



ইউসিবি কমাার্শিয়াল
ব্যংক পিএলসি

Project Inception Report

UCB-CSR-Agro Project, 2023

Action Research on Climate Smart Agriculture in Charland

United Commercial Bank PLC (UCB) &
CDRC, Rural Development Academy (RDA), Bogura)

CONNECTING CHAR-FARMERS
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CDRC



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ইউনাইটেড কমার্শিয়াল
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Introduction

United Commercial Bank PLC (UCB), one of the largest first generation private banks in Bangladesh is implementing the “**Bhoroshar Notun Janala**” Project to support the agriculture sector under CSR. Following the directives of Bangladesh Bank, UCB has taken the initiative to implement the agriculture support program as part of its social responsibility. This program aims to ensure food security and better nutrition quality and promote climate smart sustainable technology. One of the most important part of this initiative is to develop some climate smart agricultural technology/model through action research to support climate change affected farmers. On the other hand Char Development Research Centre (CDRC) is a rural development centre dedicated to improve the life and livelihoods of the poor and extremely poor char dwellers. CDRC’s strategic strategy is to accelerate progresses in improving the income and livelihoods of the char people by enhancing their self-potential. Rural Development Academy (RDA) established this centre in 2012. Mandate of CDRC broadly covers hosting and implementing char related action research and development programs and sustain the positive impacts of previous outcomes. Both CDRC and UCB are intended to improve the livelihood of food in secured poor people particularly to poverty stricken vulnerable people living under climate change threatened char areas by developing sustainable climate smart agriculture technology/model through action research.

Therefore, both CDRC and UCB agreed to jointly conduct action research to develop some replicable market oriented agricultural models those will create opportunity to enable the wider char community to enhance their income and improve HH food and nutrition security now and in future and launched the action research on climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable char dwellers in Bangladesh under UCB sponsored “**Voroshar Notun Janala**” initiative in mid of the 2023.

Inception Workshop

As a point of formally starting the action research activity a day long workshop of the action research project was held on 9th August 2023 in the Rural Development Academy (RDA), Bogura. The workshop was organized in two different settings, where the first part was a conference dealt with progress and academic discussion and the second part was field visit of a project site located in the char land of river the Jamuna.



Opening session of the Inception workshop. RDA | 9 August, 2023.



Inception workshop. RDA | 9 August, 2023.

Part-I: Conference

The conference of the action research project was held in the IWM conference room of RDA. Mr. Md. Khurshid Iqbal Rezvi, Director General (Additional Secretary), Rural Development Academy (RDA), Bogura attended the conference as the Chief Guest and delivered valuable address and guild line. Among others Mr. ATM Tahmiduzzaman FCS, Deputy Managing Director and company Secretary, UCB; Mr. Shah Alam Bhuyan, Deputy Managing Director, UCB; Dr. Mohammad Joynul Abedin, President BSAFE Foundation and Mr. Rezaul Karim Siddique, Project Coordinator, Voroshar Notun Janala Project, UCB spoke on the oaction as Special Guests. All the speakers appreciated the intervention lines of CDRC/RDA targeting HH food security enhancement of the disadvantaged char people using the climate smart agricultural innovations.

Team Leader of the action research project and Joint Director, RDA Dr. Md. Abdul Majid presented the background mandate and current activities of CDRC while, Technical Advisor of Climate Smart Agricultural Action Research Dr. AKM Zakaria presented vulnerabilities, climate change impacts in chars, milestones of the action research project and list of some future action research opportunities for char people as way forward.

Tracking Diagram

Considering the objectives and principles of the UCB-CSR-Agro Project, CDRC developed a project tracking diagram under the guidance of Technical Advisor and presented in the workshop highlighting SDG alignments (SDG 1,2,3,4,8,12,13,16) of the action research. Dr. AKM Zakaria also presented progress of the planned activities against each of the milestones set in the project proposal.

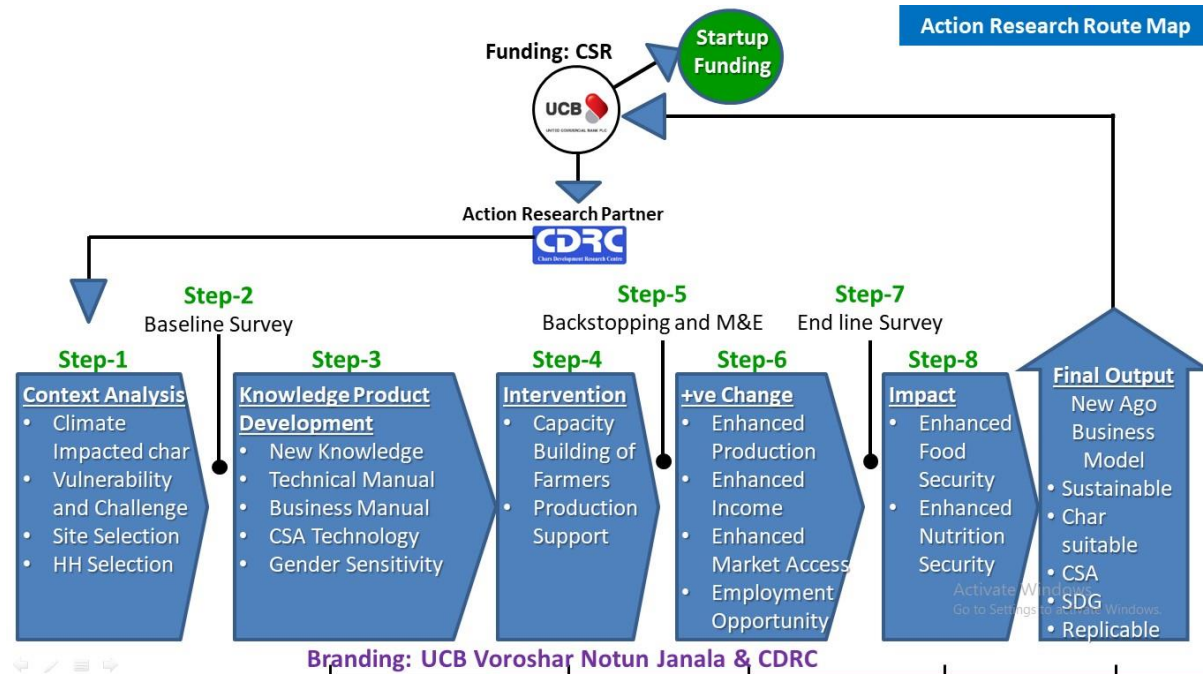


Figure: Tracking diagram of action research

Milestone-01: Signing of MoU between UCB-CDRC/RDA

A memorandum of understanding was signed with Rural Development Academy (RDA) and UCB. Managing Director and CEO of UCB Mr. Arif Quadri and Joint Director of RDA & Project Team Leader Mr. Abdul Majid *PhD* signed the MoU on behalf of their respective institutions.

From UCB, Additional Managing Director Mr. Syed Faridul Islam; Additional Managing Director Mr. Nabil Mustafizur Rahman; Additional Managing Director Mr. Abul Alam Ferdous; DMD and Company Secretary of UCB Mr. ATM Tahmiduzzaman FCS, Deputy Managing Director Mr. N Mustafa Tarek; Deputy Managing Director Mr. Md Abdullah Al Mamoon; Deputy Managing Director Mr. Alamgir Kabir prominent media personality Rezaul Karim Siddiqui, coordinator of the project, and former Agriculture Secretary & Vice-President, BSAFE Foundation. Mr. Anwar Farooq along with other senior officials of BSAFE Foundation & RDA were also present in the event. Under this project, research initiatives have been undertaken on the development of climate-smart agricultural marketing systems to improve food and nutritional security of vulnerable pastoralist households in Bangladesh. The research work will be conducted by the Char Development Research Center (CDRC), a subsidiary of the Rural Development Academy (RDA), Bogura. It is to be noted that this is the first time in Bangladesh any commercial bank is implementing such a project directly to help agriculture and farmers.



