



# 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

### May 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 the progress as of **May 2024**.

The project has consumed time (time elapsed) **69%** (66 out of 95 months), and overall disbursement is **32.7%** and expenditures rate is **28.6%** of the total fund (141.04M\$), and the overall project progress is **62.21%**.

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	% <i>time elapsed</i>
Grant 0579-CAM	Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	61 months	<b>68%</b>
Loan 3661-CAM	Concessional ordinary capital resources lending	01 Oct 2018	30 Sep 2026	95 Months	66 months	<b>69%</b>
Loan 8346-CAM	Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	61 months	<b>68%</b>

Table 3: Project Financing

Sources	Amount	Share of Total	Disbursement*	Expenditure**
	(US\$ Million)	(%)	(%)	(%)
Loan (Concession)-L3661	90,000,000	63.81	38.2%	35.1%
Loan (GCF)-L8346	10,000,000	7.09	24.7%	20.0%
Grant (GCF)-G0579	30,000,000	21.27	27.2%	19.7%
RGC	7,376,000	5.23%	13.9%	11.2%
Beneficiates	3,664,000	2.60%	-	0.0%
<b>Total fund</b>	<b>141,040,000</b>	<b>100.00%</b>	<b>32.7%</b>	<b>28.6%</b>

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

\*\*= Cumulative up to March 2024

Table 4: Overall physical progress:

Outputs	Assigned weight	Progress (%)
Output 1	65.00	44.00
Output 2	20.00	12.42
Output 3	15.00	5.79
<b>Overall</b>	<b>100.00</b>	<b>62.21</b>

## III. IMPLEMENTATION PROGRESS

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 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-friend	<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</li> <li>Completed DED 27 schemes at 100%</li> </ul>	<ul style="list-style-type: none"> <li>All 27 schemes completed DED (14,672 Ha)</li> <li>Complete DDR report 19 Schemes 70% and received NOL 13 schemes 48%, resubmitted 6 schemes and waiting for repose from ADB</li> <li>4 Schemes ongoing construct (60 % of overall CW works)</li> <li>Completed construction (100%) 9 schemes= 3,250Ha</li> </ul> <p>Total 27 schemes</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>Resubmitted 28 May 24 of 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>500 completed DED and are in the stage of the procurement process</li> <li>Completed draft DDR at 140 RWHPs in Batch II of 225 locations 60%</li> <li>Kampot 80 RWHPs in Batch I has already awarded contract and completed 56 of 80 RWHPs, 15% placing plastic</li> <li>Tbongkhum 63 is ongoing construction and completed 20 of 63 RWHPs</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> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ On going data collection in 40 RWHPs Takeo and Kampong Cham 50 RWHP locations.</li> <li>○</li> </ul>		
	15 drip irrigation demonstration units on mango farmers' land	<p>These activities progressed in month such as.</p> <p>After, reconfirmation 15 candidates</p> <ul style="list-style-type: none"> <li>● National Agricultural Machinery O&amp;M Training Specialist submitted SPEC drip irrigation to the PMU.</li> <li>● Revise spec with BOQ of Drip Irrigation Demonstration</li> <li>● Present the drip system with solar energy</li> </ul>	<ul style="list-style-type: none"> <li>○ 15 farms have been reconfirmed and making replacement of old 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 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> <li>○ National team of CS2 was submitted technical of specification of drip irrigation to the PMU.</li> </ul>	<p>It is in the stage of procurement process.</p> <p>○</p>
<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>

