SUCCESS STORY OF THE VETIVER SYSTEM IN ASSAM

Case 1

Highly eroded Kolong river bank

Same stretch prepared for plantation - note the very steep slope
Vetiver planted in 1m x 1m grid

Vetiver plants in the 3rd month
Flood water reached the arrow mark (Top of the porcupine) as seen in the following photographs.

- Top of porcupine nearly submerged
Vetiver plants submerged

- Close-up of submerged plants
Telahi after the first flood. See the erosion downstream. No erosion on the planted stretch.

- Our plantation limit marked above.

CASE 2

*Kapili riverbank, Kachua, before*
Kapili riverbank, Kachua, during plantation

Same stretch of river kapili after 3 months of plantation
Kachua after 3 months

Kachua- Luxurious growth on gentler slope after 3 months, Callous departments work damaged this portion
CASE 3

The bank of Na- Dihing river
Eroded bank of Na-Dihing

The tension crack – imminent sloughing
This innovate mattress was designed to prevent underwater erosion.

Initiation of silt deposit- seen after the water level receded.
Another picture of plantation in the 3\textsuperscript{rd} month - after 2 floods

3\textsuperscript{rd} month. Already withstood 2 floods
The flexible mattress is pinned by bamboo

Fresh deposit of silt has almost completely buried the mattress
After several floods. Note the mattress completely buried in silt.

CASE 4

Erosion of the Brahmaputra downstream of disangmukh
The crack before slumping

Planting started on 28/2/2010 and ended 25/3/2010
Heavy rain started from 1st week of March
Complete inundation on 17/4/2010

Devastation by flood. Flood water rose by about 6 metres
Boat plying over the plantation

Trying to save the plants. Removing debris
Badly battered

Plants recovering
Plants coming up
Plants on 2/5/2010. Survived 3 floods. NO EROSION SO FAR

CASE 5

Navagraha temple - before

Note the eroded surface
3 months after plantation. A few heavy showers could not cause any erosion.

Closeup at Navagraha hill slope
CASE 6

Steep slope stabilization in Guwahati. This slope was notorious for mud slide. Immediately after plantation

Plantation after 1 month
Mud slide arrested

Case 7

Ongoing projects : Hajo- Nalbari Road
Hajo- Nalbari road
Rows 1m apart, plants @ 15 cm

Plantation on Bridge approach
Plantation on steep slope in Sikkim

Same slope protected by Vetiver
Same slope today. It has withstood heavy rainfall for more than one month without any landslip.