and Compliance

All work must be performed in accordance with:

- Rand Water Safety Regulations
- Occupational Health and Safety Act (Act 85 of 1993)
- SANS standards for wood treatment and electrical line maintenance

Deliverables

- Pole condition and treatment report
- Photographic record and sign-off sheet

Annexure C4 – Site Information

RAND WATER PANFONTEIN
Plot 437
Vischagat Road, Three Rivers East
Vereeniging, 1939

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.