কৃষিই সমৃদ্ধি
বাংলাদেশ কৃষি গবেষণা কাউন্সিল
নতুন বিমানবন্দর সড়ক, ফার্মগেট, ঢাকা-১২১৫

স্মারক নং- ১২.২০.০০০০.০০৪.০১৪.১৬.১১-

তারিখ: ২৯/০৮/২০২৪ খ্রি.

এজেন্সি প্রোগ্রাম ডাইরেক্টর
PARTNER প্রোগ্রাম-এপিসিইউ
বিএআরসি, ফার্মগেট, ঢাকা-১২১৫।

বিষয়ঃ নির্ধারিত ফরমেট অনুযায়ী Annual Progress Report প্রদান প্রসঙ্গে।

সূত্রঃ PARTNER/APCU-BARC-111/Progress Report/2024/946; তারিখ: ২২/০৮/২০২৪ খ্রি.

উপর্যুক্ত বিষয় ও সূত্রের আলোকে জানানো যাচ্ছে যে, "Program on Agricultural and Rural Transformation for Nutrition Entrepreneurship and Resilience in Bangladesh (PARTNER) শীর্ষক প্রোগ্রামের ছক অনুযায়ী ২০২৩-২৪ অর্থবছরের বার্ষিক প্রতিবেদন পূরণপূর্বক পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের নিমিত্ত এতদসঙ্গে প্রেরণ করা হলো।

Salam 29/08/2024
(ড. মোঃ আবদুছ ছালাম)
সদস্য পরিচালক (শস্য)
ও
আহবায়ক, GAP ইউনিট,
বিএআরসি

সংযুক্তিঃ বর্ণনা মোতাবেক ০৪ পৃষ্ঠা।

অনুলিপি (জ্যেষ্ঠতার ক্রমানুসারে নয়):

১। পরিচালক (কম্পিউটার ও জিআইএস ইউনিট) বিএআরসি, ফার্মগেট, ঢাকা। (GAP ইউনিটের ওয়েবসাইটে বাস্তবায়িত অংশে আপলোডের অনুরোধ করা হলো)।
২। ড. মোঃ আব্দুস সালাম, ডেপুটি প্রোগ্রাম ডাইরেক্টর (এইচআরসি), পার্টনার, এপিসিইউ-বিএআরসি, ফার্মগেট, ঢাকা।
৩। ড. মোঃ আশরাফুল আলম, ডেপুটি প্রোগ্রাম ডাইরেক্টর (এইচআরসি), পার্টনার, এপিসিইউ-বিএআরসি, ফার্মগেট, ঢাকা।
৪। ড. মিয়া সাঈদ হাসান, GAP প্রোটোকল ডেভেলপমেন্ট এন্ড ট্রেনিং কনসালটেন্ট, PARTNER প্রকল্প, এপিসিইউ-বিএআরসি, ঢাকা।
৫। নির্বাহী চেয়ারম্যান মহোদয়ের একান্ত সচিব, বিএআরসি, ফার্মগেট, ঢাকা।
৬। অফিস কপি।

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2. Objectives

- **Overall Project Goal:**
    - Promoting sustainable and nutritious food production;
    - Increasing entrepreneurship and access to service along the value chain; and
    - Modernizing institutions and policies for agriculture transformation) that support GoB's vision and objectives of achieving a safe and profitable agriculture, and sustainable food and nutrition security.

- **Current Objectives**
    - Promote sustainable safe and nutritious food production

3. Introduction

Food safety has gained increasing importance over the years due to its significance both from health and economic perspectives. Production of safe food is essential for protecting consumers from the hazards of food borne illnesses and is important both in the domestic food business as well as for increasing competitiveness in export markets. Hazards may occur at different stages of the food chain starting right from the primary production such as residues of agro-chemicals above permitted levels, microbial contaminants, heavy metals and others. It therefore becomes important to address food safety right from food production at farm level. Implementing Good Agriculture Practices during on-farm production and post-production processes resulting in safe agricultural products is of immense importance for assuring a safe food supply. Good Agricultural Practices (GAP), as defined by FAO, are a "Collection of principles to apply for on-farm production and post-production processes, resulting in safe and healthy food and non-food agricultural products, while taking into account economic, social and environmental sustainability".

