

Fourth Quarterly Updated Report

April–June 2026

Service Delivery Commitment of the Agricultural Economics Division

Bangladesh Agricultural Research Institute, Gazipur

1. Introduction

As per the office order issued by the Director General, Bangladesh Agricultural Research Institute, regarding the updating of service delivery commitments under the Annual Performance Agreement for FY 2025–26, the Agricultural Economics Division has prepared this fourth quarterly updated report for the period of April–June 2026.

The Agricultural Economics Division conducts applied socio-economic research to support agricultural technology dissemination, policy planning, market development, farm-level decision-making, and evidence-based agricultural development. During the fourth quarter of FY 2025–26, the Division reviewed its ongoing research activities and identified the major services that are currently being provided, as well as potential future services that can be delivered to farmers, policymakers, researchers, extension agencies, agribusiness actors, and other stakeholders.

2. Objectives of the Updated Report

The specific objectives of this report are to:

1. update the service delivery commitments of the Agricultural Economics Division;
2. identify the major services currently provided through ongoing research activities;
3. describe the potential services that the Division can provide in the future;
4. strengthen the linkage between BARI research, farmers' needs, market systems, and policy support;
5. support the preparation and uploading of the fourth quarterly service delivery report on the institutional website.

3. Current Research-Based Service Areas

During FY 2025–26, the Agricultural Economics Division has been implementing a number of socio-economic research programmes covering technology adoption, profitability analysis, climate adaptation, market systems, value chains, agricultural credit, food security, and livelihood issues. Based on these ongoing research activities, the following major service areas have been identified.

4. Services Currently Provided by the Agricultural Economics Division

4.1 Farm-Level Economic and Profitability Analysis

The Division provides farm-level economic analysis of crops, cropping systems, and agricultural technologies. This service helps identify economically viable production practices and supports decision-making by farmers, researchers, and policymakers.

Major activities under this service include:

- cost and return analysis of selected spices crops in Bangladesh;
- comparative profitability analysis of ginger cultivation in sacks and plain lands in northern Bangladesh;
- profitability analysis of garlic and watermelon relay cropping in Chalan Beel areas of Natore district;
- input use and profitability analysis of different crops under major cropping patterns;
- profitability assessment of BARI-released oilseed, tuber, and aquatic vegetable varieties;
- economic analysis of high-value summer tomato cultivation in Sylhet region.

4.2 Technology Adoption and Impact Assessment

The Division conducts research on the adoption, adoption drivers, constraints, and socio-economic impacts of agricultural technologies. This service helps BARI and other stakeholders understand the extent to which technologies are being accepted by farmers and what factors influence adoption.

Major activities under this service include:

- exploring adoption drivers and impact of farm mechanization through local service providers in Haor regions;
- analysing adoption dynamics and barriers to climate-smart agriculture among coastal smallholder farmers;
- assessing adoption and impacts of BARI taro varieties in Bangladesh;
- studying farmers' adoption of tuber crops in Bangladesh;
- analysing farm-level adoption and market status of BARI-released major oilseed crops;
- assessing adoption and profitability of BARI Panikachu varieties.

4.3 Climate Adaptation, Water Scarcity, and Livelihood Research

The Division provides socio-economic evidence on climate change adaptation, salinity, water scarcity, and rural livelihoods. These services are particularly important for vulnerable agro-ecological zones such as coastal areas, Haor regions, Chalan Beel, and water-scarce regions.

Major activities under this service include:

- climate adaptation in saline coastal ecosystems through enhanced cropping systems;
- assessment of climate-smart agriculture adoption among coastal smallholder farmers;
- analysis of the impact of water scarcity on agricultural productivity and rural livelihoods;
- identification of sustainable livelihood options in climate-vulnerable farming systems.

4.4 Market System, Value Chain, and Export Potential Analysis

The Division conducts market and value chain research to identify marketing channels, stakeholder roles, value addition opportunities, market constraints, and export potential of agricultural commodities.

Major activities under this service include:

- value chain and market potential analysis of Panikachu in Bangladesh;
- stakeholder mapping and value addition analysis in the mustard supply chain;
- study on betel leaf cultivation, farming practices, marketing systems, and export potentiality;
- market status assessment of BARI-released major oilseed crops;
- market assessment of tuber crops and aquatic vegetables.

4.5 Farming System and Cropping Pattern Analysis

The Division analyses farming systems, cropping patterns, and technology suitability across different locations. This service helps identify appropriate technologies and farming options for different farmer groups and agro-ecological environments.

Major activities under this service include:

- farming system typology for adoption of new technology among coastal potato farmers;
- assessment of existing agroforestry systems in Moulvibazar district;
- analysis of input use and profitability of crops under major cropping patterns;
- assessment of enhanced cropping systems in saline coastal ecosystems.

4.6 Agricultural Credit, Food Security, and Household Welfare Analysis

The Division also provides research-based evidence on the role of agricultural credit, household food security, income, and rural welfare. This service supports policy discussions on agricultural finance and livelihood improvement.