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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>○ Supported PPIUs to conducted agri-business and AC board members meeting with business owner participation including female to promote RET for agricultural sustainability, better incomes.</li> <li>○ Supported PPIUs to provide basic technical Operation and Maintenance O&amp;M for 2 AC warehouse operators on RET used for agricultural improvement and incomes.</li> <li>○ Discussed with PPIUs to provided technical supports to PPIUs to screen 10 potential agri-business to finalize commercial for business support including Business Plan and link to project cooperate banks with Green Finance.</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 solar photovoltaic companies for to install RET for agri-businesses.</li> <li>○ Supported PPIUs to design Solar PV technologies modules and packages to promote technologies for AC members and business owners to invest.</li> <li>○ Supported PMU to produce solar technical specification for</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> <li>○ Supported PPIUs to conducted 1 meeting with business owners in Takeo for 30 participants of which 6 are female selected Agribusiness to promote RET for agricultural sustainability, better incomes.</li> <li>○ Design Solar Technologies for Agribusiness investment options (6 technologies for AC members and business owners to invest/ for sustainable agriculture and better incomes</li> <li>○ Prepared Criteria and Guideline to screen potential agribusiness for green finance investment on Renewable Energy Technologies.</li> <li>○ Designed solar power rooftop signboard on operation and maintenance to be printed and placed at Warehouse, PADCs and MEWs.</li> <li>○ Discussed with 40 ACs board members and identified 10 potential Agribusinesses interested in investing solar technologies. Through the design solar technologies for agribusiness investment options and technical support, PPIUs has identified screened 6 potential agri-business for further finalization (list of potential agri-businesses).</li> <li>○ Produced and submitted a draft solar technology specification for PMU procurement to finalize.</li> <li>○ Conducted workshop on the Solar Technologies Investment with involvement of</li> </ul>	<ul style="list-style-type: none"> <li>○ Supported PPIUs to conducted agri-business and AC board members meeting with business owner participation including female to promote RET for agricultural sustainability, better incomes.</li> <li>○ Supported PPIUs to provide basic technical Operation and Maintenance O&amp;M for 2 AC warehouse operators on RET used for agricultural improvement and incomes.</li> <li>○ Discussed with PPIUs to provided technical supports to PPIUs to screen 10 potential agri-business to finalize commercial for business support including Business Plan and link to project cooperate banks with Green Finance.</li> <li>○ Supported AC board members, PADC and MEW to</li> </ul>

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		<p>procurement process.</p> <ul style="list-style-type: none"> <li>○ Conducted presentation in the training on understanding the green financing and CSA to agribusiness and agricultural cooperative.</li> </ul>	<p>agribusiness technology providers. The total participants 86 persons in which 16 are females.</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>set up solar power rooftop signboards for operation and maintenance.</p> <ul style="list-style-type: none"> <li>○ Supported PPIUs to select solar photovoltaic companies for to install RET for agri-businesses.</li> <li>○ Supported PPIUs to design Solar PV technologies modules and packages to promote technologies for AC members and business owners to invest.</li> <li>○ Conducted workshop on the Solar Technologies Investment with involvement of agribusiness technology providers. The total participants are 86 persons in which 16 are females.</li> </ul>
	<p>Equipment and materials for 15 Drip Irrigation Systems (includes tube wells/water source connection, solar pumps, and other agricultural inputs e.g. training)</p>	<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>

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	-Supply circulated cylinder dryers for the 100-ton warehouses (2 Units) -Supply electrical voltage transformer set for 2 Units circulated cylinder dryers	<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>○ Batch I- (71Km) with a total of 8 contracts</li> <li>○ Construction is ongoing:               <ul style="list-style-type: none"> <li>▪ 2 contracts for Takeo are (Lot 1&amp;Lot 2) 100% completed.</li> <li>• 2 contracts for Kampot (Lot 1 and Lot 2- 100% completed.</li> <li>• 2 contracts for Kampongcham (Lot 1 &amp; Lot 2) 100% completed.</li> <li>• 2 contracts Tboung Khmum (Lot 1 and Lot 2) 100% completed.</li> </ul> </li> <li>○ Batch II- (99.94Km) with a total of 8 contracts, only 6 contracts signed (with 70.86Km).               <ul style="list-style-type: none"> <li>▪ 2 contracts for Kampot have been signed on 16 June 2023, the construction progress is Lot 1= 57.00% and Lot 2= 55.97%</li> <li>▪ 2 contracts for Takeo have been signed on 3 February 2023, the construction progress is Lot 1=32.41% and Lot 2=73.69%</li> <li>▪ 2 contracts for Kampong Cham have been signed on 16 June 2023, the construction progress is Lot 1=6.54% and Lot 2=32.67%</li> <li>▪ 2 contracts for Tboung Khmum are under the bid evaluation process.</li> </ul> </li> <li>○ Batch III- (100.72Km) to be procured 100.72 km DED completed (95%)</li> </ul> <p>Total planned 271.95 Km but will procure only 250km due to budget limit.</p>	CS1 (MRD)



