

NUIG Science Research Building

Description

The works comprise the design and construction of 8,212m² of hi technology science research facilities in a stand-alone 4 storey's (including penthouse plant) building on the north of the NUI Galway campus. The facilities consist of 6 x 1000m² laboratory modules with support, including a Bio-Resources Unit, meeting rooms, laboratories, write up space, offices, canteen, reception, seminar room, mechanical and electrical installations and associated plant rooms and spaces, including basement plant containing water tank rooms, the design and construction of site preparation and infrastructure works, the diversions of services, the provision of services and service connections, parking areas, paths and landscaping, loading bays, external plant and waste rooms.

The building's structural frame (all columns & floor slabs) is provided by a full precast concrete solution at ground, first, second and roof slab level over a partial basement level that is formed in insitu concrete. The Staircores and lift shafts are formed in double skin precast wall panels to full height and floor plates are topped by a structural screed. All five roof top plant rooms are formed in structural steel frame with insulated wall and roof panels. The main plant area is screened off by a 4.5m high structural steel framed screen clad in profiled sheeting.

The project involved complex services and specialist equipment interface and required specialist commissioning works to be undertaken. A key requirement for the Bio Resource Unit (BRU) was that it must be run with all operating systems fully operational for a continuous 30 day period called the "Burn In". The "Burn In" was overseen by a specialist commissioning company called the CUBE, the CUBE are a specialist company that oversee the design and build of Bio Resource Units.

All works to tie into to the existing services were carried out under Method Statements which had been fully reviewed by NUIG before work proceeded.



Client Name :
National University of Ireland

Architect:
Reddy Architecture

Quantity Surveyor:
Davis Langdon

Duration:
March 2012 - September 2013

Contract Value:
18m



JJ Rhatigan & Company Project Overview



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