MoU Signing between UCB and CDRC, RDA, 24 May 2023

Milestone-02: Action Research Hub Establishment

To facilitate UCB-CSR-Agro-Climat Smart Agricultural Action Research CDRC established an action research hub in the CDRC premises and assembled action research team involving competent faculty members and field supervisors of RDA.



Action Research Team of CDRC-RDA.

Milestone-03: Kick-Off Workshop

To orient the action research team about the overall objectives and goal a day long Kick-Off Workshop was organized on 24 June 2023 at CDRC, RDA where Director General of RDA Mr. Md. Khurshid Iqbal Rezvi joined as the Chief Guest and inaugurated the workshop. Mr. Rezaul Karim Siddique, Project Coordinator Vorosher Notun Janala joined the workshop through zoom link. Team leader of the action research Dr. Md. Abdul Majid made brief presentation about the project. Technical Advisor, CSA Dr. AKM Zakaria presented the insights of the project and facilitated the research team for developing five subsector components and a pragmatic action plan. Action research team member and CDRC field supervisors attended the day long activity. The Kick-Off workshop finally delivered the following program title as show below:

Sub-Sector-01 : Climate Smart Community Nursery Establishment Quality Seed, Seedling and New Crop Variety Production and Marketing

Sub-Sector-02 : Climate Smart Poultry Pegin and Small Animal Production & Marketing

Sub-Sector-03 : Climate Smart Ditch Fish and Dike Vegetable Production and Marketing

Sub-Sector-04 : Climate Smart Organic Fertilizer Production and Marketing

Sub-Sector-05 : Climate Smart Boat & Horse Cradle Mounted Mobile Solar Irrigation Unit Establishment and Water Marketing

Technical Advisor Information that each of the Action Research Team prepared Research program and training program. (Appendix-iii).



Kick-Off Workshop. RDA, 24 June 2023

Milestone-04: Site and Researcher Farmer Selection

Through extensive char visit the action research teams of each sub-sector were able to select five research sites. Selection of the researcher farmers (participants) were also completed organizing participatory field level discussion. Small holder category and disadvantaged household were given priority during participant selection list of sites and group of the selected farmers groups are present below-

Table: Site Selection Through Extensive Char Visit by Research Team

Sub-Sector	Char	Upazila	District
01	Nayapara	Sariakandi	Bogura
02	Fulchori	Fulchori	Gaibandha
03	Sitajhora	Kurigram Sadar	Kurigram
04	Dhushmara	Kaunia	Rangpur
05	Deluabari	Fulchori	Gaibandha

Table: Char Farmer Selection Through Extensive Char Visit by Research Team

Sub-Sector	Male	Female
01.	35	35
02.	34	26
03.	25	25
04.	25	25
05.	25	25
Grand Total	144	136
Male: Female Ratio: 51:49		



Participatory Discussion for Researcher Farmer(Participants) Selection



Action Research Site Selection through Extensive Char Visit in the river Jamuna.

Milestone-05: Baseline Survey

It was informed in the conference that HH baseline survey has been started in all the five sites. A pretested questionnaire being dispensed focusing climate induced vulnerabilities and food and nutrition insecurity issues under the lense of MPI (Multiple Poverty Indexing). Baseline questionnaire can be seen in (Appendix: iv)

Milestone-06: Technical Manual and Skill Training

Technical Advisor in his deliberation informed the house that every sub-sector research team are currently preparing technical manual using simple elastration and also organizing two days intervention spice skill development training in each of the sites.



Skill Development training for Researcher Farmers in Nayapara Char, Sariakandi, Bogura | 9-10 August, 2023



Skill Development training for Researcher Farmers in Nayapara Char, Sariakandi, Bogura | 9-10 August, 2023

Way Forward

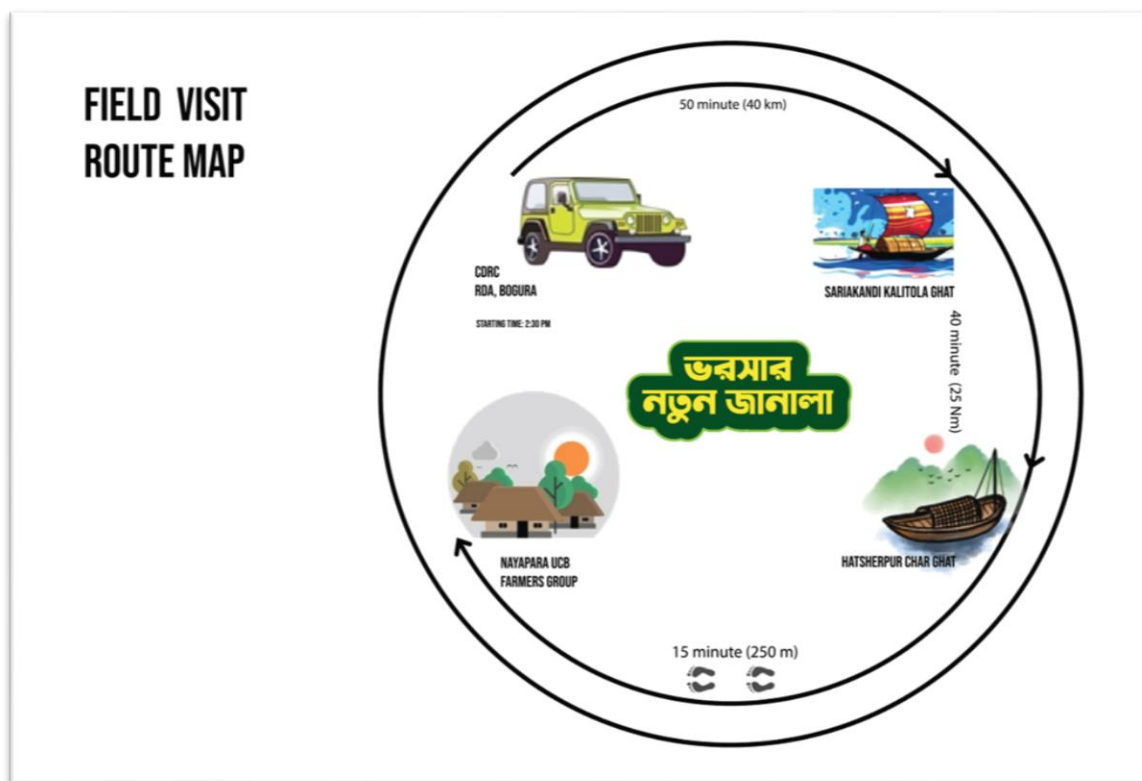
The conference part of the inception workshop was ended up highlighting some new areas of joint action research opportunities in chars as suggested by Dr. AKM Zakaria.

Strength of RDA

- Action Research is Mandated Function of RDA
- There are 3 Academy and 7 centers under RDA command
- Researchers highly experienced working in challenging Environment
- RDA already developed Nationally and Internationally acclaimed RD Models.
- Action Research Opportunities
- Climate Smart Zero Emission Cold Storage
- Climate Smart Portable Grain and Seed Storage (CDRC Model)
- Farmer's Animal Feed Industry with char ingredients
- Introduction of Community Seed Bank-Cocoon bag
- Livestock Breed Improvement through AI service
- Farmers Mini Poultry Hatchery (500 capacity, Solar powered)
- Portable Solar Irrigation Project
- Portable Biogas Unit.
- Establishment of Floating Agriculture Market
- Expansion of RDA Model Charer Hat.
- Remote Application in Challenging Environment-Livestock and Crop Clinic (ICT)
- Traditional Char Food and Spices Production Branding and Marketing
- Introduction of New Crops: Dragon, Strawberry, Melon
- Export Oriented Potato Production
- Standardization of GI Certified Bogura Doi.
- Revitalize CLP groups (0.13 million HH) in Chars and M4C groups (0.025 million HH) for financial inclusion under UCB
- Massive Fodder cultivation and Tree plantation in Char with Appropriate Variety.
- Establishment of Char Corner in CDRC premises.

