

Earthquake Simulator Test Results

August 24, 2020

Turin Polytechnic University in Tashkent and Namangan Engineering-Construction Institute conducted earthquake simulations tests at the university laboratory from August 11 to 21 of this year.

The researchers focused on improving the seismic stability of individual residential buildings in their experiments that used the shaking table with two building models on it.

The first model was constructed with seismic dampers; the second, without. The test showed that the first model was more stable to seismic activities and had almost no damages on it compared to the second one. Apart from this, cracks all over the walls of the second model, which had no seismic dampers, clearly revealed the vulnerability of the building to the seismic activities.



The final picture of the earthquake simulation test conducted in the laboratory at Turin Polytechnic University in Tashkent in collaboration with Namangan Engineering-Construction Institute (August 21, 2020).



A team of young researchers get ready for the assessment of structural building models and components in seismic environments with the earthquake simulator at the laboratory of Turin Polytechnic University in Tashkent (August 21, 2020).



Just few moments before a start of the assessment of structural building models and components in seismic environments with the earthquake simulator at the laboratory, Begmurod Karimov, a PhD student of Turin Polytechnic University in Tashkent, far right, wearing a green shirt, is looking at a cameraman fixing his equipment (August 21, 2020).

The following researchers participated in the earthquake simulation tests:

On behalf of Turin Polytechnic University in Tashkent, Civil Engineering and Architecture Department:

Said-Islom Usmanov, a professor

Begmurod Karimov, a PhD student

On behalf of Namangan Engineering-Construction Institute, Department of Construction of Buildings and Structures:

Razzaqov Jo'rayevich, a scientific adviser

Eshonjonov Jahongir, a PhD student



Bahtiyor Juraev, a researcher



Rasul Martazaev, a PhD student of Namangan Engineering-Construction Institute, is constructing a building model for seismic stability assessment for the earthquake simulator in the lab at Turin Polytechnic University in Tashkent a few days before launching a test (August 17, 2020).