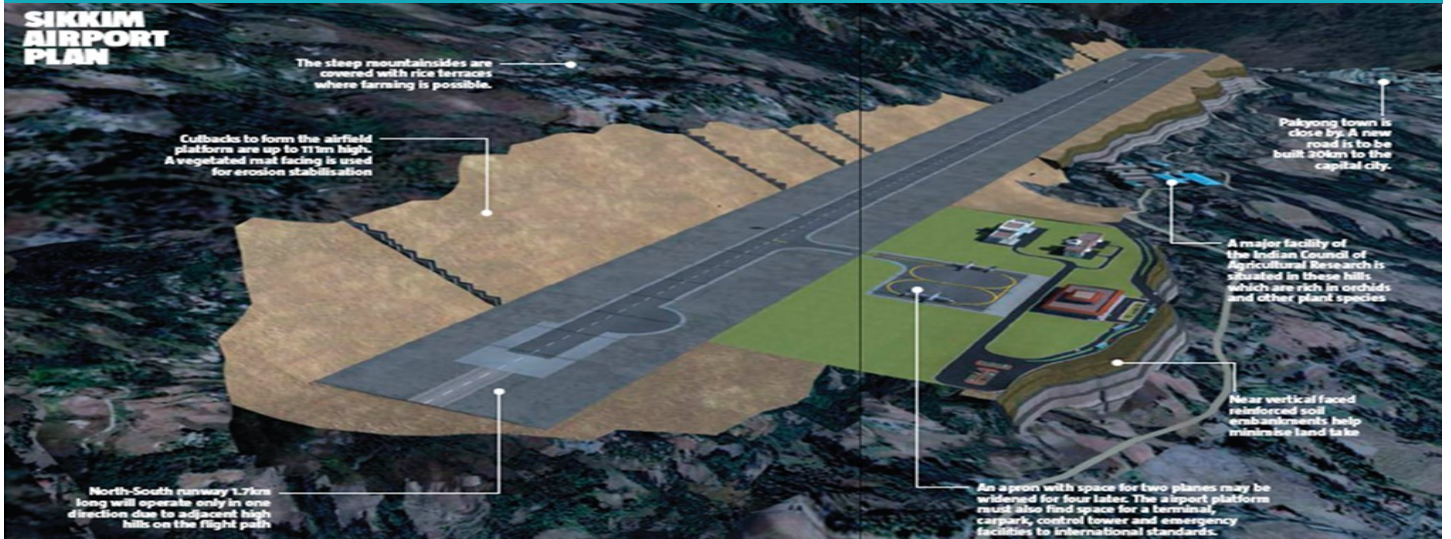


**PAKYONG AIRPORT SIKKIM: DESIGN OF VERY HIGH RETAINING STRUCTURES FOR RETAINING THE AIRPORT TERMINAL BUILDINGS**

**MOTTO MACDONALD**



**CASE REFERENCE: 101/CS/2008-2009/Sikkim**

**BRIEF:**

Pakyong Airport, involving design for one of the world's highest reinforced soil structures with maximum height of the structure being 75m on the valley side and stabilization of cut slope on hill slide with height of cut extending upto 100m.

**Duration:** February, 2009 - May, 2011

**Owner/Client:** Motto MacDonald

**Location:** Pakyong, Sikkim, India.

**Role of Genstru:** Design Consultant to Motto MacDonald



After Construction



After Construction

**MAIN DELIVERABLES:**

- a) To provide detailed design and good for construction drawings for composite soil wall structures on valley side, with overall area of over 56,000 Sqm. and height of structure varying from 30m to 75m. This also includes arrangement of sub-surface drainage system.
- b) Provide detailed design and good for construction drawings for slope protection on hill side.
- c) Provide method of statement for construction and monitoring of reinforced soil structure.
- d) Checking and validating the constructed RS wall structures to see whether it is as per design.
- e) Analysis of completed structures with the soil and geometrical data provided by the main consultant.

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