



# CLIMATE-FRIENDLY AGRIBUSINESS VALUE CHAINS SECTOR PROJECT (CFAVC)



ADB Loan No. 3661-CAM (COL)/8346-CAM (EF) Grant  
No. 0579-CAM (EF)



GREEN  
CLIMATE  
FUND



## MONTHLY PROGRESS REPORT

September 2024

Project Management Unit (PMU) of MAFF

## I. INTRODUCTION

This is the Monthly Progress Report for the Climate-Friendly Agribusiness Value Chains Sector Project (CFAVC) -- Project Number: 48409-002). The CFAVC project is funded by the Asian Development Bank (ADB) with ADB Loan No. 3661-CAM (COL)/8346-CAM (EF) Grant No. 0579-CAM (EF) and the Government of Cambodia. The report has accumulated progress as of **September 2024**.

The project has consumed (time elapsed) **75%** (71 out of 95 months; remaining 24 months), overall disbursement is **39.2%** and expenditures rate is **36.4%** of the total fund (141.04M\$), and the overall project progress is **66.80%**.

All progress figures in this report over the period up to this month are accumulative amounts from the project started in 2019 while progress reported over the current month is actual progress.

## II. PROJECT DESCRIPTION

The project's basic information is shown in Tables 1 and 2.

Table 1: Basic Project Information

Project Number:	48409-002
Project Title:	Climate-Friendly Agribusiness Value Chains Sector Project (CFAVC)
Recipient:	Royal Government of Cambodia
Executing Agency (EA):	Ministry of Agriculture, Forestry and Fisheries (MAFF)
Project Management Units (PMUs)	<ul style="list-style-type: none"> <li>▪ Ministry of Agriculture, Forestry and Fisheries (MAFF) Implementing Agencies (IAs): <ul style="list-style-type: none"> <li>➢ Cambodia Agricultural Research and Development Institute (CARDI)</li> <li>➢ General Directorate of Animal Health and Production (GDAHP)</li> <li>➢ General Directorate Agriculture (GDA)</li> </ul> </li> <li>▪ Ministry of Water Resources and Meteorology (MOWRAM) Implementing Agencies (IAs): <ul style="list-style-type: none"> <li>➢ General Directorate of Technical Affairs</li> </ul> </li> <li>▪ Ministry of Rural Development (MRD) Implementing Agencies (IAs): <ul style="list-style-type: none"> <li>➢ General Directorate of Technical Affairs</li> </ul> </li> </ul>

Source: ADB-CFAVC-PAM (June 2018)

Table 2: Dates of Loan/Grant approvals, effectivity, and Closing

Loan/Grant Sources	Effective date	Closing date	Duration	Time elapsed	% time elapsed
Grant 0579- CAM Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	66 months	<b>73%</b>
Loan 3661- CAM Concessional ordinary capital resources lending	01 Oct 2018	30 Sep 2026	95 Months	71 months	<b>75%</b>
Loan 8346- CAM Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	66 months	<b>73%</b>

Table 3: Project Financing

Sources	Amount	Share of Total	Disbursement*	Expenditure**
	(US\$ Million)	(%)	(%)	(%)
Loan (Concession)-L3661	90,000,000	63.81	44.6%	43.3%
Loan (GCF)-L8346	10,000,000	7.09	32.4%	30.2%
Grant (GCF)-G0579	30,000,000	21.27	36.4%	28.2%
RGC	7,376,000	5.23%	14.0%	12.4%
Beneficiaries	3,664,000	2.60%	-	0.0%
<b>Total fund</b>	<b>141,040,000</b>	<b>100.00%</b>	<b>39.2%</b>	<b>36.4%</b>

Note: \* = Cumulative up to September 2024 "Combined all PMUs", extracted from ADB-LFIS/GFIS system.

\*\*= Cumulative up to September 2024

Table 4: Overall physical progress:

Outputs	Assigned weight	Progress (%)
Output 1	65.00	47.41
Output 2	20.00	13.03
Output 3	15.00	6.36
<b>Overall</b>	<b>100.00</b>	<b>66.80</b>

## III. IMPLEMENTATION PROGRESS

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
<b>Output 1: Critical agribusiness value chain infrastructure improved and made climate-resilient</b>				
<b>Activity 1.1. Rehabilitating water management infrastructure</b>				
1.a	27 Irrigation and water management systems rehabilitated and made climate-friendly	<ul style="list-style-type: none"> <li>Ongoing the construction 4 schemes</li> <li>Received NOL from ADB 2 contract packages CW12.2.B and CW15.3</li> <li>Anticipating for NOL of DDR, 6 schemes, 3 DDR</li> </ul>	<ul style="list-style-type: none"> <li>All 25 schemes completed DED (14,647Ha), remaining 2 schemes</li> <li>Complete DDR report 19 Schemes (70%) and received NOL from ADB 15 schemes (56%).</li> <li>Completed construction (100%) 9 schemes= 3,250Ha</li> <li>6 Schemes ongoing construct (65 % of overall CW works)</li> </ul> <p>Total 27 schemes 15000 ha,</p>	CS1 (MOWRAM)
1.b	500 On-farm rainwater harvesting ponds commissioned	<ul style="list-style-type: none"> <li><b>Batch I: (275 RWHPs) in</b> Package CW1. A.1 Data collection of 48 of 80 RWHPs (Kampot Province) equal 80%</li> <li>ADB NOL on Package CW1. B.1: 63 completed 10 of 63 RWHPs (Tbong Khmum Province) equal 28%.</li> <li>Received NOL, DDR Kampong Cham 66 RWHPs CW1. C.1 and Takeo 31 May 24 of 66 in package CW1. D.1. ADB not answer yet</li> <li><b>Batch II: (225 RHPs)</b> Complete DED 190 of 3 Provinces Tbong Khmum and Kampot and Takeo</li> <li>Completed DDR drafted 142 RWHPs in Tbong Khmum of 72 RWHPs and Kampot 70 RWHP locations</li> </ul>	<ul style="list-style-type: none"> <li>503 completed DED and are in the stage of the procurement process</li> <li>Completed DDR 275 ponds and approved by ADB</li> <li>Kampot 80 RWHPs in Batch I has already been awarded contract and completed 75</li> <li>Tbongkhum 63 is ongoing construction and completed 35</li> <li>Kampong Cham 66 is ongoing construction and completed 25</li> <li>Total completed construction 135 ponds</li> </ul> <p>Total: 500</p>	CS1 (MOWRAM)

