



YAOWAWIT SCHOOL, FARM & LODGE

Site Progress Report

Re: Landslide Repairs & Soil Erosion Prevention Works

25 June, 2019

This is a final progress report as of **20th June, 2019** with tasks and photos as per progress on the said date.

1. The stream's banks on all sides of the two bridges that crosses the main stream have been stabilized using gabion mattresses filled with rocks.
Due to budget constraints, THB 50,000 was allocated and these repairs are deemed as temporary which lasts another year or two.
As reported on 8th April, 2018 the design of the current bridges does not cope with massive volumes of flush floods and debris. The budget to build two new bridges using 3 rows of 1.50x1.50m square concrete tubes would costs THB 590,000. These works can be effectively done in dry season (February 2020).
See photos below showing the bridges condition before and after repairs.





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2. Main stream's bank erosion has also been stabilized using gabion baskets filled with rocks at two most damaged points. The additional budget for these stabilization works costs THB 35,000.



3. Site storm drainage has been divided into three scope of works:
 - a. At the top along the buildings, have cleared manholes of debris and replaced damage asbestos pipes with PVC pipes.





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- b. Installed two main lines of large PVC pipes collecting storm water and divert it away from slopes

LINE #1





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LINE #2



- c. Install large manholes and concrete tubes under the retaining wall and service road below, to drain storm water into the stream.

LINE #1





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Line #2



4. After the storm drainage works were completed, vetiver grass was planted onto the exposed slopes to help stabilize the soil with its long penetrating roots.



5. The remaining payment claim from original scope of works, amounting THB 252,000, was paid to contractor on 24th May, 2019.
6. All additional works which were approved on 6th June, 2019 with a total amount of THB 211,100 are completed and paid in full to contractor on 14th June, 2019
7. A 5% retention it is withheld in the amount of THB 108,055. Half will be released upon practical completion and the remaining half after a 12 months warranty period.
8. The overall expense for landslide repairs and soil erosion prevention works, has capped at THB 3,750,000 (according to my records). There could be minor variations on other gardening works and recent additional piping works as required after the storm damage on 23 June, 2018

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