



**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF
BANGLADESH
Bangladesh Rubber Board**

**Initial report on the project - "Measuring carbon stock and climate change
mitigation by rubber plantation in the Kanchannagar Rubber Garden,
Chattogram"**

Submitted to-

**Secretary
Bangladesh Rubber Board
Head Office, Chattogram.**

Submitted by-



Effective Creation on Human Opinion (ECHO)

(An Organization of Social Development and Research)
DC Road, Chawkbazar, Chattogram, Bangladesh

Summary

Total number of recorded plant species-103

Total Medicinal Plant species-85

Total rare and threatened plant species-00

Total least concern species-26

Total abundant species-04

Abundant species name- *Centotheca lappacea* (L.) Desv.

Spermacoce alata Aubl.

Spermacoce ocymoides Burm.f.

Digitaria ischaemum (Schreb.) Muhl.

The amount of biomass carbon in *Hevea brasiliensis* (Rubber plant) is about 365.35 tonnes/ha.

The amount of organic carbon in the soil is approximately 26.28 tonnes/ha.

Observation

Observation 1

From our field study, it is clearly illustrated that the rubber plant is an alien invasive species due to the fact that no mentionable plant species were found under the canopy (50 to 100%) of this plant (figs. 1 and 2). However, in the absence of a rubber plant or under a lower canopy (0 to less than 50%), few species were seen that are abundantly distributed (Figs. 3 and 4).



Fig-1



Fig-2



Fig-3. Diversity is different in absence of rubber plant

Observation 2

The lowest species richness observed in the study area is due to the seedlings of rubber plants, which are abundantly distributed throughout the study area. It may be overcome if the seed is harvested before germination.

Observation 2

No mentionable animals were seen during the field work or reported by the local people in the study area.