

FRANSKRAAL WATER TREATMENT WORKS

SUMMARY OF WORKS	
Type of Works	Water Treatment Plant
Location of Works	Franskraal, Western Cape
Size of Works (Mℓ/D)	6.48 Mℓ/D
Date of Award	March 2008
Date of Completion	June 2009
Completion Value (Including VAT)	R 8,765,076.40
Client	Overstrand Municipality
Conditions of Contract	GCC

The purpose of the new water treatment plant at Franskraal was to replace the old plant with new treatment facilities capable of delivering water up to 75 l/sec (or 6.48 Ml per day) to the surrounding area. The new treatment plant provides clean drinking water via the following standard treatment processes:-

- Raw water flow control & flow measurement at the head of the works
- Pre-soda-ash dosing into the raw water for pH adjustment
- Alum & polymer dosing into the raw water for flocculation (coagulation) purposes
- Mixing channels to provide thorough mixing of the chemicals with the incoming raw water
- Rectangular settling tanks for settling and sludge removal (by others)
- Rapid gravity filtration (3 filters of the PCI K floor monolithic type, each filter 28.4M2 each)
- Chlorination equipment for final disinfection prior to entering the treated water storage reservoir
- Post-soda-ash dosing for stabilisation
- Booster pumps and pressure control for distribution of the treated drinking water to the town

Sludge from both the settling tanks and filter backwash process is pumped to sludge drying beds, whilst the supernatant (recovered settling tank & backwash water) is returned to the Franskraal reservoir where it is later returned to the works for further treatment.

PCI's scope included the supply, installation and commissioning of the mechanical, electrical, instrumentation and control system.

The project was awarded in March 2008 and completed on schedule in June 2009, the final project value being R 8,765,076.40

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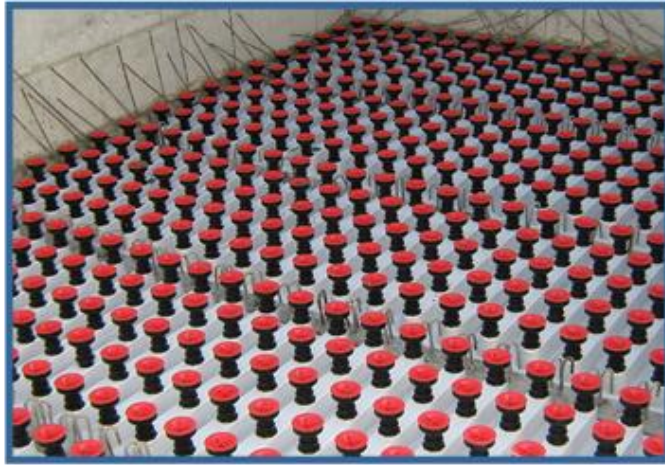
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