



# 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 July 2023

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 the progress as of July 2023.

The project has consumed (time elapsed) **60%** (against 95 months), and overall expenditures rate **16.4%** of total fund (141.04M\$), and the overall project progress is **48.82%**.

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	52 months	<b>58%</b>
Loan 3661-CAM Concessional ordinary capital resources lending	01 Oct 2018	30 Sep 2026	95 Months	57 months	<b>60%</b>
Loan 8346-CAM Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	52 months	<b>58%</b>

Table 3: Project Financing

Sources	Amount	Share of Total	Jun-23	
			Disbursement*	Expenditure*
	(US\$ Million)	(%)	(%)	(%)
ADB loan (concessional)	90,000,000	63.81	23.1	20.9
ADB loan (GCF)	10,000,000	7.09	13.2	8.6
ADB Grant (GCF)	30,000,000	21.27	13	9.1
Cambodia Government	7,380,000	5.23%	12.3	9.5
Beneficiaries' contribution	3,660,000	2.60%	0	0
<b>Total fund</b>	<b>141,040,000</b>	<b>100.00%</b>	<b>19.10%</b>	<b>16.40%</b>

(\* = Cumulative up to June 2023 "Combined all PMUs", extracted from ADB-LFIS/GFIS system)

Table 4: Overall physical progress:

Outputs	Assigned weight	Progress (%)
Output 1	65.00	34.21
Output 2	20.00	9.11
Output 3	15.00	5.49
<b>Overall</b>	<b>100.00</b>	<b>48.82</b>

## III. IMPLEMENTATION PROGRESS

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	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>Completed of the construction 3 schemes</li> <li>Ongoing construction 4 schemes</li> <li>DED has completed 24/27 of the total schemes</li> </ul>	<ul style="list-style-type: none"> <li>25 schemes DED completed (14,172 Ha)</li> <li>2 schemes DED ongoing (935Ha) 7%</li> <li>Ongoing construction 4=(2,050Ha) 86%</li> <li>Completed construction 5=1200Ha</li> </ul> <p>Total 27 schemes</p>	CS1 (MOWRAM)
1.b	800 On-farm rainwater harvesting ponds commissioned	<ul style="list-style-type: none"> <li>Bidding evaluation process for 279 ponds (CW1. A.1:80, CW1. B.1: 63, CW1. C.1:66 and CW1. D.1:80)</li> </ul>	<ul style="list-style-type: none"> <li>Construction not yet start</li> <li>279 completed DED and in the stage of procurement process</li> <li>521 not yet start</li> </ul> <p>Total: 800</p>	CS1 (MOWRAM)
	15 drip irrigation demonstration units on mango farmers' land	<ul style="list-style-type: none"> <li>There is no activity progress during the reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>15 farms have been identified.</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</li> </ul>	It is in the stage of the procurement process

