



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

October 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 August 2023.

The project has consumed (time elapsed) **63%** (against 95 months), and overall disbursement is **24.5%** and expenditures rate is **21.0%** of the total fund (141.04M\$), and the overall project progress is **53.97%**.

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"> ▪ Ministry of Agriculture, Forestry and Fisheries (MAFF) Implementing Agencies (IAs): <ul style="list-style-type: none"> ➢ Cambodia Agricultural Research and Development Institute (CARDI) ➢ General Directorate of Animal Health and Production (GDAHP) ➢ General Directorate Agriculture (GDA) ▪ Ministry of Water Resources and Meteorology (MOWRAM) Implementing Agencies (IAs): <ul style="list-style-type: none"> ➢ General Directorate of Technical Affairs ▪ Ministry of Rural Development (MRD) Implementing Agencies (IAs): <ul style="list-style-type: none"> ➢ General Directorate of Technical Affairs

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	55 months	61%
Loan 3661-CAM	Concessional ordinary capital resources lending	01 Oct 2018	30 Sep 2026	95 Months	60 months	63%
Loan 8346-CAM	Green Climate Fund	28 Mar 2019	30 Sep 2026	90 Months	55 months	61%

Table 3: Project Financing

Sources	Amount	Share of Total	October 2023	
			Disbursement*	Expenditure**
	(US\$ Million)	(%)	(%)	(%)
Loan(Concession)-L3661	90,000,000	63.81	30.0	26.3
Loan(GCF)-L8346	10,000,000	7.09	17.7	13.9
Grant(GCF)-G0579	30,000,000	21.27	16.2	12.7
RGC	7,376,000	5.23%	12.3	10.0
Beneficiaies	3,664,000	2.60%	-	0
Total fund	141,040,000	100.00%	24.5	21.0

Note: * = Cumulative up to October 2023 "Combined all PMUs", extracted from ADB-LFIS/GFIS system.

**= Cumulative up to September 2023

Table 4: Overall physical progress:

Outputs	Assigned weight	Progress (%)
Output 1	65.00	38.13
Output 2	20.00	10.35
Output 3	15.00	5.49
Overall	100.00	53.97

III. IMPLEMENTATION PROGRESS

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
Output 1: Critical agribusiness value chain infrastructure improved and made climate-resilient				
Activity 1.1. Rehabilitating water management infrastructure				
1.a	27 Irrigation and water management systems rehabilitated and made climate-friendly	<ul style="list-style-type: none"> Completed the construction 3 schemes Ongoing construction 4 schemes DED has completed 24/27 of the total schemes 	<ul style="list-style-type: none"> 25 schemes DED completed (14,172 Ha) 2 schemes DED ongoing (935Ha) 7% Completed construction (100%) 9=3,250Ha Total 27 schemes	CS1 (MOWRAM)
1.b	500 On-farm rainwater harvesting ponds commissioned	<ul style="list-style-type: none"> Bidding evaluation process for 279 ponds (CW1. A.1:80, CW1. B.1: 63, CW1. C.1:66 and CW1. D.1:80) 	<ul style="list-style-type: none"> Construction has not yet started 278 completed DED and are in the stage of the procurement process Kampot 80 RWHPs in Batch I has already awarded contract 521 not yet started Total: 500	CS1 (MOWRAM)
	15 drip irrigation demonstration units on mango farmers' land	<ul style="list-style-type: none"> This activities, no any activity progress in month 	<ul style="list-style-type: none"> 15 farms have been identified. 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. 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. We have done the BoQ estimation for each 	It is in the stage of procurement process

¹ progress report within the current month² progress report accumulated since the project started in 2019³ Remarks for within the current month

