

Title Of Project: Construction Of A General Administration Building And A National Laboratory For The Testing And Monitor Of Food, Pharmaceuticals, And Pesticide Residues In Tajoura

Site Of Project: (Tripoli, Libya).

Type Of Project: Design/Build Project

Start Of Project: December 2010

Project Credits: Owner/Client: Libyan Food & Drug Control Center

Contractor: AJZ Engineering GmbH

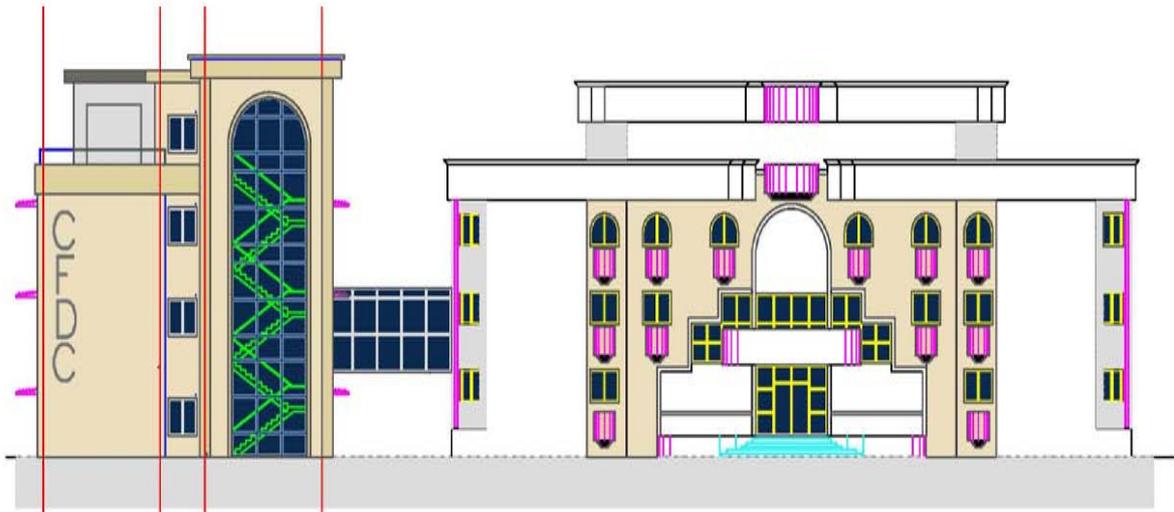
Subcontractor: Ergon Libya & Impetus Engineering S.A. Joint Venture

Building Program And Design: Impetus Engineering S.A.

Electromechanical And VAC System Consultant: Impetus Engineering S.A.

Current Situation Of Project: Suspended Due To War In Libya (2011-2012)

Prevision Cost Of Construction: 6.5 Million Euro



Brief Description Of Design Process

1. Introduction – General View Of Project

2. Recommendations Of Geotechnical Report

3. Existing Situation On Administration Building (Demolition Works And Renovation Of Building In Order To Meeting The New Functional Requirements Of Project)