Part-II: Field Visit

Field visit program was organized in the afternoon of 9th August to Nayapara char under Hatsherpur Union of Sariakandi Upazila in Bogura. Headed by Mr. Md. Khurshid Iqbal Rezvi, Director General (Additional Secretary), RDA, Mr. ATM Tahmiduzzaman FCS, Deputy Managing Director and company Secretary, UCB; Mr. Shah Alam Bhuyan, Deputy Managing Director, UCB, Dr. Mohammad Joynul Abedin, President BSAFE Foundation and Mr. Rezaul Karim Siddique, Project Coordinator, Voroshar Notun Janala, Action Research team members, Research Coordinator, Team Leader, Technical Advisor and a large number of representatives from print and electronic media attended the field visit program in Nayapara char.



Mr. Md. Khurshid Iqbal Rezvi, Director General (Additional Secretary), RDA, Bogura and UCB Team members were jointly inaugurated a farmer resting shed, a boat mounted mobile solar irrigation unit, climate smart community nursery and farmer participatory skill development training under the action research program. Mr. Md. Delwar Hossain, Joint Director, RDA and Course Director and Ms. Rebeka Sultana, Deputy Director and Course Coordinator Jointly conducted the inaugural session of the training. Later, members of the delegates planted good number of fruit tree saplings and also distributed fruit tree saplings among the participants. Taking as a benevolent initiative the distinguished dignitaries from RDA and UCB distributed cash-gift among the specially needed farmer's children of the locality as mark of their encouragement.

The day long workshop was declared close during the return boat journey with a vote of thanks from Action Research Team leader Dr. Md. Abdul Majid. (Appendix-I)



1. UCB-RDA Team on the bank of river the Jamuna giving new dimension to Voroshar Notun Janala: Nayapara Char, Sariakandi, Bogura | 09 August, 2023



Voroshar Notun Janala



2. Inauguration of Boat mounted mobile solar irrigation unit, Nayapara Char, Sariakandi, Bogura | 09 August, 2023



3. A Farers Resting place was constructed in Nayapara Char, Sariakandi, Bogura.



4. Fruit Tree Sapling was planted by Mr. Md. Khurshid Iqbal Rezvi, Director General (Additional Secretary), RDA, Bogura. Nayapara Char, Sariakandi, Bogura. 09 August, 2023



5. Senior Team Members from UCB planting Fruit Tree saplings in Nayapara Char Sariakandi, Bogura | 09 August, 2023



6. Inauguration of skill development training in Nayapara Char, Sariakandi, Bogura | 09 August, 2023



7. Tree sapling distribution among the participating farmers. Nayapara Char, Sariakandi, Bogura | 09 August, 2023



Tree Plantation and Establishment of Dragon Fruit Garden in Nayapara Char, Sariakandi, Bogura



8. Inauguration of Climate Smart Community Nursery in Nayapara Char, Sariakandi, Bogura | 09 August, 2023



9. Climate Smart Community Nursery in Nayapara Char, Sariakandi, Bogura



10. Media coverage of the program, Nayapara Char, Sariakandi, Bogura | 09 August, 2023



11. Media coverage of the program, Nayapara Char, Sariakandi, Bogura | 09 August, 2023



12. Distribution of Cash Gift among the Specially Needed Children of Participating Farmers Nayapara Char, Sariakandi, Bogura | 09 August, 2023

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RMWG WAGE BOARD 2nd meeting ends without decision

STAR BUSINESS REPORT

The second meeting of the board set up to revise the minimum wage for more than four million garment workers in Bangladesh ended yesterday without any specific decision.

Held at the office of the Minimum Wage Board in Dhaka, the meeting discussed various global and domestic issues, the current situation in the apparel sector, the market prices of basic commodities, and the rates of garment items in the international markets.

No proposal was put forward either by the owners or workers' representative in the meeting since the board has decided to visit three factories, small, medium and large, to hear about workers' expectation about the salary.

"I hope to submit the wage proposal in the next few days," said the board.

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A solar-powered pump set up on a boat to act as a mobile irrigation facility for croplands in chars. The 5-kilowatt pump can irrigate 40-50 bighas of land and costs Tk 2.5 lakhs to set up. The facility came about under a one-year research project being jointly implemented by Rural Development Academy Bogura, Chars Development Research Centre and United Commercial Bank. The photo was taken at Noapara Char of Bogura's Shariakandi upazila on Wednesday.

PHOTO: MOSTAFA SHABUZZ

Natore's Kancha Golla wins GI tag

STAR BUSINESS REPORT

Kancha Golla, a popular sweet item made in the northeastern district of Natore, has secured recognition as a product with geographical indication (GI) from the Department of Patent, Industrial Design and Trade Mark (DPIIT).

"We have given the GI recognition to Kancha Golla as it is part of our heritage. This will enable producers to commercialise the sweet product in the markets at home and abroad," said DPIIT Director Jettar Rahman.

With this, Kancha Golla became the 17th product of Bangladesh that has so far received GI status. Other GI tag winners include Jamdani, Shatarami, Hilsa, black tiger shrimp, Dhakai Moulai, Fazli, Ashrina and Langta mangrove.

In Bangladesh, the recognition is provided by the DPIIT of the industries ministry in accordance with rules set by the World Intellectual Property Organisation.

Producers are granted the GI tag when they have

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A fifth of banks jump on digital bandwagon to power growth

SOBEL PAWYZ

Nearly a fifth of conventional banks in Bangladesh are preparing to establish digital banks to expand their reach to every nook and cranny of the country, wit and retain tech-savvy customers without physical presence.

Ten private banks have already formed a consortium to set up a digital bank - Digi10 Bank PLC, while Bank Asia and Trac Bank have also shared their decisions to become sponsors for two digital banks.

Two analysts have welcomed the bid by banks to join the digital banking segment, saying this will increase competition and include unbanked people in the formal financial system, enabling the country to attain its goal of financial inclusion and become a cashless economy.

Of the 10 banks, The City Bank, Eastern Bank, Mutual Trust Bank, Mercantile Bank, National Credit and Commerce Bank, and Pubali Bank have disclosed their plans to invest in a digital bank while Dutch Bangla Bank, Id and Trust Bank plan to join the



consortium.

"We will go for the digital bank if we get approval from our board," said Ibad Kader Md Shirin, managing director of DBL.

He said the private bank wants to be a part of a digital bank to reach every part of Bangladesh and across the world and meet the demands of tech-savvy customers who prefer to carry out banking virtually.

"The current generation is tech savvy, so we want to provide services to them digitally," he said.

As per the central bank's guidelines, digital banks will not be able to set up any brick and mortar branch.

"Once Digi10 Bank gets

approval and is established, its clients will be able to avail the services of the 10 banks. The 10 banks have huge facilities," Shirin said.

In June, the Bangladesh Bank invited applications for digital bank licenses.

The BB said digital banks would not be permitted to give out loans to carry out foreign trade or term loans to medium and large industries. It, however, limits the scope for conventional banks to establish a digital bank, alone.

Syed Mahabub Rahman, managing director of MTA, said: "The consortium of banks will help in terms of inclusiveness and increasing efficiency."

"This will help make the payments system strong and pave the way for the central bank to introduce its digital currency."

Rahman says banks are not rushing to set up digital banks out of fear of losing the market owing to expected competition from virtual banks, also known as neobanks.