<sup>1</sup> progress report within the current month

<sup>2</sup> progress report accumulated since the project started in 2019

<sup>3</sup> Remarks for within the current month

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>Ongoing data collection in 40 RWHPs Takeo and Kampong Cham 50 RWHP locations.</li> </ul>		
	15 drip irrigation demonstration units on mango farmers' land	Revised technical specification with Bill of Quantity for Drip Irrigation Demonstration to align with budget in procurement plan.	<ul style="list-style-type: none"> <li>15 farms have been reconfirmed and replacement the previous selected beneficiaries.</li> <li>Document data collection process has been done since 2021 that included identifying and interviewing with many farmers with GDA/PMU/CS2 team from 4 target provinces, then identifying and shorting listed 5 candidates for planning to install a drip irrigation system with solar pump in their mango orchards, and then cooperated with DTL for continue bidding document process.</li> <li>DTLCS1, DTLCS2, PMU team and GDA/DoEA to review the progress of 5 drip irrigation systems, based on AWPB-2022 to identify some documents that are not completed based on technical specifications.</li> <li>We have done the BoQ estimation for each drip irrigation and solar pump.</li> <li>The last DoEA representative made a proposal for demonstration site arrangement on drip irrigation system installation with the solar pumping PMU's procurement and guide to access forward implementation in the field.</li> <li>The national team of CS2 submitted technical specification of drip irrigation to the PMU.</li> <li>Finalize the technical specification and Bill of Quantity and re-submit to the PMU for the Drip Irrigation.</li> </ul>	<ul style="list-style-type: none"> <li>It is in the stage of the procurement process.</li> </ul>
<b>Activity 1.2 Upgrading agricultural cooperative value chain infrastructure</b>				
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	<ul style="list-style-type: none"> <li>Field monitoring on the constructed warehouses in ACs.</li> <li>All 25 ACs construction have been completed during the reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>80 ACs Completed construction 100%</li> <li>Total 80 ACs</li> </ul>	<ul style="list-style-type: none"> <li>CS1-MAFF</li> <li>PPIUs Continue to follow up on the ACs</li> </ul>
1.d.2	Photo-Voltaic study and Installation (for energy efficiency measures and solar power)	<ul style="list-style-type: none"> <li>Follow up the agri-business and AC board members meeting with business owner participation</li> </ul>	<ul style="list-style-type: none"> <li>Supported PPIUs to conduct 1 AC board members meeting in Takeo with 50 participants in of which 17 are female to promote RET for agricultural sustainability, better incomes.</li> </ul>	<ul style="list-style-type: none"> <li>Supported PPIUs to conducted agri-business and AC board members meeting with business</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
	At least 10 agribusinesses become more resource-efficient in energy savings (20%)	<p>including female to promote RET for agri-cultural better incomes.</p> <ul style="list-style-type: none"> <li>○ Follow up with ACs board members who are interested in investing solar technologies.</li> <li>○ Follow up the screening potential agribusiness for green finance investment on Renewable Energy Technologies.</li> <li>○ Follow up with the selection of high and trusted Solar Technologies 4 companies for to install RET for agribusinesses and AC members.</li> </ul>	<ul style="list-style-type: none"> <li>○ Supported PPIUs to conducted 1 meeting with business owners in Takeo for 30 participants of which 6 are female to promote RET.</li> <li>○ Discussed with 40 ACs board members who are interested in investing solar technologies.</li> <li>○ Prepared Criteria and Guideline to screen potential agribusiness for green finance investment on Renewable Energy Technologies.</li> <li>○ Discussed with PPIUs to provided technical supports to PPIUs to screen 18 potential agri-business to finalize commercial for business support including Business Plan and link to project cooperate banks with Green Finance.</li> <li>○ Supported PPIUs to design Solar Technologies for Agribusiness investment options (6 technologies for AC members and business owners to invest for sustainable agriculture incomes.</li> <li>○ Supported AC board members, PADC and MEW to set up solar power rooftop signboards for operation and maintenance</li> <li>○ Supported PPIUs to select high and trusted Solar Technologies 4 companies for to install RET for agribusinesses and AC members.</li> <li>○ Supported PMU to produce technical specification for procurement process on solar water pump to demonstrate in 15 selected mango farms.</li> <li>○ Conducted workshop on Solar Technologies Investment with involvement of technology providers. The total participants are 86 persons in which 16 are females for innovation and practical of agriculture technical to disseminate RETs for agricultural production, processing and post-harvested handling.</li> <li>○ Participated Climate Change and Smart Agriculture and Green Financing Workshop in Svay Rieng.</li> <li>○ Conducted training for 86 in which 20 are female participants from 4 targeted provinces. The topic focus on Solar Technology used and exchange visit to explore with potential agribusiness and financial institutions.</li> <li>○ Supported PPIUs to conduct one training courses on Capacity Building, Solar Technologies Used for PPIUs TAK, TBK and KCM for</li> </ul>	<p>owners including female.</p> <ul style="list-style-type: none"> <li>○ Supported PPIUs to provide basic technical Operation and Maintenance O&amp;M operators on RET.</li> <li>○ Connected the interested AC members to solar technology providers.</li> <li>○ Developed criteria and steps to list potential ACs and agribusiness.</li> <li>○ 7 potential Agribusinesses and 11 ACs are listed consulted with PPIUs. The list will be applied for support including develop a bankable business plan.</li> <li>○ Solar technologies modules and packages to promote for AC members and agribusiness to invest.</li> <li>○ Signboards for operation and maintenance of solar rooftop operation and</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			<p>94/13F participants from AC members and PPIUs staffs.</p> <ul style="list-style-type: none"> <li>○ 80 AC Warehouses are completed build with Solar PV installed and able to save 100% energy cost for their daily operation. Provided technical support 59 ACs board members on operation for signboards and maintenance of solar power rooftop application.</li> <li>○ 3 Provincial Agriculture Development Center (PADC) built with Solar PV installed (3/4 completed built and installed- 75%)</li> <li>○ 3 Mechanization Engineering Workshop- (MEW) built with Solar PV installed (3/4 completed built and installed- 75%)</li> </ul>	<p>maintenance.</p> <ul style="list-style-type: none"> <li>○ Four high potential Solar Technologies company are introduced to PPIUs and AC members for further discussion.</li> <li>○ 3 potential solar technologies providers were invited to display their products and introduced their products, installation and services.</li> </ul>
	Equipment and materials for 15 Drip Irrigation Systems (includes tube wells/water source connection, solar pumps, and other agricultural inputs e.g. training)	<ul style="list-style-type: none"> <li>○ Reviewed solar technologies package for drip irrigation on mango demonstration.</li> </ul>	<ul style="list-style-type: none"> <li>○ Design a proper solar technology package for the implementing agency for further discussion.</li> </ul> <p>Technical specification and bill of quantity of equipment and materials for 15 Drip Irrigation Systems was prepared by involving with MAFF-PMU. IA-GDA, DTL and other relevant consultants.</p>	<ul style="list-style-type: none"> <li>○ Installation of equipment and tools are included.</li> </ul>
	<p>-Supply circulated cylinder dryers for the 100-ton warehouses (2 Units)</p> <p>-Supply electrical voltage transformer set for 2 Units circulated cylinder dryers</p>	<ul style="list-style-type: none"> <li>○ Actions to carry forward the following months</li> </ul>	<ul style="list-style-type: none"> <li>○ Ongoing progress</li> </ul>	<ul style="list-style-type: none"> <li>○ Installation of equipment and tools are included.</li> </ul>
<b>Activity 1.3 Improving Connectivity to Cooperatives and Market through climate resilient farm road networks:</b>				
1.c	At least 250 Km of Farm roads were upgraded to climate-resilient standards to improve Connectivity to Cooperatives and Markets	<ul style="list-style-type: none"> <li>○ Ongoing construction of 8 contracts</li> </ul>	<ul style="list-style-type: none"> <li>○ <b>Batch I-</b> (71 Km) with a total of 8 contracts has been completed construction 100%: <ul style="list-style-type: none"> <li>▪ 2 contracts for Takeo are 100% completed</li> <li>• 2 contracts for Kampot 100% completed</li> <li>• 2 contracts for Kampong Cham 100% completed</li> <li>• 2 contracts Tboung Khmum 100% completed</li> </ul> </li> </ul>	CS1 (MRD)

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			<ul style="list-style-type: none"> <li>○ <b>Batch II-</b> (100.12Km) with a total of 8 contracts are ongoing. <ul style="list-style-type: none"> <li>▪ 2 contracts for Kampot have been signed on 16 June 2023, the construction progress is 94.95%.</li> <li>▪ 2 contracts for Takeo have been signed on 3 February 2023, the construction progress is 90.89%.</li> <li>▪ 2 contracts for Kampong Cham have been signed on 16 June 2023, the construction progress is 64.22%.</li> <li>▪ 2 contracts for Tbong Khmum were signed on 22 September 23, the construction started on 01 July 2024, and the construction progress is 2.89%.</li> </ul> </li> <li>○ <b>Batch III-</b> (100.72Km) to be procured 81.36 km DED completed <ul style="list-style-type: none"> <li>▪ 1 package for Tbong Khmum was signed on 08 May 2024, and the construction is started on 01 July 2024. the construction progress is 2.05%.</li> <li>▪ 1 package for Kampong Cham has been advertised and is being bid for evaluation</li> <li>▪ 1 package for Kampot has been advertised and is being bid for evaluation</li> <li>▪ 1 package for Takeo has been advertised</li> </ul> </li> </ul> <p><b>Total planned 271.95 Km</b></p>	
<b>Activity 1.4 Strengthening Infrastructure for agricultural quality and safety testing at the National Agricultural Laboratory (NAL)</b>				
1.e	Crop product quality and safety testing infrastructure in the National Agriculture Laboratory upgraded	<ul style="list-style-type: none"> <li>○ Lab renovation: Daily operation by NAL.</li> <li>○ First batch of chemical reagents for biofertilizer laboratory is waiting for approval by PMU.</li> <li>○ Consumable materials and reagents is submitted to PMU and waiting for approval.</li> </ul>	<ul style="list-style-type: none"> <li>○ Lab renovation: 100% completed and daily operation by NAL.</li> <li>○ Net-house: 100% of completed construction and daily operation by NAL.</li> <li>○ First batch of equipment is processing by procurement of PMU.</li> <li>○ The list of consumable materials and reagents for quality testing of biofertilizer and organic fertilizer is submitted to PMU and waiting for approval.</li> </ul>	<ul style="list-style-type: none"> <li>○ Net House: is stilled waiting for water supply connection by KASEGRO Company.</li> <li>○ The procurement process has been completed, and the service provider will prepare all list of equipment on ship, then install them</li> </ul>



