

TERMS OF REFERENCE (TOR)

FOR

Short-Term Individual Consultant- ‘Technical Consultant’ for the preparation of Implementation Completion and Results Report (BICRR) of NATP-2

Service Package: SD/PMU/IC/STC-09

| | |
|-----------------------|---|
| Assignment Title: | Preparation of the Borrower’s Implementation Completion and Results Report (BICRR) of NATP-2 |
| Assignment Duration: | Five (05) months- spread over 6 months (From the date of Contract signing) |
| Assignment locations: | Dhaka and Project areas |
| Funding source (s): | IDA and IFAD |
| Contracting entity: | Project Director, Project Management Unit, NATP-2 |

A. PROJECT BACKGROUND OUTLINE:

The Government of Bangladesh (GOB) is implementing the National Agricultural Technology Program Phase II (NATP-2) project with financial assistance from the World Bank (IDA credit), International Fund for Agricultural Development (IFAD) and the United States Agency for International Development (USAID). NATP-2 is the second 5-year phase of a 15 year long program to support GOB’s strategy to improve national agricultural productivity, market linkage and farm income with a particular focus on small, marginal and female farmers. NATP-2 supports research, extension and value chain programs/activities at field level. The Project Development Objective (PDO) of NATP-2 is to increase agricultural productivity of smallholder farms and improve smallholder farmers’ access to markets in 270 selected upazilas of 57 districts. NATP-2 drew learning from NATP-1 and other projects and aims at deepening its interventions in the NATP-1 areas (107 of the total 270 upazilas) and also expanding its scope to the new districts and upazilas.

NATP-2 is comprised of 5 inter-related components being implemented by 5 different project implementing units:

Component 1: Enhancing Agricultural Technology Generation is being implemented by the Bangladesh Agricultural Research Council (PIU-BARC), Ministry of Agriculture. Component

Component 2: Supporting Crop Development by the Department of Agricultural Extension (PIU-DAE), Ministry of Agriculture; Component

Component3: Supporting Fisheries Development by Department of Fisheries (PIU-DOF), Ministry of Fisheries and Livestock (MOFL); Component

Component 4: Supporting Livestock Development by Department of Livestock Services (PIU-DLS), Ministry of Fisheries and Livestock (MOFL) and component

Component 5: the Project Management Unit (PMU) established under the Ministry of Agriculture, the Lead Ministry. PMU is overall responsible for coordinating and facilitating the implementation of NATP-2 under the direction and supervision of the Joint Project Steering Committee (JPSC) and thus support realization of the project development objective (PDO).

The strategies adopted for achieving the project development objective include: (i) strengthening the capacity of research, extension services and farmers to generate, adopt and diffuse agricultural technologies aimed at increasing farm productivity and reducing post-harvest losses; and (ii) promoting sustainability of existing and newly created common interest groups (CIGs) of farmers and producer organizations (PO) by facilitating their stronger participation in commodity value chain, market-linkages, and improving their knowledge and skill base. Thus PDO will be achieved through the generation and release of more productive and improved technologies, enhancing availability of quality seed/breeds/fingerlings/breeding materials at the small farm level and providing relevant production, value addition and marketing support. The NATP-2 Results Chain is attached in Annex 1.

NATP-2 was designed for implementation from 01 October 2015 to 30 September 2021 but actual implementation started from March 2017 after receiving the initial advance from the World Bank. The project duration has been extended till 30 June 2023.

B. DESCRIPTIONS OF THE COMPONENTS:

Component-I: Enhancing Agricultural Technology Generation is being implemented by the Project Implementation Unit of Bangladesh Agricultural Research Council (PIU-BARC). BARC, as an apex body, is coordinating agricultural research with all National Agricultural Research System (NARS) and non-NARS institutes (Public Universities, NGOs and Other organization). The component has been supporting the need based research and development of crops, fisheries and livestock. The purpose of this component is to generate demand-led agricultural technologies (improved varieties/breeds/fingerlings and production & post-production management packages, socio-economic, etc.) to increase productivity and production and also to provide location and problem- specific technological solutions to production problems under specific agro-ecological conditions and constrained areas.