"Rather, there is a lot of opportunity. We think we will be able to contribute to governance and ensure stricter compliance in the industry."

Investors willing to set up a digital bank will have to have a minimum paid up capital of Tk 125 crore and the capital will have to come from sponsors.

The new entity must be a public limited company and the minimum stake of each sponsor will be Tk 50 lakh.

Humaira Azam, managing director of Trac Bank, said the bank plans to join the consortium as part of its mission of financial inclusion and digital transformation.

Trac Bank has decided to invest in bKash Digital Bank PLC as it is already a shareholder

READ MORE ON B3

Debt-to-GDP ratio rises

STAR BUSINESS REPORT

Bangladesh's debt to GDP ratio rose by around two percentage points to 32.55 percent in the third quarter of last fiscal year 2022-23, according to the latest quarterly debt bulletin of the finance ministry.

On December 31, 2022, it was 30.56 percent.

The debt to GDP ratio is a comparison of a country's public debt and its gross domestic product (GDP), according to investopedia.com.

By comparing what a country owes with what it produces, the debt to GDP ratio indicates its ability to pay back its debts.

Though the debt to GDP ratio grew in the quarter, the finance ministry said it was still significantly lower than what the International Monetary Fund (IMF) recommends, which is less than 55 percent.

The total outstanding debt of Bangladesh was Tk 14,48,553 crore as of March 31, 2023, up from Tk 13,59,898 crore on December 31, 2022, the ministry data shows.

Out of the total debt of the country, 63 percent was domestic and the remaining 37 per cent owed abroad.

The domestic debt to GDP ratio rose to 20.57 percent from a previous 19.42 percent. Meanwhile, the external debt to GDP ratio went up to 12.01 percent from 11.14 percent.

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TACKLING HUNDL, ONLINE GAMING BFIU to work with law enforcers

STAR BUSINESS REPORT

The Bangladesh Financial Intelligence Unit (BFIU) will work with law enforcement agencies to tackle hundi, online gambling, betting, foreign currency and crypto trading, officials said yesterday.

The decision came at a meeting arranged by the anti-money laundering agency at its office in Motijheel.

The move comes after the BFIU noticed that illegal transactions facilitating cross-border payments and online gambling and betting have increased rapidly in recent years.

BFIU chief MD Masud Hossain presided over the meeting where representatives from the Criminal Investigation Department of

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COMMODITIES

Gold	Oil
\$1,921.23 (per ounce)	\$84.30 (per barrel)



Visitors are seen surveying the latest innovations in industrial materials, components and services at the International Advanced Components and Technology Expo-2023. The three-day fair organised by Walton began yesterday at the International Convention City Bashedunthara.

PHOTO: RASHED SHUHON

MEGA INDUSTRIAL EXPO features 50,000 materials, components and services

STAR BUSINESS REPORT

More than 50,000 industrial materials, components and services are on display at the three-day International Advanced Components and Technology Expo-2023, which began in Dhaka yesterday.

Walton, the leading electronics manufacturer in Bangladesh, organised the mega industrial fair, being held at the International Convention City Bashedunthara.

Most of the showcased products are used as main raw materials or components in various stages of almost all industrial establishments.

For example, more than 250 components are required to manufacture a refrigerator while more than 400 components are needed for an air conditioner (AC).

So, Walton displaying such components before manufacturers and consumers through a total of 21 stalls in four categories, the organisers said.

Commerce Minister Tipu Munshi inaugurated the fair at around 10:00 am and after a while, a number of visitors were seen enjoying the latest technologies available at various stalls.

Tajbar Hossain, a local trader from the Shampur area of Dhaka, said he visited the AC and refrigerator stalls to

gather information about Walton's latest innovations for those products.

Another visitor, James Shattar, who is an official of Whirlpool Bangladesh, said he came to the fair to learn about the small components they usually have to import for their appliances.

Most of the products on display are used as main raw materials or components in various stages of almost all industrial establishments.

"Reducing the cost of raw materials and spares is the main challenge. So, I came here to know if the cost of Walton's products meets our requirements," he added.

Ahsan H Mamun, executive director of the Policy Research Institute of Bangladesh, also visited the fair.

"Walton is making more than 50,000 industrial materials and components. It is really a big deal. Bangladesh's electronics industry will go further with the help of Walton," he said.

Speaking as chief guest, Commerce Minister Tipu Munshi said Walton has become an icon in Bangladesh's manufacturing sector.

READ MORE ON B2

Climate-smart nursery inaugurated in Bogura

► Mamun-ur-Rashid, Bogura

Climate-smart nursery, rest room for farmers and solar-based mobile irrigation were inaugurated in the char areas of Shariakandi upazila in Bogura on Wednesday.

The motto of the activities in the root-level disadvantaged people of the char areas was the development of the marketing system for improving of the lot of the char people by improving house-hold food and nutrition security of vulnerable Char people in Bangladesh.



The project named 'Voroshar Notun Janala' was sponsored by United Commercial Bank PLC (UCB Bank) and arranged by CDRC, under Rural Development Academy (RDA) of Bogura.

Director General of RDA, Bogura, and Additional Secretary of the government Md. Khurshid Iqbal Rezvi, Deputy Managing Director and the CEO of UCB PLC ATM Tahamiduzzaman FCS, and Deputy managing Director of UCB PLC Shah Alam Bhuiyan, and President of Recef Foundation Dr. Joynal Abedin spoke in the Skilled Development Training Course in the Nayapara char area under Shariakandi upazila in Bogura.

The team leader of the research and Joint-Director of RDA, Bogura, Dr. Md. Abdul Majid Pramanik and the Technical Adviser of the research Dr. Zakaria and Research Co-ordinator Mozaharul Islam Babu and other high officials of RDA and UCB PLC in the programme.



Solar-based tec lightening char farmers fortune

Bogura Correspondent

Climate Smart Nursery, Rest room for the char farmers and Solar-based mobile irrigation in the char areas were inaugurated in Shariakandi area in Bogura on Wednesday afternoon.

The motto of the activities in the root-level disadvantaged people of the char areas was the development of the marketing system by improving house-hold food and nutrition security of vulnerable Char people in Bangladesh.

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The team leader of the research and Joint-Director of RDA, Bogura, Dr. Md Abdul Majid Pramanik and the Technical Adviser of the research Dr. Zakaria and Research Coordinator Mozaharul Islam Babu and other high officials of RDA and UCB PLC in the programme.

Speakers emphasized on the development of the disadvantaged people of the char and Bangladesh can develop with the development of the people in the chars of Bangladesh and the initiative can reach them in their humanitarian target.



BOGURA: Solar-based mobile irrigation successfully launched at Shariakandi area in Bogura on Wednesday. ■ NN photo



Action Research Program

Sub-Sector: 01

Quality Seed and Seedling, New Crops Production and Marketing
Noyapara Char, Hatsherpur, Sariakandi, Bogura

Research Team

Md. Delwar Hossain, Director, RDA
Ms. Rebeka Sultana, Deputy Director, RDA
Momotaz Parvin, Field Supervisor, CDRC



UCB-CSR-Agro Action Research Project
Char Development Research Centre (CDRC)
Rural Development Academy (RDA), Bogura.

