

Technology Fact Sheet for Adaptation

Technology Fact Sheet: Unban Infrastructure Development ⁱ

Sector	Water/ Urban resilience improvement
Technology Name	Unban Infrastructure Development
Adaptation Benefits	Urban infrastructure development will save valuable land and properties, reduce the number of landless people and protect increasing number of poverty affected people
Background/ Notes, Short description of the technology option	This implies urban infrastructure improvement to include urban drainage for sustainable urban drainage system. Most of the canals in urban areas of the coastal region have been silted up due to deposition of incoming silt with high tide twice a day during dry season. The old drainage structures are weaker and fragile due to salinity effect and prolonged use. The solution to the problem can be addressed through medium and long term program using traditional technology.
Implementation assumptions, how this technology will be implemented and diffused across the subsector	Important considerations for the urban protection technology are: <ul style="list-style-type: none"> • Identification of the reaches vulnerable to cyclonic surge and river erosion of the coastal cities/ towns • Planning and design of flood wall, spar and river bank revetment works. • Re-excavation of canals by excavator/manual. • Rehabilitation of sluices with radial gates • Monitoring of the stability of flood wall, spur and river bank revetment works. • Construction /implementation of bank revetment work
Impact Statements-How this option impacts the country development priority	
Country social development priorities	<ul style="list-style-type: none"> • Number of landless people will be reduced. • Will protect from increasing number of poverty affected people
Country economic development priorities	<ul style="list-style-type: none"> • Valuable land and properties will be protected.
Country environmental development priorities	<ul style="list-style-type: none"> • Awareness building to guide for taking action by the decision makers to ensure future sustainability.

Costs	
Capital costs	<ul style="list-style-type: none"> • Approx cost = Tk 10.00 Lakh/ town identification of vulnerable reaches to cyclonic surge and river erosion • Approx cost of Planning Tk 10.00 lakh/ town • Aprx of re-excavation= Tk.50 lakh/ km • Aprx cost of sluice = Tk 100.0/- lakh/no. • Approx cost of revetment bank = Tk 2000 lakh/ km <p>Total: Taka 2170 lakh; (USD 2712500)</p>
Operational and Maintenance costs	<ul style="list-style-type: none"> • Approx cost of monitoring = Tk 20.00 lakh/ town (USD 25000)

ⁱ This fact sheet has been extracted from TNA Report – Technology Needs Assessment and Technology Action Plans For Climate Change Adaptation– Bangladesh. You can access the complete report from the TNA project website <http://tech-action.org/>