The research component has two research funding windows. First window is Competitive Research Grant (CRG) Program through which 190 short to medium term research sub-projects (Crops-62, Fisheries-30, Livestock-26, Soil science-19, agricultural engineering/ mechanization-16, socio-economic-10, Planning & evaluation-10 and nutrition-06) were implemented during 2017 to 2019 financial years with the participation of 27 NARS Institutes, Public Universities and private sector institutions. Program Based Research Grant (PBRG) is the second research funding window that supports Public Sector Agricultural Research Institutes for implementation of 51 longer duration research sub-projects in strategic areas including varietal development, bio-technology and climate vulnerability, etc. The component is also assisting the institutional capacity building of the NARS through offering of 140 PhDs and other short-term technical training.

Components II, III and IV of NATP-2 are to support Crop, Fisheries and Livestock sector Development and have been implementing by the Project Implementation Units of the Department of Agricultural Extension (PIU-DAE), Department of Fisheries (PIU-DoF) and Department of Livestock Services (PIU-DLS) respectively. The aims of the components are to contribute in increasing farm yields, diversifying production, and improving market linkages for smallholder farmers by promoting an integrated approach and through technology transfer as well as better access to market opportunities.

29

These three (extension) components have interventions in 270 upazilas of 57 districts (include 107 upazilas covered under NATP-1, plus 163 new upazilas) covering all major agro-ecological areas including the drought-prone areas in the North-West (dry Barind Tract), salt-affected tidal surge areas in the South, flash-flood prone areas in the North and North-East (Annex-2). The project is financing activities related to a) mobilization of Common Interest Groups (CIG) with farmers, b) decentralized extension services by government frontline extension agents i.e., SAAOs for crops and Community Extension Agents for Livestock (CEAL) and Local Extension Agents for Fisheries (LEAF) and through Farmer's Information and Advice Centers (FIACs) c) technology dissemination through establishing of field demonstrations, field days and exchange visits d) training to extension agents and farmers and e) enhancing institutional efficiency of the national institutions involved in agricultural extension.

The Extension components had mobilized over 1 million farmers into 40,514 CIGs established/formed in 270 Upazilas (27,150 under DAE, 5,282 under DoF; 8,082 under DLS management). CIGs are the main interlocutors for field/community level activities. In every Upazila there are about 150 CIGs and in each Union there are 15 CIGs of which 10 are crop CIGs managed by DAE, 3 livestock CIGs managed by DLS and 2 fishery CIGs managed by DoF. The number of members of each CIG varies from 20 to 30. The component-wise 6 year output targets are given in Table 1.

To provide day-to-day need-based extension services to the farmers, Sub Assistant Agriculture Officers (SAAO) of DAE, Community Extension Agents for Livestock (CEAL) of DLS and Local Extension Agents for Fisheries (LEAF) of DoF visits CIGs on regular basis. In addition, one-stop services are being provided to the farmers from Farmer's Information and Advice Centers (FIACs) established in two rooms (one for crop/SAAO of DAE and another for fisheries and livestock/CEAL and LEAF) of 1621 Union Parishad buildings. SAAOs, CEALs and LEAFs are providing necessary advisory services to the farmers in the FIAC and also in the CIGs through door to door visits.

The three extension components have provisions for two Agriculture Innovation Funds, i.e., AIF-2 and AIF-3 to promote the adoption of innovative technologies specially farming tools, farm machineries and vehicles and access to markets of smallholder farmers. These funds are provided to the registered well performing CIGs and local entrepreneurs on a competitive basis.

AIF-2 matching grants have been provided to minimum 3843 well-performing CIGs (crop -1803, fisheries -960, livestock -1080) to help increase their productive assets, potential incomes and sustainability of the groups. Each recipient CIG gets up to 70% of the total sub-project cost, ceiling to BDT 3.875 lakh. The 30% cost has to be borne by the recipient group(s). Details of AIF-2 operational procedures are described in AIF-2 Operational Manual.