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<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 are submitted to PMU and waiting for approval.</li> </ul>	<ul style="list-style-type: none"> <li>○ Lab renovation: Daily operation by NAL.</li> <li>○ Net-house: stilled waiting water supply connection by KASEGRO Company.</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>	
	Establishing genetically modified organisms (GMO) and Phytotoxin	<ul style="list-style-type: none"> <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>○ Joint dissemination Workshop on SOP of Biofertilizer Quality Testing Manual, 1 course total participant of 36 people and 11 people as females.</li> <li>○ Joint dissemination Workshop on ISO 17025 Accreditation Guideline, 1 course total participant of 28 people and 9 people as females.</li> </ul>	<ul style="list-style-type: none"> <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>	<ul style="list-style-type: none"> <li>○ Genetically Modified (GM) Crops: GM crops benefit from a Reduction in Greenhouse Gas Emissions, an Increase in Crop Yield in Value chain production, Adaptation to Climate Change and a Reduction in Deforestation.</li> </ul>
	supporting ISO 17025 accreditation	<ul style="list-style-type: none"> <li>○ Dissemination workshop on ISO 17025 Accreditation Guideline, 1 course total participant of 28 persons and 10 persons as females.</li> <li>○ Draft document for Laboratory Management System Manual.</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the ISO 17025 accreditation guideline by IA-GDA, relevant stakeholders and preparing the publication of ISO 17025 guideline after the endorsement.</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</li> </ul>	<ul style="list-style-type: none"> <li>○ The ISO 17025 Accreditation guideline was endorsed and waiting for publication.</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
			<p>participant of 108 persons and 37 persons as females.</p> <ul style="list-style-type: none"> <li>○ Conducted Consultative workshop on ISO 17025 Accreditation Guidelines (7<sup>th</sup> Version),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 situation and assess to their understanding of ISO 17025</li> <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>○ Dissemination workshop on Plant tissue culture development of manual, 1 course total participant of 36 persons and 14 persons as females.</li> <li>○ Orient with PPIU and Agriculture Communities on dissemination workshop on Cassava Tissue Culture objective</li> <li>○ Technical training (for NAL) on cassava plant tissue culture for 1</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the “Cassava plant tissue culture” manual by IA-GDA, relevant stakeholders and preparing the publication the cassava tissue culture guideline after the endorsement.</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> </ul>	<ul style="list-style-type: none"> <li>○ The cassava tissue culture guideline was endorsed and waiting for publication.</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ course total participant 12 and 9 as females.</li> <li>○ Prepare lesson for technical training</li> </ul>	<ul style="list-style-type: none"> <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 course total participant of 4 person and 4 persons as females.</li> </ul>	
	Assisting the laboratory commercialization process	<ul style="list-style-type: none"> <li>○ Developing and finalizing the concept note on trainings on Laboratory Commercialization and Service Marketing for NAL’s staff.</li> <li>○ Participating the consultative workshop on the Development of Guideline on ISO17025 accreditation.</li> <li>○ Attending the technical work group meeting on the development of the technical manual on “Climate Smart Agriculture on Tropical Fruit CamGAP Standard”.</li> <li>○ Continuing the preparation of lesson and training materials for training on</li> </ul>	<ul style="list-style-type: none"> <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 joining 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</li> </ul>	

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		<p>Laboratory Commercialization and Service Marketing for NAL's staffs. Conducting field visits to providing the brief explanation on cassava seed production technique on the second generation (G2) and certified seed, and to promote the potentials commercialization opportunities on cassava seed production among the Acs.</p>	<p>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).</p> <ul style="list-style-type: none"> <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>○ <b>Wait for the procurement update.</b></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>○ Technical training on Biofertilizer/pesticide for 1 training with 12 participants (9 women).</li> <li>○ Orient meeting on develop manual of SOP Biofertilizer quality testing with PPIUs staffs and Agriculture Communities. <u>Develop manual:</u></li> <li>○ Conducted dissemination workshop on SOP for Biofertilizer Quality Testing Manual, 1-course total participant of 36 people and 11 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> </ul>	<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 cassava tissue culture guideline after the endorsement.</li> <li>○ Technical training on Biofertilizer/pesticide for 10 training with 175 participants (89 women).</li> <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 SOP for organic fertilizer Quality Testing Manual, 1-course total participant of 28 people and 9 people as females.</li> </ul>	<ul style="list-style-type: none"> <li>○ The SOP for organic and bio fertilizer Quality Testing Manual was endorsed and waiting for publication.</li> </ul>

