

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 coconets**

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.



KAKAWATE STAKES

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

- 60,000 pcs. of 6 inch stakes for the coconet were used



A 30 DAY OLD KAKAWATE STAKE

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



ACCOMPLISHED AREA
FOR ONE DAY



THREE WEEKS
AFTER



June 23, 2012



July 25, 2012





AUGUST 2012

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**