

DERG WTW – Castlederg, Northern Ireland

Client: Dept for Regional Development, Water Service

Value: £10million



Scope of Works:

Derg water treatment works is a design and build contract being executed under IchemE Red Book Condition of Contract. The project has been accepted as a demonstration project under the M4I (Movement-for Innovation in Construction) initiative promoted by HM Government.

Good working relationships are being forged on site with Water Service and the Project Manager (Fergus McIlveen) and this is facilitating construction activity and ensuring client objectives are met without difficulty and helping the contractor achieve prompt approvals for design details.

The contract duration is 24 months and provides for liquidated damages for late delivery and failure to meet process guarantees. The works will have a throughput of 24.6MI/d with the facility to uprate to 30.75MI/d and replaces an existing installation on an adjacent site.

The process to be adopted is:

- River intake form river Derg
- Chemical conditioning in flash mixer (lime and alum)
- Clarification using dissolved air flotation
- Primary dual media filters
- GAC contactors
- Manganese removal filters
- Outlet storage and pumping station.

The design includes bulk chemical storage and dosing facilities.

A full computer based control system is to be provided to enable the plant to operate unmanned outside normal working hours.