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			drip irrigation and solar pump. <ul style="list-style-type: none"> ○ 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. 	
Activity 1.2 Upgrading agricultural cooperative value chain infrastructure				
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	<ul style="list-style-type: none"> ○ The 14 warehouses for construction will be completed soon. ○ Ongoing construction of 25 warehouses. 	<ul style="list-style-type: none"> ○ 55 ACs Completed construction 100% ○ 25 ACs construction complete 100%. ○ Total 80 ACs 	<ul style="list-style-type: none"> ○ CS1-MAFF ○ PPIUs Continue to follow up on the ACs
1.d.2	Photo-Voltaic study and Installation (for energy efficiency measures and solar power) At least 10 agribusinesses become more resource-efficient in energy savings (20%)	<ul style="list-style-type: none"> ○ Technical points and implementation issues were discussed between International Specialist and National Specialist. ○ Followed up monthly's actions plan with PPIUs. All activities postponed (meeting with 35 ACs) due to limited capacity and related issues. ○ Reviewed solar technologies packages for drip irrigation on mango demonstration. ○ Followed up the Solar Energy Rooftop System installation at the selected 23 AC Warehouses, 1 PADCs and 1 MEWs 	<ul style="list-style-type: none"> ○ Set up a specific action plan for PV technology and implementation for 2023. ○ Discussed with 22 ACs to identify 10 potential Agribusinesses that suits with solar energy technology Investment. 4 Agribusinesses were identified to date and further related actions will carried out with the PPIU supports. ○ Design a proper solar technology package for the implementing agency for further discussion. ○ To date Update: 36 Solar Energy- Rooftop Systems (45%) Installed. 33 systems for AC Warehouses, 2 systems for PADC and 1 system for MEW. All systems have been operated under the certain condition. 	<ul style="list-style-type: none"> ○ Solar Energy to ensure sustain productivity, reducing production cost and contribute to climate changes (Water Pumping, Drying, Eggs Incubation and feeds grinding processed etc.,) ○ Final design meeting schedule and accepted by PPIUs for the actions ○ Finalized Solar Sater Pump specification for procurement processing. • Integrated activities for technologies awareness, and

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ○ Developed operational signboard to be printed and placed at every system (PPIUs to organize the tasks with user groups). 	<p>promotion to improve the agribusiness value chain, cost reduction and environment benefits.</p>
	Equipment and materials for 15 Drip Irrigation Systems (includes tube wells/water source connection, solar pumps, and other agricultural inputs e.g. training)	<ul style="list-style-type: none"> ○ Reviewed solar technologies package for drip irrigation on mango demonstration. 	<ul style="list-style-type: none"> ○ Design a proper solar technology package for the implementing agency for further discussion. 	<ul style="list-style-type: none"> ○ Installation of equipment and tools are included.
	<ul style="list-style-type: none"> -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"> ○ Actions to carry forward the following months 	<ul style="list-style-type: none"> ○ Ongoing progress 	<ul style="list-style-type: none"> ○ Installation of equipment and tools are included.
Activity 1.3 Improving Connectivity to Cooperatives and Market through climate resilient farm road networks:				
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"> ○ Ongoing construction of 8 contracts 	<ul style="list-style-type: none"> ○ Batch I- (71Km) with a total of 8 contracts ○ Construction is ongoing: <ul style="list-style-type: none"> ▪ 2 contracts for Takeo are (Lot 1&Lot 2) 95% completed. • 2 contracts for Kampot (Lot 1-90% and Lot 2- 98% completed. • 2 contracts for Kampongcham (Lot 1 & Lot 2-97% completed. • 2 contracts Tboung Khmum (Lot 1-95% and Lot 2-87% completed. ○ Batch II- (100.12Km) with a total of 8 contracts, only 6 contracts signed (with 70.86Km). 	CS1 (MRD)