<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> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
			<p>completed based on technical specifications.</p> <ul style="list-style-type: none"> <li>○ We have done the BoQ estimation for each drip irrigation and solar pump.</li> <li>○ The last DoEA representative did the proposal for demonstration site arrangement on drip irrigation system installation with the solar pump to PMU and PMU's procurement guide to access with ADB forward implementation in the field.</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>○ The 14 warehouses for construction will be completed soon.</li> <li>○ Ongoing construction of 25 warehouses.</li> </ul>	<ul style="list-style-type: none"> <li>○ 20 ACs Completed construction 100%</li> <li>○ 35ACs completed 100%</li> <li>○ 25 ACs construction starts on 9 May 2023 and complete the construction is 54.65%.</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	<p>Photo-Voltaic study and Installation (for energy efficiency measures and solar power)</p> <p>At least 10 agribusinesses become more resource efficient in energy savings (20%)</p>	<ul style="list-style-type: none"> <li>○ Number of warehouses and Provincial Agriculture Development Center (PADC) installed solar panels or solar energy technology during the month</li> <li>○ Followed up the solar energy system installed on the selected ACs and PADCs. Issues focusing on energy application, operation and maintenance. Technical operation and maintenance manual is drafted.</li> <li>○ Conducted 8 meetings with ACs representatives to identify potential Agriculture Cooperatives and business operators for Solar Energy Technologies investment.</li> </ul>	<ul style="list-style-type: none"> <li>○ Accumulative number of warehouses (41 warehouses completed 100%) and Provincial Agriculture Development Center (PADC 3 completed 100%) installed solar panels or solar energy technology.</li> <li>○ To date 11 of the selected ACs and 1 PADC has been installed. Finalization of the Technology operation and maintenance manual.</li> <li>○ Discussed with 12 ACs and identified 4 businesses that suit to solar energy technology Investment for agri-businesses. Four technologies for production, processing and posted harvest were highlighted.</li> </ul>	<ul style="list-style-type: none"> <li>○ Solar Energy to ensure sustained productivity, reducing production costs and contribute to climate changes (Water Pumping),</li> <li>○ Drying, Eggs Incubation and feeds grinding processed etc.,)</li> <li>○ PPIUs may carry out the activities in the following months</li> <li>○ Re-design solar water pump system capacity &amp;</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ Drafted AWPB 2024 CS2 for PMU</li> </ul>	<ul style="list-style-type: none"> <li>○ All PPIUs will implement activities 1.2.1 in the fourth week of July and continues all activities in August.</li> <li>○ Submitted draft AWPB to DLT for the year 2024, focusing on solar technology awareness and adoption.</li> </ul>	<ul style="list-style-type: none"> <li>○ specification for further discussion and actions.</li> <li>○ The energy generated from solar systems needs to be applied for better purposes. Users need to understand the technology.</li> <li>○ Integrated activities for technologies awareness and promotion to improve agribusiness value chain and environmental benefits.</li> </ul>
	Equipment & 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>	<ul style="list-style-type: none"> <li>○ Installation of equipment and tool</li> </ul>
	<ul style="list-style-type: none"> <li>-Supply circulated cylinder dryers for the 100-ton warehouses (2 Units)</li> <li>-Supply electrical voltage transformer set for 2 Units circulated cylinder dryers</li> </ul>	<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 tool</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	<ul style="list-style-type: none"> <li>○ Ongoing construction of 8 contracts</li> </ul>	<ul style="list-style-type: none"> <li>○ Batch I- (71Km) with total 8 contracts</li> <li>○ Construction are ongoing:</li> </ul>	CS1 (MRD)

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	Connectivity to Cooperatives and Markets		<ul style="list-style-type: none"> <li>-2 contracts for Takeo 94% completed</li> <li>- 2 contracts for Kampot 54% completed</li> <li>- 2 contract for Kampongcham 64% completed</li> <li>- 2 contracts Tboung Khmum 70% completed</li> <li>○ Batch II- (100.12Km) with total 8 contracts, only 6 contracts signed (with 70.86Km). The remaining 2 contracts with 29.26Km is under bid evaluation process.</li> <li>○ Construction: not yet start (waiting for compensation)</li> <li>○ Batch III- (100.72Km) to be procured</li> <li>○ 100.72 km DED completed (95%)</li> </ul> <p>Total planned 271.95 Km, but will procure only 250km due to budget limit.</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 National Agriculture Laboratory upgraded	<ul style="list-style-type: none"> <li>○ Lab renovation: Lab renovation: Ready for daily laboratory work.</li> <li>○ Net-house: construction is ongoing 100%, but still waiting for water supply connection anthers.</li> </ul>	<ul style="list-style-type: none"> <li>○ Lab renovation: construction completed</li> <li>○ Net-house: construction is completed 100%</li> <li>○ First batch of equipment is on ship now, and they are ready to install after the completed bio-fertilizer lab renovation.</li> </ul>	Net House: still waiting for connection of water supply from the state, wastewater, and spray water to control temperature.
	establishing genetically modified organisms (GMO) and Phytotoxin	<ul style="list-style-type: none"> <li>○ Concept note: Technical training on GMO &amp; Phytotoxin prepared for next training.</li> <li>○ List of equipment for GMO and phytotoxin: ongoing and follow-up with GMO specialist by Lab coordinator.</li> </ul>	<ul style="list-style-type: none"> <li>○ Prepared concept note: completed</li> <li>○ List of equipment for GMO and phytotoxin: ongoing 70%. Technical training on GMO &amp; Phytotoxin: Completed 1st Training</li> </ul>	The list of equipment still checks the specification of the product and price by an expert.
	supporting ISO 17025 accreditation	<ul style="list-style-type: none"> <li>○ Revising ISO 17025 guideline</li> </ul>	<ul style="list-style-type: none"> <li>○ Second draft of ISO 17025 guideline (from Dr. Mak Chanrattana)</li> <li>○ Review consisting guidelines of ISO 17025</li> </ul>	

