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research and other academic institutions involved in the operation and management of water infrastructures	understanding and knowledge on the technology	LGED, MoDMR, IWM, CEGIS, BUET,			efficiency in operation and management of tidal barriers through collaborated effort of the related institutions
Ensuring participation of local people in the planning and designing of sluice gates and their maintenance	To ensure ownership on the local people to planning and implementation of TRM	MoWR, BMD, LGED,	2013-2017	20	Increased local ownership and social acceptance of sluice gate technology
Working with the communities to listen to their opinion and problems in the construction and management of the sluice gates	To reduce the risk of any environmental impacts and risk of water logging	MoWR, BMD, LGED,	2013-2017	25	Reduced environmental impacts for the construction of sluice gates
Policy and law					
Scheduling a structure maintenance plan with the participation of local people	To ensure proper maintenance of tidal barriers	MoWR, BMD, LGED,	2013-2023	20	Increased involvement of local people in the maintenance of tidal barrier technology.

1.4.1.6. Technology action plan for Urban Drainage Development Technology

a) Aggregation and grouping of identified measures

Following identification of measures in the stakeholders' consultation workshop, the identified measures have been grouped under broader strategic measures are presented in the table below:

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Table 16: Grouping of measures under broader criteria

Technology	Strategic measures	Specific measure	Timeline	
			Short Term (1-5 years)	Long Term 1-10 years
Urban Drainage Development Technology	Investment	Making a detail sectoral plan with cost estimation and timeline for construction of urban drainage infrastructure	√	
		Increasing budgetary allocation to the local administration for the development of maintenance of urban drainage infrastructure	√	
		Making a sector- and technology-specific proposal and generating funds from the development partners and other international adaptation funding sources		√
	Capacity development	Developing of a comprehensive action plan for the coastal districts with time-scale from developing urban drainage system		√
		Developing site specific geo-informatics database on sediment transport, erosion and accretion modeling		√
	Organizational/ behavioral change	Increasing collaboration between national and local level authority in designing urban drainage plan.	√	
		Establishing collaboration among research and other academic institutions involved in the operation and management of urban infrastructure planning	√	

b) Technology Action Plan

Table 17: Technology action plan for Urban Drainage Development Technology

Sector: Water					
Specific technology: Urban Drainage Development Technology					
Measures (Grouped under broader category)	Importance of the measure	Implementing agency	Timescale	Cost for the measures/	Monitoring, Reporting and

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				Unit ('000 USD)	verification for measure
	1	2	3	4	5
Investment					
Making a detail sectoral plan with cost estimation and timeline for construction of new sluice gates and up-scaling the existing	To help policy makers and investors to have a clear idea on investment requirement for the implementation of the technology.	Ministry of Planning, Ministry of Local Government and Cooperatives, City Corporations	2013-2017	80	Readily available detail const estimation for the policy makers and investors
Reviewing and increasing budgetary allocation for the construction and maintenance of the sluice gates	To ensure regular maintenance of sluice gates embankment with increased finance from Annual Development Programme (ADP).	Ministry of Planning, Ministry of Finance, Ministry of Local Government & Cooperatives, City Corporations	2013-2017	60	Increased water sector budgetary allocation from the ADP for construction and maintenance of tidal barriers
Making a sector and technology specific proposal and generating funds from the development partners and other international adaptation funding sources	To get immediate and long-term funds from international sources.	Ministry of Local Government and Cooperatives, City Corporations	2013-2023	35	Communicated technology specific proposal to the development partners
Capacity development					

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Developing of a comprehensive action plan for the coastal districts with time scale from developing urban drainage system	To help policy makers and other stakeholders to prioritize actions and make investment decision on the priority action.	Ministry of Local Government and Cooperatives, City Corporations	2013-2023	25	Readily available comprehensive action plan for the policy makers and investors
Developing site specific geo-informatics database on sediment transport, erosion and accretion modeling	To help water sector experts and decision makers in designing and implementing infrastructure projects in an efficient manner.	LGED, SPARSO, IWM, CEGIS	2013-2023	50	Availability of open and accessible database for research use and project designing
Organizational/ behavioral change					
Increasing collaboration between national and local level authority in designing urban drainage plan.	To ensure participation of local government authority (e.g. City Corporation) in project planning and implementation.	LGED, SPARSO, IWM, CEGIS	2013-2017	20	Increased involvement of local government authority in designing and implementation of urban drainage infrastructure.
Establishing collaboration among research and other academic institutions involved in the operation and management of urban infrastructure planning	To learn and enhance understanding and knowledge on the technology	Ministry of Local Government and Cooperatives, City Corporations, LGED, SPARSO, IWM, CEGIS	2013-2017	20	Increased level of efficiency in planning, designing operation and management of urban drainage infrastructure through collaborated effort of the related institutions