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			<ul style="list-style-type: none"> <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 people as females.</li> <li>○ Developed draft manual on SOP for quality testing of organic fertilizer: completed (8th revision)</li> </ul>	
<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>○ Provincial monthly Progress meetings 9 meetings=127/33 are female.</li> <li>○ Workshop on standards for biodigester management and compost production 4courses=137/43 are female.</li> <li>○ Small group meeting for extension &amp; seeking the interest clients 6 meetings=123/30 are female.</li> </ul>	<u>Bio-digester:</u> <ul style="list-style-type: none"> <li>○ Construction: not yet started (BER ongoing)</li> <li>○ 40,596 farmers (female =19,279 (47%) as compare with the DMF=101.49%) 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 18% (1078 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> </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</li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
			<ul style="list-style-type: none"> <li>○ 179 biodigesters construction completed and functioning with (716 beneficiaries (430 Female)).</li> </ul>	compost huts.
1.f2.	6,000 Compost-huts made operational benefiting 40,000 persons (50% are women)	<p><u>Compost-hut:</u></p> <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>○ Provincial monthly Progress meetings 9 meetings=127/33 are female.</li> <li>○ Workshop on standards for biodigester management and compost production 4courses=137/43 are female.</li> <li>○ Small group meeting for extension &amp; seeking the interest clients 6 meetings=123/30 are female.</li> </ul>	<p><u>Compost-hut:</u></p> <ul style="list-style-type: none"> <li>○ Construction: not yet started (BER ongoing)</li> <li>○ 40,596 farmers (female =19,279 (47%) as compare with the DMF=101.49%) 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 18% (1078 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> <li>○ Support input for integrated farming demonstrations: 90 demonstrations and training were completed with 284 participants (170F) 89 demonstration farmers and training have not yet started</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>
	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> </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>	

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
		<ul style="list-style-type: none"> <li>○ Worked on a Draft of 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>○ In this month CARDI provided BMP training to Agriculture Cooperative members=200 (86f) that from.               <ul style="list-style-type: none"> <li>- TAK=50/17f</li> <li>- KPT=50/30f</li> <li>- KCM=50/29f</li> <li>- TBK=50/10f</li> </ul> </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' demonstration in CFAVC Project (Foundation seed from CARDI)               <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> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ Rice Seed released:               <ul style="list-style-type: none"> <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> </ul> </li> <li>○ Maize seed released               <ul style="list-style-type: none"> <li>○ 1) CM1 released 2015 (from CARDI)</li> <li>○ 2) CHM01 released 2020 (from GDA)</li> </ul> </li> </ul>

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
			<ul style="list-style-type: none"> <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 CARDI provided 98 training of farmers group on best management practice (BMP) on rice, cassava, and maize and Rice seed production Technique and follow up (RSPT/FU).</li> <li>o Total training=2600 /1260(f)=48%</li> <li>o 2022 training=1300/609f</li> <li>o 2023 progressed until end of Dec</li> <li>o 40 BMP training =1000/506Females</li> <li>o 12 RSPT training=300/145Females</li> <li>o The result progress of on-farm rice seed production demonstration, Total participants=93/28f</li> <li>o National reflection workshop on result progress of on-farm cassava seed production</li> </ul>	



No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
			<p>demonstration, Total participants=93/28f</p> <ul style="list-style-type: none"> <li>○ National reflection workshop on result progress of on-farm maize seed production demonstration, Total participants=93/28f</li> <li>○ Technical training on farm rice seed demonstration production to PDAFF staff by CARDI, Total participants=16/7f</li> </ul> <p>During the reporting period, CARDI provided BMP training to Agriculture Cooperative members=200 (86f) that from.</p> <ul style="list-style-type: none"> <li>- TAK=50/17f</li> <li>- KPT=50/30f</li> <li>- KCM=50/29f</li> <li>- TBK=50/10</li> </ul>	
<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	<ul style="list-style-type: none"> <li>• 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 ACs business development plans have moved forward as follows:</li> <li>• 2 TOT courses on Sustainable Rice Platform. Total participants 45, female 23, equal to 51%.</li> <li>• A TOT course on Laser Land Levelling for provincial trainer. Total participants 22, female 5, equal to 23%.</li> <li>• A TOT course on Rice Postharvest Technology for provincial trainers. Total participants 25, female 3, equal to 12%.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>18,508</b> farmers of which <b>8,431</b> were female (<b>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:</li> <li>• The training of farmers on Climate Smart Agriculture (CSA) was trained 3,825 persons of which 2,093 are females (55%).</li> <li>• The training of farmer on Sustainable Rice Production (SRP) was trained 5,902 of which 3,496 are females (59%).</li> <li>• The training of farmer on ACs boards on ACs business development was trained 2,657 of which 729 are females (27%).</li> </ul>	<p><b>New Added:</b></p> <ul style="list-style-type: none"> <li>• 6 training sessions were facilitated for farmers in 4 targeted provinces, focusing on the best management practices (BMP) for rice, cassava, and maize production. These sessions were attended by 150 participants, 82 of whom were females.</li> <li>• PPIU-KCM conducted a training on</li> </ul>

