

Appendix 3. Potential set of measures and their contribution recommended by the key informants for the most affected coastal systems

Mostly affected coastal systems	Potential measures along with the score from multi-criteria analysis in (..) and Adaptation turning point (ATP)			Expected Contribution
	ATP (7-12ppt)	ATP (15-17ppt)	ATP (≥20ppt)	
Crop Agriculture	<ul style="list-style-type: none"> i. Crop diversification from subsistence crop to commercial crop/cash crop (5) ii. Adaptive agriculture (Floating bed agriculture; Macha agriculture, Integrated farming/composite agriculture) (3) iii. Alternate cropping through vibrant technology (5) iv. Arable field management (6) 	<ul style="list-style-type: none"> i. Genetically modified salt tolerant crop (2) ii. Saline resistant horticulture (6) 	<ul style="list-style-type: none"> i. Alternative Income Generation (AIG) activities and micro finance (2) ii. Land zoning (7) 	<ul style="list-style-type: none"> • Promote agriculture; • Uplift socio-economic status of the farmers; • Reduce the direct conflict of crop agriculture with shrimp agriculture;
Drinking water sources	<ul style="list-style-type: none"> i. Rain water harvesting (7) ii. Pond excavation (7) 	<ul style="list-style-type: none"> i. Pond sand filter (5) ii. Desalinization plant (2) 	<ul style="list-style-type: none"> i. Permanent storage for monsoon water (2) ii. Managed Aquifer Recharge (MAR) (6) iii. Pond Technology (2) 	<ul style="list-style-type: none"> • Reduce the scarcity of drinking water; • Contribute in health issues;
Sundarbans Mangrove	<ul style="list-style-type: none"> i. Mass awareness (8) ii. Ban catching fish during the breeding season (8) iii. Strengthen BFD (8) iv. Canals (re)-excavation (6) v. Gorai river restoration (5) vi. Develop water diplomacy (Re-negotiation for Ganges water sharing and Teesta agreement) (4) 	<ul style="list-style-type: none"> i. Captive breeding of vulnerable/threatened species (3) ii. Livelihood diversification (3) iii. Tidal River Management (14) 	<ul style="list-style-type: none"> i. Regional and Global Co-operation (3) ii. Ganges Barrage (7) iii. Water reservoirs in the upstream (at Modhumati / Gorai) (1) 	<ul style="list-style-type: none"> • Ensure lean period upstream water sharing; • Reduce extraction of the forest resources; • Reduce local people's dependency • Lessen the external disturbance (human interference) on the natural systems; • Promote in-situ conservation; • Control Snaring and rampant Poaching; • Support the fishery resources in Sundarbans; • Quantify the resource extraction scenario; • Ensure Thousands of ecosystem services; • Identification of the research gaps and more research; • Ensure eco-flow of water; • Reduce much intervention and participatory management ;