No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
				after lab renovation.
	Establishing genetically modified organisms (GMO) and Phytotoxin	<ul style="list-style-type: none"> <li>○ Continue to prepare manual of GMO sampling for NAL on-going.</li> <li>○ Continue to prepare manual of GMO detection by protein based for NAL on-going.</li> <li>○ Continue to prepare manual of GMO detection by DNA based for NAL on-going.</li> <li>○ Continue to prepare activities work plan of AWPB2025 for DTL and the project.</li> <li>○ Prepared training materials and sample test on real practice in Lab for NAL staffs.</li> </ul>	<ul style="list-style-type: none"> <li>○ National Workshop on GMO safety awareness among stakeholders, 2 courses total participant of 81 people and 32 people as females.</li> <li>○ Continue prepared the list of strip test kit for the GMO and phytotoxin.</li> <li>○ Continue prepare SOP of GMO sampling for NAL.</li> <li>○ Continue prepare SOP of GMO detection by protein based for NAL.</li> <li>○ Continue prepare SOP of GMO detection by DNA based for NAL.</li> <li>○ Continue revise the list of strip test kit for GMO and phytotoxin</li> <li>○ Conducted of Technical training on GMO and Phytotoxin Analysis, 1 course total participant of 13 people and 9 people as females (AWPB2023).</li> <li>○ Revised the list of strip test kit for GMO and phytotoxin.</li> </ul>	
	supporting ISO 17025 accreditation	<ul style="list-style-type: none"> <li>○ Continue to translate the draft of "laboratory Management System Manual"</li> <li>○ Continue to translate the example of SOP for moisture content analysis.</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the ISO 17025 accreditation guideline by IA-GDA, relevant stakeholders and publication of ISO 17025 guideline for distribute to relevant stakeholders.</li> <li>○ Dissemination workshop on ISO 17025 Accreditation Guideline for 1 course total participant of 36 persons and 8 persons as females.</li> <li>○ Draft document for Laboratory Management System Manual for supported ISO 17025 Accreditation Guideline.</li> <li>○ Conducting TWG meeting on ISO 17025 accreditation guideline, 4 courses total participant of 108 persons and 37 persons as females.</li> <li>○ Conducted Consultative workshop on ISO 17025 Accreditation Guideline for 3 course total participant of 89 persons and 25 persons as females.</li> <li>○ Science, Technology and Innovation (MISTI)</li> <li>○ Preparing a document for assessing laboratory to meet ISO 17025 criteria</li> <li>○ Meeting with NAL staff for getting understand their laboratory</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			situation and assess to their understanding of ISO 17025 <ul style="list-style-type: none"> <li>○ Joining workshop with specialist from Department of Accreditation (DA) which prepared by Royal University of Agriculture (RUA) to get more input for ISO 17025 application</li> <li>○ Preparing PPT file in Khmer language for consultative workshop on ISO 17025 guideline</li> <li>○ Conducting TWG meeting on guideline for ISO 17025 application</li> <li>○ Collecting material for Document and Record Management for Laboratory</li> <li>○ Preparing template for general SOP which is example for NAL</li> <li>○ Drafting the example list for Laboratory System Management Document for ISO 17025 accreditation laboratory (NAL case)</li> </ul>	
	Plant tissue culture (developing tissue culture protocols for banana and cassava)	<ul style="list-style-type: none"> <li>○ Conducting the Business Forum on Tissue Culture-Derived Plantlets of Cassava, 1 course with 48 participants (19 women).</li> <li>○ Continue to prepare procedure of Cassava Clean Seed production for NAL on tissue culture-derived seedlings of Cassava.</li> <li>○ Prepare main concept on plant tissue culture for field sampling of plant tissue culture for NAL.</li> <li>○ Prepare training materials for field sampling on plant tissue culture with NAL.</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the “Cassava plant tissue culture” manual by IA-GDA, relevant stakeholders and publication the cassava tissue culture guideline for distribute to relevant stakeholders.</li> <li>○ Conducting the Business Forum on Tissue Culture-Derived Plantlets of Cassava, 1 course with 48 participants (19 women).</li> <li>○ Dissemination workshop on Plant tissue culture development of manual, 1 course total participant of 36 persons and 14 persons as females.</li> <li>○ Conducted technical training (for NAL) on cassava plant tissue culture for 19 course total participant 228 and 171 as females.</li> <li>○ Finished the revision the final draft of “Cassava plant tissue culture” manual.</li> <li>○ Conducted consultative workshop on “Cassava plant tissue culture manual” development for 4 courses with 125 participants (44 women).</li> <li>○ Conducted TWG meeting on “Cassava plant tissue culture” manual for 4 meeting with 87 participants (43 women).</li> <li>○ Conducted Consultative workshop on development of Cassava plant tissue culture manual, 4 courses total participant of 103 people and 41 people are females.</li> <li>○ Develop training flip chart on “Cassava plant material collection for multiplication via tissue culture”</li> <li>○ Conducted of Field Sampling for Plant Tissue Culture (Cassava, Banana and ornamental plant) to Kampong Cham, Tboung Khmum, Takeo and Kampot Province, 2 courses total participant of 22 people and 16 people as females.</li> <li>○ Conducted of Oversea Training on Plant Tissue Culture, for 1</li> </ul>	<ul style="list-style-type: none"> <li>○ Waiting input to continue the activities</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
	Assisting the laboratory commercialization process	<ul style="list-style-type: none"> <li>○ Co-conducting the Business Forum on Tissue Culture-Derived Plantlets of Cassava, 1 courses with 48 participants (19 women).</li> <li>○ Meeting with Lab Coordinator to prepare and calculate the production cost and price of cassava plantlets of G1 generation.</li> <li>○ Conducting Field visiting to share knowledge on Cassava seed production, and to promote commercialization opportunities among Agricultural cooperatives and Farmers in Kampong Cham.</li> </ul>	<p>course total participant of 4 person and 4 person as females.</p> <ul style="list-style-type: none"> <li>○ Co-conducting the Business Forum on Tissue Culture-Derived Plantlets of Cassava, 1 courses with 48 participants (19 women).</li> <li>○ Completed technical training on Laboratory commercialization and service marketing for NAL's staff for 1 training with 18 participants (13 women).</li> <li>○ Completed two trainings on laboratory commercialization and service marketing for PDAFF and ACs from Kampong Cham, Tboung Khmum, Takeo and Kampot provinces at Kampong Cham and Kampot (a total of 62 participants joined the training, of whom 12 were women).</li> <li>○ Finalized the assessment of analysis/testing capacities of other laboratories in Cambodia.</li> <li>○ Held Discussion with NAL's coordinator and tissue culture development specialist to determine primarily the price of rooting-plantlets of cassava.</li> <li>○ Completed reviewing related documents on Seed Policy for Cambodia (Adopted in December 2016), Law on Biosafety in Cambodia (enacted by parliament on December 18, 2007), and The Enacted Law on Seed Management and Plant Breeder's Rights (adopted by the parliament on April 08, 2008).</li> <li>○ Continuing review on related documents, including "The legal framework on modern biotechnology developed by Codex Alimentarius Commission- FAO/WHO intergovernmental body", "The Biosafety Regulations for GMO Crop in Asia-Pacific", and "The Guideline and SOPs for GMO Field Trial and Safety Assessment".</li> </ul>	
	Supply analytical testing equipment	<ul style="list-style-type: none"> <li>○ All Lab equipment will be considered to procure limited quantities of supplies.</li> </ul>	<ul style="list-style-type: none"> <li>○ Bid Evaluation Report (BER) for previous NCB equipment, ongoing</li> </ul>	<ul style="list-style-type: none"> <li>○ Wait for the procurement update the progress.</li> </ul>
	Bio-fertilizer / Organic fertilizer (Pesticide residue rapid test kits for field testing and desktop testing equipment for plant toxins will also be supplied)	<p style="text-align: center;"><b><u>Technical training to NAL staff and PDAFF staff</u></b></p> <ul style="list-style-type: none"> <li>• Continue to prepare training materials, training document and sample collection materials for NAL's staff</li> </ul> <p><u>Develop manual:</u></p>	<p style="text-align: center;"><b><u>Technical training to NAL staff and PDAFF staff</u></b></p> <ul style="list-style-type: none"> <li>○ Endorsed the "SOP for organic and bio fertilizer Quality Testing Manual" by IA-GDA, relevant stakeholders and preparing the publication the organic and bio fertilizer Quality Testing Manual for distribute to relevant stakeholders.</li> <li>○ Field Sampling for Bio-fertilizer/Bio-Pesticide and Organic fertilizer 1 course participant of 10 people and 4 females.</li> <li>○ Technical training on Biofertilizer/pesticide and organic fertilizer for 11 training with 187 participants (98 women).</li> </ul>	<ul style="list-style-type: none"> <li>○ Waiting input to continue the activity.</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		Quality testing manual of Biofertilizer and Organic fertilizer whole completed and submitted to procurement for printing requested.	<ul style="list-style-type: none"> <li>○ Prepare the training posters on sampling and handling techniques of biofertilizer and organic fertilizer for quality testing in lab to PPIU staffs.</li> <li>○ Refresh training to PPIU TK and KPT on the procedure for sampling and preparation of organic fertilizer and biofertilizer</li> </ul> <p style="text-align: center;"><u>Develop manual:</u></p> <ul style="list-style-type: none"> <li>○ Conducted Dissemination workshop on “National guideline for products of Biofertilizer and Organic Fertilizer at National Level”, 1 course total participant of 36 people and 14 females.</li> <li>○ Conducted Raising awareness workshop on “Law of Fertilizer and Pesticide Management at National Level”, 1 course total participant of 37 people and 05 females.</li> <li>○ Dissemination workshop on National Guideline for products of Biofertilizer and Organic Fertilizer and Bio-Pesticide at provincial level for Takeo and Kampot for 1 course, total participant 39 people and 17 females.</li> <li>○ Dissemination workshop on National Guideline for products of Biofertilizer and Organic Fertilizer and Bio-Pesticide at provincial level for Kampong Cham and Tboung Khmom, 1-course total participant of 39 people and 17 people as females.</li> <li>○ Dissemination workshop on National Guideline for products of Biofertilizer and Organic Fertilizer and Bio-Pesticide at national level, for 1-course total participant of 37 people and 14 people as females.</li> <li>○ Conducted dissemination workshop on SOP for organic fertilizer Quality Testing Manual, 1-course total participant of 28 people and 9 people as females.</li> <li>○ Conducted dissemination workshop on SOP for Biofertilizer Quality Testing Manual, 1-courses total participant of 36 people and 11 people as females.</li> <li>○ Conducted TWG meeting on the development of SOP for Organic fertilizer quality Testing, 6-course total participant of 153 people and 62 people as females.</li> <li>○ Conducted Consultative workshop on SOP for Biofertilizer Quality Testing Manual, 3-courses total participant of 92 people and 28 people as females.</li> <li>○ Conducted Consultative workshop on SOP for Biofertilizer Quality Testing Manual, 2-courses total participant of 57 people and 16</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			people as females. ○ Developed draft manual on SOP for quality testing of organic fertilizer: completed (8th revision)	
<b>Activity 1.5 Promoting renewable energy (bio-digesters and use of solar energy in target cooperative areas) for value chain improvement:</b>				