Many importing countries as well as domestic buyers especially organized retailers are requiring producers to implement GAP as a pre-requisite for procurement to ensure quality and safety of their produce. In addition, implementing GAP also helps promote sustainable agriculture and contributes to meeting national and international environment and social development objectives. It has been documented that implementation of GAP encourages promotion of optimum use of resources such as pesticides, fertilizers, and water, and eco-friendly agriculture. Its social dimension would be to protect the agricultural workers' health from improper use of chemicals and pesticides. Food safety is a mandatory issue and the highest priority for GAP

4. Methodology (research design, materials and equipment, procedure, data collection and analysis)

Bangladesh GAP standard is spread over 5 modules. Individual crop-based GAP protocols have been formulated with a total of 18/19 components and by integrating 246 control points in the formulation of GAP protocols. For this purpose, crop-based scientists have been nominated from Bangladesh Agricultural Research Institute (BARI). In addition, pathologists and entomologists were involved for disease and pest management. The GAP protocol was drafted by the GAP Unit, BARC, through organizing a series of Technical Committee meetings comprising scientists and institutional focal points. After that stakeholder GAP workshops are organized with all concerned stakeholders. The draft GAP protocol was finalized based on the

Progress report format (2023-24)

1. Project Information

- **Project Title: Development, rollout, and adoption of Good Agricultural Practices (GAP) standards in fruit and vegetable production**
- **Name of researcher(s) involved:**

1. Dr. Md, Abdus Salam, Member Director, Crops Division & Convenor GAP Unit, BARC
2. Dr. AKM Quamaruzzaman, Chief Scientific Officer, Horticulture Research Centre, BARI, Gazipur
3. Dr. Shah Md. Monir Hossain, Chief Scientific Officer (Crops), & Member (GAP unit) BARC
4. Dr. Jillur Rahman. Principal Scientific Officer, Pomology Division, Horticulture Research Centre, BARI, Gazipur
5. Dr. M. A. Goffar, Principal Scientific Officer, Horticulture Research Centre, BARI, Gazipur
6. Dr. Md. Sorof Uddin, Senior Scientific Officer, Pomology Division, Horticulture Research Centre, BARI, Gazipur
7. Dr. Ashraful Alam, Senior Scientific Officer, Pomology Division, Horticulture Research Centre, BARI, Gazipur
8. Dr. Rabiul Islam, Senior Scientific Officer, Horticulture Research Centre, BARI, Gazipur
9. Dr. Bahauddin Ahmed, Senior Scientific Officer, Horticulture Research Centre, BARI, Gazipur
10. Mr. Rezaul Islam, Senior Scientific Officer, Pomology Division, Horticulture Research Centre, BARI, Gazipur
11. Dr. AKM Ziaur Rahman, Principal Scientific Officer, Tuber crop Research Centre, BARI, Gazipur
12. Dr. Md. Iqubal Farul, Principal Scientific Officer, Pathology Division, BARI, Gazipur
13. Dr. Zakiah Rahman Moni, Principal Scientific Officer, Nutrition Unit & Member Secretary, GAP Unit, BARC
14. Dr. Md. Jahirul Islam, Principal Scientific Officer, (Crops), & working scientist, BARC
15. Dr. Mian Sayeed Hassan, GAP Protocol Development & Training Consultant, APCU-BARC, PARTNER

- **Division:** GAP Unit, Crops Division, BARC
- **Project Start Date:** 1 July 2023
- **Expected Completion Date:** 30 June 2025
- **Report Period:** 1 July 2023- 30 June 2022

