

## DESCRIPTION OF THE WORKS

The works carried out concerned:

### **WORK OF REFURBISHMENT AND STRENGTHENING WITH DECONTAMINATION, REINFORCEMENT AND RESHAPING OF THE SECTIONS IN REINFORCED CONCRETE ALREADY PRESENT AT THE BASE OF THE BUILDING**

In the internal area of the building a dig was carried out to expose the weight-bearing structure of the building, along with a thorough clean up of the existent concrete and the treatment of the steel reinforcement bars, brand new connection beams were built where missing, twin beams at the sides of those existing and the realization of new plinths.

The work proceeded with the slab of the sections of the existing pillars, until a height of 2,40 above the planking level, in order to prepare the housing for the insulators.

### **SEISMIC INSULATION AT THE BASE OF THE BUILDING WITH THE INSTALLATION OF SEISMIC-INSULATING SYSTEMS**

The work was carried out with the retrofit technique, which consists in cutting the existing pillars and in the subsequent insertion of the seismic insulators.

These underwent mechanical proof tests by the producing company, carried out by the University of Padoa and then additionally verified by the University of Basilicata.

### **STRENGTHENING OF THE MASONRY**

On the walls in sack stones masonry with brick rows at the ground floor the work proceeded, with specific machinery, with the injection of mortars at volumetric stability (hydraulic lime), to improve the mechanical characteristics of the masonry.

### **REINFORCEMENT OF REINFORCED CONCRETE ELEMENTS WITH METALLIC HOOPING (METALLIC CARPENTRY)**

On the ground floor and on the first floor works of structural improvement took place reinforcing pillars and beams through metallic hooping with metallic carpentry.