1.f1.	6,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	<u>Bio-digester:</u> <ul style="list-style-type: none"> <li>○ Ongoing works to follow up on the activities under the research, development, pilot and functioning use of the bio-digester.</li> <li>○ Refresher training of trainer on biogas plant, bio-slurry use and management for extension 2 course=44/5 are female.</li> <li>○ Small group meeting for extension &amp; seeking the interest clients 107meetings=3,011/1,479 are female.</li> <li>○ Provincial monthly Progress meetings 3meetings=43/12 are female.</li> </ul>	<u>Bio-digester:</u> <ul style="list-style-type: none"> <li>○ 49,192 farmers (female =23,317 (47%) as compare with the DMF=122.23%) have been trained and received information about Biodigester in Training &amp; Capacity Building, Promotion &amp; Marketing, Monitoring &amp; Evaluation and Innovation &amp; Value Chain Improvement activities.</li> <li>○ The project identified 4,156 farmers of which 2,087 farmers are female for the potential to build the Biodigester.</li> <li>○ The key farmer who has intended to buy ongoing 29% (1,753 HHs)</li> <li>○ The key farmer who has an interest: ongoing 9.96% (598 HHs).</li> <li>○ Research, development, pilot, and use of the biodigester:</li> <li>○ 179 biodigesters construction completed and functioning with (716 beneficiaries (430 Female).</li> </ul>	<ul style="list-style-type: none"> <li>○ According to the ADB-MTR has decided to reduce the target for biodigesters from 12,000 to 6,000 while maintaining the target of 6,000 compost huts which are constructed along with biodigesters, the Mission agreed with the PMU's proposal to change the procurement method from NCB to shopping and given the higher contribution by the project for biodigesters and compost huts.</li> </ul>
1.f2.	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	<u>Compost-hut:</u> <ul style="list-style-type: none"> <li>○ Ongoing works to follow up on the activities under the research, development, pilot and functioning use of the compost hut.</li> <li>○ Refresher training of trainer on biogas plant, bio-slurry use and management for extension 2 course=44/5 are female.</li> </ul>	<u>Compost-hut:</u> <ul style="list-style-type: none"> <li>○ 49,192 farmers (female =23,317 (47%) as compare with the DMF=122.23%) have been trained and received information about Compost hut in Training &amp; Capacity Building, Promotion &amp; Marketing, Monitoring &amp; Evaluation and Innovation &amp; Value Chain Improvement activities.</li> <li>○ The project identified 4,156 farmers of which 2,087 farmers are female for the potential to build the Compost hut.</li> <li>○ The key farmer who has intended to buy ongoing 29% (1,753 HHs)</li> <li>○ The key farmer who has an interest: ongoing 9.96% (598 HHs).</li> <li>○ Research, development, pilot, and use of the compost:</li> <li>○ 179 compost hut construction completed and functioning with (716</li> </ul>	<ul style="list-style-type: none"> <li>○ According to the ADB-MTR has decided to reduce the target for biodigesters from 12,000 to 6,000 while maintaining the target of 6,000 compost huts which are constructed along with biodigesters, the Mission agreed with the PMU's proposal to change the</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ Small group meeting for extension &amp; seeking the interest clients 107meetings=3,011/1,479 are female.</li> <li>○ Provincial monthly Progress meetings 3meetings=43/12 are female.</li> </ul>	<ul style="list-style-type: none"> <li>○ beneficiaries (430 Female).</li> <li>○ Support input for integrated farming demonstrations: 128 demonstrations and training were completed with 432 participants (256F)</li> <li>○ 51 demonstration farmers and training have not yet started</li> </ul>	procurement method from NCB to shopping and given the higher contribution by the project for biodigesters and compost huts.
	Establish a national framework on biodigester quality (standard development) and harmonize biogas initiatives in a private sector-friendly manner.	<ul style="list-style-type: none"> <li>○ Prepared concept notes and plan to conduct a dissemination Workshop on the National Biodigester Policy in Cambodia.</li> <li>○ Worked on a Draft of Cambodian Domestic Biodigester Standard for Farmer's Friend Biodigester.</li> </ul>	<ul style="list-style-type: none"> <li>○ Policy on Biodigester Development in Cambodia 2021-2030, issued on 26 October 2021 by MAFF.</li> <li>○ Draft Cambodian Domestic Biodigester Standard for Farmer's Friend Biodigester.</li> </ul>	
<b>Output 2: Climate-smart agriculture and agribusiness promoted</b>				
<b>Activity 2.1 Deploying climate-resilient varieties</b>				
2.a	3 Additional climate-resilient varieties of rice and maize released	<p>In this month CARDI's activities:</p> <ul style="list-style-type: none"> <li>• Last 10 on-farm adaptive trial on promising line (being conducted in Tbong Khmum, Kampong Cham, Kampot and Takeo in collaboration with farmer and PDAFF officers).</li> <li>• 5 more on field demonstration of Champei Sar-70 rice variety (were broadcasting in Tbong Khmum and Kampot. Currently, plant are in tillering stage.)</li> <li>• Last one more on rapid multiplication of disease free planting materials of cassava</li> <li>• 4 training courses (100p/45f) on rice seed production technology and follow up to farmer group.</li> <li>• One progress of training of trainers (22p/5f) on rice seed production</li> </ul>	<ul style="list-style-type: none"> <li>○ One variety named <b>Phka Rumduol</b> was started to release since 1999. The project was selected this variety (medium maturity) to conduct the rice seed demonstration production in target province. <ul style="list-style-type: none"> <li>- Tolerance biotic stress: Submergence 13days</li> <li>- Resistance biotic stress: Brown Plant Hopper susceptible</li> </ul> </li> <li>○ The Rice Seed Variety named <b>CAR-16</b> has been released in 2016 before the project started and the CARDI facilitated to conduct demonstration to disseminate in targeted provinces. <ul style="list-style-type: none"> <li>- Tolerance biotic stress: Heat tolerance</li> <li>- Resistant to blast disease.</li> <li>- Potential characteristics: Early rice variety</li> </ul> </li> <li>○ Rice seed varieties, named <b>Phka Mealdey</b> (PMD) was release in 2018 during the project start the early stage. <ul style="list-style-type: none"> <li>- Tolerance biotic stress: Drought submergence and lodging tolerance</li> <li>- Potential characteristics: Medium maturity</li> </ul> </li> <li>○ The new variety of <b>Champeisar70</b> are released in 2023 for farmers'</li> </ul>	<ul style="list-style-type: none"> <li>○ Rice Seed released:</li> <li>○ 1) CAR16: released 2016</li> <li>○ 2) PHKA RUMDUOL released 1999</li> <li>○ 3) PHKA MEALDEY released 2018</li> <li>○ 4) Champeisar 70 released 2023</li> <li>○ Maize seed released</li> <li>○ 1) CM1 released 2015 (from CARDI)</li> <li>○ 2) CHM01 released 2020 (from GDA)</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		technology for PDAFF staff and Commune Agricultural Officers.	<p>demonstration in CFAVC Project (Foundation seed from CARDI)</p> <ul style="list-style-type: none"> <li>- Potential characteristics: It is a light and fragrant rice variety that can have a high market price, early rice variety and aromatic.</li> <li>- Resistance biotic stress: Brown Plant Hopper (BPH) and Blast resistance</li> </ul> <p>Currently, CARDI is developing rice varieties for high yield, good grain quality and resilience to climate change. The series of activities includes, advancing generation in CARDI and multi-location trials in collaboration with PDAFF staff.</p> <ul style="list-style-type: none"> <li>o Maize variety named <b>CM1</b> was selected from Germplasm collection (Sa Ang district Kandal Province) is a one glutinous maize variety have been released in 2015 before project started and then, CARDI conducted demonstration in targeted provinces.</li> <li>o Maize variety named <b>CHM01</b> was released in 2020 (seed from Banteaydek station, GDA). The CHM01 seed has potential characteristics such as: <ul style="list-style-type: none"> <li>- Highly resistant to Downy Mildew</li> <li>- Harly maturity (100 days to 105days harvestable)</li> </ul> </li> <li>o Any way CARDI has progress of implementation such as; <ol style="list-style-type: none"> <li>1) 4/4=100% of Advancing rice generation</li> <li>2) 6/6=100% of Multi-location trial of rice (pop. PRD/CAR11, PRD/RCH, SPD/SKO-01, CAR15/pi21)</li> <li>3) 5/5=100% of Multi-location trial on cassava for high root and starch yield ( New Material from CIAT and CARDI's Mutant)</li> <li>4) 20/20=100% of On-farm adaptive trial on promising line</li> <li>5) 15/15=100% of On-farm adaptive trial on CMD-resistant cassava (IITA lines)</li> <li>6) 10/20=50% of Field demonstration of Champei Sar-70 rice variety</li> <li>7) 3/3=100% of Seed increase of rice promising line</li> <li>8) 2/3=67% of In-vitro multiplication and maintenance of cassava mother plant</li> <li>9) 2/2=100% of Plantlet hardening and maintenance of cassava in greenhouse.</li> <li>10) 5/5=100% of Seed Multiplication of pre-released cassava line</li> </ol> </li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			(CMD resistance) 11) 2/2=100% of Rapid multiplication of disease free planting materials of cassava 12) 2/2=100% of Rice Seed Production of BS Seed Production of PMD, PRD, CAR16 and Champei Sar70. 13) 8/8=100% of Rice Seed Production of FS Seed Production of PMD, PRD, CAR16 and Champei Sar 70 14) 40/44=90%(1021p/476f) of Training course on rice seed production technology and follow up to farmer group. 15) 88/127=69%(2200p/1063f) of Training of farmers on best management practice (BMP) of rice, cassava, and maize production 16) 8/8=100%(200p/90f) of Training of farmers on clean seed cassava production using rapid multiplication method 17) 1/2 =50%(22p/5f) of Training of trainers on rice seed production technology for PDAFF staff and Commune Agricultural Officers 18) 2/2=100%(45p/12f) of Training of trainers on best management practice (BMP) of rice cassava, and maize production for PDAFF staff and Commune Agricultural Officers.	
<b>Activity 2.2 Strengthening Capacity in climate-friendly production practices and technologies:</b>				
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	Regarding reinforcing proficiency in climate-friendly production practices and technologies, the progress in the training of trainers (TOT), refresher courses, and educational sessions for farmers on topics like CSA, SRP, CamGAP, and business development plans have moved forward as follows: <b>Training of Trainers (TOT):</b> <ul style="list-style-type: none"> <li>1 course of training of trainers on rice seed production technology for PDAFF. Total participants 22, female 5, equal to 23%.</li> <li>1 course of training of trainers on CamGAP for provincial trainers. Total participants 24, female 8, equal to 33%.</li> </ul>	<ul style="list-style-type: none"> <li><b>23,930 farmers</b> of which <b>11,081</b> were <b>female (46%)</b> trained on CSA, SRP, CamGAP, ACs business development plan (for ACs boards) landscape restoration (farm mechanization), dissemination workshop, best management practice and rice seed production techniques and follow up. The accumulate progress of Farmers trained in Climate-smart Agriculture and agribusiness development skills are:               <ul style="list-style-type: none"> <li>The training of farmers on Climate Smart Agriculture (CSA) was trained 5,682 persons of which 3,055 are females 54%.</li> <li>The training of farmer on Sustainable Rice Production (SRP) was trained 8,152 of which 4,694 are females (58%).</li> <li>6 training of farmers, ACs and farmer group for Contract farming. Total participants 175, female 80, equal to 46%.</li> <li>The training of farmer on ACs boards on ACs business development was trained 2,807 of which 746 are females (27%).</li> <li>The training of farmers on CamGAP was trained 848 farmers of which 352 are females (42%).</li> <li>Training of farmers on landscape restoration (farm mechanization)</li> </ul> </li> </ul>	<b>Previous number:</b> <ul style="list-style-type: none"> <li><b>22,985 farmers</b> of which <b>10,584</b> were female (46%)</li> </ul> <b>New Added:</b> <ul style="list-style-type: none"> <li>SRP, total 720, female 400, equal to 56%.</li> <li>Contract farming. Total 50, female 23, equal to 46%.</li> <li>Training of farmers on rice seed production techniques and follow up, total farmers 100, female</li> </ul>



