

PROJECT DOSSIER

NEW CUZCO – CHINCHERO INTERNATIONAL AIRPORT



PROJECT OVERVIEW

The new Cuzco – Chinchero International Airport is located in the town of Chinchero, 30 km north of Cuzco, in Peru.

The airport has been conceived as a key project to the reactivation of the regional economy, and it is expected to promote the creation of over 1 million new direct and indirect jobs.

Being one of the most prominent tourist destinations in Peru and South America, the new Cuzco – Chinchero International Airport aims to become the main gateway to the Sacred Valley of the Incas.

The capacity of the new Cuzco – Chinchero International Airport is expected to reach 5.5 million passengers per year. It will increase the capacity of the current Cuzco Airport by up to 60%.

The project spreads over a surface of 445 ha (1.75 sq mi).

Project	New Cuzco – Chinchero International Airport
Location	Chinchero, Peru
Client	Metrix Peru S.A.C.
Contractor	Hyundai E&C – HV Constructores
Duration	2021



MONITORING SOLUTION

The purpose of the instrumentation and monitoring solution adopted was to control the ground deformations and groundwater variations in the area, during the early stages of ground fill-up and soft soil improvement works.

Encardio-rite was the selected supplier of the monitoring instruments deployed in the project, providing also technical support during the installation works.

INSTRUMENT USED

Instruments used for sub-surface monitoring during ground fill-up and soft soil improvement works

Inclinometer	Installed within boreholes to monitor subsurface lateral deformations during the ground fill-up works
Vibrating wire piezometer	Installed to monitor pore pressure and variation of water head because of the ground fill-up works
Open standpipe	Installed to monitor variations of groundwater levels.
Magnetic extensometer	Installed within boreholes to monitor sub surface settlement during the ground fill-up works.