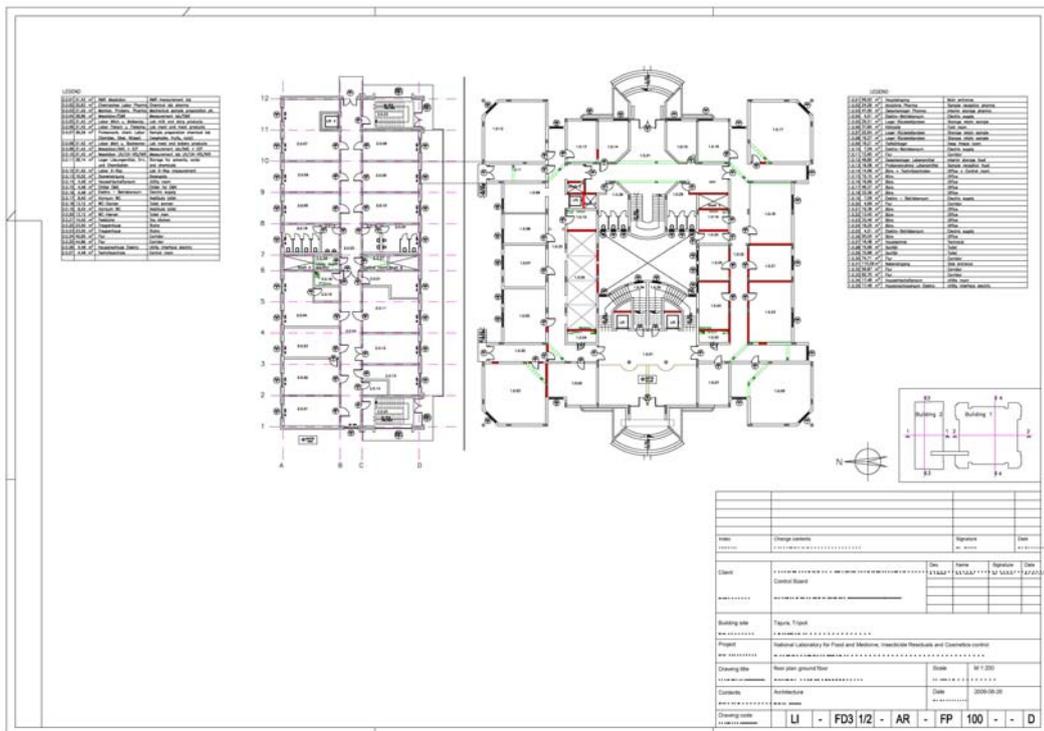
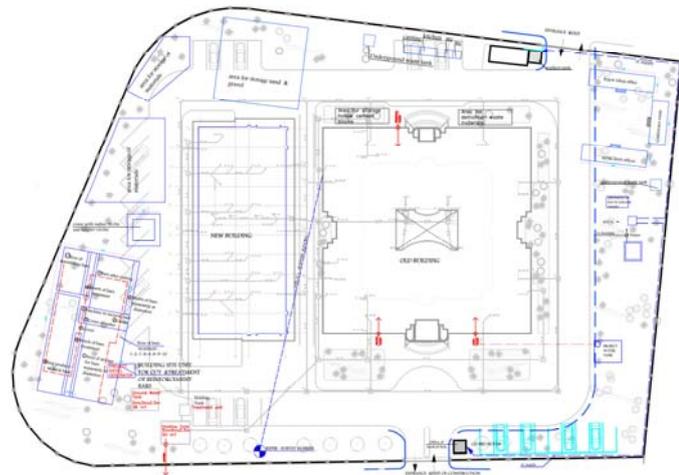
4. New Laboratory Building – Architectural Conceptual Design, Structural & Building Facilities Designs.

1. Introduction – General View Of Project

IMPETUS, through its branch in Tripoli (Libya) is the main subcontractor of the German company AJZ Engineering GmbH and is the solely responsible for the total engineering studies of the building as well as its construction. The project's objective is the design and construction of a public administration building and a national laboratory for the testing and monitoring of food, medicine and pesticide residues in Tajoura (Tripoli, Libya). The project is expected to bring many benefits to the everyday lives of the Libyans.

The project involves the re-construction of the public administration building (approximately 4.500 sqm) and the construction of a new building (approximately 2.000 sqm), which will serve as a laboratory. Within Impetus' responsibilities is the completion of the engineering studies, which include the following:

- ✓ Structural
- ✓ Sanitary & Hydraulic
- ✓ Electromechanical
- ✓ HVAC



This task has certain outstanding features and characteristics due to the niche technologies involved in its construction, special infrastructural requirements due to soil peculiarities and to special-outstanding architectural features. These features blend in a unique way, the environment, compatibility with neighbouring public buildings and the dynamic style required for an infrastructure that symbolises the “opening to the future”. A building for social needs, high standards in the use of technological methods, friendly to the visitors and employees, designed for functionality. It is characterised by robust material designed in a “soft” and artistic manner.





2. Recommendations Of Geotechnical Report

The geotechnical report was part of a geotechnical investigation work conducted by the Libyan technical consulting company for the authorization of a food and drugs control centre on a proposed building site in the Tajoura area.

The results of this work were aimed at geotechnical characterization of the site and advice on the suitable types of building foundations and any related geotechnical aspects of this site.

Two are the options of this report for the types of foundation:

- a) shallow foundation (raft foundation in depth of 3m) option
- b) pile foundation option

3. Existing Situation On Administration Building (Demolition Works And Renovation Of Building In Order To Meeting The New Functional Requirements Of Project)

The existing (established) building was transformed in order to meet the new functional requirements of project.

Impetus consulting team started to manage, together with the demolition plan, all the architectural & structural and electromechanical – VAC designs for the new adaption of building.

The design package of shop drawings was prepared before the start of war in Libya.

4. New Laboratory Building – Architectural Conceptual Design, Structural & Building Facilities Designs.

Due to the start of the war in Libya (2011-2012) the Impetus Engineering team could not conclude the shop drawings of the laboratory building with the exception of foundations analysis and design.