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		<ul style="list-style-type: none"> <li>• A TOT course on Agricultural Extension Method for Commune Extension Officers and PPIUs. Total 24 persons/female 09, equal to 38%.</li> <li>• 4 forums on multilateral matching platform on various condition of contract farming with a total of 161 participants, 39 females, equal to 24%.</li> <li>• 4 workshops on verification workshop on the result of contract farming implementation conducted in May with a total of 159 participants, 29 females, equal to 18%.</li> <li>• 4 Dissemination workshops with stakeholders on Agro-Industrial Development Strategies for climate-friendly agribusiness with a total of 119 participants, 21 females, equal to 18%.</li> <li>• A dissemination workshop on procedure for seed registration and certification. Total participants 41 female 14, equal to 34%.</li> <li>• 6 training sessions were facilitated for farmers in 4 targeted provinces, focusing on the best management practices (BMP) for rice, cassava, and maize production. These sessions were attended by 150 participants, 82 of whom were females, 55%.</li> <li>• PPIU-KCM conducted a training on units/tools operation and management for ACs boards and members. Total 25 persons/female 04, equal to 16%.</li> </ul>	<ul style="list-style-type: none"> <li>• The training of farmers on CamGAP was trained 823 farmers of which 336 are females (41%).</li> <li>• Training of farmers on landscape restoration (farm mechanization) was trained 2,249 farmers of which 644 are females (29%).</li> <li>• The workshop on contract farming and dissemination on procedure for seed registration and certification, quality declare seed and seed law and regulation was trained 713 persons of which 172 are females (24%).</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 300 farmers of which 145 are females (46%)</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>units/tools operation and management for ACs boards and member. Total participants 25 female 04.</p> <ul style="list-style-type: none"> <li>• 4 forums on multilateral matching platform on various condition of contract farming with a total of 161 participants, 39 females.</li> <li>• 4 workshops on verification workshop on the result of contract farming implementation with a total of 159 participants, 29 females.</li> <li>• The dissemination workshop on procedure for seed registration and certification. Total participants 83 female 24.</li> <li>• A dissemination workshop focusing on the Quality Declared Seed</li> </ul>

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				<p>System (QDS). Total of 41 attendees. Among these participants, 11 were women.</p> <ul style="list-style-type: none"> <li>• 4 Dissemination workshops with stakeholders on Agro-Industrial Development Strategies for climate-friendly agribusiness with a total of 119 participants, 21 females.</li> </ul>
	<p>Support laser land leveling up to 3,000 ha (approximately 750 ha per province)</p>	<p>Progress during the reporting period:</p> <p>1). 18 irrigation systems (6 from FWUCs and 12 from ACs) were collected data and identified boundary for consider selecting around 2227ha ha for laser land levelling such as.</p> <ul style="list-style-type: none"> <li>• 1529ha data complected in hand (TAK=720ha, KPT=183ha, KCM=326ha and TBK=300ha)</li> <li>• 698 ha on going data in FWUC/ACs (TAK=44ha, KPT=70ha, KCM=534ha and TBK=50ha).</li> </ul> <p>2). Anyway, project has been implementing for laser Land levelling 70ha/418ha, that</p> <ul style="list-style-type: none"> <li>• TAK=20ha</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 prepared by CS1 and in consultation with CS2 and the procurement unit of PMU.</li> <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 with730HHs(258F)</li> <li>○ TBK: 58.30Ha with 646HHs (302F)</li> </ul> <p>Total: 418.58 Ha with 2,778HHs (1,227F).</p>	<p>Based on minutes of Meeting with ADB and MAFF-PMU on CS3 Package</p> <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>