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ▪ 2 contracts for Kampot have been signed on 16 June 2023, (Lot 1- 25% completed and Lot 2 not yet start) . ▪ 2 contracts for Takeo have been signed on 3 February 2023, the construction progress is (Lot 1- 4% and Lot 2- 14% completed. ▪ 2 contracts for Kampong Cham have been signed on 16 June 2023, the construction is not yet started. ▪ 2 contracts for Tboung Khmum is under bid evaluation process. ○ Batch III- (100.72Km) to be procured 100.72 km DED completed (95%) <p>Total planned 271.95 Km, but will procure only 250km due to budget limit.</p>	
Activity 1.4 Strengthening Infrastructure for agricultural quality and safety testing at the National Agricultural Laboratory (NAL)				
1.e	Crop product quality and safety testing infrastructure in the National Agriculture Laboratory upgraded	<ul style="list-style-type: none"> ○ Lab renovation: Ready for daily laboratory work. ○ Net-house: construction is ongoing 100%, but still waiting for water supply connection and others. ○ First batch of chemical reagents for the biofertilizer laboratory is prepared for the procurement process 	<ul style="list-style-type: none"> ○ Lab renovation: construction completed ○ Net-house: construction is completed 100% ○ First batch of equipment is on ship now, and they are ready to install after the completed biofertilizer lab renovation. 	Net House: KASEGRO company waiting connection of water supply from state, spray water to control the temperature inside the Net house room, light front of room, roof net, two exhaust fans to complete the contract.
	establishing genetically modified organisms (GMO) and Phytotoxin	<ul style="list-style-type: none"> ○ Prepared of lesson for technical training on GMO & Phytotoxin and slide presentation for NAL's staff. ○ List of equipment for Revised the GMO and phytotoxin: ongoing and follow up with GMO specialist by Lab coordinator 	<ul style="list-style-type: none"> ○ Revised the list of equipment for GMO and phytotoxin. ○ Revised concepted note: Technical training on GMO & Phytotoxin - 2nd Training 	Recheck by GOM&Phytotoxin specialist
	supporting ISO 17025 accreditation	<ul style="list-style-type: none"> ○ Conducted consultative workshop on 	<ul style="list-style-type: none"> ○ Second draft of ISO 17025 guideline (from Dr. Mak Chanrathana) 	Started mobilizing from 1st June 2023

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		<ul style="list-style-type: none"> ○ guidelines for ISO 17025 application. ○ Conducted of technical working group on guidelines for ISO 17025 application. ○ Combined input and revised by participant comments on the guideline for ISO 17025 application after the consultative workshop and technical working group. ○ Research and prepare slide presentation & materials on guidelines for ISO17025. 	<ul style="list-style-type: none"> ○ Review consisting guidelines of ISO 17025 ○ Discussed with Dr. Mak Chanrathana for revision the ISO 17025 guideline ○ Draft outline for revision of ISO 17025 guideline ○ Communication with the Department of Accreditation (DA), Ministry of Industry, Science, Technology and Innovation (MISTI) ○ Preparing a document for assessing the laboratory to meet ISO 17025 criteria ○ Meeting with NAL staff to understand their laboratory situation and assess to their understanding of ISO 17025 ○ 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 ○ Finalizing the ISO 17025 guideline (English version) ○ Preparing PPT file in Khmer language for consultative workshop on ISO 17025 guideline 	
	Plant tissue culture (developing tissue culture protocols for banana and cassava)	<ul style="list-style-type: none"> ○ Conducted technical working group meeting on manual Cassava plant tissue culture technique (6th draft) development. ○ Conducted the develop manual of Cassava plant tissue culture (6th draft) after the technical working group meeting. 	<ul style="list-style-type: none"> ○ Developed manual of Cassava: completed of revising 6th draft. ○ Conducted technical training for NAL's staff. ○ Conducted technical working group meeting on manual Cassava plant tissue culture technique (6th draft) development. 	The manual of Cassava will implement on 18-19 October 2023 to prepare the final version.