AIF-3 matching grants has been targeted to minimum 698 rural entrepreneurs having trade license (crop -287, fisheries -228, livestock-183) whose sub-projects activities will benefit smallholders' farmers in the project areas, either by providing a market opportunity for farmers' produce or by providing services relevant to the smallholder farmers. In some cases, registered CIGs and Producer Organizations (POs) could be eligible for AIF-3 grants. Each recipient gets 50% of the total sub-project cost from AIF-3 grants, ceiling to BDT 5.82 lakh. Other 50% cost has to be borne by the recipient group(s) or entrepreneurs. Details of AIF-3 operational procedures are described in AIF-3 Operational Manual.

The project is supporting activities related to a) strengthening farmer-market linkage and b) enhancing institutional efficiency. Hortex Foundation for crop and two outsourcing firms for fisheries and livestock have been implementing/implemented project's value chain and marketing activities. The crop value chain activities are being piloted in 30 clusters of 30 selected upazilas. For Fisheries the project supports

the establishment of 20 Producer Organizations (POs) in 20 upazilas and two special POs, one each at Trishal, Mymensingh and another at Singra, Natore districts, and provides with logistics and training. For livestock 120 CIGs are being supported for milk and milk processing, and for goat meat marketing.

The Project intends to use a part of the credit/loan for hiring a short-term Individual National consultant for preparation of a Borrower's Implementation Completion and Results Report Project (BICRR) for the National Agricultural Technology Program- Phase-II Project (NATP-2). The report is to be prepared following World Bank BICRR guidelines

C. JUSTIFICATION OF THE STUDY

NATP- 2 is scheduled to close on 30 June 2023. One of the requirements of the GoB is to prepare Borrower's Implementation Completion Results Report (BICRR) following World Bank ICRR guidelines that documents the performance of the project in relation to its Project Development Objectives. The study results/findings will be incorporated in the ICRR to be conducted by the World Bank (development Partner). The study/assessment is expected to be commissioned from January 2023 **until June 2023**. BICRR report will cover assessment of all components' activities of the project indicating achievement of project outcomes, outputs; assess and analyze whether the project has been able to deliver scalable technology generation, productivity improvement of selected crops, livestock and fisheries, market access improvement and livelihood status of project beneficiaries (small, marginal and women farmers) as outlined in the Results Framework of DPP/RDPP/PAD. The report should contain assessments of the technical, economic, financial, social, monitoring, and institutional and procurement aspects of the project. PMU intends to employ an individual consultant to prepare a BICRR by consolidating the collected inputs of 4 implementing units and PMU.

D. OBJECTIVE OF THE ASSIGNMENT/BICRR

The objective of the assignment is to capture the project performance against its development objectives as mentioned in PAD and DPP/RDPP. The consultant will assess (i) relevance of the project development objective (PDO) with the sectoral context at the preparation and completion; (ii) relevance of PDO indicators in assessing the project outcome; (iii) capture significant changes made in the project during the implementation, including rationale of the changes; (iv) review and reconstruct the Theory of Change (ToC) of the Project attached in Annex 1; (v) discuss relevance of the PDO with the World Bank's strategies (e.g. SCD, CPF) in Bangladesh and the GoB's national strategies (e.g. Five Year Plans, National Agricultural Policies, etc.) , (vi) achievement of its overall objective against the DO indicators, and outcomes of the project in terms of its intermediate results indicators listed in the results framework; (vii) reliability of the intermediate output indicators to determine the component effectiveness in the project implementation; (viii) financial and economic rate of return against the total project cost through Economic and Financial Analysis (EFA); (ix) implementation efficiency (x) M&E design and effectiveness, (vii) M&E utilization in Project's decision making process, (xi) poverty, gender, and private sector strengthening outcomes of the project; (xii) safeguard compliance (fiduciary, social and environment), (xiii) risks management, and (xiv) key lessons learnt.