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		<ul style="list-style-type: none"> <li>• KPT=10ha</li> <li>• KCM=18ha</li> <li>TBK= 22ha</li> </ul>	<p>In this month, 18 irrigation systems (6 from FWUCs and 12 from ACs) were collected data and identified boundary for consider selecting around 2227ha ha for laser land levelling such as.</p> <ul style="list-style-type: none"> <li>• 1529ha data complected in hand (TAK=720ha, KPT=183ha, KCM=326ha and TBK=300ha).</li> <li>• 698 ha on going data in FWUC/ACs (TAK=44ha, KPT=70ha, KCM=534ha and TBK=50ha)</li> </ul> <p>2). Anyway, project has been implementing for laser Land levelling 70ha/418ha, that</p> <ul style="list-style-type: none"> <li>• TAK=20ha</li> <li>• KPT=10ha</li> <li>• KCM=18ha</li> <li>• TBK= 22ha</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>○ Monitor and field coaching key farmer for rice, cassava and maize seed demonstration in the field with PPIU for 2023 in 4 target provinces on:</li> <li>○ Follow up the rice seed demonstration production (2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Rice seed demonstration production (2020-2023)</li> <li>• Name of seed: PRD, PMD and CAR16 and Champeisar70 (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) <ul style="list-style-type: none"> <li>▪ 2023 seed distribution until Sept =1,790kg (PRD=1,420kg, PMD=120kg, CAR16=80kg and Champeisar70=170kg)</li> </ul> </li> <li>• Surface=35.46ha</li> </ul>	<p>Notes from the filed demonstration:</p> <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</li> </ul>

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		<p>Cassava seed demonstration production (2023)</p> <ul style="list-style-type: none"> <li>▪ 12 key farmers were following up and coaching</li> </ul>	<ul style="list-style-type: none"> <li>• Key farmer demos=93/48f</li> <li>• Sown=93</li> <li>• Transplanting =93</li> <li>• Harvested=92 demos</li> <li>• Seed multiplication to communities=25,107kg (PRD=14960kg, PMD=4467kg, CAR16= 2800kg and Campeisar70=2880kg)</li> <li>• Cassava seed demonstration production (2021-2023)</li> <li>• Name of seed: 81, Rayong9, Hauybong60, KU50, (from Chamkaleu station)</li> <li>• Farmers demo52/27f</li> <li>• Surface: 52ha (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> <li>• Cassava seed distribution to key farmers=15,600bundles (81=11,250bundles and Rayon9=3000 bundles, KU50=225 bundles and Huybon60=1,125 bundles):</li> <li>• 2020-2022=12,000 bundles</li> <li>• 2023 progress until Sept distribution cassava seed =3600 bundles</li> <li>• Key farmer demos=12/5f</li> <li>• Surface=12ha</li> <li>▪ Harvesting=10 farmers, (lose 2 farmers in Tboung Khmum province)</li> <li>▪ Average yield=27446kg/ha</li> </ul>	<p>adapted to a wide range of growing conditions, has a low impact on soil quality, and provides a high starch content.</p> <p>- Maize crop is more suitable for the dry season than the rainy season, both in terms of growth and yield, short life span, and fruit size, like 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>

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		<p>Maize seed demonstration progressed was follow up the previous results for awareness during meeting with relevant stakeholders.</p>	<ul style="list-style-type: none"> <li>▪ Cassava seed multiplication to communities=4870 bundles</li> <li>• Maize seed demonstration production (2022-2023)</li> <li>• Name of seed: CHM01 and CM1 (CHM01 from Banteaydek station/GDA and CM1 seed from CARDI)</li> <li>• Farmers demo55/26f</li> <li>• Surface: 27.5ha</li> <li>• Average yield 5.12T/ha</li> <li>• Many people interesting and need seed (CHM01) distribution to community</li> <li>• 2023 progressed:</li> <li>• 19key farmers for maize seed demonstration were selected and planting in Kampot and kampongcham provinces</li> <li>• Surface=5ha</li> <li>• 150kg of maize (CHM01 from GDA, Banteaydek station) distribution to key farmers</li> <li>• 10 farmers harvested in KPT</li> </ul> <p>15 farmers are planting in KCM</p>	
2.c.1	27 FWUCS of FWUGS made full operational	<ul style="list-style-type: none"> <li>○ 1 FWUC and 1 FWUG completed 88% (Tbong Darei FWUC and Kampong Raing FWUG)</li> <li>○ 10 FWUCS will start because of budget was approved,</li> </ul>	<ul style="list-style-type: none"> <li>○ 15 FWUCs/FWUGs completed 100%.</li> <li>○ 10 FWUCS will start for this month, Total 27 schemes (500 FWUCs)</li> </ul>	There is adequate budget for 10 new FWUCs/FWUGs either establishment or capacity building

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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>○ On the job training of: <ul style="list-style-type: none"> <li>▪ Gate and structure operation and maintenance for 3 FWUCs in Takeo province.</li> </ul> </li> </ul> <p>Total 101 participants of whom 36 women.</p>	<ul style="list-style-type: none"> <li>○ 161 courses provided to 6,278 FWUCs/ FWUGs representatives and local authorities of whom 1,730 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: Visit the Mechanical Workshop at province</li> </ul>	<ul style="list-style-type: none"> <li>▪ Readiness of Mechanical Workshop in TBK, KPT, KCM for installation</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.</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 complete.</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>○ The meeting with technical working group of the development of CamGAP standard. The total participants are 25 persons of which 8 are females.</li> <li>○ The meeting with relevant stakeholders for the development of the tropical fruit CamGAP standard reviewing on Mango. The total participants are 28 persons of which 6</li> </ul>	<ul style="list-style-type: none"> <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> </ul>	