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
	Assisting the laboratory commercialization process	<ul style="list-style-type: none"> ○ Completed the Training on laboratory commercialization and service marketing for PDAFF and ACs from Takeo and Kampot provinces at Kampot: ○ Attending the ADB mid-term review meeting (Kick-off and Wrap-up meetings) at MAFF ○ Joining the Technical working group on the development of SOP for organic fertilizer quality testing ○ Reviewing Guidelines and SOPs for GMO field trial and safety assessment: On-going 	<ul style="list-style-type: none"> ○ Completed the Training on laboratory commercialization and service marketing for PDAFF and ACs from Takeo and Kampot provinces at Kampot ○ Attending the ADB mid-term review meeting (Kick-off and Wrap-up meetings) at MAFF ○ Joining the Technical working group on the development of SOP for organic fertilizer quality testing: Completed ○ Peer-reviewing and editing manual on Cassava Plant Tissue Culture: Completed ○ Technical working group meeting on Manual on Cassava Plant Tissue Culture: Completed ○ Technical working group meeting on Guidelines on ISO17025 Application: Completed ○ Meeting and Sharing knowledge on plant tissue culture and laboratory commercialization in Takeo and Kampot provinces: Completed ○ Assessment of analysis/testing capacities of other laboratories in Cambodia: Completed ○ Preparation lessons for training on lab commercialization and service marketing: completed ○ Preparation of concept note: Completed ○ Preparation of Opening speech for speech for training on Laboratory commercialization and service marketing for PDAFF: Completed ○ Seed Policy for Cambodian (adopted in December 2016): Completed ○ Law on biosafety in Cambodia enacted by parliament on 28 December 2007: Completed ○ The enacted Law on Seed Management and Plant Breeder's Rights adopted by the parliament on April 08, 2008: ongoing 	The all activities ready to implementation by expert.

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ○ The legal framework on modern biotechnology developed by Codex Alimentarius Commission- FAO/WHO intergovernmental body: ongoing ○ The Biosafety regulations for GMO crop in Asia-Pacific: ongoing ○ Retrieving and Reviewing Guideline and SOPs for GMO field trial and safety assessment: On-going 	
	Supply analytical testing equipment	<ul style="list-style-type: none"> ○ All Lab equipment will be considered to procure limited quantities of supplies. 	<ul style="list-style-type: none"> ○ Bid Evaluation Report (BER) for previous NCB equipment, ongoing 	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><u>Technical training for NAL staff and PDAFF staff</u></p> <ul style="list-style-type: none"> ○ Prepared the draft concept note and training materials for on-job training for NAL staff ○ Prepared the training materials and poster on Sampling and handling techniques of biofertilizer and organic fertilizer for quality testing in the lab. <p><u>Develop manual:</u></p> <ul style="list-style-type: none"> ○ Ongoing work to develop the manual of Standard Operation Procedure and adding on new input of comments from participants of TWG. ○ TWGs meeting was conducted to review and comment on the 6th draft of SOP for quality testing of Biofertilizer. ○ Technical working group(TWGs) meeting was conducted to review and comment on the 5th draft of SOP for quality testing of organic fertilizer. ○ Consult and close with ISO 17025 accreditation specialist to carry on 	<ul style="list-style-type: none"> ○ Prepare concept for a technical training course for the staff of NAL: Completed ○ Prepare the training materials for the technical training course for staff: Completed ○ Prepare the technical training report: Completed ○ On-going to 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 ○ Prepared concept note: completed ○ Developed draft manual on SOP for quality testing of biofertilizer: completed (6th revision) ○ Developed draft manual on SOP for quality testing of organic fertilizer: completed (5th revision) ○ Developed manual of ISO17025 accreditation: completed (5th revision). 	The manual of Biofertilizer/Organic fertilizer will implement November 2023 to prepare the final version.

