

TECHNICAL SPECIFICATION

Introduction

Kimberley North infrastructure maintenance depot seeks to ensure maximum railway availability for safe and efficient train operations. The technical specification for pumping wastewater from Kamfersdam to the Homevale WWTP will be a proper set of quantified information which the client's expectations are communicated to bidders, which is the measure by which success or failure is assessed.

Scope

Supply of a Mobile pumping system complete with power supply, Pump Control, Floating Pump set and HDPE pipeline from Kamfersdam to a settlement dam located at the existing WWTP pumphouse to lower of water levels at Kamfersdam in order to allow normal operations of trains on the railway. This involves:

- i. Supply and operating of mobile pumping facilities (mechanical & Electrical) at Kamfersdam, to pump water from kamfersdam to the Homevale wastewater treatment plant, at pumping rate of between 600L/s and 650L/s.
- ii. Pumping 24 hours a day 7 days a week over a period of 4 month.
- iii. Provision of all the required pipes/material.
- iv. Pumping distance is 1km and head of 50m.

The Sol Plaatje Local Municipality will be responsible for the following:

- i. Obtaining water use licence and environmental authorisation as required.
- ii. Restore normal operations and maintenance at the Homevale WWTP, to improve and maintain compliance of treated effluent. This will allow treated effluent to be disposed of as authorised by Water Use License (WUL).
- iii. Reduce or minimise treated effluent inflow to Kamfersdam, to maintain safe operating levels for the trains. This involves repairs and replacement of electrical and mechanical facilities in the Diversion Pump Station (vandalised).
- iv. Implement proper and tight security, in line with category of the works.
- v. Implement sustainability plan, to ensure that gains from these interventions are protected and maintained.
- vi. Ensuring that pumped water is disinfected adequately.