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					stakeholders
Demonstrating the new technology to increase social acceptance	To promote and socialize the application of the technology	DAE, BARC, BRRI, NGOs	2013-2017	30	Increased social acceptance of the technology
Strengthening system support and other services through quality assurance, information on new practices, financial services etc	To ensure effective and quick transfer and diffusion of the technology	Ministry of Agriculture, DAE, BARC,	2013-2017	40	Increased delivery of support services
Assigning focal point for sharing and coordination of activities of different agencies	To enhance coordination among different agencies and to facilitate uniform strategies and actions among the agencies	Ministry of Agriculture, Ministry of Water Resources, DAE, BARC, BRRI,	2013-2017	20	Related ministries departments appointed a focal person for increased sharing and coordination
Policy/ Law					
Introducing Laws and strategy to encourage private sector involvement in the agricultural extension and dissemination services	Laws and strategy to encourage private sector involvement in the agricultural extension and dissemination services	Ministry of Agriculture,	2013-2023	20	Developed private sector supportive laws and policies for agricultural extension and dissemination.

1.4.1.6. Technology action plan for the establishment of special agricultural R & D centre**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;

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Table 31: Grouping of measures under broader criteria

Technology	Strategic measures	Specific measure	Timeline	
			Short Term (1-5 years)	Long Term 1-10 years
Establishment of special agricultural R & D centre	Investment	Reviewing and increasing budgetary allocation for agricultural research and development	√	
		Providing long term and predicted funds for research for climate change resilient agricultural technology development, transfer and diffusion	√	
		Making a sector- and technology-specific proposal and generating funds from the development partners and other international adaptation funding sources	√	
	Capacity development	Reviewing technical and institutional capacities of the existing agricultural research organizations	√	
		Developing of a comprehensive action plan for technical and institutional capacity building of the public and private sector agricultural research organizations	√	
		Capacity building of the experts of the research organizations for development, diffusion and transfer of the climate change resilient agricultural technology	√	
		Promoting research collaboration between organizations, especially at the regional and international level	√	
		Ensuring high quality tools for agronomic research		√
	Organizational/ behavioral change	Raising public awareness and encourage technology transfer on pest/ disease outbreak	√	
		Demonstrating the new technology to increase social acceptance	√	
		Establishing biological database e.g. genetic bank of local indigenous economic crops that can be used for developing new varieties		√

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		Developing a database on pest and disease		√
	Policy/ Law	Introducing laws and strategy to encourage private sector investment in the agricultural research and development		√

b) Technology Action Plan

Table 32 : Technology action plan for the Establishment of special agricultural R & D centre

Sector: Agriculture					
Specific technology: Establishment of special agricultural R & D centre					
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					
Reviewing and increasing budgetary allocation for agricultural research and development	To ensure immediate and need based finance for agricultural research from the Annual Development Programme (ADP).	Ministry of Agriculture, Ministry of Finance	2013-2017	300	Increased agriculture sector budgetary allocation from ADP
Providing long-term and predicted funds for research for climate change resilient agricultural technology development, transfer and diffusion	To ensure long-term and need based finance for agricultural research.	Ministry of Agriculture, Ministry of Finance	2013-2017	60	Ensured long-term project funding for agricultural research
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 Agriculture, Ministry of Planning, Ministry of	2013-2017	30	Communicated technology specific proposal to the development partners

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		Finance			
Capacity development					
Reviewing technical and institutional capacities of the existing agricultural research organizations	To identify technical and institutional capacity gaps of the existing institutions	Ministry of Agriculture	2013-2017	20	Identified technical and institutional capacity gaps of the rice research institutions
Developing of a comprehensive action plan for technical and institutional capacity building of the public and private sector agricultural research organizations	To help policy makers and other stakeholders to prioritize actions and make investment decision	Ministry of Agriculture, Ministry of Planning	2013-2017	40	Readily available comprehensive action plan for capacity building of the rice research institutions
Capacity building of the experts of the research organizations for development, diffusion and transfer of the climate change resilient agricultural technology	To increase expertise and efficiency of local experts. It also will reduce cost for hiring international experts.	Ministry of Agriculture, DAE, BARC	2013-2017	40	Research organizations are staffed with skilled and expert human resource for transfer and diffusion and climate resilient agricultural technology
Promoting research collaboration between organizations, especially at the regional and international level	To enhance research capacity	Ministry of Agriculture, DAE, BARC, BRRI, SRDI	2013-2017	30	Increased sharing of information, knowledge and tools for the development of climate resilient high yielding rice variety
Ensuring high quality tools for agronomic research	To strengthen capacity on agronomic research	DAE, BARC	2013-2023	50	Research organizations are staffed with skilled

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					and expert human resource for agronomic research
Organizational/ behavioral change					
Raising public awareness and encourage technology transfer on pest/ disease outbreak	To ensure dissemination of environment friendly pest/ disease control technology	Ministry of Agriculture, DAE, BARC	2013-2017	30	Increased measures for agricultural disease and pest control
Demonstrating the new technology to increase social acceptance	To promote and socialize the application of the technology	Ministry of Agriculture, DAE, BARC	2013-2017	40	Increased social acceptance of the technology
Establishing biological database e.g. genetic bank of local indigenous economic crops that can be used for developing new varieties	To make use of high-quality properties of the indigenous varieties in the development of new ones.	Ministry of Agriculture, DAE, BARC	2013-2023	25	Developed new variety through hybridization with the indigenous one.
Developing a database on pest and disease	To undertake appropriate measures for pest and disease control	Ministry of Agriculture, DAE, BARC	2013-2023	20	Established appropriate measures for pest and disease control
Policy/ Law					
Introducing laws and strategy to encourage private sector investment in the agricultural research and development	To encourage private sector involvement in agricultural research	Ministry of Agriculture,	2013-2023	20	Developed private sector supportive laws and policies for agricultural research