No. DMF	Activities	Current Month <sup>1</sup> (May 2024)	Accumulative to date <sup>2</sup> (May 2024)	Remarks <sup>3</sup>
		<p>are females.</p> <ul style="list-style-type: none"> <li>○ The meeting with PPIUs to review and verify the draft version of the CamGAP standard of Mango at KPT, TKP, TBK and KPC Total: 12 person/02 are female.</li> <li>○ Meeting with AC board and members on training of farmers at KPT, TKP, TBK and KPC. Total: 25 persons / 09 are female.</li> <li>○ Filed technical assistants on CamGAP activities at the farm of farmers. Total: 08 farmers / 02 are female. .</li> </ul>	<ul style="list-style-type: none"> <li>○ Tropical Fruit CAMGAP Standards development for mango has been developed with 90% of the tropical Fruit CamGAP Standards under the preparation of meeting with relevant stakeholders to review the final draft version after the collect the inputs and discussion. CS2 will continue to coordinate with involving relevant departments (IA-GDA) to endorse this technical guideline accordingly.</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: 396 persons/ 207 are female.</li> <li>○ The fieldwork has been visited at the mango farms and support technical for the CamGAP improvement practical and technical support on farm management based on the market to 160 persons/ 73 are female based on the standard requirement.</li> </ul>	
3.c	Good Agriculture Practices for organic fertilizer endorsed	<ul style="list-style-type: none"> <li>○ Ongoing work to get involvement with other stakeholders for the biofertilizer and organic fertilizer standard publication.</li> </ul>	<ul style="list-style-type: none"> <li>○ Endorsed the manual on SOP for quality testing of organic fertilizer by IA-GDA, relevant stakeholders and preparing in public of the manual on SOP for quality testing of organic fertilizer after the endorsement.</li> </ul>	
<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 the training on cause and impact of Climate Change to PDAFF, Banks and MFIs reflecting on climate risk sharing and green financing accessing to 94 participants of which 23 are females including 44 local banks/MFI. The training was focused on the climate risks, impact, causing and adaptation and mitigation actions</li> </ul>	<ul style="list-style-type: none"> <li>○ Identified: 50 Bank/MFI are initial identified with the list of banks for the target of CSA and green financing.</li> <li>○ Training on 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,</li> </ul>	



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		<p>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.</p> <ul style="list-style-type: none"> <li>○ Provide training and shared experience on the ESG and green born to 6 ARDB/Department of Green Financing and request to be a part of the Green Facility Committee formulation to ensure that their lending condition and interest rate are more relax condition and fit to AC to access the financing.</li> <li>○ Agreed workplan with ABC and MFI association on capacity building to the local bank and MFI on the green financing in Cambodia.</li> <li>○ The Green Climate Fund (GCF) has given the green light for the Cambodian Climate Financing Facility (CCFF) at its 38th board meeting held in Rwanda. This pivotal move, involving a \$100 million concessional funding, is set to propel Cambodia towards a more sustainable and eco-friendlier economic framework. It's a good chance for Agriculture Cooperatives (ACs) for apply and got green load to investment project.</li> </ul>	<p>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.</p> <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 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 the Green Financing with ARDB and ACLEDA.</li> <li>○ 26 staff from the Associate Banks of Cambodia (ABA), Banks, Micro Financial Institutions, and ARDB of which 6 are females trained in CSA and green finance.</li> <li>○ Additional 2 local banks have been identified to meet target 50 Banks and MFIs to attend the training</li> <li>○ 50 local banks/MFI were trained on the climate risks sharing, CSA and access to green financing.</li> </ul>	
3.e	30 agribusinesses trained in green finance and CSA	<ul style="list-style-type: none"> <li>○ Meeting and discussion to selected Agri-business and PPIU on the understanding on green financing and Climate Smart agriculture to the 65/12</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> </ul>	