Major activity under this service includes:

- assessing the impact of agricultural credit on household food security among spice farmers in selected areas of Bangladesh.

4.7 Policy Support and Evidence Generation

The Division contributes to evidence-based agricultural policy support by generating research findings on profitability, adoption, market performance, value chains, climate adaptation, and livelihood outcomes.

Expected outputs under this service include:

- research reports;
- policy briefs;
- cost and return estimates;

- adoption and impact assessment reports;
- value chain maps;
- market assessment reports;
- stakeholder consultation reports;
- recommendations for technology dissemination and agricultural policy planning.

5. Updated Service Delivery Commitments for April–June 2026

Based on the ongoing research programmes of FY 2025–26, the Agricultural Economics Division has updated the following service delivery commitments during the fourth quarter.

Sl. No.	Updated Service Area	Nature of Service	Target Beneficiaries
1	Farm-level profitability analysis	Cost and return estimation, gross margin analysis, net return analysis, and enterprise budgeting	Farmers, researchers, extension personnel, policymakers
2	Technology adoption research	Identification of adoption status, adoption drivers, constraints, and impact of BARI technologies	BARI research divisions, DAE, policymakers, farmers
3	Climate adaptation research	Socio-economic analysis of climate-smart agriculture, salinity adaptation, and water scarcity impacts	Coastal and climate-vulnerable farmers, policymakers, development agencies
4	Market and value chain analysis	Assessment of marketing channels, value addition, stakeholder roles, and market potential	Farmers, traders, processors, exporters, policymakers
5	Farming system analysis	Identification of suitable technologies and cropping systems for different agro-ecological areas	Farmers, researchers, extension agencies
6	Agricultural credit and food security analysis	Assessment of the role of agricultural credit in improving household food security and welfare	Farmers, financial institutions, policymakers
7	Policy advisory support	Preparation of evidence-based recommendations for agricultural planning and technology dissemination	Ministry of Agriculture, BARI, DAE, policymakers
8	Research support services	Questionnaire preparation, survey design, data analysis, FGD facilitation, and report preparation	BARI divisions, centres, regional stations, students, researchers

6. Potential Services to be Provided in Future

The Agricultural Economics Division has the capacity to expand its services in the following areas:

1. economic feasibility assessment of newly developed BARI technologies before large-scale dissemination;
2. baseline and endline socio-economic studies for agricultural research and development projects;
3. regular market intelligence and price behaviour analysis for important agricultural commodities;
4. value chain upgrading strategies for high-value crops, spices, oilseeds, tubers, vegetables, and export-oriented commodities;
5. assessment of farmers' willingness to adopt new technologies and willingness to pay for improved varieties, machinery, and agricultural services;
6. gender-sensitive agricultural livelihood analysis, particularly in relation to labour use, technology adoption, and household decision-making;
7. impact evaluation of climate-smart agriculture interventions in coastal, Haor, Barind, char, hill, and drought-prone ecosystems;
8. development of farmer-friendly cost of production guidelines for selected BARI crops and technologies;
9. training support on farm management, enterprise budgeting, and agricultural economics research methods;
10. policy advisory support on agricultural commercialization, market linkage, credit access, mechanization, value addition, and climate adaptation.

7. Expected Service Outputs

The major outputs expected from the service delivery activities of the Agricultural Economics Division include:

- research reports;
- scientific articles;
- policy briefs;
- farm-level cost and return estimates;
- technology adoption reports;
- value chain maps;
- market assessment reports;
- stakeholder mapping reports;
- training and extension materials;
- recommendations for technology dissemination and policy planning.

8. Service Recipients

The services of the Agricultural Economics Division are intended for the following stakeholders:

- farmers and farmer groups;
- BARI research divisions, crop research centres, and regional stations;
- Ministry of Agriculture and related government agencies;
- Department of Agricultural Extension;
- agricultural entrepreneurs, traders, processors, and exporters;
- universities and research institutions;
- development partners and NGOs;
- policymakers and planners;
- students, researchers, and other knowledge users.

9. Progress During the Fourth Quarter

During the fourth quarter of FY 2025–26, the Agricultural Economics Division reviewed its ongoing research programmes and identified the major research-based services that are currently being provided. The Division updated its service areas in line with the ongoing research activities, including profitability analysis, technology adoption studies, climate adaptation research, value chain analysis, market assessment, farming system analysis, and policy support.

The updated service delivery information is now ready for submission to the concerned authority and for uploading to the BARI website as part of the fourth quarterly service delivery report.

10. Conclusion

The Agricultural Economics Division plays an important role in linking agricultural research with farmers' needs, market systems, and policy priorities. Through applied socio-economic research, the Division supports evidence-based decision-making for technology dissemination, farm profitability, market development, climate adaptation, and rural livelihood improvement. The updated service delivery commitments for April–June 2026 reflect the Division's current research activities and its future potential to contribute more effectively to agricultural development in Bangladesh.

Prepared by

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