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Scheduling a structure maintenance plan with the participation of local people	To ensure proper maintenance of TRM infrastructure	MoWR, BMD, LGED, IWM,	2013-2023	20	Increased involvement of local people in the maintenance of TRM technology.
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1.4.1.5. Technology action plan for Tidal barriers (Sluice gates) 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 presented in the table below;

Table 14: Grouping of measures under broader criteria

Technology	Strategic measures	Specific measure	Timeline	
			Short Term (1-5 years)	Long Term 1-10 years
Tidal barriers (Sluice gates) Technology	Investment	Making a detail sectoral plan with cost estimation and timeline for construction of new sluice gates and up-scaling the existing ones	√	
		Reviewing and increasing budgetary allocation for the construction and maintenance of the sluice gates	√	
		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 with time scale for construction of new sluice gates and up-scaling of the existing ones	√	
		Launch a project together with the TRM for technological innovation for suitability for the coastal areas of Bangladesh.		√
		Developing site specific geo-informatics database on sediment transport, erosion and accretion modeling		√
	Organizational/behavioral	Creating network of experts and generate updated knowledge on river mechanics studies and sediment transport modeling	√	

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	change	Establishing collaboration among research and other academic institutions involved in the operation and management of water infrastructures	√	
		Ensuring participation of local people in the planning and designing of sluice gates and their maintenance	√	
		Working with the communities to listen to their opinion and problems in the construction and management of the sluice gates	√	
	Policy/ Law	Scheduling a structure maintenance plan with the participation of local people		√

b) Technology Action Plan

Table 15: Technology action plan for Tidal barriers (Sluice gates) Technology

Sector: Water					
Specific technology: Tidal barriers (Sluice gates) Technology					
Measures (Grouped under broader category)	Importance of the measure	Implementing agency	Timescale	Cost for the measures/ Unit ('000 USD)	Monitoring, Reporting and 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, MoWR	2013-2017	100	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	Ministry of Finance, Ministry of Planning, MoWR	2013-2017	30	Increased water sector budgetary allocation from the ADP for construction and maintenance of

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	(ADP).				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 Planning, MoWR	2013-2017	20	Communicated technology specific proposal to the development partners
Capacity development					
Developing of a comprehensive action plan with time scale for construction of new sluice gates and up-scaling of the existing ones	To help policy makers and other stakeholders to prioritize actions and make investment decision on the priority action.	MoWR, BMD, LGED, , IWM, CEGIS	2013-2017	50	Readily available comprehensive action plan for the policy makers and investors
Launching a project together with the TRM for technological innovation for suitability for the coastal areas of Bangladesh.	To upscale the technology appropriate for coastal areas	MoWR, BMD, LGED, IWM,	2013-2023	50	Implementation of experimentation project for technology innovation and suitability study
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.	IWM, CEGIS, BUET, SPARSO	2013-2023	60	Availability of open and accessible database for research use and project designing
Organizational/ behavioral change					
Creating network of experts and generating updated knowledge on river mechanics studies and sediment transport modeling	To get updated information, data, tools and technology	MoWR, BMD, LGED, MoDMR, IWM, CEGIS, BUET,	2013-2017	20	Increased sharing of information among experts and institutions.
Establishing collaboration among	To learn and enhance	MoWR, BMD,	2013-2017	30	Increased level of

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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: