

Technology Fact Sheet for Adaptation

Technology Fact Sheet: Training on improved farming practices ⁱ

Sector	Agriculture/ Technology development and knowledge management
Technology Name	Training on improved farming practices
Adaptation Benefits	
Background/ Notes, Short description of the technology option	Both the extension and dissemination of technology generally were intended to reveal new insights to farmers, to solve practical implementation problems, to provide training and to make means of production available. But 'extension' and 'dissemination' are now often criticized for the linear, unidirectional flow of information between research services and farmers that it implies Imperfections in the technology dissemination system are generally the result of (a combination) the following problems: ▪ Information dissemination problem: farmers do not know about the technologies. ▪ Training problem: farmers heard about or even saw the innovation but do not know how to implement it. ▪ Technology-fit or enabling environment problem: farmers cannot face the financial and/or labour requirements of the proposed options. Thus, it is important to make shift from the traditional and top-down dissemination approaches to learning approaches, which will (i) increase partnerships among appropriate stakeholder groups along with modifications or changes in rules/norms that enable working in partnership, (ii) make change in the perspective whereby the ultimate user is not the only beneficiary, but all the actors/organizations are beneficiaries – as learners - with their expectations/gains stated explicitly, and (iii) will increase and enable more and appropriate platforms for learning (say, facilitated capacity development exercises/experiments) in different contexts with location-specific partnerships to enable hands on learning, innovation and development.

Implementation assumptions, how this technology will be implemented and diffused across the subsector	Extension and training activities are mainly carried out by government services and NGOs. NGOs provide their services more intensively, but are generally localized. The government extension has a more extensive coverage, but its impact is less felt. Thus, extension and training could apply community led and people centered approached like the training-of-trainers approach, farmer to farmer training, farmers' field school etc.
Impact Statements-How this option impacts the country development priority	
Country social development priorities	• Will ensure active participation of the farmers in introducing climate smart rice crop varieties through workshops, training, demonstration and pilot testing which gives the small farm holders the option to choose the best varieties with low adaptation cost required. • Dynamic skill development through training will empower the small farm holders with the knowledge of improved farming technology • Will reduce joblessness of small farm holders and agricultural labors. • Will contribute to country's goal of expanding farm based income and rural poverty eradication.
Country economic development priorities	• Farmer's capacity building on the production technology know how will increase rice production and will contribute to country's goal of attaining food security • Will support addressing long-term impacts and variability, technologies in crop agriculture consistence with the predicted changes in climate system
Country environmental development priorities	• Promotion of appropriate adaptation technologies will optimize utilization of natural resource base • Will reduce the risk of mal-adaptation • Will support conservation of local level biological resources.
Costs	
Capital costs	• Approx cost = Tk 1000.00 lakh for training material development Total: Taka 1000 lakh; (USD 1250000)

Operational and Maintenance costs	• Approx cost of community based group formation and training implementation = Tk 2000.00 lakh per year • Input support Tk 1000 lakh • Approx cost of monitoring = Tk 250.00 lakh per year Total: Taka 3250 lakh; (USD 4062500)
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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/>**