VETIVER GRASS APPLICATION WITH COCO-FIBER PRODUCTS IN PUBLIC INFRASTRUCTURE

Slope protection works on lahar mega dike

Botolan, Zambales
2.3 kilometers length, average of 6 meters slope surface run
• slope is part of the mega dike facing the other side of the river.
COCO NETS

- made of coco twine from coconut fibers

- rolls of 1m width x 20m length or 1m width x 50m length

- excellent ground cover and lasts until vegetation takes control

- 22,000 sq.m. of coconets were used in the project
• Vetiver rows planted at 10 plants/meter in between coconuts
COCO-LOGS

- 30cm diameter
- 3 meters length
- coconut fiber fill wrapped in nylon nets or coconets
- the logs are held in place by 2ft. live wood stakes
- 766 pcs. logs were used
• Madre de Cacao locally known as kakawate are used as live stakes

• The stakes are used to secure both the logs and the nets.

• 4,600 pcs of 3ft. stakes anchored the cocologs

• 60,000 pcs. of 6 inch stakes for the coconet were used
Kakawate stakes holding the nets, with new leaves growing side by side with coconets.
METHODOLOGY

• land preparation

• laying out and staking of nets
• planting of Vetiver grass rows

• stitching of nets together
THREE WEEKS AFTER

ACCOMPLISHED AREA FOR ONE DAY
PROJECT DETAILS

• 2.3 kilometers length, average of 6 meters slope surface run
• Vetiver rows planted at 10 plants/meter in between coconets
• 25 workers finished the project in 21 working days
• 22,000 sq.m. of nets were used
• 766 pcs. of logs laid out and connected