The major objectives of this assessment report are:

- To document and provide evidence of the extent to which the NATP-2 achieved its Project Development Objective (PDO) as well as outcomes by end of the project, as set in the Results Framework, including benchmarking the achievements against available secondary data from various sources (e.g. Bangladesh Bureau of Statistics);



- To document operational lessons of NATP-2 that can be institutionalised and replicated to other on-going development projects or upcoming new project (s) that will contribute to Research, Extension and market access activities and in the improvement of implementation strategy and in achieving intended goals and objectives of development project (s).
- The evaluation/assessment report will undertake a detailed analysis of the organizational structure and operational processes adopted by the project during its implementation to assess the effectiveness of project and document the challenges and opportunities identified during implementation.
- The report should include an assessment of the extent to which the project complied with fiduciary (procurement and financial management), environmental and social safeguards including gender mainstreaming, citizen engagement and beneficiary satisfaction and the effectiveness of the M&E system. An assessment of cost-effectiveness of the project in terms of achieving the PDO should also be analyzed and documented in terms of value for money.
- An assessment of support provided by the Bank and task team in facilitating and achieving project objectives should be documented and rated with clarifications/reasons in relevance to rating scales and criteria sets in the ICRR guidelines of the World Bank. Similarly, the performance of the project team (NATP-2) will be assessed in terms of achieving project objectives and rated with justification.
- Lessons learned emerging from the assessment would be documented as part of the analysis to recommend corrective measures for embarking on next phase of the projects required for improving quality.

E. ASSESSMENT METHODOLOGY

The consultant will review the data or information available in PMU and PIUs as well as undertake field visits to collect information from beneficiaries on random basis. Mixed method of data collection should be followed for quantitative and qualitative data collection that includes secondary data from PMU and PIUs and primary data from the field where necessary. Primary data could be collected by developing field survey questionnaire, focus group discussion, Key Informant Interview etc. Mobile phone interview may also be allowed in some cases. Information from secondary source could be collected from the PMU and PIUs, especially from M&E and other respective officers and consultants of PMU and PIUs. PMIS is another source of both qualitative and quantitative information. Furthermore, report of the impact assessment conducted in 2022-23 by the Bangladesh Center for Advanced Studies (BCAS) should be used in the preparation of the completion report. The key findings and results from this assessment should be benchmarked with the available secondary data from various sources including Bangladesh Bureau of Statistics. The Consultant will develop a detailed plan in consultation with NATP-2 and the World Bank ICRR team.

The following documents will be helpful for the consultants to understand the scope of services and the objectives and for the preparation of BICRR.

He / She will review relevant documents of the project, including but not limited to the following:

Helpful documents for the consultants:

- Development Project Proposal (DPP/RDPP) Project Appraisal document (PAD) and Project Implementation Manual.
- World Bank ICRR preparation guidelines

- IDA credit and IFAD loan agreements
- Project Implementation Reports and Annual Reports
- Report of the Studies conducted by PIUs
- Guidelines on AIF-1, AIF-2 and AIF-3
- NATP-2 Impact assessment and thematic studies Reports
- Monitoring and Evaluation Reports
- Balanced Score Card for CIG monitoring
- Implementation Support Mission Reports
- Regional workshop proceedings of PMU and PIUs
- Various publications of PMU and PIUs
- Reports of PCU, PIUs and Hortex Foundation as strategic Partner of DAE.

F. SCOPE OF SERVICES

The consultant will be responsible and reportable to the Project Director (PD), NATP-2. He/She will work in close collaboration with the Project Results Assessment Expert and under the supervision and guidance from the Lead Consultant (Economist) for preparation and finalization of the BICRR.

The scope of work of the consultant will include but not limited to the followings:

1. Assess the capacity of CIGs in organizing their monthly meetings, managing group savings and investments and sharing of technology messages with CIG and non-CIG farmers; Also, list key advantages of being CIG members compared to non-CIG farmers and key challenges faced by the CIG members in terms best utilization of the NATP II support.
2. Provide a synopsis of the key innovative activities promoted by the project along with an assessment of the outcomes (specific measurable quantitative outcomes, when feasible) of project promoted innovations i.e., FIAC, CCMC, PO, Fish Post-Harvest Service Centre, AIF-1, AIF-2, AIF-3, group approach in extension service delivery, establishment of UECC, DECC and NECC for program coordination and research extension linkage etc. and key lessons learnt;
3. Assess the performance of the project promoted market linkage activities including the online platforms and lessons learnt; the assessment should include the extent of this activity and how many people are benefitted from these platforms and how much trade transactions was made using these platforms.
4. Assess the project's contribution to NARS's institutional capacity building through PhD program, CRG and PBRGs sub-projects and through short-term technical and other trainings; The assessment should clearly demonstrate what progress has been made at the NARS institutes since the beginning of the project.
5. Assess the contribution of officers and staff training, and other capacity building and management support to DAE, DoF and DLS (3 DD Office construction, Laboratory support, PMIS,

20

Knowledge learning platform, accounting software etc.) and the lessons learnt; The assessment should include whether the project's capacity building and management support has been mainstreamed in regular activities of the implementing agencies.