Sub-Sector: 01

Activity Shedule

Step	Activity	Attachment	Timeline
1.	Site Selection and Site Map Development	-	July, 2023
2.	Participant Selection (Final List)	Format	July, 2023
3.	Upay Account Opening (All Participants)	-	July, 2023
4.	Interventions Selection: Quality Seed and Seedling New Crops Production and Marketing	-	July, 2023
5.	Conduct Baseline Survey of HH	Questionnaire	August, 2023
6.	Technical Manual Development on Particular Intervention (Bangla)	Guideline	August, 2023
NOW YOU ARE READEY FOR FIELD INTERVENTION			
7.	Provide Skill Development Training (2 days) and Develop Participatory Plan	- Training Program Plan	August, 2023
8.	Establish Climate Smart Community Nursery Distribute Seed / Seedling / Trap / Tray	Signboard Design	August-September, 2023
9.	(i) Intervention Seed Technology	-	September, 2023
	(ii) Sack Garden (Ginger)	-	September, 2023
	(iii) Sand Bar Cropping (Sweet gourd)	-	September, 2023
	(iv) Water Melon Production (Mulching)	-	September, 2023
	(v) Dragon Fruit Garden	-	September, 2023
	(vi) Climate Smart Nursery	-	September, 2023
10.	Prepare Resources Distribution List (Submit to CDRC)	Format	September, 2023
11.	Establish Farmer Shed	Shed Design	September, 2023
12.	Try to Help Specially Needed Farmers Child of the Locality	-	October, 2023
13.	Plant Fruit Trees in Every Participants' Household	-	August-September, 2023
POST INTERVENTION ACTIVITY SCHEDULE WILL BE SERVE LATER			

For any Technical Assistance Please Contact-

AKM Zakaria, PhD, TA, Md. Abdul Majid PhD, TL, Md. Mozaherul Haque, RC.



Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored "Voroshar Notun Janala" initiative

সাবসেক্টর: ০১

উন্নত বীজ, চারা ও নতুন ফসল উৎপাদন ও বিপণন

চরাঞ্চলে বসবাসরত ক্ষুদ্র কৃষি উদ্যোক্তাবৃন্দের অংশগ্রহণে দক্ষতা উন্নয়ন প্রশিক্ষণ কোর্স

কোর্স পরিচালক: মোঃ দেলোয়ার হোসেন, যুগ্ম পরিচালক স্থান: নয়াপাড়া চর, হাটশেরপুর, সারিয়াকান্দি, বগুড়া

কোর্স সমন্বয়ক: মোছাঃ রেবেকা সুলতানা, উপপরিচালক

প্রশিক্ষণ সূচি

তারিখ: ৯-১০ আগস্ট, ২০২৩

বিষয়সমূহ

ইউসিবি-ভরসার নতুন জানালা প্রয়োগিক গবেষণার উদ্দেশ্য, প্রত্যাশা ও কোর্স কার্যক্রম সূচনা

চরাঞ্চলের কৃষিতে জলবায়ু পরিবর্তনের বিরূপ প্রভাব ও প্রতিকার: অংশগ্রহণমূলক আলোচনা

নিরাপদ খাদ্য উৎপাদন: অংশগ্রহণমূলক আলোচনা

ফসলের উন্নত বীজ উৎপাদন প্রযুক্তি: তাত্ত্বিক ও ব্যবহারিক

বসত বাড়িতে বাণিজ্যিক ভিত্তিতে বসায় আদা চাষ পদ্ধতি (স্যাক গার্ডেন): তাত্ত্বিক ও ব্যবহারিক

জাংলায় ও মালচিং ব্যবহার করে বাণিজ্যিক ভিত্তিতে বারোমাসি তরমুজ চাষ পদ্ধতি: তাত্ত্বিক ও ব্যবহারিক

স্যান্ডবার ক্রপিং প্রযুক্তি ব্যবহার করে বালুচরে বাণিজ্যিক ভিত্তিতে চরাঞ্চলে মিষ্টি কুমড়া চাষ পদ্ধতি:

তাত্ত্বিক ও ব্যবহারিক

বাণিজ্যিক ভিত্তিতে চরাঞ্চলে ড্রাগন ফলের চাষ : তাত্ত্বিক ও ব্যবহারিক

ট্রেতে কোকোপিটে সুস্থ চারা উৎপাদন প্রযুক্তি: তাত্ত্বিক ও ব্যবহারিক

ক্রাইমেট স্মার্ট কমিউনিটি নার্সারী ব্যবস্থাপনা: তাত্ত্বিক ও ব্যবহারিক

অংশগ্রহণমূলক লক্ষ্যমাত্রা নির্ধারণ ও উৎপাদন পরিকল্পনা প্রণয়ন: ব্যবহারিক

(পরিকল্পনা ডকুমেন্ট করুন ও সিডিআরসিতে জমা দিন)

প্রশিক্ষণ সমাপনী।

■ প্রশিক্ষকবৃন্দ:

১. জনাব মোঃ দেলোয়ার হোসেন
২. জনাব মোঃ খালিদ আওরঞ্জাবেব
৩. ড. মোঃ আব্দুল মজিদ
৪. জনাব রেবেকা সুলতানা
৫. জনাব মোঃ মোজাহেরুল হক ও
৬. ড. একেএম জাকারিয়া।



Action Research Program

Sub-Sector: 02

Poultry, Pigeon and Small Animal Production and Marketing
Baje Fulchari Char, Fulchari, Gaibandha

Research Team

Md. Mohiuddin, Deputy Director, RDA
Mashrufa Tanzin, Deputy Director, RDA
Md. Abdullah Alamin, Assistant Director, RDA
Md. Hamidul Islam, Field Supervisor, CDRC



UCB-CSR-Agro Action Research Project
Char Development Research Centre (CDRC)
Rural Development Academy (RDA), Bogura.

Activity Shedule

Step	Activity	Attachment	Timeline
1.	Site Selection and Site Map Development	-	July, 2023
2.	Participant Selection (Final List)	Format	July, 2023
3.	Upay Account Opening (All Participants)	-	July, 2023
4.	Interventions Selection: Garol, Pigeon, Incubator, Rabbit, Indigenous Poultry A.I.	-	July, 2023
5.	Conduct Baseline Survey of HH	Questionnaire	August, 2023
6.	Technical Manual Development on Particular Intervention (Bangla)	Guideline	August, 2023
NOW YOU ARE READEY FOR FIELD INTERVENTION			
7.	Provide Skill Development Training (2 days) and Develop Participatory Plan	- Training Program Plan	August, 2023
8.	Distribution Intervention Package to Participants (Submit distribution list to CDRC)	Format	August-September, 2023
9.	Construct Housing for Birds and Animals	Format Shed and Signboard Design	September, 2023
10.	Prepare Resources Distribution List (Submit to CDRC)	Format	September, 2023
11.	Establish Farmer Shed	Shed Design	September, 2023
12.	Try to Help Specially Needed Farmers Child of the Locality	-	October, 2023
13.	Plant Fruit Trees in Every Participants' Household	-	August-September, 2023
POST INTERVENTION ACTIVITY SCHEDULE WILL BE SERVE LATER			

For any Technical Assistance Please Contact-

AKM Zakaria, PhD, TA, Md. Abdul Majid PhD, TL, Md. Mozaherul Haque, RC.



Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored “Voroshar Notun Janala” initiative

সাবসেক্টর: ০২

মুরগী, কবুতর ও ক্ষুদ্র প্রাণি পালন ও বিপণন প্রশিক্ষণ কোর্স

কোর্স পরিচালক: মোঃ মহিউদ্দিন

স্থান: বাজে ফুলছড়ি, ফুলছড়ি, গাইবান্ধা

কোর্স সমন্বয়ক: মার্শরুফা তানজিন

প্রশিক্ষণ সূচি

তারিখ:, ২০২৩

বিষয়সমূহ

ইউসিবি-ভরসার নতুন জানালা প্রয়োগিক গবেষণার উদ্দেশ্য, প্রত্যাশা ও কোর্স কার্যক্রম সূচনা

চরাঞ্চলের কৃষিতে জলবায়ু পরিবর্তনের বিরূপ প্রভাব ও প্রতিকার: অংশগ্রহণমূলক আলোচনা

ভেড়া পালনের গুরুত্ব। ভেড়ার বাসস্থান ব্যবস্থাপনা এবং বিভিন্ন পালন পদ্ধতি

বিভিন্ন বয়সের ভেড়ার পালন ও খাদ্য ব্যবস্থাপনা

ভেড়ার প্রজনন ব্যবস্থাপনা এবং শেয়ারিং (পশম কাটা)

ভেড়ার গুরুত্বপূর্ণ রোগ, লক্ষণ, প্রতিকার এবং প্রতিরোধ ব্যবস্থা

কবুতর পালনের গুরুত্ব। কবুতরের বিভিন্ন জাত পরিচিতি

কবুতরের বাসস্থান ও খাদ্য ব্যবস্থাপনা

কবুতরের বিভিন্ন রোগ, লক্ষণ, প্রতিকার এবং প্রতিরোধ ব্যবস্থা

দেশি মুরগি পালনের গুরুত্ব

দেশি মুরগির বাসস্থান এবং বিভিন্ন বয়সের মুরগি পালন ও খাদ্য ব্যবস্থাপনা

মুরগির বিভিন্ন রোগ, লক্ষণ, প্রতিকার এবং প্রতিরোধ ব্যবস্থা

খরগোস পালনের গুরুত্ব। খরগোসের বিভিন্ন জাত পরিচিতি

খরগোসের বাসস্থান, পালন এবং খাদ্য ব্যবস্থাপনা

খরগোসের রোগ, লক্ষণ, প্রতিকার এবং প্রতিরোধ ব্যবস্থা

ইনকিউবেটরে ফোটার জন্য উর্বর ডিম নির্বাচন ও সংগ্রহ

ইনকিউবেটরে ডিম হতে বাচ্চা ফোটার পদ্ধতি।

অংশগ্রহণমূলক লক্ষ্যমাত্রা নির্ধারণ ও উপাদান পরিকল্পনা প্রণয়ন: ব্যবহারিক

(পরিকল্পনা ডকুমেন্ট করুন ও সিডিআরসিতে জমা দিন)

প্রশিক্ষণ সমাপনী।

■ প্রশিক্ষকবৃন্দ:

১. জনাব মোঃ মহিউদ্দিন
২. ডা: মোঃ রিয়াজুল ইসলাম
৩. জনাব মার্শরুফা তানজিন
৪. জনাব মোঃ আব্দুল্লাহ আলআমিন

৫. জনাব মোঃ মোজাহেরুল হক
৬. ড. মোঃ আব্দুল মজিদ ও
৭. ড. একেএম জাকারিয়া।



ইউনাইটেড কমিশিয়াল
ব্যাক পিএলসি

Action Research Program

Sub-Sector: 03

Homestead Ditch Fish and Dike Vegetable Production and Marketing
Char Shitaijhar, Kurigram Sadar, Kurigram

Research Team

Md. Macksood Alam Khan PhD, Joint Director, RDA
Md. Al Mamun, Deputy Director, RDA
Md. Razu Ahmed, Field Supervisor, CDRC



UCB-CSR-Agro Action Research Project
Char Development Research Centre (CDRC)
Rural Development Academy (RDA), Bogura.



ইউনাইটেড কমার্শিয়াল
ব্যাংক পিএলসি

Sub-Sector: 03

Activity Shedule

Step	Activity	Attachment	Timeline
14.	Site Selection and Site Map Development	-	July, 2023
15.	Participant Selection (Final List)	Format	July, 2023
16.	Upay Account Opening (All Participants)	-	July, 2023
17.	Interventions Selection: Homestead Ditch Fish and Dike Vegetable Demo	-	July, 2023
18.	Conduct Baseline Survey of HH	Questionnaire	August, 2023
19.	Technical Manual Development on Particular Intervention (Bangla)	Guideline	August, 2023
NOW YOU ARE READEY FOR FIELD INTERVENTION			
20.	Provide Skill Development Training (2 days) and Develop Participatory Plan	- Training Program - Plan	August, 2023
21.	Prepare Ditch and Dike and Fix Signboard	Signboard Design	August-September, 2023
22.	Distribute and Release Fish Fingerling and Vegetable Seed	-	September, 2023
23.	Prepare Resources Distribution List (Submit to CDRC)	Format	September, 2023
24.	Establish Farmer Shed	Shed Design	September, 2023
25.	Try to Help Specially Needed Farmers Child of the Locality	-	October, 2023
26.	Plant Fruit Trees in Every Participants' Household	-	August-September, 2023
POST INTERVENTION ACTIVITY SCHEDULE WILL BE SERVE LATER			

For any Technical Assistance Please Contact-

AKM Zakaria, PhD, TA, Md. Abdul Majid PhD, TL, Md. Mozaherul Haque, RC.



Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored “Vorochar Notun Janala” initiative

সাবসেক্টর: ০৩

জৈব সার উৎপাদন ও বিপণন

চরাঞ্চলে বসবাসরত ক্ষুদ্র কৃষি উদ্যোক্তাবৃন্দের অংশগ্রহণে দক্ষতা উন্নয়ন প্রশিক্ষণ কোর্স

কোর্স পরিচালক: ড. মোঃ মাকছুদ আলম খান

স্থান: চর সিতাইঝার, কুড়িগ্রাম সদর, কুড়িগ্রাম

কোর্স সমন্বয়ক: মোঃ আল মামুন

প্রশিক্ষণ সূচি

তারিখ:, ২০২৩

বিষয়সমূহ

ইউসিবি-ভরসার নতুন জানালা প্রয়োগিক গবেষণার উদ্দেশ্য, প্রত্যাশা ও কোর্স কার্যক্রম সূচনা

চরাঞ্চলের কৃষিতে জলবায়ু পরিবর্তনের বিরূপ প্রভাব ও প্রতিকার: অংশগ্রহণমূলক আলোচনা

বসতবাড়ি সংলগ্ন ছোট ছোট ডোবায় মাছ চাষের সম্ভাবনা: অংশগ্রহণমূলক আলোচনা

বসতবাড়ি সংলগ্ন ডোবা সংস্কার ও পানির গুণগতমান উন্নয়ন: তাত্ত্বিক ও ব্যবহারিক

বসতবাড়ি সংলগ্ন ডোবার পাড়ে সবজি উৎপাদন প্রযুক্তি: তাত্ত্বিক ও ব্যবহারিক

ডোবার জন্য উপযুক্ত মাছের জাত নির্বাচন: তাত্ত্বিক ও ব্যবহারিক

ডোবার মাছের জন্য ব্যয় সাশ্রয়ী নিরাপদ খাদ্য: তাত্ত্বিক ও ব্যবহারিক

ডোবার মাছের রোগবলাই ও তার প্রতিকার: তাত্ত্বিক ও ব্যবহারিক

ডোবার পোনা মজুদ পরবর্তী ব্যবস্থাপনা: তাত্ত্বিক ও ব্যবহারিক

ডোবার মাছ আহরণ ও বাজারজাতকরণ: তাত্ত্বিক ও ব্যবহারিক

ডোবার পাড়ের সবজি আহরণ ও বাজারজাতকরণ: তাত্ত্বিক ও ব্যবহারিক

অংশগ্রহণমূলক লক্ষ্যমাত্রা নির্ধারণ ও উৎপাদন পরিকল্পনা প্রণয়ন: ব্যবহারিক

(পরিকল্পনা ডকুমেন্ট করুন ও সিডিআরসিতে জমা দিন)

প্রশিক্ষণ সমাপনী।

■ প্রশিক্ষকবৃন্দ:

১. ড. মাকছুদ আলম খান
২. ড. মোঃ আব্দুল মজিদ
৩. জনাব রেবেকা সুলতানা
৪. জনাব মোঃ আল মামুন
৫. জনাব মোঃ মোজাহেবুল হক ও
৬. ড. একেএম জাকারিয়া।



Action Research Program

Sub-Sector: 04

Organic Fertilizer Production and Marketing
Dhushmara Char, Kaunia, Rangpur

Research Team

Md. Mizanur Rahman, Director, RDA
Shuvagata Bagchi, Deputy Director, RDA
Md. Mizanur Rahman, Field Supervisor, CDRC



UCB-CSR-Agro Action Research Project
Char Development Research Centre (CDRC)
Rural Development Academy (RDA), Bogura.

