

ECORoads CASE STUDY

Heavy Farm Road Road: Bangkok Area, Thailand

KEY FACTS

Date Built
2008

Sponsor
AsiaRoads, Inc.

Distance
250m

Purpose / Use
Heavy Farm

Soil Type
Sandy Clay

Weather
10C to 45C;
very heavy rainfall

Performance
No maintenance
required to date

Construction Time
4 hours

Finishing
Prime coat

Lab Testing
Kasetsart University

ECORoads Withstands Monsoon Conditions

One of the major challenges facing road infrastructure in Thailand is the constant flooding associated with the annual monsoon season. Concrete bases crack up, levees and soil beds are regularly damaged, and roads get built and washed out on a regular basis, especially in rural areas with farm and rice paddies.

TerraFusion has been working with our partners in Thailand, **AsiaRoads** for the past three years to help the Thai government and regional agencies tackle this issue. Existing soil materials in the locations where we've been working have CBR levels under 5%. ECORoads strengthened these soils up to 30% CBR, so the contractor was able to salvage and use the local soil, saving removal and dumping costs.

After extensive laboratory testing, we collaborated to construct a demonstration road in 2008 using only local materials and a simple prime coat of emulsified asphalt and local sand. Thanks to ECORoads, the contractor was able to reduce the total number of layers required to build the road from four to two. The road has already withstood its first rainy season with flying colors (no cracking, pot holes or rutting), whereas surrounding roads have washed away as usual. The ECORoads solution promises to save at least 40% of the costs of building a more traditional road and well over 50% of the costs of maintaining these roads on a regular basis.

Because of the weather, government budgets often focus on revitalizing and reclaiming deteriorated roads — ECORoads is in a prime position to capitalize on this opportunity as well.



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