No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>• 2 courses of training of trainers on Inspection and Certification on Good Agricultural Practices (CamGAP). Total participates 56, female 15 = 27%.</li> </ul> <p><b><u>Training of farmers on CSA, SRP, CamGAP, Contract Farming, and...</u></b></p> <ul style="list-style-type: none"> <li>• Training of farmers courses on climate smart agriculture (CSA) for rice, cassava, maize conducted as follows:               <ul style="list-style-type: none"> <li>✓ 17 courses progress to event 2 by PPIU/TAK&amp;KPT. Total participants 510, female 312, equal to 61%</li> <li>✓ 16 courses progress to event 3 by PPIU/KCM&amp;TBK. Total participants 480, female 183, equal to 38%</li> <li>✓ 10 courses progress to event 4 by PPIU/KCM&amp;TBK. Total participants 300, female 108, equal to 36%</li> <li>✓ 5 courses progress to event 5 by PPIU/KCM. Total participants 150, female 64, equal to 43%</li> </ul> </li> <li>• Training of farmers courses on sustainable rice production (SRP) conducted as follows:               <ul style="list-style-type: none"> <li>✓ 24 courses conducted in 4 target provinces. Total participants 720, female 400, equal to 56%.</li> <li>✓ 15 courses progress to event 2 by PPIU/TAK&amp;KPT. Total</li> </ul> </li> </ul>	<p>was trained 2,624 farmers of which 757 are females (29%).</p> <ul style="list-style-type: none"> <li>• The workshop/training on contract farming and dissemination on procedure for seed registration and certification, quality declare seed and seed law and regulation was trained 821 persons of which 210 are females (26%).</li> <li>• The training of farmers of best management practice (BMP) was trained 1,200 farmers of which 611 are females (51%).</li> <li>• The training of farmers on rice seed production techniques and follow up was trained 764 farmers of which 343 are females (45%).</li> <li>• Training of farmers on clean seed cassava production using rapid multiplication method. The total is 100 of which 49 are females (49%).</li> <li>• National training and exchange visit on extension of adaptation techniques to climate change. Total 152/45F.</li> <li>• National training and exchange visit on extension for innovation and practical of agriculture technical. Total 166/50F.</li> <li>• The forums on multilateral matching platform on various condition and workshops on verification workshop on the result of contract farming with a total of 320 participants, 68 females.</li> <li>• The dissemination workshops with stakeholders on Agro-Industrial Development Strategies for climate-friendly agribusiness with a total of 119 participants, 21 females.</li> </ul>	<p>45, equal to 45%.</p> <ul style="list-style-type: none"> <li>• Landscape Restoration. Total 75, female 29, equal to 39%.</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<p>farmers 450, female 248, equal to 55%.</p> <ul style="list-style-type: none"> <li>✓ 19 courses progress to event 3 by PPUI/TAK&amp;TBK. Total participants 570, female 295, equal to 52%.</li> <li>• Training of farmer groups on Contract farming conducted as follows: <ul style="list-style-type: none"> <li>✓ 2 training conducted by PPIU/KPT. Total participants 50, female 23, equal to 46%.</li> </ul> </li> <li>• On Landscape Restoration (Farm Mechanization): <ul style="list-style-type: none"> <li>✓ 2 training courses conducted in Takeo and Kampot by Department of Agriculture Engineering (DAEng). Total participants 50, female 25, equal to 50%.</li> <li>✓ 1 course of training of farmers on Operation and Maintenance (O&amp;M) of Agricultural Machinery conducted by PPIU/TBK. Total participants 25, female 4 (16%).</li> </ul> </li> <li>• CARDI: <ul style="list-style-type: none"> <li>✓ 4 training courses on rice seed production technology and follow up conducted for farmer groups in 4 targeted provinces. Total farmer 100, female 45, equal to 45%.</li> </ul> </li> </ul>		
	Support laser land leveling up to 3,000 ha	<ul style="list-style-type: none"> <li>• Last identify 352ha during the reporting period with following</li> </ul>	<ul style="list-style-type: none"> <li>• Identified 3,000 hectares with 5727 HHs/1733 F</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
	(approximately 750 ha per province)	progress for field identifying: <ul style="list-style-type: none"> <li>○ Takeo: 91Ha</li> <li>○ Kampot: 106Ha</li> <li>○ TBK: 155Ha</li> </ul>	(14 FWUCs and 19 ACs, with 32 villages, 27 communes, 18 districts and 4 provinces) such as: <ul style="list-style-type: none"> <li>○ <b>Takeo: 1,143.83Ha with 1,911HHs(526F)</b></li> <li>○ <b>Kampot: 467.49Ha with 1,205 HHs(413F)</b></li> <li>○ <b>Kampong Cham:838.11 Ha with1,634 HHs(466F)</b></li> <li>○ <b>Tboung Khmum: 550.57Ha with 977 HHs (328F)</b></li> <li>• Proposed in bidding document (request for quotation) with <b>372.58 ha</b> submitted to ADB of landholding assessed and mapping. Tender documents was submitted to ADB and waiting for NOL.</li> </ul>	Based on minutes of Meeting with ADB and MAFF-PMU on CS3 Package <ul style="list-style-type: none"> <li>○ Dated: 02 August 2023 ,through the virtual Zoom Meeting propose to change the procurement procedure from NCB to shopping</li> </ul>
	conduct "learning by doing" training by demonstrating and training in farmer fields in specific locations with three sites in each province	<ul style="list-style-type: none"> <li>○ Monitor and field coaching key farmer for rice, cassava and maize seed demonstration in the field with PPIU for 2024 in 4 target provinces on:               <ul style="list-style-type: none"> <li>▪ 43/(20f) of key farmers were sowing for rice seed demonstration production.</li> <li>▪ 30/(22f) of key farmers were transplanting for rice seed demonstration production.</li> </ul> </li> </ul> <p>Cassava seed demonstration production(2024)</p>	<p>Rice seed demonstration production (2020-2024)</p> <ul style="list-style-type: none"> <li>▪ 401/(180f) Key famers demonstration</li> <li>▪ Name of seed: PRD, PMD and CAR16 and Champeisar70 and Sen Kra Ob 01 (Foundation seed from CARDI)</li> <li>▪ Seed distribution to key farmers(Foundation seed from CARDI)=5,060kg:</li> <li>▪ Surface: 95.54ha</li> <li>▪ Farmers demo:311p/145f</li> <li>▪ Average yield 3.98T/ha</li> <li>▪ Number seed produced: 262.497kg</li> <li>▪ Number seed multiplication to communities: 94.682kg (for all target provinces)</li> </ul> <p>Rice seed production demonstration 2024</p> <ul style="list-style-type: none"> <li>▪ Selected key farmers for rice seed demonstration production(2024)=90(39f)</li> <li>▪ 86/(39f) of key farmers were sowing for rice seed demonstration production.</li> <li>▪ 65/(39f) of key farmers were transplanting for rice seed demonstration production.</li> </ul> <ul style="list-style-type: none"> <li>▪ Cassava seed demonstration production(2021-2024)</li> <li>▪ Name of seed: 81,Rayong9, Hautybong60, KU50, (from</li> </ul>	Notes from the filed demonstration: <ul style="list-style-type: none"> <li>- 81 varieties, have the highest resistance to mosaic disease and high yields, farmers are highly interested.</li> <li>- Rayong-9, varieties are resistant to mosaic disease, moderate and high yielding,</li> <li>- Huay Bong-60, varieties that resist low mosaic disease and high yield.</li> <li>- KU 50, it's a high-yielding cassava variety. It is well adapted to a wide range of growing conditions, has a low impact on soil quality, and provides a high starch content.</li> <li>- Maize crop is more suitable for the dry</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>▪ Just monitoring and coaching with 15 farmers on the field</li> </ul> <p>Maize seed demonstration progressed in month as below:</p> <ul style="list-style-type: none"> <li>▪ Maize seed demonstration production (2024) will plant in November.</li> </ul>	<p>Chamkaleu station)</p> <ul style="list-style-type: none"> <li>▪ Farmers demo: 82/37f</li> <li>▪ Surface: 82ha (2020-2023)</li> <li>▪ Average yield 31.5T/ha (2021-2022)</li> <li>▪ Number cassava seed multiplication to communities: 10,000 bundles (at least 40ha).</li> </ul> <p>Cassava seed demonstration production (2024)</p> <ul style="list-style-type: none"> <li>▪ Selected key farmers for cassava seed demonstration=30(12f)</li> </ul> <p>Maize seed demonstration production (2022-2024)</p> <ul style="list-style-type: none"> <li>▪ Name of seed: CHM01 and CM1 (CHM01 from Banteaydek station/GDA and CM1 seed from CARDI)</li> <li>▪ Farmers demo: 75/34f</li> <li>▪ Surface: 37.5ha</li> <li>▪ Average yield 5.12T/ha</li> <li>▪ Many people interesting and need seed(CHM01) distribution to community.</li> </ul>	<p>season than the rainy season, both in terms of growth and yield, short life span, and fruit size, similar to other varieties, farmers are interested in during the dry season. Challenges: Corn kernels are larger than other varieties and less resistant to some herbicides.</p>
2.c.1	27 FWUCs of FWUGS made full operational	<ul style="list-style-type: none"> <li>○ Dissemination on Prakas 306 to Sdok Sab and Ta Oum FWUGs members;</li> </ul>	<ul style="list-style-type: none"> <li>○ 17 FWUCs/FWUGs completed 100%.</li> <li>○ 2 FWUCs and 4 FWUGs completed 12.50%, (Meeting with local authority and dissemination sub-degree 31 to beneficiaries).</li> </ul>	<p>There are 2,190 participants of whom 829 were women in the events.</p>
2.c.2	500 Farmer Water User Communities (FWUCs) and Farmer Water User Groups (FWUGs) representatives developed the capacity to operate and maintain their irrigation schemes	<ul style="list-style-type: none"> <li>▪ Administrative task provided for daily coaching and mentoring to Kbal Teuk FWUC</li> </ul>	<ul style="list-style-type: none"> <li>○ 369 FWUCs of whom 108 were women.</li> <li>○ 162 courses provided to 6,299 FWUCs/ FWUGs representatives and local authorities of whom 1,737 were women.</li> </ul>	<p>No progress on training achievement during reporting period. DFWUC team was busy with other commitments.</p>