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		developing the 5th revision of the manual of ISO 17025 accreditation.		
Activity 1.5 Promoting renewable energy (bio-digesters and use of solar energy in target cooperative areas) for value chain improvement:				
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"> ○ Ongoing works to follow up on the activities under the research, development, pilot and functioning use of the bio-digester. 	<u>Bio-digester:</u> <ul style="list-style-type: none"> ○ Construction: not yet started (BER ongoing) ○ 29,305 farmers (female =13,855 (47%) have been trained and received information about Biodigester in Training & Capacity Building, Promotion & Marketing, Monitoring & Evaluation and Innovation & Value Chain Improvement activities. ○ The project identified 4,156 farmers of which 2,087 farmers are female for the potential to build the Biodigester. ○ The key farmer who has intended to buy: ongoing 16% (976 HHs) ○ The key farmer who has an interest: ongoing 4.71% (283 HHs). ○ Research, development, pilot, and use of the biodigester: ○ 69 biodigesters construction completed and functioning with (332 beneficiaries (172 F). 	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, the Mission proposed to reallocate some funds from other activities to meet the target.
1.f2.	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	<u>Compost-hut:</u> <p>Ongoing works to follow up on the activities under the research, development, pilot, and functioning use of the bio-digester.</p>	<u>Compost-hut:</u> <ul style="list-style-type: none"> ○ Construction: not yet started (BER ongoing) ○ 29,305 farmers (female =13,855 (47%) have been trained and received information about Compost hut and its benefit (bio-slurry use and management) in Training & Capacity Building, Promotion & Marketing, Monitoring & Evaluation, and Innovation & Value Chain Improvement activities. ○ The project identified 3,437 farmers of which 1,695 farmers are female for the potential to build the compost hut. 	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

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ○ The key farmer who has intended to buy: ongoing 16% (976 HHs) ○ The key farmer who has interested: ongoing 4.71% (283 HHs) ○ Research, development, pilot and use of the compost hut: ○ 69 compost-hut construction completed with (332 beneficiaries (172F) ○ Support input for integrated farming demonstrations: ○ 55 demonstrations and training were completed with 220 participants (110F) 	procurement method from NCB to shopping, and given the higher contribution by the project for biodigesters and compost huts, the Mission proposed to reallocate some funds from other activities to meet the target.
	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"> ○ Prepared concept notes and plan to conduct a dissemination Workshop on the National Biodigester Policy in Cambodia. ○ Worked on a Draft of Cambodian Domestic Biodigester Standard for Farmer's Friend Biodigester. 	<ul style="list-style-type: none"> ○ Policy on Biodigester Development in Cambodia 2021-2030, issued on 26 October 2021 by MAFF. ○ Draft Cambodian Domestic Biodigester Standard for Farmer's Friend Biodigester. 	
Output 2: Climate-smart agriculture and agribusiness promoted				
Activity 2.1 Deploying climate-resilient varieties				
2.a	3 Additional climate-resilient varieties of rice and maize released	<p>CARDI implementing activities as progressed in month as below;</p> <ul style="list-style-type: none"> ▪ Training of farmers groups on best management practice (BMP) of rice, cassava, and maize production and Training of farmer groups on rice seed production techniques and follow-up had reported in activity 2.2 (DMF. 2b) 	<ul style="list-style-type: none"> ○ 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 includes, advancing generation in CARDI and multi-location trials in collaboration with PDAFF staff. ○ One rice variety, named Champeisar70 was released in 2023 for farmers' demonstration in CFAVC Project (Foundation seed from CARDI) 	

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ○ CARDI provided 80 training of farmers group on best management practice (BMP) on rice, cassava, and maize and Rice seed production Technique and follow-up (RSPT/FU); <p>The total of farmers is 2,000 of which are female 965 (48%).</p>	
Activity 2.2 Strengthening Capacity in climate-friendly production practices and technologies:				
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	<p>In relation to CSA, SRP, CamGAP, and ACs business development, during this reporting period, the following training of trainers (TOT) and refresher training of trainers' courses were conducted.</p> <ul style="list-style-type: none"> • Four training of farmers groups on best management practice (BMP) of rice, cassava, and maize production for 100 farmers in four target provinces, 43 women, equal to 43%. • Training of farmer groups on rice seed production techniques and follow-up for 100 farmers in four target provinces, 44 women, equal to 44%. • One national training on Technical Pest Management Controls on Rice, Maize and Cassava Production for 29 provincial trainers, 16 women, equal to 55%. • Two training on Good Agriculture Practice (GAP) and Organic Rice Guidelines for 48 Agricultural Cooperative members, 9 women, equal to 19%. • Two training of trainers on CamGAP for mango for 38 provincial trainers, 10 	<ul style="list-style-type: none"> • 13,351 farmers of which 6,345 were female (48%) trained on CSA, SRP, CamGAP, ACs business development plan (for ACs boards) landscape restoration (farm mechanization), training of farmers groups on best management practice (BMP) of rice, cassava, and maize production, Training of farmer groups on rice seed production techniques and follow-up and dissemination workshop on contract farming mechanism. ▪ 183 participants, 49 females equal to 27% attended 6 workshops on seed law and seed systems conducted by the Department of Crop Seed (DCS). 	