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		<ul style="list-style-type: none"> <li>○ Preparing a document for assessing the laboratory to meet ISO 17025 criteria.</li> <li>○ Meeting with NAL staff for getting understand their laboratory situation and assess their understanding of ISO 17025.</li> </ul>	<ul style="list-style-type: none"> <li>○ Draft outline for revision of ISO 17025 guideline.</li> </ul>	
	Plant tissue culture (developing tissue culture protocols for bananas and cassava)	<ul style="list-style-type: none"> <li>○ Prepared and submitted concept notes of oversea training on plant tissue culture for Cassava and Banana for NAL's staff.</li> <li>○ Develop a manual of Cassava: completed revising for 4th revision and planned on implementation on the first week of August 2023.</li> <li>○ Prepared concept notes for an oversea training course on plant tissue culture for NAL's staff by discussing with the Lab coordinator and related experts.</li> <li>○ Prepared report of training on plant tissue culture for NALs' director and Lab coordinator and also submitted to NAL.</li> <li>○ Prepared slide presentations related to the training course for NAL's staff.</li> </ul>	<ul style="list-style-type: none"> <li>○ Prepared concept note: completed</li> <li>○ On-the-job training on mother plant collection for multiplication through tissue culture for cassava with a total of 72 persons of which 54 are females.</li> <li>○ Training on plant tissue technology for banana, cassava, and orchid with a total of 12 persons of which 9 are female.</li> <li>○ TWG meeting on the development of cassava tissue culture development manual with a total of 13 persons of which 3 are females.</li> <li>○ Conducted a Consultative workshop on the cassava tissue culture development manual with a total of 25 participants of which 6 are women.</li> <li>○ Developed manual of Cassava: completed (4<sup>th</sup> revision).</li> <li>○ Prepared and submitted concept notes of technical training on plant tissue culture for Cassava and Banana for NAL's staff. Developed manual of Cassava: completed of revising 4th revision.</li> </ul>	



No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
	Assisting the laboratory commercialization process	<ul style="list-style-type: none"> <li>○ Preparation of Opening speech for training on Laboratory commercialization and service marketing for PDAFF: Completed</li> <li>○ Reviewing the Law on biosafety in Cambodia enacted by parliament on 28 December 2007: Completed</li> <li>○ Reviewing Guidelines and SOPs for GMO field trial and safety assessment: On-going</li> <li>○ Preparing lessons for training on Commercialization and service marketing: On-going</li> </ul>	<ul style="list-style-type: none"> <li>○ Preparation of concept note: Completed</li> <li>○ Preparation of Opening speech for training on Laboratory commercialization and service marketing for PDAFF: Completed</li> <li>○ Seed Policy for Cambodian (adopted in December 2016): Completed</li> <li>○ Law on biosafety in Cambodia enacted by parliament on 28 December 2007: Completed</li> <li>○ The enacted Law on Seed Management and Plant Breeder's Rights adopted by the parliament on April 08, 2008: ongoing</li> <li>○ Preparing lessons for training on Commercialization and service marketing: on-going</li> <li>○ The legal framework on modern biotechnology developed by Codex Alimentarius Commission- FAO/WHO intergovernmental body: ongoing</li> <li>○ The Biosafety regulations for GMO crop in Asia-Pacific: ongoing</li> <li>○ Retrieving and Reviewing Guideline and SOPs for GMO field trial and safety assessment: On-going</li> </ul>	
	supply analytical testing equipment	<ul style="list-style-type: none"> <li>○ All Lab equipment for NAL will move to the next year.</li> </ul>	<ul style="list-style-type: none"> <li>○ Bid Evaluation Report (BER) ongoing</li> </ul>	Wait for the procurement update.
	Bio-fertilizer / Organic fertilizer (Pesticide residue rapid test kits for field testing and desktop testing equipment for plant toxins will also be supplied)	<p><b><u>Technical training to NAL staff and PDAFF staff</u></b></p> <ul style="list-style-type: none"> <li>○ Prepare workplan to carry on the activities</li> <li>○ Start prepare the draft concept note and training materials for on-job training to NAL staff</li> </ul>	<ul style="list-style-type: none"> <li>○ On-Job training course on the quality testing of bio-fertilizer and bio-pesticide with a total of 144 persons/108 are females.</li> <li>○ Conducted a market survey on the use and quality of bio-fertilizer and organic fertilizer in the local market and training on bio-pesticide, bio-fertilizer production, and quality testing with a total of 12 persons of which 9 persons are females.</li> </ul>	Bio-fertilizer & Organic Fertilizer Testing Specialist have left the input to fulfil the work.