29.8.24

- ✓ Six batches of ToT for DAE officers and scientists (5 days)
- ✓ Six batches of ISO Training (ISO 22000, 22003, 9001, 4500, 1067:2013, 17065:2013 (3 Days)
- ✓ Two batches of staff training for SAAO & SA/SSA (3 Days)
- ✓ Fifteen batches of farmers training
- ✓ Two stakeholder workshops on GAP protocol development
- ✓ Development and printing of GAP protocol checklist
- ✓ Printing of new 7 new GAP protocol

- **Anticipated Challenges:**

  - ✓ Hot weather sometimes created crop establishment in the field validation trials.
  - ✓ Farmers are not well cooperated due to new aspects of GAP
  - ✓ Farmers are not interested in following the prescribed pesticides and spray schedule
  - ✓ Over depended on local traders
  - ✓ Field technical staff (SAAO) is not well educated in GAP
  - ✓ GAP product sell price is same as normal produces

7. Budget Status *(Optional, if relevant)*

- **Expenditure of FY 2023-24:** [Summarize the financial status of the project, including any major expenses.]
- **Projected Expenditure of FY 2024-25:** [Provide an estimate of upcoming costs.]

8. Conclusion

GAP is new in Bangladesh and most of the farmers and consumers are not well aware of it. GAP value chain is not yet developed. Actually, GAP protocols are just developed and not yet distributed among the stakeholders. GAP training for different levels is being continuing. It is expected that by 2024-25 GAP protocols of 15 selected crops will be developed and considerable number of GAP stakeholders will be trained on GAP. Finally, GAP will be established in the field level for selected 15 crops

9. Appendices *(Optional)*

29.8.24

recommendations of the review committee in the light of the recommendations of the stakeholder workshop.

5. Progress

- **Work Completed:**
  - ✓ Printing of Bangladesh GAP standard
  - ✓ Developed determination of acceptable parameter values for soil and water testing in implementation of GAP
  - ✓ Eight crop-based GAP protocols have been developed out of 15 selected protocols
  - ✓ Eight field validation trials of GAP have been conducted
  - ✓ Five batches of ToT for officers, 3 batches of SAAO and 8 batches of farmers training have been conducted
  - ✓ Two Stakeholder consultation workshops were organized on 11 and 12 March, 2024 on GAP Protocol Development at BARC
  - ✓ A visit paid on GAP followed mango production at Nachole, Chapainawabgonj by Honorable Ambassadors/Heads of Missions of 20 countries/missions on June 27, 2024
  - ✓ Printing of 8 GAP protocols
  - ✓ Little amount of GAP followed produced handed over to different super shop for consumer awareness

- **Key Findings:**
  - ✓ Printing of Bangladesh GAP standard
  - ✓ Developed determination of acceptable parameter values for soil and water testing in implementation of GAP
  - ✓ Eight GAP protocols of 8 selected crops have been developed out of 15 selected protocols
  - ✓ A visit paid on GAP followed mango production at Nachole, Chapainawabgonj by Honorable Ambassadors/Heads of Missions of 20 countries/missions on June 27, 2024

- **Deliverables:**
  - ✓ Bangladesh GAP standard
  - ✓ Determination of acceptable parameter values for soil and water testing in implementation of GAP
  - ✓ Bangladesh GAP Protocol: Mango
  - ✓ Bangladesh GAP Protocol: Jackfruit
  - ✓ Bangladesh GAP Protocol: Guava
  - ✓ Bangladesh GAP Protocol: Brinjal
  - ✓ Bangladesh GAP Protocol: Yardlong bean
  - ✓ Bangladesh GAP Protocol: Bottle gourd
  - ✓ Bangladesh GAP Protocol: Pointed gourd
  - ✓ Bangladesh GAP Protocol: Green papaya

6. Upcoming Activities

- ✓ Research on field trials of 8 crops
- ✓ Field validation trials of 7 selected new crops
- ✓ GAP protocol development of 7 new selected crops