

## TEXAS INSTRUMENTS PHASE V BUILDING EXPANSION PEZA COMPOUND, LOAKAN ROAD, BAGUIO CITY, CORDILLERA ADMINISTRATIVE REGION, PHILIPPINES

### Reinforced Soil Walls and Slope Reinforcement

#### Problem

The Texas Instruments' Phase V Building Expansion Project in Baguio City, Philippines has been faced with major slope instability problem. At the location of crane, the slope was reinforced with soil nailing. However, even after the installation of soil nails, due to the enormous height of the slope and the loose type of soils, portions of the reinforced slope have collapsed. To mitigate the problem, a secondary earth protection system to support the soil nailing system was needed.

#### Solution

Considering the weather at the site during construction and the tight schedule of project completion, the contractor (CCT Constructors Corp.) and the Project Consultant (TCGI Engineers), agreed that the proposed secondary earth retaining system by Maccaferri engineers was applicable and practical.

Maccaferri engineers proposed Terramesh System and gabions to construct the secondary earth retaining wall system using the concept of reinforced soil. Maccaferri engineers assisted on the training of the contractor's personnel. The construction of the MSE wall has been a success and was done in two months, just in time for the turnover of the facility to the owner.

**Client:** Texas Instruments Philippines, Inc.

**Designer / Consultant:** TCGI Engineers

**Contractor:** CCT Constructors Corporation

#### Products used (Qty.)

- Gabion	269 cu.m.
- Terramesh	998 cu.m.
- MacTex Non-woven Geotextile	10,400 sq.m.

**Date of construction:** 11/2007 - 12/2007



Before Construction



During Construction



Project Completed



Project Completed