

ANNEXURE C3.2. SCOPE OF WORK – 10409721

Remove/disconnect transformer from overhead lines. Remove broken poles, plant 4 (four) new treated poles mount brackets and cross arms to poles. Install transformer on brackets and cross arms reconnect transformer back to overhead lines replace 11kv fuses (Element size is 15Amp) and close fuse dropouts to switch on transformer. Also secure the four poles with wood cross arms. Ground around poles need to be compacted to secure poles.

Contractor must bring a truck with a crane and a cherry picker for the transportation, removal and installation of the new poles and reinstallation of the transformer.

Pole Size – 780mm diameter and 10m long

Note that the successful supplier must submit safety file and attend induction before work commences



ANNEXURE C3.2. SCOPE OF WORK - 10411331

This Scope of work is for the supply and installation of Interphase Spacers between two (2) of the phases of a 3-phase existing overhead transmission line. The purpose of the spacers is to prevent conductor contact or flashovers during storms or high wind conditions.

The spacers should be lightweight and UV resistant and specially designed to serve as Interphase spacers. (Both Electrical and Mechanical applications)

The Interphase spacers should be of such a nature that it requires zero or very little maintenance during its design life.

The installed spacer should not cause mechanical damage to the conductor at the point of attachment to the conductor due to constant movement or any other reason whatsoever. If there is a possibility of such damage happening a protective barrier/sleeve to be installed between the spacer clamp and the conductor.

The OHL is currently in operation and all work will have to be carried out during pre-arranged shutdowns. Multiple shutdowns may be required to complete the work. At the end of each shutdown the OHL must be put back into operation until the next shutdown.

During the shutdown the OHL will be isolated, and a single Earth applied by Rand Water.

Should the contractor require more safety earths to be applied the contractor will supply and apply them.

The contractor shall install 2 Interphase spacers per span length (36 spans) equally spacer along the length of the span.

The contractor shall therefore install 72 Spacers and provide 13 additional spacers and hand it over to Rand Water to be utilized as spares on site.

OHL specifications.

Approx Span lengths = 100-120m

Conductor spacing = 550mm (Where intended spacer is required)1041

Conductor type/size = Aluminum Hare Conductor

Operating Voltage = 11kV

Total length of line that requires spacers = 3560m

Number of spacers per span required = 36

Line configuration is a horizontal cross arm with all three conductors mounted on top of this cross arm.

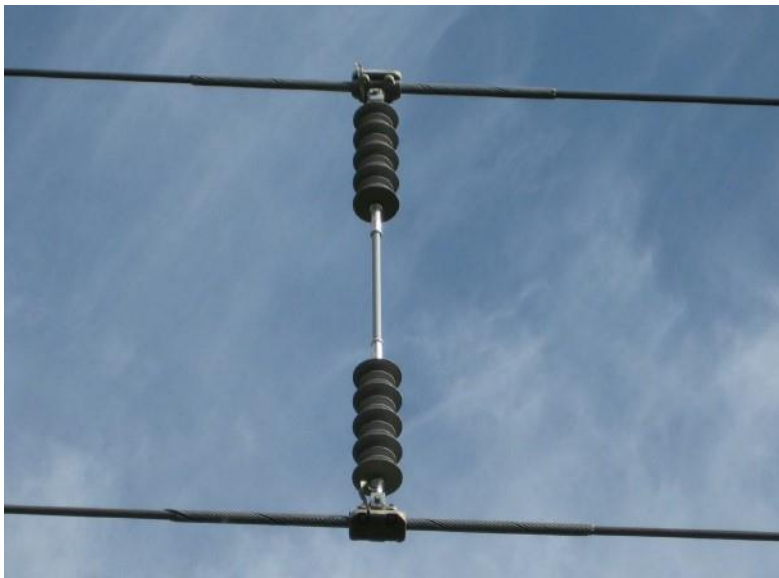
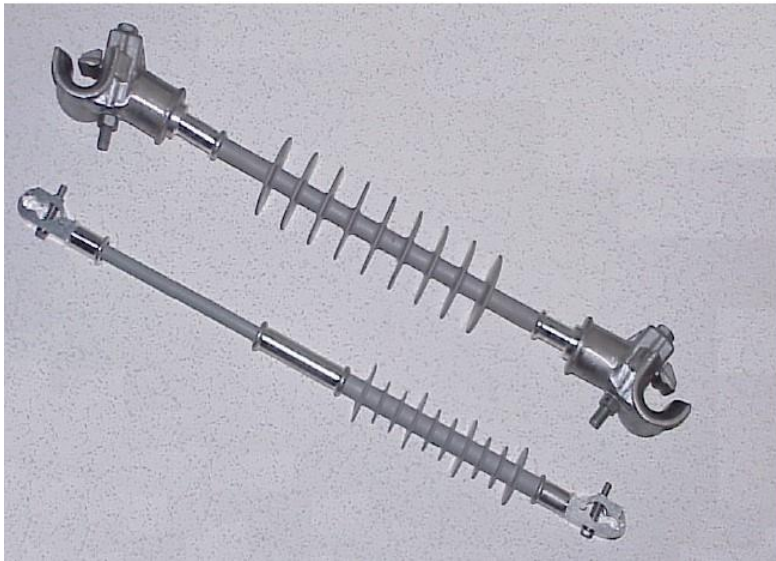
All above information is Approximate dimensions and information for tendering purpose only. Final measurements to be verified by contractor before installation or ordering of equipment.