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ Prepare the training materials and poster on Sampling and handling techniques of biofertilizer and organic fertilizer for quality testing in lab</li> <li>○ Develop manual:</li> <li>○ Ongoing work to develop the manual of Standard Operation Procedure.</li> <li>○ Consult and closed with ISO 17025 accreditation specialist to carry on developing the 4th revision of the manual of ISO 17025 accreditation.</li> </ul>	<ul style="list-style-type: none"> <li>○ Consultative workshop on SOP for bio-fertilizer fertilizer quality testing manual with a total of 51 participants of which 9 persons are females.</li> <li>○ Developed the manual of Standard Operation Procedure (SOP) for quality testing of bio-fertilizer and completed the 3rd draft revision.</li> <li>○ Consultative workshop on ISO 17025 Accreditation guideline with a total of 42 participants of which 14 are females.</li> <li>○ Development of technical guidelines and procedure for lab ISO17025 accreditation was completed 3rd draft revision.</li> <li>○ Development of the manual of Standard Operation Procedure (SOP) for quality testing of organic fertilizer was in the first draft version.</li> <li>○ Contract form has been signed by biofertilizer and organic fertilizer specialists</li> <li>○ Detail workplan has been developed and submitted to the national coordination lab and NAL</li> <li>○ Prepare the draft concept noted and training materials for on job-training course</li> <li>○ Prepare the training materials and posters on Sampling and handling techniques of biofertilizer and organic fertilizer for quality testing in lab for further extension to PPIU.</li> </ul>	
3.c	Good Agriculture Practice for organic fertilizer endorsed	<ul style="list-style-type: none"> <li>○ Ongoing work to develop the biofertilizer standard developments</li> </ul>	<ul style="list-style-type: none"> <li>○ Prepared concept note: completed</li> <li>○ Developed draft manual on the biofertilizer standard development: Completed (4th revision)</li> <li>○ SOP for quality testing of biofertilizer: completed (4th revision).</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
<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.	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	<u>Bio-digester:</u> <ul style="list-style-type: none"> <li>○ Construction of biodigester, the project was agreed to proposed a revised bidding procedure (procurement methods) that can be implemented to avoid further stalemate during the PSC meeting.</li> <li>○ National Training on Biodigester and Construction Techniques and Quality Control 4 courses 149/29 are females.</li> <li>○ Training on Quality Control and Evaluation Methods of Construction for Biodigester and Compost Hut 4 courses 145/29 are females.</li> <li>○ Commune &amp; provincial workshops on project dissemination, identification and selection of clients 2 courses 101/28 are females.</li> <li>○ Training on the Introduction of Integrated Farming by Using Fertilizers from Bio-slurry 4 courses 158/38 are females.</li> <li>○ Exchange Visit and Understanding of Compost Processing and Use From the Sources of Biodigester 2 courses 81/19 are females.</li> </ul>	<ul style="list-style-type: none"> <li>○ Bio-digester:</li> <li>○ Construction: not yet started (BER Biodigester 2nd round-Rebid)</li> <li>○ .Construction of biodigester, the project was agreed to proposed a revised bidding procedure (procurement methods) that can be implemented to avoid further stalemate during the PSC meeting.</li> <li>○ 28,010 farmers (female =13,503 (48%) 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 8% (976 HHs)</li> <li>○ The key farmer who has an interest: ongoing 2.36% (283 HHs).</li> <li>○ Research, development, pilot, and use of the biodigester:</li> <li>○ 56 biodigesters demonstration construction completed and functioning with (280 beneficiaries (145 F).</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>○ Construction of compost hut, the project was agreed to proposed a revised bidding procedure</li> </ul>	<u>Compost-hut:</u> <ul style="list-style-type: none"> <li>○ Construction: not yet started (BER Compost hut 2nd round-Rebid)</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
		<p>(procurement methods) that can be implemented to avoid further stalemate during the PSC meeting.</p> <ul style="list-style-type: none"> <li>○ National Training on Biodigester and Construction Techniques and Quality Control 4 courses 149/29 are females.</li> <li>○ Training on Quality Control and Evaluation Methods of Construction for Biodigester and Compost Hut 4 courses 145/29 are females.</li> <li>○ Commune &amp; provincial workshops on project dissemination, identification and selection of clients 2 courses 101/28 are females.</li> <li>○ Training on the Introduction of Integrated Farming by Using Fertilizers from Bio-slurry 4 courses 158/38 are females.</li> <li>○ Exchange Visit and Understanding of Compost Processing and Use From the Sources of Biodigester 2 courses 81/19 are females..</li> </ul>	<ul style="list-style-type: none"> <li>○ Construction of compost hut, the project was agreed to proposed a revised bidding procedure (procurement methods) that can be implemented to avoid further stalemate during the PSC meeting.</li> <li>○ 28,010 farmers (female =13,503 (48%) have been trained and received information about Compost hut and its benefit (bio-slurry use and management) in Training &amp; Capacity Building, Promotion &amp; Marketing, Monitoring &amp; Evaluation and Innovation &amp; Value Chain Improvement activities.</li> <li>○ The project identified 3,437 farmers of which 1,695 farmers are female for the potential to build the compost hut.</li> <li>○ The key farmer who has intended to buy: ongoing 10.7% (647 HHs)</li> <li>○ The key farmer who has interested: ongoing 3.8% (230 HHs)</li> <li>○ Research, development, pilot and use of the compost hut:</li> <li>○ 22 compost-hut demonstration construction completed with (110 beneficiaries (60F)</li> <li>○ 47 compost-hut will be constructed.</li> <li>○ Support input for integrated farming demonstrations:</li> <li>○ 38 demonstrations and training were completed with 154 participants (83F)</li> <li>○ 28 demonstration farmers and training have not yet started.</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
	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 note and plan to conduct a dissemination Workshop on 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	<ul style="list-style-type: none"> <li>○ CARDI provided 04 training of farmers group on best management practice (BMP) of rice in Kampongcham and Tboung Khmum provinces that participants; 100/47 females such as,</li> <li>○ Kampongcham=50/27 females</li> <li>○ Tboung khmum=50/20 females</li> </ul>	<ul style="list-style-type: none"> <li>○ Two rice varieties, named Phkamealdehy (PMD) and CAR-16 and one glutinous maize variety, named CM1 were released before the project started and then in 2022, CARDI conducted a demonstration in targeted provinces. Currently, CARDI is developing rice varieties for high yield, good grain quality and resilience to climate change. The series of activities included, advancing generation in CARDI and multi-location trials in collaboration with PDAFF staff.</li> <li>○ One rice variety, named Champeisar70 are released in 2023 for farmers' demonstration in CFAVC Project (Foundation seed from CARDI)</li> <li>○ CARDI provided 58 training of farmers groups on best management practice (BMP) and Rice seed production Technique and follow-up (RSPT/FU);</li> <li>○ Total training=1450 /689f=47%</li> <li>○ 2022 training=1300/609f</li> <li>○ 2023 progressed until July training=150/80f</li> </ul>	



