

Caladh Mor Harbour – Inishmaan (Aran Islands off Galway, Ireland)



Contract Value: £1.6m
Consulting Engineer: R.P.S.
Engineer's Representative: Mr Adam Holland (028 9066 7914)
Clients: SIAC and Kilbride Sands & Gravels
Client's Representative: SIAC - Noel Kennedy (00353 9328571)
Works completed: September 2008

Scope of the Works:

This contract on the Aran Islands 7 miles offshore of the coast of Galway on the west coast of Ireland involved the construction of a new Harbour facility for the island community. An existing Pier was refurbished and extended; dredging of rock to form a Harbour Basin and associated Navigation Channel; and an Offshore Breakwater constructed to protect the new harbour Facility. All dredged rock was brought ashore for use as infill material to the core of the Breakwater and Pier, and was also crushed to manufacture precast and insitu concrete for the works.

Ashleigh Contracts undertook the following elements of the Works:-

- Dredging approx. 25,000m³ of pre-blasted rock and haulage to onshore aggregate-crushing plant or for infilling to new Breakwater and Pier.
- Offshore dredging approx. 7,000m³ of limestone rock broken out with an underwater rockhammer in water depths up to 6m to form the Navigation Channel to the Harbour Basin.
- Retrieval and stockpiling of 1T Armour imported from mainland Galway to the island using a split-hopper barge and a side-discharge skip barge.
- Construction of new Offshore Breakwater approx. 150m in length comprising:-
 - o Infilling core with dredged rock
 - o Formation of Toe Trench in rock approx. 1.8m deep
 - o Construction of 1T Armour Underlayer on prepared slopes to the core of the Breakwater.
 - o Installation of 10T precast concrete X Block Armour Units – placed using 95T Long Reach excavator installed with Prolec PCX-3D GPS system for preparation for and placement of X Blocks to 3D co-ordinates underwater with minimal use of diving teams.
- Construction of Armoured slopes to refurbished and extended Pier comprising Armouring including X Blocks as detailed above for the Offshore Breakwater.



Views of stages of construction including construction of Offshore Breakwater including X Block Armour Units; and dredging of pre-blasted rock within the Harbour Basin



ASHLEIGH CONTRACTS

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