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		<p>women, equal to 26%.</p> <ul style="list-style-type: none"> One refresher training of trainers (TOT) on O&M of Agricultural Machinery for 14 provincial trainers, 2 women, equal to 14%. 		
	Support laser land leveling up to 3,000 ha (approximately 750 ha per province)	This activity, no activity progress in a month.	<ul style="list-style-type: none"> 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 provincePackage 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. Summary progress of paddy selection for land leveling by Jan-Dec 2022. Takeo: 125.89Ha with 935HHs(397F) Kampot: 67.99Ha with 467HHs(260F) KCham:166.40Ha with730HHs(258F) TBK: 58.30Ha with 646HHs (302F) Total: 418.58 Ha with 2,778HHs (1,227F) 	<p>Based on minutes of Meeting with ADB and MAFF-PMU on CS3 Package</p> <p>Dated: 02 August 2023 ,through the virtual Zoom Meeting propose to change the procurement procedure from NCB to shopping</p>

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
	conduct "learning by doing" training by demonstrating and training in farmer fields in specific locations with three sites in each province	<ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ▪ 4 key farmers transplanting on rice seed demonstration production in target area. ▪ 3 key farmers have harvesting their rice seed demos ▪ Seed multiplication to communities(not yet) ▪ Cassava seed demonstration production(2023) ▪ 10 key farmers were follow up and coaching 	<p>1) Rice seed demonstration production(2020-2023)</p> <ul style="list-style-type: none"> • Name of seed: PRD, PMD and CAR16 and Champeisar70(Foundation seed from CARDI) • Seed distribution to key farmers(Foundation seed from CARDI)=5,060kg: • Surface: 95.54ha • Farmers demo:311p/145f • Average yield 3.98T/ha • Number seed produced: 262.497kg • Number seed multiplication to communities: 94.682kg(for all target provinces) <ul style="list-style-type: none"> ▪ 2023 seed distribution until Sept =1,790kg (PRD=1,420kg, PMD=120kg, CAR16=80kg and Champeisar70=170kg) <ul style="list-style-type: none"> ▪ Surface=35.46ha ▪ Key farmer demos=93/48f ▪ Sown=93 ▪ Transplanting =93 ▪ Harvested=8demos ▪ Seed multiplication to communities=2810kg (CAR16= 450kg and Campeisar70=2360kg) <p>2) Cassava seed demonstration production(2021-2023)</p> <ul style="list-style-type: none"> • Name of seed: 81,Rayong9, Hauybong60, KU50, (from Chamkaleu station) • Farmers demo:52/27f • Surface: 52ha(2020-2023) • Average yield 31.5T/ha(2021-2022) • Number cassava seed multiplication to 	

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		<p>Maize seed demonstration progressed in month as below:</p> <ul style="list-style-type: none"> ▪ 10 key farmers were follow up and coaching 	<p>communities: 10,000 bundles (at least 40ha)</p> <ul style="list-style-type: none"> • Cassava seed distribution 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"> - 2020-2022=12,000 bundles - 2023 progress until Sept distribution cassava seed =3600 bundles <ul style="list-style-type: none"> ▪ Key farmer demos=12/5f ▪ Surface=12ha <p>3) Maize seed demonstration production (2022-2023)</p> <ul style="list-style-type: none"> • Name of seed: CHM01 and CM1 (CHM01 from Banteaydek station/GDA and CM1 seed from CARDI) • Farmers demo:55/26f • Surface: 27.5ha • Average yield 5.12T/ha • Many people interesting and need seed(CHM01) distribution to communities <p>- 2023 progressed:</p> <ul style="list-style-type: none"> • 10key farmers for maize seed demonstration were selected and planting in Kampot province <ul style="list-style-type: none"> • Surface=5ha ○ 150kg of maize (CHM01 from GDA, Banteaydek station) distribution to key farmers 	
2.c.1	27 FWUCS of FWUGS made full operational	<ul style="list-style-type: none"> ○ 1 FWUC and 1 FWUG completed 88% (Tbong Darei FWUC and Kampong Raing FWUG) 	<ul style="list-style-type: none"> ○ 15 FWUCs/FWUGs completed 100%; ○ FWUCs are ongoing Tbong Darei and Kampong Raing completed 75%) 	There is short budget for 10 new FWUCs/FWUGs either establishment or capacity building

