THE LATIN PATRIARCHATE
OF JERUSALEM

FINAL REPORT

Replacing an Elevator at the Latin Seminary of Beit Jala

GA 294/21

General Administration
Project Development Office
September 2023

Background

The Latin Patriarchate Seminary was established in Jerusalem in December 1852, by Patriarch Joseph Valerga, and due to political reasons at the time, the Seminary was moved to Beit Jala in 1936, and hasn't changed location ever since. The Seminary has formed 289 priests, including 15 bishops and 3 patriarchs: Giacomo Giuseppe Beltritti, Michel Sabbah and Fouad Twal. Founded mainly to train local clergy, the seminary has traditionally been, and remains, open to seminarians from other institutions and countries who wish to prepare themselves on site for the service of the Church in the Holy Land.

The Latin Seminary in Beit Jala is a historic institution that serves both students and faculty. The aging elevator, which was installed over four decades ago, had become unreliable and unsafe, raising concerns regarding security and accessibility. This project was undertaken to ensure the safety and security of the Seminary's occupants while enhancing overall functionality.

Project Description

A comprehensive assessment was conducted to determine the scope and requirements of the project.

Detailed plans and specifications were developed, incorporating the latest security technologies. The elevator replacement was carried out by a reputable contractor with expertise in elevator installations taking into consideration all safety and security standards. Below is a detailed description of all the works that were undertaken to install the new elevator:

• Dismantling and removing the existing elevator with all its components and fixtures, this included erecting and dismantling scaffolding and safety measures.

• Installing and testing a Full Packed Electrical Elevator, compliance with En.81.1-A3 & new code EN.81/20 & EN.81/50 and Palestinian standard with a one-year warranty equipment. This included all related material and electrical works, tests and certificates from the Palestinian Civil Defense and insurance certificate. **The elevator specifications are listed in Annex 1 of this report.**

Importance of Elevator Replacement from a Security Perspective:

Safety Concerns: The old elevator had a history of frequent breakdowns, posing safety hazards to its users. These breakdowns could potentially strand individuals within the elevator, creating emergency situations.

Enhanced Security Measures: The new elevator installation included modern security features such as access control and emergency communication systems. An improved emergency communication system ensures swift response in case of emergencies.

Project Impact

Improved Security: The new elevator has significantly enhanced security, reducing the risk of unauthorized access and improving overall safety.

Enhanced Reliability: The new elevator has proven to be reliable, reducing service interruptions and inconvenience for Seminary occupants.

Improved Accessibility: The updated elevator complies with accessibility standards, ensuring that all individuals, including those with disabilities, can use it comfortably.

The elevator replacement project at the Latin Seminary in Beit Jala successfully addressed the security concerns associated with the old elevator while enhancing overall functionality. The implementation of modern security features has greatly improved safety and security for all occupants. This project serves as a model for how strategic investments in infrastructure can positively impact institutions like Latin Seminary.

Beneficiaries

The direct beneficiaries of the project are the priests and seminarians who reside currently at the Latin Seminary in Beit Jala (15 individuals) and all guests and visitors who frequent the Seminary on a regular basis.

Before


HUAWEI P30 Pro
LEICA QUAD CAMERA


Schindler
HUAWEI P30 Pro
LEICA QUAD CAMERA


HUAWEI P30 Pro
LEICA QUAD CAMERA

After

Annex 1

Elevator Specifications:

- Capacity 625Kg, 8 Passengers
- Velocity 1.0 m/drive VVVF - Closed Loop, Leveling Accuracy +/- 3 mm
- Motion Control: Simplex, with Microprocessor Controller
- Number of Stops= 4, Number of doors=4
- Travel height=12 Meters
- Shaft- Size=WxD (1600x1650) mm, Overhead=3600mm
- Pit Depth=1500 mm
- Gearless motor
- Electronically controlled microprocessor

Elevator Control System

- Based on low-energy multiprocessor technology
- Overload function
- Fire emergency return control
- Phase failure and phase reversal protection
- Overheat protection
- Full load bypass
- Automatic return to main floor
- Power control with sequential starting
- Intercom between car and controller box
- Handicapped options and requirements

Car operating panel:

- One COP
- High-resistance stainless steel panel- with stainless steel squire type
- Micro Touch push buttons at side walls and landing
- Voice announcement system
- Braille System

- Overload protection device with audible and visible signal
- Emergency bell and light
- Car dimensions: Width*Depth:1200*1250 mm
- Car Doors: 2 fully automatic central panels, heavy duty, central opening 2 panels, hard anodized aluminum door sill, stainless steel panel finish with door safety device

Safety:

- Safety Gear for car, buffers and counterweight
- Overload function
- Fire emergency return control
- Re-leveling
- Noise and thermal protection
- Earth leakage protection
- Voltage drop protection
- Over speed protection
- Phase failure and phase reversal protection
- Full load bypass
- Automatic return to main floor
- Independent operation
- Anti-stall timer
- Intercom between car and controller box
- Compliance with handicapped options as EN81-70
- Automatic Evacuation

Motor Drive:

- Closed loop
- Variable Voltage Variable Frequency (VVVF) system
- Permanent magnet gearless machine with double coil braking system
- Oilless type with 25 years lifetime certified by the manufacturer according to EN-81

LATIN PATRIARCHATE
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Sami El-Yousef
Chief Executive Officer

General Administration Office
Jaffa Gate, P.O. Box 14152
Jerusalem 9114101
Tel. + 972 2 6282323
E-mail: ceo@lpj.org
www.lpj.org