No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
<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	<p>During this reporting period, six training trainer courses were conducted for 4 provincial trainers. In total, the 4 training were attended by 134 persons of which 34 were female, equal to 25%.</p> <p>The detail of the training are as follows:</p> <ul style="list-style-type: none"> <li>▪ Two training trainer courses on SRP and field visits and two CSA training courses for provincial trainers were conducted with 82 participants attending of which 23 were female, equal to 56%.</li> <li>▪ One training trainer course on Laser Land Levelling and one rice storage unit operation course for provincial trainers were conducted with 36 participants attending of which 6 were female, equal to 33%.</li> <li>▪ One training course on AC law and legal documents under AC law for provincial trainers was conducted with 16 participants attending, of which 5 were female, equal to 30%.”</li> </ul>	<ul style="list-style-type: none"> <li>○ 12,833 farmers of which 6,062 were female (47%) trained on CSA, SRP, CamGAP, ACs business development plan (for ACs boards) and landscape restoration (farm mechanization).</li> <li>○ Dissemination workshop on contract farming mechanism.</li> </ul>	
	Support laser land leveling up to 4,000 ha (approximately 1,000 ha per province)	<ul style="list-style-type: none"> <li>○ There is no activity progress during the reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified 05 new irrigation schemes for the possibility of laser land leveling in project area 2 schemes in Ta Keo, 1 scheme in Kampot, one 1schemes in Tboung Khmom and 01 scheme in Kampong Cham province Package 1, in previous time identification of 418.58 hectares of landholding assessed and mapping. Tender documents are being</li> </ul>	It is in the stage of the procurement process

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			<p>prepared by CS1 and in consultation with CS2 and the procurement unit of PMU.</p> <ul style="list-style-type: none"> <li>○ Summary progress of paddy selection for land leveling by Jan-Dec 2022.</li> <li>○ Takeo: 125.89Ha with 935HHs (397F)</li> <li>○ Kampot: 67.99Ha with 467HHs (260F)</li> <li>○ KCham: 166.40Ha with 730HHs (258F)</li> <li>○ TBK: 58.30Ha with 646HHs (302F)</li> <li>○ Total: 418.58 Ha with 2,778HHs (1,227F)</li> </ul>	
	<p>conduct “learning by doing” training by demonstrating and training in farmer fields in specific locations with three sites in each province</p>	<ul style="list-style-type: none"> <li>○ Identify key farmer for rice, cassava and maize seed demonstration in the field with PPIU for 2023 in 4 target provinces.</li> </ul> <p>1) Rice seed demonstration production(2023)</p> <ul style="list-style-type: none"> <li>● Identify key farmer in month: 01 ( PRD=01demos,)</li> <li>● Seed provided to key farmers(Foundation seed from CARDI)=460kg</li> </ul> <p>(PRD seed=340kg, PMD=120kg)</p>	<p><b>1) Rice seed demonstration production (2020-2023)</b></p> <ul style="list-style-type: none"> <li>○ Name of seed: PRD, PMD and CAR16 and Champeisar70(Foundation seed from CARDI)</li> <li>○ Farmers demo:299p/142f</li> <li>○ Surface: 95.54ha</li> <li>○ Average yield 3.98T/ha</li> <li>○ Number seed produced: 262.497kg</li> <li>○ Number seed distribution to communities: 94.682kg</li> <li>○ Seed provided to key farmers(Foundation seed from CARDI)=4,995kg:</li> <li>○ -2020-2022=3,270 kg</li> <li>○ -2023 progressed seed provided until July =1,725kg (PMD=1,420kg, PMD=120kg, CAR16=80kg and Champeisar70=105kg)</li> <li>○ Key farmer demos=81/45f</li> <li>○ Surface=31.36ha</li> </ul> <p><b>2) Cassava seed demonstration production(2021-2023)</b></p> <ul style="list-style-type: none"> <li>○ Name of seed: 81, Rayong9, Huaybong60, KU50, (from Chamkaleu station)</li> </ul>	<p><b>Notes from officials and farmers on:</b></p> <p>1) Cassava - 81 varieties have the highest resistance to mosaic disease and high yields, farmers are high interested. Rayong-9 varieties are resistant to mosaic disease, moderate and high yielding, farmers are not interested. -Huay Bong-60 varieties are resistant to low mosaic disease and high yield, farmers are not interested. Cassava cultivars are still susceptible to CMD, especially on the Rayong-9 and Huay Bong-60 cultivars, which are higher than the 81 cultivars. 81 species affected by Cassava</p>

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		<p>2) Cassava seed demonstration production(2023)</p> <ul style="list-style-type: none"> <li>• Name of seed: 81, Rayong9, (from Chamkaleu station)</li> <li>• Key farmer demos=01</li> </ul> <p>Seed provided to key farmers=0</p> <p>○ Maize seed demonstration (no any progress yet)</p>	<ul style="list-style-type: none"> <li>○ Farmers demo:52/27f</li> <li>○ Surface: 52ha</li> <li>○ Average yield 31.5T/ha(2021-2022)</li> <li>○ Number cassava distribution to communities: 10,000batch (at least 40ha)</li> <li>○ Seed provided to key farmers=15,600bundles( 81=11,250bundles and Rayon9=3000 bundles, KU50=225 bundles and Huybon60=1,125 bundles): <ul style="list-style-type: none"> <li>- 2020-2022=12,000 bundles</li> <li>- 2023 progress until July provided cassava seed =3600 bundles <ul style="list-style-type: none"> <li>▪ Key farmer demos=12/5f</li> <li>▪ Surface=12ha</li> </ul> </li> </ul> </li> </ul> <p><b>3) Maize seed demonstration production (2022-2023)</b></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:45/21f (2022)</li> <li>○ Surface: 22.5ha(2022)</li> <li>○ Average yield 5.12T/ha(2022)</li> <li>○ Many people are interested and need seed(CHM01) distribution to communities</li> </ul>	<p>Bacterial Blight Disease Hany Bong 60 is affected by root and tuber rot.</p> <p>2) Corn crop Maize is more suitable for the dry 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.</p> <p>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>○ 1 FWUC and 1 FWUG completed 75% (Tbong Darei FWUC and Kampong Raing FWUG)</li> </ul>	<ul style="list-style-type: none"> <li>○ 12 FWUCs/FWUGs completed 100%;</li> <li>○ FWUCs are ongoing (Trapeang Beung and Kandoal completed 88% in Kampot, Prey Rumdeng FWUC is 80% in Takeo, and Tbong Darei and Kampong Raing completed 75%)</li> <li>○ 10 FWUCS not yet start (no budget)</li> </ul>	<p>There is a short budget for 10 new FWUCs/FWUGs either establishment or capacity building</p>

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			Total 27 schemes (500FWUCs)	
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>The scheme operation implementation and cropping calendar were trained to Prey Kdouch and Kraing Empil, Pou Tatress, 5 Kompheak, and O'Kamprok FWUCs representatives and local authorities consisted of 198 trainees of whom 60 were women; Total of 133 participants of whom 36 women.</li> </ul>	<ul style="list-style-type: none"> <li>369 FWUCs representatives of out 500 FWUCs have been trained 111 courses provided to 4,333 FWUCs/FWUGs representatives and local authorities of whom 1,157 were women;</li> </ul>	
<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>Ongoing construction 1 PADC</li> </ul>	<ul style="list-style-type: none"> <li>3 PADCs building construction completed.</li> </ul>	
2.d.2	4 Engineering workshops were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> <li>Other Items of training equipment:</li> <li>Updated specification (version-2) for lathes, milling machine, heavy-duty lifting gear, heavy-duty drilling machine and shearing machine and other minor equipment.</li> </ul>	<ul style="list-style-type: none"> <li>3 MEWs building construction completed.</li> <li>22 of materials in the mechanization workshops</li> <li>BOQ of all materials</li> </ul>	This preparation needs to be more discussed with the procurement unit and CSI
<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>Reviewing and gathering inputs for the 4th drafted version of the Guideline to link with private sector engagement with the agriculture sector.</li> <li>PPP specialist on duty and working closely with key relevant sectors</li> </ul>	<ul style="list-style-type: none"> <li>Development of Producer Group Establishments Guideline Linked with Private Sector to the Market: completed (4th draft revision) to achieve the agribusiness group of contract farming.</li> </ul>	
3.b	Good Agriculture Practice for tropical fruit endorsed (CamGAP)	<ul style="list-style-type: none"> <li>The expert resigned and a new expert just mobilized.</li> </ul>	<ul style="list-style-type: none"> <li>Tropical Fruit CAMGAP Standards development of the manuals for mango has been developed with 50% by involving relevant departments (IA-GDA).</li> <li>The field works have been visit at the mango farms and support technical for farm</li> </ul>	

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			management base on market standard requirement.	
3.c	Good Agriculture Practice for organic fertilizer endorsed	<ul style="list-style-type: none"> <li>○ Ongoing work to develop the manual of Standard Operation Procedure.</li> <li>○ No more inputs for Bio-fertilizer &amp; Organic Fertilizer Testing Specialists and Tissue Culture Development Specialist.</li> </ul>	<ol style="list-style-type: none"> <li>1. Development of the manual of Standard Operation Procedure (SOP) for quality testing of bio-fertilizer completed the 3rd draft revision.</li> <li>2. Development of the manual of Standard Operation Procedure (SOP) for quality testing of organic fertilizer Development of technical guidelines and procedures for lab ISO17025. accreditation was completed 3rd draft revision</li> <li>3. Development of the manual of Standard Operation Procedure (SOP) for quality testing of organic fertilizer was in the first draft version.</li> <li>4. Development of the Cassava tissue culture manual was completed in the 4th draft revision.</li> </ol>	
<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>○ Conducted a training workshop to 6 staff of ARDB and 2 Climate Change Facility Advisory Team on an initiative to access green climate fund and their screening criteria</li> <li>○ Provided training workshop on green climate fund and agribusiness to 6 participants from ACLEDA and ARDB at Kampot, Kampot Cham and Phnom Penh on their readiness to access Green Climate Fund</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified: 50 Bank/MFI</li> <li>○ TNA: completed</li> <li>○ Training development plan: ongoing 80%</li> <li>○ Development of Training Materials: ongoing 70%</li> <li>○ Delivery training: 5 training with ACLEDA and ARDB</li> <li>○ Development of green finance landscape report: completed and drafted.</li> <li>○ National Consultation on the report: draft concept note completed.</li> <li>○ Engaged with green financing facility establishment (MOE/ARDB/NBC/Mekong Strategy Partners progressed) and waiting for GCF reviewing and approval.</li> <li>○ Consultation on Green Financing with ARDB and ACLEDA.</li> <li>○ 16 staff from Bank, Micro Financial Institutions and ARDB trained in CSA and green finance.</li> </ul>	Green Financing Specialist follows up with the Bank and MFI receives the green financing from GCF or other sources.