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
<b>Activity 2.3 Promoting farm mechanization and extension.</b>				
2.d.1	4 Agricultural development centers were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> <li>○ Waiting the NOL for procurement plan and construction plan for one PADC.</li> </ul>	<ul style="list-style-type: none"> <li>▪ 3 PADCs building were 100% of completed construction and fully operated the activities.</li> <li>▪ PMU completed the technical specification and BOQ of PADC for more process.</li> </ul>	
2.d.2	4 Engineering workshops were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> <li>▪ Waiting the NOL for procurement plan and construction plan for one engineering workshops.</li> <li>▪ Other Items of training equipment: Visit the Mechanical Workshop at province</li> </ul>	<ul style="list-style-type: none"> <li>▪ 3 Engineering workshops were 100% of completed construction and fully operated the activities.</li> <li>▪ PMU completed the technical specification and BOQ of mechanical workshop building and equipment for more process.</li> </ul>	
<b>Output 3: Enabling environment for climate-friendly agribusiness enhanced</b>				
<b>Activity 3.1: Formulating climate-friendly agribusiness policies and standards:</b>				
3.a	Policy on Climate Smart and Gender Responsive Agribusiness and PPP Framework formulated	<ul style="list-style-type: none"> <li>- PPP specialist on duty and work closely with key relevant sectors (Pending)</li> <li>- Reviewing and gathering inputs for the 4<sup>th</sup> drafted version of the Guideline to link with private sector engagement with the agriculture sector.</li> <li>- Discussed with PPP specialist to update the Guideline and next steps to finalize.</li> </ul>	<ul style="list-style-type: none"> <li>○ PPP specialist on developing process framework with key relevant sectors.</li> <li>○ Development of Producer Group Establishments Guideline Linked with Private Sector to the Market: completed (4<sup>th</sup> draft revision) to achieve the agribusiness group of contract farming</li> </ul>	PPP framework is on gathering relevant information from involved stakeholders.
3.b	Good Agriculture Practice for Tropical Fruit Endorsed (CamGAP)	<ul style="list-style-type: none"> <li>○ Orientation meeting on the use of the tropical fruit CamGAP standard reviewing and field monitoring on the CamGAP standard for the mango farm at KPT, TKP, TBK and KCM. Total 35 persons/21 are female.</li> <li>○ Conduct field monitoring and coaching CamGAP standard for mango. Total 28 farmers/16 farmers are female.</li> </ul>	<ul style="list-style-type: none"> <li>○ Tropical Fruit CAMGAP Standards on mango was endorsed by IA-GDA by involving with relevant line department and CS2 team with progress of 100% after collecting the inputs and consultation workshop and ready for publication to distribute with stakeholders.</li> <li>○ The meeting with technical working group of the development of CamGAP standard. The total participants are 100 persons of which 29 are females.</li> <li>○ The meeting for the development of the tropical fruit CamGAP standard reviewing on Mango. The total participants are 84 persons of which 17 are females.</li> <li>○ Project conducted public consultation workshop with stakeholders to</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ Field monitoring training to farmers on CamGAP standard at KCM, TBK, TKP and KPT. Total: 45 farmers/ 21 are female.</li> </ul>	<ul style="list-style-type: none"> <li>○ review and endorsement of CamGAP Standards. The total participants are 74 persons of which 20 are females.</li> <li>○ Orientation meeting to make awareness to PPIUs staff and AC boards and members on agri-business applied farm inspection and CamGAP standard and seeking inform and feedback on CamGAP training and activities. A total participant: 496 persons/ 257 are female.</li> <li>○ The fieldwork and monitoring the training of farmers has been visited at the mango farms, support technical standard for the CamGAP, improvement practical and technical support on farm management based on the market to 266 persons/ 129 are female based on the standard requirement.</li> <li>○ Field monitoring training to farmers on CamGAP standard at KPC, TBK, TKP and KPT. Total: 45 farmers/ 21 are female.</li> </ul>	
3.c	Good Agriculture Practices for organic fertilizer endorsed	<ul style="list-style-type: none"> <li>○ On-going work to review the biofertilizer standard developments and effective use after endorsement.</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the “SOP for organic fertilizer Quality Testing Manual” by IA-GDA, relevant stakeholders.</li> <li>○ Technical specification was prepared and make the publication the organic fertilizer guideline for distribute to relevant stakeholders.</li> </ul>	<b>Waiting input to continue the activity.</b>
<b>Activity 3.2 Promoting green finance and risk sharing mechanisms:</b>				
3.d	50 Staff from financial institutions trained in CSA and green finance	<ul style="list-style-type: none"> <li>○ Follow up the ARDB after discussing on the field visit of the Green Financing Facility Team to conduct site visit to Agriculture Cooperative (ACs) to deeply understanding on the ACs and to set up criterial for concessional loan from Green Climate Fund.</li> <li>○ Continue working ABC to follow up on the capacity building to training the local bank and MFI which may take place at Q4 2024.</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified: 50 Bank/MFI are initially identified with the list of banks for the target of CSA and green financing.</li> <li>○ Training on the cause and impact of Climate Change to PDAFF, Banks and MFIs. The total participants are 94 persons including 44 staffs/18 are females from banks and MFIs are invites and introduce CSA and green financing. The training was focused on the climate risks, impact, causing and adaptation and mitigation actions and access to the Cambodia Green Financing Facility which are implementing by ARDB and Environment and Social Governance (ESG) principle which are facilitate by Association Bank of Cambodia.</li> <li>○ The training on Climate Change and Green Financing to provincial bank/MFI, PDAFF and Agriculture Community. The total participants are 159 persons including 12 staffs/02 are females from banks and MFIs are invites in this training on CSA and green financing.</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			<ul style="list-style-type: none"> <li>○ TNA: was completed and oriented.</li> <li>○ Training development plan: ongoing 80%</li> <li>○ Development of training Materials: ongoing 100%</li> <li>○ Delivery training: 5 training courses with ACLEDA and ARDB.</li> <li>○ Development of green finance landscape report: completed drafted.</li> <li>○ National Consultation on report: draft concept notes completed.</li> <li>○ Engaged with green financing facility establishment (MOE/ARDB/NBC/Mekong Strategy Partners progressed) and waiting GCF reviewing and approval.</li> <li>○ Consultation on Green Financing with ARDB and ACLEDA.</li> <li>○ Total 68 staff from the Associate Banks of Cambodia (ABA), Banks, Micro Financial Institutions, and ARDB of which 20 were trained in the Climate Smart Agriculture and green financing.</li> </ul>	
3.e	30 agribusinesses trained in green finance and CSA	<ul style="list-style-type: none"> <li>○ Sharing presentation, the green finance and risk sharing for climate change for training of trainer on Maize growing adapt to climate change.</li> <li>○ Sharing presentation, the green finance and risk sharing for climate change for training of trainer on Cassava seed selection adapt to climate change.</li> <li>○ Sharing presentation, the green finance and risk sharing for climate change in a consultation workshop to review the climate smart agriculture manual on Rice and Maize.</li> </ul>	<ul style="list-style-type: none"> <li>○ 30 Agribusinesses identified the potential agri-business initiative.</li> <li>○ TNA: ongoing 50%</li> <li>○ Development and reviewing of training Materials: ongoing 70%</li> <li>○ Develop the climate change training material</li> <li>○ Conducted 2 training on Climate Change, Green Financing, and Climate Smart Agriculture to 77 participants including 17 women for PPIUs, Bank, MFI, ARDB, and ACs in four provinces.</li> <li>○ 6 Agribusinesses (most of them are males) such as 3 agribusiness from Sok Keo and Golden Rice from TAK and Amru Rice from KPT, 3 agribusiness from Green Feed, cassava and red maize buyers and private producing are invited to present on the agribusiness and linked with potential ACs in the workshop and exchange experiences.</li> <li>○ Total 41 agribusiness of which 9 are female (22%) are interviewed and discussed on the current agricultural business. These privates' sectors will be screened to select the potentials private sectors for involved and initiate links with ACs in target provinces.</li> <li>○ Conducted discussion with Agri-business Group and ACs board and members to identify their potential agri-business and connect to Agriculture cooperative at target provinces with 176 participants including 53 are women.</li> <li>○ Two TOTs were providing to 34 participants /16 women on climate change and access green loan.</li> <li>○ Two training on proposal development was provided to 67</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			<p>participants including 34 are women.</p> <ul style="list-style-type: none"> <li>○ On-site Meeting and discussion to select Agri-business on the understanding on green financing and Climate Smart Agriculture. 7 agribusiness/1F are share experiences and discussion.</li> <li>○ Conducted a meeting with Director of the Department of Agriculture Cooperative, GDA to consult on the questionnaires and potential AC to identify their agri-business which is resilience to climate change</li> </ul>	
3.f	20,000 Households were provided with information on climate risk-sharing instruments	<ul style="list-style-type: none"> <li>○ Awareness the leaflet for climate risk and accessing the green financing to the PPIUs in 4 target provinces such as TAK=377/185F, KPT=506/292F, KCM=148/24F and TBK=868/286F.</li> <li>○ Contribute and sharing the green finance and risk sharing for climate change in 2 courses for training of trainer on Maize growing adapt to climate change. The total participant is 60 of which 16 are female.</li> <li>○ Contribute and sharing the green finance and risk sharing for climate change in 2 courses for training of trainer on Cassava seed selection adapt to climate change. The total participant is 63 of which 20 are female.</li> <li>○ Contribute and sharing the green finance and risk sharing for climate change in a consultation workshop to review the climate smart agriculture manual on Rice</li> </ul>	<ul style="list-style-type: none"> <li>○ On-site meeting/training/workshop: meeting orientations/training and workshop on the agribusiness to ACs provided with information on risk-sharing instruments for climate change, orientation the information on crop insurance and green financing to relevant stakeholders (Total Participant: <b>6,473 of which 2,328 are females</b>).</li> <li>○ Identified crop insurance companies and green loan: completed (Forte for crop insurance, ACLEDA/ARDB for green loan)</li> <li>○ Develop extension materials: completed printing 25,000 leaflets and 46 set of training flipcharts for promoting green finance and risk sharing mechanism linked with agriculture value chain production. The printing will finish soon and be distributed to all PPIUs and relevant institutes and stakeholders next month.</li> <li>○ Involved in signing an agreement on data sharing with Forte on Crop Insurance.</li> <li>○ Hand over the leaflet for climate risk and accessing the green financing 22,000 copies to the PPIUs in 4 target provinces to distribute the project beneficiaries while the total of printing leaflet is 25,000 leaflets.</li> <li>○ 44 sets of 46 sets printing for training flipcharts were distributed to PPIUs for promoting green finance and risk sharing mechanism linked with agriculture value chain production.</li> <li>○ Distributed the leaflet 2,498 to ACs's members and relevant stakeholders to understand on the climate information's and risk</li> </ul>	