6. Assess the use of audio-visual materials developed by PMU and PIUs with project support;
7. Assess whether the social and environmental measures have been integrated into the project designs and implemented;
8. Evaluate compliance and sustainability of environmental and social safeguards including gender mainstreaming and social inclusion with regard to the project's overall activities and benefits; in particular to adoption of climate smart technology by the farmers, climate co-benefit of NATP-2 and addressing small, marginal, women and ethnic farmers in program implementation.
9. All assessments (1-8) should provide findings for the entire project, but also differentiated by component (research, crops, fisheries, livestock) and ensure there are lessons learned for each PIU and a discussion on the sustainability of the outcomes of project activities and innovations after the closing of the project

G. DURATION OF THE ASSIGNMENT

The duration of the assignment will be five (05) person months. The expected commencement of the assignment will be from January 2023 and will be spread over up to 30 June 2023.

H. REPORTS AND TIME SCHEDULE

After signing the contract, the consultant will report to the Project Director of NATP-2 and will work under the supervision and guidance from the Economist and lead author of the BICRR. The consultant provides the following deliverables:

By end of Week-1: Inception report, containing understanding of the Terms of Reference (TOR) including scope of services, methodology, data collection and management plan, work plan and approach for carrying out the work, and work plan including, summary of activities, time scales, reporting obligation and other deliverables within 12 working days after joining his/her duty.

By the end of week -3: Collects all reports from PMU and PIUs and hold discussion with Project Director after reviewing the documents, chalk out analysis and compilation including data collection from the fields.

Monthly Progress report: within 1st week of every next month

Draft final report: (within 12th June 2023): 18 days before the completion of the assignment

The draft report is to be presented and validated in a meeting of PMU, PIUs and officers and experts/consultants from implementing agencies.

JON

Final report: should be prepared and submitted incorporating the comments and suggestions received from PMU, PIUs and Implementing Organizations within timeframe specified and be agreed with the Project Director.

I. DATA, LOCAL SERVICES, PERSONNEL, AND FACILITIES TO BE PROVIDED BY THE CLIENT

PMU will provide the following inputs and facilities:

1. Office space and other logistic support as per project provision
2. All available documents, papers and information relevant to the assignment will be provided /made accessible to the consultant.

J. ACADEMIC QUALIFICATIONS AND EXPERIENCE REQUIRED

1. Minimum Master's degree in any branch of Agricultural Science, Agriculture Economics, Development Economics, or related fields from a recognized university
2. Ph. D degree in any related fields will be an added advantage.
3. Minimum 10 years work experience in conducting research/study, monitoring and impact evaluation, project implementation works as officers or consultant in government/autonomous/semi-autonomous organizations,/ Development Projects (GOB and Donor Funded),/ Universities, NGOs/ private organizations
4. Minimum 3 similar assignments successfully completed in project & program evaluation and in preparing analytical reports including BICRR, ICRR, PCR for development projects, project reports, and economic analysis for project design and projects results of GOB funded /donor funded projects.
5. Familiar with the impact of extension activities like training, demonstrations, field days, technology performance, and advisory services to farmers, group approach in technology transfer & diffusion, matching grants, marketing of agricultural produce, economic analysis and participatory monitoring and evaluation techniques
6. Experience in summarizing, synthesizing and analyzing skills in capturing project output, outcome and learning
7. Fluency in English and good writing and communication skills
8. Proficiency in data analysis using statistical and socio-economic methods
9. Computer literacy and skills (MS Word, Excel, and Power Point etc.) is essential.
10. Work experience in multispectral project is desirable.

K. EXPECTED OUTPUT

A consolidated report of all the assessments (#1-9) outlined above prepared and submitted to the Economist and Lead Author of the BICRR along with the Project Director