No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
3.e	30 agribusinesses trained in green finance and CSA	<ul style="list-style-type: none"> <li>○ Identified: 30 ACs/ Agribusiness</li> <li>○ TNA: ongoing 50%</li> <li>○ Development of training Materials: ongoing 70%</li> <li>○ Delivery orientation meeting: 8 orientations meeting on the agribusiness to 8 ACs at Tbong Khmum, Kampong Cham, Takeo and Kampot) (Total participants: 63 of which 18 persons are females.</li> <li>○ Cooperate with GDA to conduct training on Climate Change, Green Financing and Climate Smart Agriculture for 28 participants including 11 are women from the ACs committee of Agriculture Cooperative from four target provinces.</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified: 30 ACs/ Agribusiness</li> <li>○ TNA: ongoing 50%</li> <li>○ Development of training Materials: ongoing 70%</li> <li>○ Develop the climate change training material</li> <li>○ Delivery orientation meeting: 36 completed (Total Participant:480 F:203)</li> <li>○ Conducted 2 training on Climate Change, Green Financing and Climate Smart Agriculture to 65 participants including 17 women for PPIUs, Bank, MFI, ARDB and ACs at four provinces</li> </ul>	
3.f	20,000 Households were provided with information on climate risk-sharing instruments	<ul style="list-style-type: none"> <li>○ Developed the Awareness raising material for providing TOT training to PPIUs in 4 provinces</li> <li>○ Identified crop insurance companies and green loan: completed (Forte for crop insurance, ACLEDA/ARDB for green loan)</li> <li>○ Develop extension materials: ongoing 10%</li> <li>○ Organize a meeting to share climate information to ACs members: ongoing 5%</li> <li>○ Singed agreement on data sharing with Forte on Crop insurance.</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified crop insurance companies and green loan: completed (Forte for crop insurance, ACLEDA/ARDB for green loan)</li> <li>○ Develop extension materials: ongoing 60%</li> <li>○ Participated in sing agreement on data sharing with Forte on Crop Insurance.</li> <li>○ Organize workshops to share climate information with ACs members: ongoing 5%</li> <li>○ Sing agreement on data sharing with Forte on Crop Insurance.</li> </ul>	
	Creating an enabling environment for PPPs in agribusiness in the four value chains;	<ul style="list-style-type: none"> <li>○ Reviewed PPP feasibility studies on specific crop commodities proposed by MAFF with the PMU team.</li> </ul>	<ul style="list-style-type: none"> <li>○ Crop-centric forums for rice, cassava, maize, mango and other specific crops: 5 courses of training conducted with a total of participants199 (28F).</li> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (July 2023)	Accumulative to date <sup>2</sup> (July 2023)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ ToT Training on PGEG (Producer Group Establishments Guideline) was conducted with total participant 22 persons of which 06 persons are female.</li> </ul>	<ul style="list-style-type: none"> <li>○ Business forum on rice, cassava and other specific crop commodities (with input suppliers, producers, traders/buyers or collectors): 3 courses of training conducted with participant 80 (11F).</li> <li>○ Legal farming contract signing consultation forum at the provincial level: conducted 4 consultation forums with participant 81 (16F).</li> <li>○ On review PPP feasibility studies on specific crop commodities proposed by MAFF with PMU team</li> <li>○ ToT Training on PGEG has been conducted with 22 participants (6 female equal 27%)</li> </ul>	
<b>Activity 3.3 Supporting climate risk management through Information and Communication Technologies (ICT):</b>				
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	<ul style="list-style-type: none"> <li>○ Inception report has been prepared</li> </ul>	<ul style="list-style-type: none"> <li>○ The ICT consultant just mobilized in Jan 2023 and the inception workshop will be conducted on the 6th of April 2023.</li> <li>○ The inception Report has been prepared</li> <li>○ An inception workshop has been done</li> <li>○ Developing System Requirement and Architecture Report</li> <li>○ Preparation for the Pilot Program for climate-smart Agriculture</li> </ul>	

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