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		<ul style="list-style-type: none"> ○ 10 FWUCS not yet start because of short budget, 	<ul style="list-style-type: none"> ○ 10 FWUCS not yet start (no budget) Total 27 schemes (500 FWUCs) 	
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"> ○ Maintenance Plan Preparation and Pre/after seasonal maintenance Inspection trained to Prey Kdouch, Kraing Empil, Kwaeng Tayee, Chrouk 1+Plovtoek, and Prey Rumdeng FWUCs consisted of 190 trainees of whom 49 were women; ○ Prepare Maintenance Budget and Cost recovery Pou Tatress, O'Kamprok, and 5 Kompheak consisted of 126 trainees of whom 35 were women; Total 316 participants of whom 84 women 	<ul style="list-style-type: none"> ○ 130 courses provided to 5,099 FWUCs/ FWUGs representatives and local authorities of whom 1,408 were women; 	
Activity 2.3 Promoting farm mechanization and extension.				
2.d.1	4 Agricultural development centers were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> ○ Ongoing construction 1 PADC 	<ul style="list-style-type: none"> ○ 3 PADCs building construction completed. 	
2.d.2	4 Engineering workshops were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> ▪ Other Items of training equipment: ▪ Updated specification (version-4) for lathes, milling machine, heavy-duty lifting gear, heavy-duty drilling machine and shearing machine and other minor equipment. 	Updated specification and BOQ of all materials of the workshop with confirmed minor items, including electricity supply for the workshop.	Needs to be discussed more on procurement procedure specification writing.
Output 3: Enabling environment for climate-friendly agribusiness enhanced				
Activity 3.1: Formulating climate-friendly agribusiness policies and standards:				
3.a	Policy on Climate Smart and Gender Responsive Agribusiness and PPP Framework formulated	<p>Reviewing and gathering inputs for the 4th drafted version of the Guideline to link with private sectorengagement with the agriculture sector.</p> <p>- PPP specialist on duty and working closely with key relevant sectors</p>	<ul style="list-style-type: none"> ○ Development of Producer Group Establishments Guideline Linked with Private Sector to the Market: completed (4rddraft revision) to achieve the agribusiness group of contract farming 	PPP framework is on gathering relevant information

