

## CASE STUDY

# Boula & Meelick Pump Station



## Process Description & Equipment Supplied

ESB identified a requirement for additional pumping capacity at their Portumna pumping sites. To achieve this they determined that an additional pump station was required at each site to complement the existing assets. DPS were involved at an early stage in the project feasibility and provided design and selection services for the ultimate pumping solution and arrangement. DPS's scope involved design, supply, installation and commissioning (full MEICA) services for a duty of 893 lps at 36m head.

The design incorporated 2 no. KSB Amacan PA4 700-470/476UTG1 axial flow canister pumps operating at an efficiency of 80.6% on each site to add to the already installed **Amacan PA4 1000-700/ 90 10UTG1** units the previous year. This brought the potential Pumping capacity on each site up to 3700lps. The installation included for suitably designed canisters which adapted for the pumps and levels on-site. Our full scope also included the design, provision and commissioning of all associated controls and electrical packages for the application at each station.

## Project Overview

### Client Name

- ESB

### Completion Date

- November 2013

### Reference Contact

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### Value of Project

- €360,000



## Design Involvement

DBS was involved throughout the design process for the pump station and liaised extensively with ESB (the ESB design team) to develop not only the hydraulic duty for the site and the subsequent pump selection but to also assist in the layout design of the pump station prior to the civil tender documents being issued.

This relationship was key to ensuring a coherent solution that would allow site optimisation for both efficiency and ease of access for future maintenance in order to drive down Whole Life Cycle costs of the asset.

A priority objective for the ESB on this project was early contractor involvement and engagement at design stage, which ensured the correct collaborative model and approach.



## Ensuring Equipment Installation to OEM Specification

DPS was responsible for the installation of the pumping equipment on site. To ensure installation to OEM specification our team worked with the OEM (KSB) supplier from the design stage to ensure that the bespoke canister design would work effectively with the pump hydraulic.

To this end the DPS canister design was signed off by KSB as suitable for use. Prior to installation on site an installation plan was developed by DPS based on the OEM installation instructions and the requirements for the site.

Prior to installation of the canister the site was checked for compliance with the civil design. Once compliance had been confirmed the canister was installed, followed by the pump assembly.

## Ensuring Equipment Commissioned to OEM Specification

A key component of our value offering on this project was to ensure that the installed pumping assets were commissioned and put into operation as efficiently as possible. DPS coordinated this phase of the project collaborating with our client ESB, their engineering team in ESB and our OEM partner which ultimately ensured a positive commissioning phase outcome for the project.

Our upfront agreed installation and commissioning plan ensured that all stakeholders were fully aware of our approach and expectations for all involved were managed adequately.

