

Komati Water Scheme and Kilbarchan Colliery

Vegetation Management

Scope of Work

1. Introduction

Eskom RoteK Industries (ERI) BMS – Bulk Water Handling has a four-year contract for the Komati Water Scheme Vegetation Management and Servitude Road Maintenance and Kilbarchan Colliery Care and Maintenance. To ensure the safety and health of employees and the management of the environment must be maintained as per the prescribed standards, procedures and policies that Bulk Water Handling prescribes to.

The scope will be covering the following areas:

- ❖ Riekuil offices next to Arnot Power Station
- ❖ Wintershoek and Nooitgedaght Pump Stations around Carolina Town.
- ❖ Bosloop Pump Station situated between Machadodorp and Badplaas.
- ❖ Vygeboom Pump Station situated about 8km from Badplaas.
- ❖ The pipeline is about 170km long.
- ❖ Klipfontein reservoirs,
- ❖ Picaddilly Circus
- ❖ Trafalgar reservoirs.
- ❖ Kilbarchan Colliery (Newcastle) Mine Dump
- ❖ Kilbarchan Colliery (Newcastle) Open Cast Area

2. Scope of Work

a. Pump stations

- Cutting the grass with brush cutters on the electric perimeter fences (one meter per side) at five pump stations mentioned above with brush cutters. Cut to a measurement not longer than 50mm from the ground.

- Cutting grass inside the pump stations by use of zero turn machines and tractors to a measurement no longer than 100mm.
- The grass needs to be cut from the perimeter fence 6m wide.
- Removal of alien and invader species.
- Drain water from pits
- General housekeeping of the yard

b. Pipeline

- Cutting the grass with brush cutters inside and outside (a meter from palisade fence) the valve chambers to a measurement longer than 100mm from the ground
- Removal of alien and invader species.
- Cleaning of culverts and trenches on the side of the roads
- Cutting of tree branches
- Grading of the roads
- Make and maintain storm water run outs
- Clean valve chambers and remove alien and invader species
- Report all damaged gates that need replacing and replace
- Maintain cattle grids
- Maintain fences along servitude road
- Paint pipelines and palisades
- Drain water from the pits
- Prevent soil erosion
- Erect and maintain gabion baskets

c. Trafalgar, Piccadilly and Klipfontein

- Cutting the grass with brush cutters inside and outside (a meter from palisade fence) the valve chambers to a measurement longer than 100mm from the ground
- Removal of alien and invader species.

d. Kilbarchan Colliery

- Cutting grass with brush cutters both sides of the perimeter fence 6m wide.
- Removal of alien and invasive species.

- Prevent and fix soil erosion
- Maintain gabion baskets
- Cleaning of culverts and trenches
- Perimeter fence maintenance

2.3. Contractor's requirements for Service

- a) Services Provider must provide SHE file for KWS as per OHS act requirements prior to delivery of the services which must be compiled as per the Eskom standards requirements (Available on request).
- b) Services Provider must provide SHE file for Kilbarchan Colliery as per Mine Health and Safety Act requirements prior to delivery of the services which must be compiled as per the Eskom standards requirements (Available on request).
- c) Service Provider to comply with NKP requirements. It will also be expected of the Service provider to undergo ERI inductions prior to commencement of the work.
- e)d)-Service provider to supply fuel for the machines.
- d)e) Service provider to provide transport for their employees.
- e)f) Mobile toilets for the employees
- f)g) Tea room for the employees
- g)h) Service provider to comply with all ERI SHEQ requirements which will be issued on awarding of the contract.
- h)i) Comply with the Municipal Laws and By-Laws.
- i)j) Contractor must have Full Risk of Spread Insurance, as well as Public Liability Cover

3.4. Employee's requirements for Service

- a) ERI reserves the right to ask for the replacement of any contract personnel who is found to be incompetent or is guilty of any misconduct.
- b) The Contractor must ensure that all employees are possession of a valid South African ID.
- c) The Contractor must ensure that none of his employees are illegal immigrants.
- d) The Contractor must ensure that all employees are trained in the following:
 - Basic Fire Fighting

- Health and Safety Representatives
- First Aider training
- Driver
- Brush cutter and Chainsaw
- Alien Invasive Species
- e) The following staff complement is required:
 - Supervisors
 - Team Leaders
 - Brush Cutter/zero turn Operators
 - Yellow Plant Operators
 - Drivers
 - General Workers

4.5. Equipment required for Service

- Tractors
- Brush Cutters
- Zero Turn Machines
- Chain saws
- Water Pumps
- Double Cab Bakkies
- TLB
- Grader
- Tipper Truck
- Mobile Toilets
- Mobile Tea Rooms

5.6. Specification of areas

Pump Station	Area (Hectare)	Perimeter (km)
Vygeboom	4,2591	0,820
Bosloop	9,4320	1,374
Nooitgedacht	14,8675	1,537
Piccadilly	0,6176	0,323
Hendrina	0,1068	0,132

Pipeline distances	Distance/Length (km)
Vygeboom – Bosloop	25
Bosloop - Wintershoek	42
Wintershoek - Piccadilly	29

Nooitgedacht – Klipfontein	19
Klipfontein – Komati	50
Piccadilly – Trafalgar	5
Piccadilly – Hendrina	28
Hendrina – Duvha	330

Kilbarchan Colliery	Area (Hectare)	Perimeter (km)
Mine Dump	300	8
Open Cast Area	200	6

- Below distances are from Middelburg toll plaza to the areas mentioned below.

Middelburg Toll to:	Distance
Arnot Offices	77km
Bosloop Pump Station	147km
Vygeboom Pump Station	177km
Nooitgedaght Pump Station	107km
Wintershoek Pump Station	107km

Compiled By



CJ Visser
Site Manager