

Fourth Progress Report



Eco-Restoration of flood affected riparian vegetation and braided bars in Chalakkudy River

for the Project
GoI-GEF-UNDP
India High Range Mountain Landscape Project, Kerala

Submitted by



School of Environmental Sciences
(Mahatma Gandhi University)



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1.0 BRIEF REPORT

Eco-restoration of flood affected riparian vegetation and braid bars in Chalakudy River

We have conducted PRA meeting with VSS members of Athirappilly in which we discussed about the maintenance of nursery, planting site weeding and management of riparian vegetation in Charppa range of Vazhachal forest division. The figure a, b, c and d shows the PRA meeting in Athirappilly VSS, Charppa range of Vazhachal forest division.



Fig. a



Fig. b



Fig. c



Fig. d

Collected the physical measurement of braid bars and evaluated the present condition of restoration sites and assess the plants that survive without any damages. The figures e, f, g and h shows the field

measurement works done in planting sites in which we assessed the plants stability and growth rate by the evaluation based on plant height, number of leaf, and branch count.



Fig. e



Fig f



Fig. g



Fig. h

We have completed the restoration activities in selected riparian regions and braid bars of Pariyaram range of Chalakkudy forest division and Charppa range of Vazhachal forest division. In Chalakkudy Forest division we planted 6247 saplings. Table 01 shows the plant species used in restoration activities in riparian areas and braid bars of Chalakkudy River and figures i and j shows the restoration activities done in Pariyaram range of Chalakkudy forest division.

Table 01. List of Plant species used in planting

Sl No.	Botanical name	Local name
1	<i>Humboldtia vahliana</i>	Attuvanchi, Korathi
2	<i>Madhuca neriifolia</i>	Attu elippa
3	<i>Terminalia bellirica</i>	Thaanni
4	<i>Hopea parviflora</i>	Thambagam
5	<i>Pongamia pinnata</i>	Vungu
6	<i>Bambusa bambos</i>	Mula
7	<i>Macaranga Peltata</i>	Vatta
8	<i>Cinnamomum riparium</i>	Vayana
9	<i>Syzygium cumini</i>	Kattu njaival
10	<i>Lagerstroemia speciosa</i>	Manimaruthu

**Fig. i****Fig. j**

Also completed the fencing works and maintenance of flood affected planting areas in Pillappara. Then we select VSS members of Pillappara for the collection of naked seedlings from riparian regions to the riparian nursery for the next planting season. The following figures k and l shows the maintenance of fencing and planted saplings in flood affected planting sites and figure m shows the riparian region where we collected saplings for nursery development.



Fig. k



Fig. l



Fig. m

The students and faculty members also participated in the restoration program



Students of SES planting trees





