

SCOPE OF WORKS

1. Background

.UW to appoint a panel of three service providers for dredging services of eleven wastewater works associated unit processes, i.e. namely Darvill, Howick, Mpofana, Lynnfield Park, Albert Falls North, Albert Falls South, Richmond, Camperdown, Appelsbosch and Cool Air WWs. The work entails provision and usage of a dredger to remove the sludge from selected wastewater unit processes from eleven wastewater works as authorised by the plant Superintendents

2. Description of goods/ services required.

All services to remove sludge from the selected wastewater works unit processes

2.1 Extent of the services

>90% of Solids removal per unit process.

2.2 Use of reasonable skill and care

Services to be carried out as per the Environmental Management Plan provided.

2.3 Applicable national and international standards

All necessary national legislation that is applicable.

2.4 Particular/Generic specifications

Environmental Management Plan.

2.5 Approvals

Internal from the Project Managers or Plant Personnel.

2.6 Access to land / buildings / sites

Access will be available from 8am to 4pm, Mondays to Fridays, excluding weekends and public holidays; however, arrangements need to be made with each Plant Superintendent.

2.6 Format of communications

Weekly progress meetings with Superintendents.

2.7 Management meetings

Service providers to arrange.

3. Deliverables/Key Outcomes.

Terms of reference including the following:

- Appointment of a panel of three service providers for dredging services
- Specific assessment and quotations for dredging services upon request by Plant Superintendents
- Dredging of authorized unit processes as per approved quotations.
- Handling of solids that will be removed and safe disposal
- Normal operation of the works and minimal environmental impact must be ensured while the project is proceeding
- Time frames for this project is 12 months
- Daily verbal updates with the Plant Superintendents and a final written report and official hand-over at the end of the project per site.

- Invoicing will be site specific.
- Service providers to ensure safe transportation of the sludge into the disposal site that will be identified by Uuw
- Service providers to ensure cleaning of the area and ensuring that the environment is kept safe after dredging.
- Provision of adequate safety measures whilst carrying out the duties listed above.
- Service Providers to comply with Uuw site-specific Safety, Health Environment and Quality procedures.

Item	Typical Description of Dredging Services	Duration
1	Assessment and Quotations: Panel of service providers will be requested to independently provide dredging services quotations with a breakdown of dredging costs per unit processes as requested by Plant Superintendent.	30 Days
2	Approval by Uuw: Quotations to be approved for the dredging services.	14 Days
3	Site Establishment – Appointed contractor to identify site that will be agreed upon with Superintendent (Provision to be made for suitable containers for site office and stores, suitable ablution facilities, diesel supply etc.)	3 Days
4	Dredger Transport - Allow for all transport requirements of dredger and associated components, offloading and loadings. Contractor to make provision for a suitable crane to complete all required lifts of dredger.	3 Days
5	Mechanical Equipment establishment - Supply and commission all equipment to remove sediment from select unit processes per site.	5 Days
6	Isolate Unit processes	2 Hours
7	Mechanical Equipment establishment - Supply and commission any pump(s) to remove top final effluent to associated unit processes upon agreement with Superintendent.	2 Days
8	Dredging of unit processes - Remove deposited sludge/slurry using dredger and pump for storage and removal.	5 days
9	Reinstate unit process	2 Hours
10	Reinstatement - Reinstatement of site and site camp to the satisfaction of the Superintendent or at least to original condition.	3 Days
11	Environmental - Allow for reinstatement of any environmental damage to the satisfaction of the uMngeni-uThukela Water Environmental Scientist (as per environmental guidelines provided for in this contract).	3 Days