Sub-Sector: 04

Activity Shedule

Step	Activity	Attachment	Timeline
27.	Site Selection and Site Map Development	-	July, 2023
28.	Participant Selection (Final List)	Format	July, 2023
29.	Upay Account Opening (All Participants)	-	July, 2023
30.	Interventions Selection: Trichoderma Home Garden Demo	-	July, 2023
31.	Conduct Baseline Survey of HH	Questionnaire	August, 2023
32.	Technical Manual Development on Particular Intervention (Bangla)	Guideline	August, 2023
NOW YOU ARE READEY FOR FIELD INTERVENTION			
33.	Provide Skill Development Training (2 days) and Develop Participatory Plan	- Training Program Plan	August, 2023
34.	Establish Trichoderma Production Plant in each Household (Please also include Bio-Pesticide Production)	Shed Design	August-September, 2023
35.	Establish Homestead Vegetable Garden (2 in each HH): Trichoderma and No Trichoderma	Signboard Design	September, 2023
36.	Distribute Vegetable Seed and Pheramone Trap for Vegetable Garden	-	September, 2023
37.	Resources Distribution List (Submit to CDRC)	Format	September, 2023
38.	Establish Farmer Shed	Shed Design	September, 2023
39.	Try to Help Specially Needed Farmers Child of the Locality	-	October, 2023
40.	Plant Fruit Trees in Every Participants' Household	-	August-September, 2023
POST INTERVENTION ACTIVITY SCHEDULE WILL BE SERVE LATER			

For any Technical Assistance Please Contact-

AKM Zakaria, PhD, TA, Md. Abdul Majid PhD, TL, Md. Mozaherul Haque, RC.



Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored “Voroshar Notun Janala” initiative

সাবসেক্টর: ০৪

জৈব সার উৎপাদন ও বিপণন

চরাঞ্চলে বসবাসরত ক্ষুদ্র কৃষি উদ্যোক্তাবৃন্দের অংশগ্রহণে দক্ষতা উন্নয়ন প্রশিক্ষণ কোর্স

কোর্স পরিচালক: মোঃ মিজানুর রহমান

স্থান: দুসমারা চর, কাউনিয়া, রংপুর

কোর্স সমন্বয়ক: শুভাগত বাগচি

প্রশিক্ষণ সূচি

তারিখ:, ২০২৩

বিষয়সমূহ

ইউসিবি-ভরসার নতুন জানালা প্রয়োগিক গবেষণার উদ্দেশ্য, প্রত্যাশা ও কোর্স কার্যক্রম সূচনা

চরাঞ্চলের কৃষিতে জলবায়ু পরিবর্তনের বিরূপ প্রভাব ও প্রতিকার: অংশগ্রহণমূলক আলোচনা

মাটিতে জৈব পদার্থের ভূমিকা: অংশগ্রহণমূলক আলোচনা

ট্রাইকোডার্মা সহ বিভিন্ন জৈব সার পরিচিতি: তাত্ত্বিক ও ব্যবহারিক

ট্রাইকোডার্মা উৎপাদন প্রযুক্তি: ব্যবহারিক (অর্ধেক দিন)

ট্রাইকো কম্পোস্ট এর অর্থনৈতিক গুরুত্ব ও বাজারজাত কৌশল: অংশগ্রহণমূলক আলোচনা

নিরাপদ খাদ্য উৎপাদনে ও বায়োপেস্টিসাইড (সেফ ফুড): তাত্ত্বিক ও ব্যবহারিক

বসতবাড়িতে ২ পদ্ধতিতে সবজি বাগান সৃজন: তাত্ত্বিক ও ব্যবহারিক

(ট্রাইকো কম্পোস্ট সহ ও ট্রাইকো কম্পোস্ট ছাড়া)

অংশগ্রহণমূলক লক্ষ্যমাত্রা নির্ধারণ ও উৎপাদন পরিকল্পনা প্রণয়ন: ব্যবহারিক

(পরিকল্পনা ডকুমেন্ট করুন ও সিডিআরসিতে জমা দিন)

প্রশিক্ষণ সমাপনী।

প্রশিক্ষকবৃন্দ:

১. জনাব মোঃ মিজানুর রহমান
২. জনাব খালিদ আওরঞ্জাজেব
৩. ড. মোঃ আব্দুল মজিদ
৪. জনাব রেবেকা সুলতানা
৫. জনাব শুভাগত বাগচি
৬. জনাব মোঃ মোজাহেরুল হক ও
৭. ড. একেএম জাকারিয়া।



ইউনাইটেড কমার্শিয়াল
ব্যাংক পিএলসি

Action Research Program

Sub-Sector: 05

Portable Solar Irrigation and Water Marketing
Deluabari Char, Fulchari, Gaibandha

Research Team

Md. Ferdous Hossain Khan, Director, RDA
Md. Khalid Aurangozeb, Joint Director, RDA
Dr. Md. Abid Hossain Mridha, Joint Director, RDA
Md. Faruk Hossain, Field Supervisor, CDRC



UCB-CSR-Agro Action Research Project
Char Development Research Centre (CDRC)
Rural Development Academy (RDA), Bogura.

Sub-Sector: 05

Activity Shedule

Step	Activity	Attachment	Timeline
41.	Site Selection and Site Map Development	-	July, 2023
42.	Participant Selection (Final List)	Format	July, 2023
43.	Upay Account Opening (All Participants)	-	July, 2023
44.	Interventions Selection: Portable Solar Irrigation (2 type)	-	July, 2023
45.	Conduct Baseline Survey of HH	Questionnaire	August, 2023
46.	Technical Manual Development on Particular Intervention (Bangla)	Guideline	August, 2023
NOW YOU ARE READEY FOR FIELD INTERVENTION			
47.	Provide Skill Development Training (2 days) and Develop Participatory Plan	- Training Program - Plan	August, 2023
48.	Install Boat Mounted and Horse Cradle Mounted Solar Irrigation Units	Signboard Design	August-September, 2023
49.	Distribute Poly Pipe, Maize and Rice Seed, Magic Pipe	-	September, 2023
50.	Prepare Resources Distribution List (Submit to CDRC)	Format	September, 2023
51.	Establish Farmer Shed	Shed Design	September, 2023
52.	Try to Help Specially Needed Farmers Child of the Locality	-	October, 2023
53.	Plant Fruit Trees in Every Participants' Household	-	August-September, 2023
POST INTERVENTION ACTIVITY SCHEDULE WILL BE SERVE LATER			

For any Technical Assistance Please Contact-

AKM Zakaria, PhD, TA, Md. Abdul Majid PhD, TL, Md. Mozaherul Haque, RC.



Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored "Voroshar Notun Janala" initiative

সাবসেক্টর: ০৫

চরাঞ্চলে বসবাসরত ক্ষুদ্র কৃষি উদ্যোক্তাবৃন্দের অংশগ্রহণে দক্ষতা উন্নয়ন প্রশিক্ষণ কোর্স

কোর্স পরিচালক: মোঃ ফেরদৌস হোসেন খান

স্থান: দেলুয়াবাড়ী চর, ফুলছড়ি, গাইবান্ধা

কোর্স সমন্বয়ক: মোঃ খালিদ আওরঞ্জাবেব

ড. আবিদ হোসেন মুধা

প্রশিক্ষণ সূচি

তারিখ:, ২০২৩

বিষয়সমূহ

ইউসিবি-ভরসার নতুন জানালা প্রয়োগিক গবেষণার উদ্দেশ্য, প্রত্যাশা ও কোর্স কার্যক্রম সূচনা

চরাঞ্চলের কৃষিতে জলবায়ু পরিবর্তনের বিরূপ প্রভাব ও প্রতিকার: অংশগ্রহণমূলক আলোচনা

নিরাপদ খাদ্য উৎপাদন: অংশগ্রহণমূলক আলোচনা

মাটি পানির ও ফসলের সম্পর্ক: তাত্ত্বিক ও ব্যবহারিক

চরাঞ্চলের মাটিতে পানির ধারণ ক্ষমতা উন্নয়ন: অংশগ্রহণমূলক আলোচনা

পানি সশ্রয়ী বিভিন্ন প্রযুক্তি: মালচিং, ম্যাজিক পাইপ, রেইজড বেড: তাত্ত্বিক ও ব্যবহারিক

বিভিন্ন ফসলের পানির প্রয়োজনীয়তা: তাত্ত্বিক ও ব্যবহারিক

সেচের পানির মূল্য নির্ধারণ পদ্ধতি: তাত্ত্বিক ও ব্যবহারিক

সেচ নালা সাংস্কার ও ফিতা পাইপের মাধ্যমে সেচ প্রদান: তাত্ত্বিক ও ব্যবহারিক

সেচ সিডিউল তৈরী: ব্যবহারিক

সোলার ভিত্তিক সেচ ইউনিটের পরিচালনা ও রক্ষনাবেক্ষণ: তাত্ত্বিক ও ব্যবহারিক

অংশগ্রহণমূলক লক্ষ্যমাত্রা নির্ধারণ ও উৎপাদন পরিকল্পনা প্রণয়ন: ব্যবহারিক

(পরিকল্পনা ডকুমেন্ট করুন ও সিডিআরসিতে জমা দিন)

প্রশিক্ষণ সমাপনী।

■ প্রশিক্ষকবৃন্দ:

১. জনাব মোঃ ফেরদৌস হোসেন খান
২. জনাব মোঃ খালিদ আওরঞ্জাবেব
৩. ড. মোঃ আব্দুল মজিদ
৪. ড. আবিদ হোসেন মুধা
৫. জনাব মোঃ মোজাহেরুল হক ও
৬. ড. একেএম জাকারিয়া।



দশ ধাপে প্রযুক্তি হস্তান্তর ম্যানুয়াল তৈরীর গাইডলাইন

সাব সেক্টর : _____

প্রযুক্তি/পদ্ধতি/উদ্যোগ : _____

চর ডেভেলপমেন্ট রিসার্চ সেন্টার
পল্লী উন্নয়ন একাডেমী (আরডিএ), বগুড়া

প্রথম অংশ: ভূমিকা

- ১। নতুন প্রযুক্তি / উদ্যোগ / পদ্ধতির পরিচিতি। (উদাহরণ: সোলার সেচ প্রকল্প)
- ২। প্রযুক্তি ব্যবহার করে কৃষক কিভাবে লাভবান হবেন?
- ৩। প্রযুক্তি ব্যবহারের ফলে উৎপাদিত কৃষি পণ্যের বাজার কতটুকু বিস্তৃত?
(চাহিদা / মার্কেট সাইজ/মূল্য ইত্যাদি)
- ৪। প্রযুক্তিটির সীমাবদ্ধতা কি (যদি থাকে)? (যেমন: ঔঁচনশীল)
- ৫। প্রযুক্তিটি স্মার্ট বাংলাদেশ, এসডিজি ও ক্লাইমেট স্মার্ট খারনার সাথে কিভাবে সম্পর্কিত?
(উৎপাদন বৃদ্ধি, পরিবেশ বন্ধব, ডিজিটাল, এসডিজি ইত্যাদি)

দ্বিতীয় অংশ: দশ ধাপে প্রযুক্তি হস্তান্তর
(সংক্ষিপ্ত কিন্তু সুনির্দিষ্ট তথ্যভিত্তিক)

ধাপ-১ : ভাল মানের ছবি সংযোজন করুন
ধাপ-২ : ভাল মানের ছবি সংযোজন করুন
ধাপ-৩: ভাল মানের ছবি সংযোজন করুন
ধাপ-৪: ভাল মানের ছবি সংযোজন করুন
ধাপ-৫: ভাল মানের ছবি সংযোজন করুন
ধাপ-৬: ভাল মানের ছবি সংযোজন করুন
ধাপ-৬: ভাল মানের ছবি সংযোজন করুন
ধাপ-৮: ভাল মানের ছবি সংযোজন করুন
ধাপ-৯: ভাল মানের ছবি সংযোজন করুন
ধাপ-১০: ভাল মানের ছবি সংযোজন করুন

Action Research on

Climate smart agricultural marketing system development for improving household food and nutrition security of vulnerable Char dwellers in Bangladesh under UCB-CSR sponsored “Voroshar Notun Janala” initiative

Household Baseline Survey Questionnaire

Household ID:

1. Respondent farmer’s name (HH head):
.....
2. Address: Char village: Union:
Upazila (Sub-dist.): District:
3. Family size of the HH:
4. Education level of HH members (years of schooling):
5. Farm size of the HH (ha): (Cultivable): Own:.....Rent:.....
6. Income sources and annual income of the HH: Agriculture.....
Business:.....Others:.....Total.....
7. What are the reasons of migration of the HH to char land?
.....
.
8. How many times migration happened of this HH in a life time?
.....
9. What are the climate induced (Natural hazard) vulnerabilities (crisis) the HH faced during last 12 months?
.....
.
10. What coping mechanisms were adopted by the HH to face those crises?
.....
.
11. How many farmers (HH) living in this char village (Please collect data from local Union Parishad)

12. Multidimensional Poverty Indicators (MPI) (Yes/No)

- i. Child under 18 years has died in the last five year (SDG-3)
.....
- ii) Any HH members not completed six years of schooling (SDG-4)
.....
- iii) School-Aged Child is not attending school (SDG-4)
.....
- iv) HH cooks using solid fuel (dung, crops, wood (SDG-7)
.....
- v) HH collecting drinking water from 30 minutes or longer walking distance (SDG-6)
.....
- vi) HH has no electricity (SDG-7)
- vii) HH has inadequate housing facility (Temporary floor, roof, wall) (SDG-11)
.....
- viii) HH does not own Radio, TV, Phone, Computer, By cycle, Motorbike, Refrigerator (SDG-1)
.....
- ix) HH has no improved sanitation facility or improved but shared with other HH (SDG-6)
.....
- x) Any person under 70 years of age complained malnutrition weakness (SDG-2)
.....

13. What is the size of monthly food expenditure of the HH?

.....

14. What is the HH food availability status over the months?

No food	1-2 months	3-6 months	7-9 months	10-12 months

15. What is the HH food consumption frequency over last seven days?

	Food items	Food Group	No. of days	Source of Food	
				Own Stock	Market/ Others
1	Maize, Rice, Sorghum, Wheat and other cereal, Potato, Sweet Potato	Cereals & Tubes			
2	Bean, Peas, Ground Nuts etc.	Pulse			
3	Vegetables	Vegetable			
4	All kind of Fruits	Fruits			
5	Beef, Mutton, Poultry, Fish, Egg	Meat & Fish			
6	Milk, Yogurt	Milk			
7	Sugar and Sugar Products	Sugar			
8	Oils, Fats, Butter	Oil			
9	Condiments	Condiments			

Note:

- Extend thanks and gratitude to the respondent for his/ her time and cooperation
- Collect data in local units

Data Collected and Verified by

(CDRC Enumerator)

Date.....

Check by:

Md. Mojaherul Haque

Research Coordinator

Approve by:

Dr. AKM Zakaria

Technical Advisor, CSA.