Contractor must supply together with his pricing schedule a complete technical specification of the Interphase spacers intended to be used for the work.

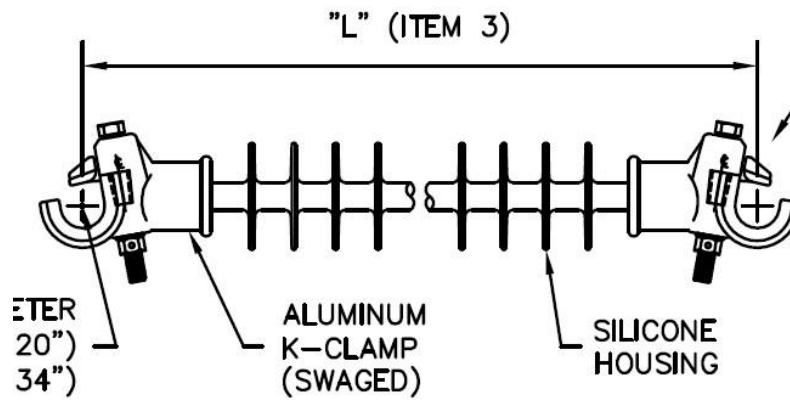
Contractor must supply his/her own lifting equipment.

Contractor will be responsible to submit a safety file and attend induction. After safety file is approved work can commence

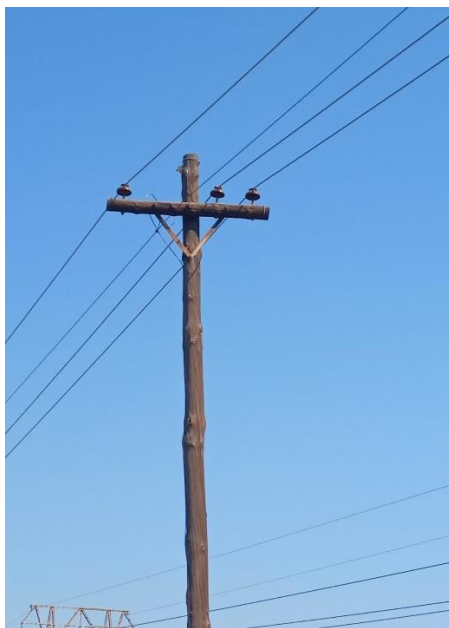
Pictures below of typical Interphase spacers



DISTRIBUTION INTERPHASE SPACER –



Picture below of the existing Overhead line configuration.



Phase Spacers to be installed between the two phases on right hand side of the cross arm.

ANNEXURE C4: SITE INFORMATION

RAND WATER ZUIKERBOSCH
Vischgat Road, Three Rivers east
Vereeniging, 1939
GPS Coordinates: S26° 41.520 and E28° 00.061

TERRAIN

Please note if the contractors want to drive the entire line route a vehicle capable of driving in the veld will be required.

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