



CONSOLIDATED POWER PROJECTS

Our reference: KE100128-JR-LETT-RL 0025

Your reference:

Date: 26 April 2023

Consolidated Power Projects (Pty) Ltd

Co. Reg. No. 1963/006171/07

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Attention: To Whom it may Concern

Dear Sir/Madam,

CONSTRUCTION OF NAIROBI RING – KIMUKA 400KV OHL & MALAA 220KV OHL

Project Reference Letter – Riaan van Zyl (TCS)

Transmission Consulting Service (TCS) is a leading transmission and distribution design consulting engineering firm situated in Windhoek, Namibia. They provide detail OHL designs for a wide range of clients from utilities, engineering firms and turnkey/EPC contractors. Their project design and implementation experience range from 11 to 400kV overhead electrical transmission lines. TCS has implemented numerous transmission projects all over the African continent for the past 23-years.

Since 2017 Riaan van Zyl from TCS was appointed by CONCO (Consolidated Power Projects) as the lead OHTL design engineer for the 220/400kV Nairobi Ring, KETRACO projects in Kenya. This project comprised of the following project parts:

1. 400kV Kimuka Loop-In Loop-Out (LILO):

- a. During this project two new 400kV double circuit transmission towers were designed, developed, successfully type tested and implemented by TCS.
- b. TCS also designed the 400kV LILO OHL connection to the new Kimuka Substation.

2. 220kV Malaa Loop-In Loop-Out (LILO):

- a. During this project part two new 220kV freestanding transmission monopoles were designed, successfully type tested and implemented by TCS.
- b. TCS also designed the 220kV LILO OHL connection to the new Malaa Substation.

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F-LH-Q-003	06	1 November 2020

Directors: JA Dladla



3. 220kV Isinya Substation landing spans:

- a. TCS designed the landing spans for the new Isinya substation.
- b. Phase arrangements had to be swapped/adjusted which made the landing span project quite unique and complex.

4. 220/400kV Athi-River Approach Spans:

- a. On this new substation TCS designed the line approach spans for the 400kV and 220kV lines feeding into the substation.

All projects listed above were successfully designed, approved and is the process for being implemented.

Yours sincerely,

A handwritten signature in blue ink, consisting of a series of loops and a long horizontal stroke extending to the right.

**JOSE RODRIGUES
PROJECT MANAGER
CONSOLIDATED POWER PROJECTS (PTY) LTD**