No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
		<p>and Maize. The total participant is 81 of which 14 are female.</p> <ul style="list-style-type: none"> <li>○ Discuss with Crop insurance to disseminate the crop insurance information to the farmers and ACs.</li> </ul>	<p>sharing on climate change.</p>	
	<p>Creating an enabling environment for PPPs in agribusiness in the four value chains;</p>	<ul style="list-style-type: none"> <li>○ Establish and organize a community warehouse management and maintenance committee are conducted 15 trainings with 674 participants (232 Females, equal 35%) in September 2024</li> <li>○ Dissemination meeting on the principles of contract farming was conducted 2 meetings in September with 100 participants (64female, equal to 64%)</li> <li>○ Business forum on rice, cassava, and other specific crop commodities (with input suppliers, producers, traders/buyers, or collectors) 3 forum with 107 participants (22 females equal to 20%)</li> <li>○ Legal farming contract signing ceremony at the provincial level was conducted 1 in August-September with 43 (10 female, equal to 23 %)</li> </ul>	<ul style="list-style-type: none"> <li>○ Crop-centric forums for rice, cassava, maize, mango, and other specific crops: 8 forums were conducted with a total of participants 360 (73F, equal 20%).</li> <li>○ TOT Training on Producer Group Establishing Guideline to AC Committee: 4 courses of training with a total of participants 106 (30F, equal 28%)</li> <li>○ Organizing District business forum between producer group and buyers (rice, maize, corn and mango): 1 forum conducted with a total of participants 47 (3F, equal 6%).</li> <li>○ Awareness meeting on the concept and establishment of producer group: 7 meetings conducted with a total of participants 311 (193F, equal 62%).</li> <li>○ Meeting to develop internal regulations and production calendar plan.</li> <li>○ Establish and organize a community warehouse management and maintenance committee are conducted 15 trainings with 674 participants (232 Females, equal 35%) in September 2024</li> <li>○ Business Forum conducted 9 courses on rice, cassava and maize. The total participants are 294 persons of which 55 are Females.</li> <li>○ Conducted 4 courses of legal farming contract signing consultation forum on rice, cassava and dry maize. The total participants are 81 persons/16F</li> <li>○ Dissemination meeting on the principles of contract farming: 16</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
			<p>meetings conducted with 664 (236F, equal 35%).</p> <ul style="list-style-type: none"> <li>○ Dissemination workshop on Contract Farming Mechanism of Maize and Rice: 8 meetings conducted with 318 participants (84 females=26%)</li> <li>○ On review of PPP feasibility studies on specific crop commodities proposed by MAFF with the PMU team</li> <li>○ Legal farming contract signing ceremony at provincial level was conducted 20 events, total 300 of which 100 are females.</li> <li>○ AC Kaksikor Rung Roearng in Kampot signed the contract farming with Amru Rice company on Rice amount 500Mt/year for one year period.</li> <li>○ AC Ratanak Polroath Samaky in Kampot has a farming contract amount of 40Mt/y with local exported to Vietnam.</li> <li>○ AC Arkpirak Ponhea Krek Dambae in Tboung Khmum signed the contract farming on fresh cassava with Heng Leap Company amount 1,888 Mt/year for one year period.</li> <li>○ AC Kasekor Dambea in Tboung Khmum signed the contract farming on fresh cassava with Heng Leap Company amount 542 Mt/year for one year period.</li> <li>○ Samaki Meanchey Agricultural in Tboung Khmum (cooperated with AC Samaki Khummean and AC Samaki OrLork) signed the contract farming on rice production with THAN CHEA Rice Miller 350 Mt/year for one year period.</li> <li>○ Damrey Rameal AC in Takeo province with Amru Rice 850 Mt/year for one year period.</li> <li>○ Ponleu Sareireang AC in Takeo province signed the contract farming on rice production with Sok Keo Rice miller amount 7.5 Mt/year for one year period.</li> <li>○ Tuek Kraham Akphiwat Agricultural Cooperative in Kampot signed the contract farming on rice production with Amru Rice amount 100 Mt/year for one year period.</li> <li>○ Rik Chamroeun AC in Kampot signed the contract farming on Rice Production with Sdorm AC amount 60Mt/year for one year.</li> </ul>	
<b>Activity 3.3 Supporting Climate Risk Management through Information and Communication Technologies (ICT):</b>				
3.g	Information and Communication Technologies (ICT) Platform for Climate Risk Management in the	<ul style="list-style-type: none"> <li>○ An inception report has been prepared and approved by PMU and accepted by ADB</li> <li>○ System Architecture Design and Integration Architecture Report</li> </ul>	<ul style="list-style-type: none"> <li>○ The ICT consultant Team just mobilized in Feb 2023 and the inception workshop will be conducted on the 6th of April 2023.</li> <li>○ The inception Report has been prepared and approved</li> <li>○ An inception workshop has been done on 6 April 2023</li> </ul>	CS4/ICT Platform

