

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



Telahi – 4th month



Flood water reached the arrow mark(Top of the porcupine)
as seen in the following photographs

Telahi during the first flood



- Top of porcupine nearly submerged
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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



Very steep slope- but no erosion
after flood

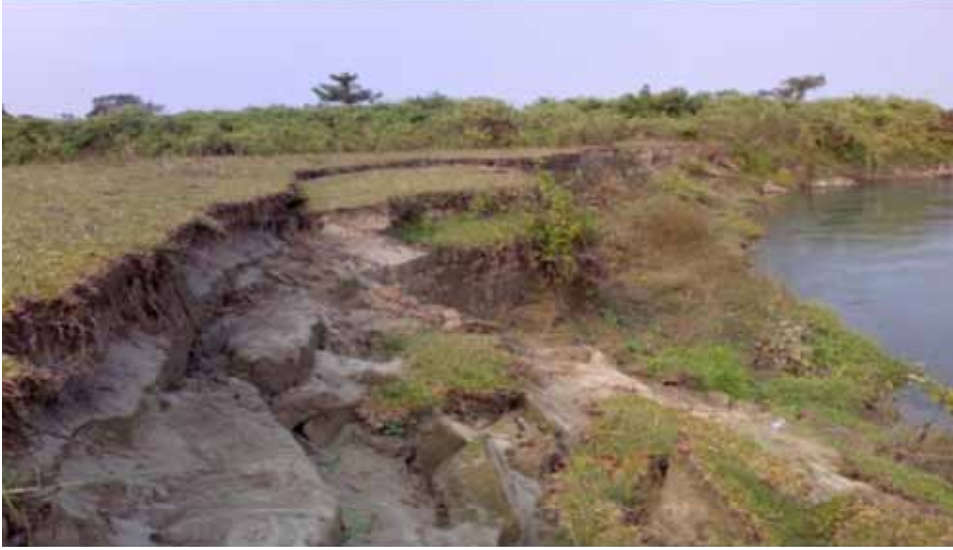


CASE 3

The bank of Na- Dihing river



Eroded bank of Na- Dihing



The tension crack – imminent sloughing



The flexible mattress with sand bags and net



This innovative mattress was designed to prevent underwater erosion

Initiation of silt deposit- seen after the water level receded.



Another picture of plantation in the
3rd month- after 2 floods



3rd month. Already withstood 2
floods



The flexible mattress is pinned by bamboo



Fresh deposit of silt has almost completely buried the mattress

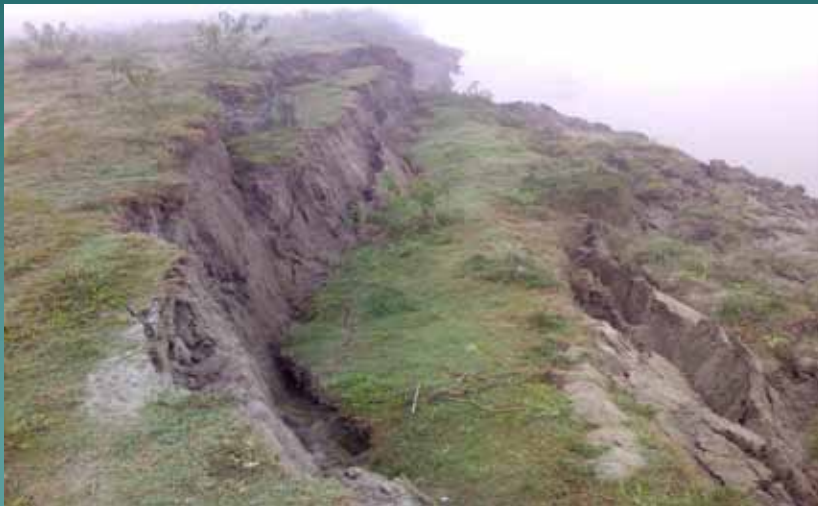


After several floods. Note the mattress completely buried in silt.



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 metre



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





Case 8

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