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		<p>participants from Kampong Cham and Tbong Khmum, 58/8 participants from Kampot and Takeo. All participants are well understanding on the ESG and willing to develop a good business plan development and green financing facility.</p> <ul style="list-style-type: none"> <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>	<ul style="list-style-type: none"> <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>○ 34 agribusiness of which 8 are female (25%) are interviewed and discussed on the current agricultural business. These privates' sectors will be screen to select the potentials private sectors for involved and initiate to link 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> </ul>	
3.f	20,000 Households were provided with information on climate risk-sharing instruments	<ul style="list-style-type: none"> <li>○ Conducted 2 trainings on understanding the green financing and CSA to agribusiness and agricultural cooperative. The total participants are 120 of which 21 are female.</li> <li>○ Meeting with PPIUs on the Climate risks, accessing the green financing and agri-business modality to awareness to the ACs's members at Tbong Khmum province with total 5/1 of PPIU staff.</li> </ul>	<ul style="list-style-type: none"> <li>○ On-site meeting/training/workshop: 111 completed of meeting orientations on the agribusiness to ACs provided with information on climate risk-sharing instruments on crop insurance and green financing (Total Participant: 2,406 of which 804 are females).</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 and in printing process</li> <li>○ Organize workshops to share climate information to ACs members: ongoing</li> <li>○ Involved in signing an agreement on data</li> </ul>	

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		<ul style="list-style-type: none"> <li>○ Discuss with Crop insurance to disseminate the crop insurance information to the farmers and ACs.</li> <li>○ Finalize on the leaflet for awareness raising on climate change and agribusiness to distribute to farmers</li> <li>○ Finalize training material on climate data sharing and access to green financing to provide TOT training to PPIU to eco-training to farmers.</li> </ul>	<ul style="list-style-type: none"> <li>○ sharing with Forte on Crop Insurance.</li> <li>○ Develop the ITC platform is ongoing.</li> </ul>	
	Creating an enabling environment for PPPs in agribusiness in the four value chains;	<ul style="list-style-type: none"> <li>○ Prepared the and finalize the notebook for 80 ACs have warehouse to record the In and Out of agricultural production.</li> <li>○ Conducted 2 TOT Trainings on Producer Group Establishing Guideline to AC's Committee at by PPIU-TBK with 50 participants (18 Female = 36%)</li> <li>○ Conducted 2 trainings implemented by PPIU-KCM with 50 participants (8 Females)</li> <li>○ Dissemination meeting on the principles of contract farming: 2 dissemination meetings were conducted by PDAFF-TAK with 71 participants (13F, equal 18%)</li> <li>○ 2 Dissemination Workshops on the Contract Farming Mechanism of Rice with 79 participants (17 female = 21%)</li> </ul>	<ul style="list-style-type: none"> <li>○ Crop-centric forums for rice, cassava, maize, mango, and other specific crops: 7 forums were conducted with a total of participants 291 (50F, equal 17%).</li> <li>○ TOT Training on Producer Group Establishing Guideline to AC Committee: 3 courses of training with a total of participants 66 (24F, equal 36%)</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: 6 meeting conducted with a total of participants 266 (162F, equal 61%). 6 meeting conducted with a total of participants 232 (130F, equal 56%).</li> <li>○ Meeting to develop internal regulations and production calendar plan.</li> <li>○ Business Forum conducted 3 courses on rice, cassava and maize. The total participants are 80 persons of which 11 are Females.</li> </ul>	<ul style="list-style-type: none"> <li>- In 2023 have a Contract farming organized by PDAFF-KPT</li> <li>- In 2023 have a Contract farming organized by PDAFF-KPT</li> </ul>

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		<ul style="list-style-type: none"> <li>○ 5 Rice and 1 Maize contractions were signed by AC leaders with private Sectors, 102 participants (32 female = 31%)</li> <li>○ 2 Dissemination Workshops on Contract Farming Mechanism of Maize with 80 participants (25 female = 31%)</li> <li>○</li> </ul>	<ul style="list-style-type: none"> <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: 12 meetings conducted with 513 (145F, equal 28%).</li> <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 19 events, total 257 of which 90 are females.</li> <li>○ AC Kaksikor Rung Roerung 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 csaava 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</li> </ul>	

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			<p>Amru Rice 850 Mt/year for one year period.</p> <ul style="list-style-type: none"> <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 Akpuiwat 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 Sdoc 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 Climate-Friendly Agribusiness Value Chains Project (CFAVC)	<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 (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>○ 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> <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> </ul>	CS4/ICT Platform

Activity	Prepared by Chhim Chhun	Checked by Sopha Sovannareth	Approved by Biranchi Kumar Choudhury
Person	M&E Specialist CS01	CS01 DTL	CS01 TL
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