No. DMF	Activities	Current Month <sup>1</sup> (September 2024)	Accumulative to date <sup>2</sup> (September 2024)	Remarks <sup>3</sup>
	Climate-Friendly Agribusiness Value Chains Project (CFAVC)	<ul style="list-style-type: none"> <li>○ (ICT &amp; CSA) Hardware Specifications are being listed out</li> <li>○ Procurement files are being prepared</li> </ul>	<ul style="list-style-type: none"> <li>○ Developing System Requirements and Architecture Reports has been submitted to PMU and MAFF as below date:               <ul style="list-style-type: none"> <li>✓ Version 1 on 31 October 2023</li> <li>✓ Version 2 on 24 November 2023</li> <li>✓ Version 3 on 26 February 2023</li> </ul> </li> <li>○ Preparation for the Pilot Program for climate-smart Agriculture at the pilot farms has been categorized and selected.</li> <li>○ System Architecture Design and Integration Architecture Report version 4 has been released on 29 May 2024; it'll be submitted to PMU on 30 May 2024.</li> <li>○ System Architecture Design and Integration Architecture Report version 4 has been released on 29 May 2024; it'll be submitted to PMU on 30 May 2024, and it has been approved by H.E. Minister of MAFF on 24 June 2024.</li> <li>○ Terms of reference for consultancy services for the provision of system integrator services for the ICT platform have been already drafted (v1).</li> <li>○ Request for Proposal (RFP), Request for Information (RFI), and the procurement plan are drafting....</li> </ul>	

Activity  
Person  
Date

Prepared by  
Chhim Chhun  
M&E Specialist CS01

Approved by  
Biranchi Kumar Choudhury  
CS01 TL

## RECIPIENTS

**Name**

**Entity**

Dr Sam Chhom Sangha  
Mr Oum Savy

Project Director PMU CFAVC, Deputy Secretary General of MAFF  
Project Manager CFAVC,