



Client Name :
Our Lady's Hospital for Sick Children
Crumlin

Architect:
Cullen Payne Architects

Quantity Surveyor:
Davis Landgon PKS

Duration:
Phase 1: Jan 2002 - Feb 2004
Phase 2: Feb 2004 - Mar 2006

Contract Value:
Phase 1: 14m
Phase 2: 3.3m

Our Lady's Hospital for Sick Children, Crumlin

Description

Construction and fit out of seven new cardio vascular operating theatres within the "live" Our Lady's Hospital for Sick Children, Crumlin, Dublin. The €17m project also included intensive care units and associated sterile departments. Work on the construction of this new wing had to be carried out in the environment of a working hospital campus and the maintenance of a hygienic, sterile environment had to be maintained in the adjacent operating hospital and involved the following:

- Link to existing Intensive Care Unit and Sterilisation Unit was constructed, whilst maintaining Client occupancy.
- Integration of building within hospital service infrastructure with particular reference to working on the live MV Hospital electrical infrastructure, which involved working on high tension electrical cables.
- Substantial additions from the existing boiler bringing high pressure steam mains to the HSSD Unit (Hospital Sterile Service Department).

SPECIALIST AREAS

1. Theatre Lights

The operating theatre lights were installed by "Intra Venio Health Care Ltd." The light model used in this application was the "ML701" from The KLS Martin Group in Germany.

2. Theatre Pendants.

These pendants were supplied through our specialist mechanical contractor, these items although not required for fitting until quite late in the contract must be procured very early in the contract due to the fixing details to the concrete structure. The Image below shows all the operating lights & theatre pendants in one theatre.

3. Theatre control Panels.

The theatre control panels were supplied by Medical Supplies Northern Ireland Ltd. The Attached Image shows the Theatre Control Panel, with the Operating Lights and the theatre Pendants also visible.



Client Name :

Our Lady's Hospital for Sick Children
Crumlin

Architect:

Cullen Payne Architects

Quantity Surveyor:

Davis Landgon PKS

Duration:

Phase 1: Jan 2002 - Feb 2004

Phase 2: Feb 2004 - Mar 2006

Contract Value:

Phase 1: 14m

Phase 2: 3.3m



Our Lady's Hospital for Sick Children, Crumlin

Description

4. Remote Ultra Flow Unit & Glazed Canopy. (Ultra Clean Air)

This system was fitted in the dedicated orthopaedic theatre. This System was designed and supplied by "Medical Air Technologies Ltd."

5. Hepa Air Filtration.

The entire operating suites and all ancillary rooms were serviced with new high grade HEPA filtered air conditioning. Following the standard installation of all the Air Handling Units (AHU's), comprehensive testing had to be carried out to confirm the integrity of the units, the filters, and the ductwork. Originally intended for the production testing of Absolute (HEPA) filters, this test - generally referred to as a DOP (Di-Octyl Phthalate) test, introduces an exceedingly dense cloud of sub-micronic particulate into the dirty side of the filter under test.

The clean side is then viewed against a (preferably) dark background, where the slightest seepage of smoke can be clearly observed, so that even the most miniscule leakage can be dealt with.

(Because of concern that Di-Octyl Phthalate may have carcinogenic properties, it has been replaced by an alternative product, although the abbreviated name has been retained - now signifying Dispersed Oil Particulate.)

6. New Steam & Gas Line

Rotary Mechanical Services routed a new gas and steam line from an existing boiler house +/- 800 meters away from new project, all this work was done in close co operation with the hospital tech. staff and while the existing hospital was fully operational.

7. Electrical Enabling Works

O'Hara Electrical laid new HT cables to a new ESB substation (pre contract) to provide power to the new unit.

8. Bead Head Trunking.

This Trunking system was designed to the customer's specification by "Trilux" in Germany. It was fitted by our specialist electrical contractor. All the other elements were installed by the relevant contractors, medical gasses, telecoms, nurse call system etc.

9. New HSSD & CSSD Departments.

New HSSD and CSSD units where fitted out with push through Autoclaves (as per the images below) which where procured early in the contract , involved may different services and had to be commissioned and fully operational prior to handover.

JJ Rhatigan & Company Project Overview