

## **C4. SITE INFORMATION**

### **1. Introduction and Background of the Panfontein site**

The Panfontein Water Treatment Residue Disposal Site is located about 5 km from Zuikerbosch Treatment Plant and Pump Station; which is located approximately 9 km east-northeast of Vereeniging.

Waterworks residue generated from Rand Water's Zuikerbosch Water Treatment Works and the Vereeniging Water Treatment Works is pumped to the Panfontein Residue Disposal site which is South East of Vereeniging Town. This Waterworks residue plant handles all the waterworks residue produced in Rand Water's Water purification process and was built in 3 different phases.

Phase 1 consisting the construction of Ponds 1 to 6, a polyelectrolyte make up and dosing plant, Return water dam 1 and all associated valve chambers and pipework was put into service by December 1989.

Phase 2 consisting of the thickening plant (gravity thickener<sup>1</sup>, two linear screens, pumps, pipework, crane and associated electrical and instrumentation equipment), polyelectrolyte make up and dosing plant 2, and drying beds 1 to 40 was put into service by 1994.

Phase 3 consisting pond 7, gravity thickener 2, pumps, pipework, and drying beds 41 to 94, return water dam 2, access roads, offices and workshops were put into service by 1996.

Panfontein site has been in service for over 24 years and the sub-plant ages vary from 0 to 24 years according to maintenance, rehabilitations and replacements that have been on-going for the past 24 years.



**Figure 2-1: Position of the Panfontein Water Treatment Residue Disposal Site**

## **2. Contractor's Yard**

The Contractor will be provided with a location to establish on site.

## **3. Site Security**

The site is subject to strict security control and the Contractor and his workmen shall comply fully with any requirements imposed by Rand Water's security personnel. Permits issued to the contractor are required for admission to the site and, before starting work on site, the Contractor shall make arrangements with the Project Manager for the issue of the necessary permits for himself and his employees. For purposes of identification, all personnel will be required to carry their identity documents and shall show these, on request, either at entry to the Panfontein site or within the site itself. The Contractor and his employees will be confined to the site, and the access roads listed above and action will be taken against anyone outside the prescribed areas.

#### **4. Site boundaries**

The site is located in Panfontein Water Treatment Residue Disposal. The Contractor shall confine his activities to the area in the vicinity of site. The Contractor shall not extend his activities outside the boundaries unless the Project Manager has specifically authorised the extension in writing

#### **5. Site access**

A Site Access Certificate will be required before the Contractor is granted access to site. Please see Additional Particular Conditions of Contract for details of this certificate and where to obtain it.

#### **6. Possession of site**

The written order to commence the work will be deemed to give the Contractor possession of the site. In the event of any portion of the work or completion of the contract being delayed due to the Employer delaying the Contractor in taking possession of the site, an extension of time may be allowed by the Project Manager. The Employer shall not be liable for any payment in respect of such delays.

#### **7. Accommodation on site**

No housing is available. The Contractor's employees will not be allowed to be accommodated on the site.

The Contractor shall erect, maintain and remove on completion of the work, ample temporary offices and sheds to the Project Manager approval, for proper storage of perishable and other materials and for the use of the workmen.

#### **8. Latrines**

The Contractor shall provide for the duration of the contract, latrine accommodation on the site in the form of chemical closets for the use of persons employed on the works. All latrine

accommodation provided by the Contractor shall be efficient, sanitary and non-offensive and all sanitary fees payable to any local authority shall be paid by the Contractor.

## **9. Access roads**

The Contractor shall be liable for all unnecessary and unreasonable damage caused by his equipment and/or transport to the access roads and fences. The cost of repair and reinstatement of unnecessary and unreasonable damage to these roads and fences will be deducted from moneys due to the Contractor.

## **10. Services on site**

A sufficient supply of water is available at a convenient point at the sites from which the Contractor shall be responsible for the distribution of water.

The Contractor shall be entitled to use, for the purpose of carrying out the installation, such supplies of electricity and water as may be available on the sites, but shall provide, at his own expense, any apparatus necessary for such uses. The Contractor will be charged for use of electricity as per Rand Water rates. The actual supply of these services is not guaranteed.

There is no compressed air available on the site.

## **11. Site security**

The sites are subject to strict security control and the Contractor and his work staff shall comply fully with any requirements imposed by the Employer's security personnel. Permits, issued by the Manager of the site, are required for admission to the sites and, before starting work on the sites, the Contractor shall make arrangements with the Engineer for the issue of the necessary permits for himself and his employees. For purposes of identification, all personnel will be required to carry their identity documents and shall show these, on request, either at entry to the Designated Site or within the Designated Site. The Contractor and his employees will be confined to the site, and the access roads listed above and action will be taken against anyone outside the prescribed areas.

## **12. Cleaning of works and site**

The Contractor shall maintain the whole of the site in a clean and orderly condition, to the satisfaction of the Engineer. On completion of the work the Contractor shall tidy up the site to the satisfaction of the Engineer; all temporary buildings shall be dismantled and removed; all surplus material, debris etc. shall be carted away and the whole site shall be left in a neat and orderly condition.

## **13. Induction**

The Contractor shall be responsible for acquainting him or herself with and attending any safety induction courses presented at the applicable sites.

The Contractor shall supply the following documentation to the Employer's Representative, which will be sent to the relevant sites prior to induction;

- ID copies of all the personnel that will be working on site,
- Valid Letter of Good standing (COID certificate) from the Workman Compensation,
- All the signed appointment letters as per construction regulation. E.g. Building work Supervisor, Scaffolding Inspector, Safety Officer /Representative, etc.
- Signature of the Engineer or the Employer's Representative in charge of the contract,
- Initials on each page by the Contractor in charge of the Contract,
- Tool list,
- Candidates to be present for the Induction,
- Health and Safety plan, and
- Risk Assessment plan.