

Study on Implementation of Eco System Based Adaption-Disaster Risk Reduction measures on River sides of Urban areas in Kathmandu Metropolitan Area

Prepared and Presented by
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Background

- River Cutting along the banks has caused loss of property and disturbance in Ecology in Kathmandu city
- Water table and catchments are disrupted in national capital, resulting in Water Scarcity.
- Pollutant run-off has added more pollution, decreasing water quality in downstream.
- It is now necessary to initiate a youth lead action in order to combat threats that have been destroying plant and bird life including sustainability of city and to restore river side bio diversity up to certain extent.

Objectives

The major objectives of the project is to reduce the water induced water disaster at Bagmati and control the water loss city.

More specifically, this is research project that focuses on:

- Research on local species of trees and bushes that grow around Bagmati banks
- Research on suitable climatic conditions, soil and water quality required for growths and survival of those vegetations
- Research on suitable species that survives in local environmental condition.
- Research on developing plans to re-grow lost vegetation around river banks.

Implementation Strategy

- Implementation of the project shall be done with multi-disciplinary team including Botanist, Ecologist and Environmental Engineers from HERI.
- It involves participation with local schools in aware primary level students and co-ordinates with local governmental bodies.
- Research work shall be done by HERI while assistance from local stakeholders and authorities shall be taken in implementation phase of project.

Beneficiaries

- Restoring Biodiversity at riverbanks shall benefit to all local dwellers, travelers and people resting at park.
- In addition, it shall create habitat for birds. Increase in infiltration will improve level of water table.
- Reduce pollutants entering to River and ensure water quality in downstream.
- Road side aesthetics shall be improved and threats of disasters shall be elaborated.

Implementing Organization

- Himalayan Environment Research Institute (HERI) shall be responsible in coordinating and implementation for all activities for the project.

Institutional Partners

- Implementation of the proposal will not require additional partners other than local bodies like metropolitan city.

Duration & Timeframe

- Duration of the project will be 18 months.
- Earlier 6 months in research of suitable vegetative species
- Next 6 months in planning in plantation and management for restoration of vegetation
- Final 6 months for carrying plantation works at various location (mostly governed by season)

Overall Budgets

- Overall budget for the implementation for proposal is estimated to be 3000 USD including all kind of lab test implementation works as presented below:

S. No	List of Activities	Estimated Cost (USD)
1	Field Visit	300
2	Purchase of Plants	1000
3	Transportation of Plants	200
4	Compost and Manure	500
5	Lab testing works	1000
Total		3000

Monitoring and reporting Modalities

- HERI shall establish internal monitoring mechanism to ensure project is moving on good track.
- If project is seen to be deviated, internal mechanism will alert and find any faults.
- Internal monitoring mechanism team will submit its regular progress to donor in bi-monthly basis.

Thank you 😊



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