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
			<ul style="list-style-type: none"> ○ PPP specialist in developing process framework with key relevant sectors 	
3.b	Good Agriculture Practice for Tropical Fruit Endorsed (CamGAP)	<ul style="list-style-type: none"> ○ Conduct awareness agri-business and CamGAP to AC committees in KPC, TBK and TKP, total participants: 32 persons/15 are female. ○ Review and finalize document CamGAP with IA and GDA and set work plan for providing training to farmers in target areas. 	<ul style="list-style-type: none"> ○ Tropical Fruit CAMGAP Standards development for mango has been developed and finalize for budget and timeframe with 100% by involving relevant departments (IA-GDA). ○ The field work have been visit at the mango farms and support technical for farm management base on market to 45 per/14 are female base on standard requirement. ○ awareness to AC committees on agri-business and CamGAP standard total participants: 32 persons/15 are female ○ Technical support to 20 farmers/ 09 are female for apply CamGAP standard. 	
3.c	Good Agriculture Practices for organic fertilizer endorsed	<ul style="list-style-type: none"> ○ Ongoing work to develop the biofertilizer standard developments 	<ul style="list-style-type: none"> ○ Prepared concept note: completed ○ Developed draft manual on the biofertilizer standard development: Completed (6th revision) 	.National consultation workshop to review and comment on the 5 th draft manual on biofertilizer standard development has been completed, then the 6 th version will be conducted soon.
Activity 3.2 Promoting green finance and risk sharing mechanisms:				
3.d	50 Staff from financial institutions trained in CSA and green finance	<ul style="list-style-type: none"> ○ Meeting with Association Bank of Cambodia to finalize the training need assessment and develop a training material for the Risk and Environmental and Social Governing for Banks and MFI which plan deliver on the Q4 2023 ○ Meeting with ACLEDA Bank to discuss on the potential pilot green financing to 	<ul style="list-style-type: none"> ○ Identified: 50 Bank/MFI ○ TNA: completed ○ Training development plan: ongoing 80% ○ Development of training Materials: ongoing 70% ○ Delivery training: 5 training with ACLEDA and ARDB ○ Development of green finance landscape report: completed drafted. ○ National Consultation on report: draft 	

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		Agriculture Cooperatives at four target provinces	concept note completed. <ul style="list-style-type: none"> ○ Engaged with green financing facility establishment (MOE/ARDB/NBC/Mekong Strategy Partners progressed) and waiting GCF reviewing and approval. ○ Consultation on the Green Financing with ARDB and ACLEDA 	
3.e	30 agribusinesses trained in green finance and CSA	<ul style="list-style-type: none"> ○ Identified: 30 ACs/ Agribusiness ○ TNA: ongoing 50% ○ Development of training Materials: ongoing 70% ○ Delivery training: 4 training orientation on the agribusiness to 5 ACs at Tbong Khmum, Kampong Cham, Takeo and Kampot) (Total participant: 36 F16 ○ The 13 potential agribusiness on the Solar pumping, SCA and green business has been identify in 5 target districts in four target province ○ Work with concerning technical consultant to develop the brochure on solar pumping, SCA. 	<ul style="list-style-type: none"> ○ Identified: 30 ACs/ Agribusiness ○ TNA: ongoing 50% ○ Development of training Materials: ongoing 70% ○ Develop the climate change training material ○ Delivery training: 46 completed (Total Participant:561 F:242) ○ Conducted 2 training on Climate Change, Green Financing and Climate Smart Agriculture to 77 including 17 are women for ACs at four provinces 	
3.f	20,000 Households were provided with information on climate risk-sharing instruments	<ul style="list-style-type: none"> ○ Developed the Awareness raising material for providing TOT training to PPIUs at 4 provinces ○ Identified crop insurance companies and green loan: completed (Forte for crop insurance, ACLEDA/ARDB for green loan) ○ Develop extension materials: ongoing 10% ○ Organize workshop to share climate information to ACs members: ongoing 5% ○ Singed agreement on data sharing with Forte on Crop insurance ○ Developed brochure on the climate risk and project to distribute to the Acs 	<ul style="list-style-type: none"> ○ Identified crop insurance companies and green loan: completed (Forte for crop insurance, ACLEDA/ARDB for green loan) ○ Develop extension materials: ongoing 60% ○ Organize workshops to share climate information to ACs members: ongoing 5% ○ Sing agreement on data sharing with Forte on Crop insurance 	

No. DMF	Activities	Current Month ¹ (October 2023)	Accumulative to date ² (October 2023)	Remarks ³
		members		
	Creating an enabling environment for PPPs in agribusiness in the four value chains;	3.2.2.9 Organizing District business forum between producer group and buyers by signing the contract farming.	<ul style="list-style-type: none"> - AC Arkpirak Ponhea Krek Dambae has signed on Fresh Cassava product farming contract with Heng Leap Company amount 1,888 Mt for one year period. o AC Kasekor Dambea AC has signed on Fresh Cassava product farming contract with Heng Leap Company amount 542 Mt for one year period. 	On September 27 and 28, 2023 have two Contract farming organized by PDAFF-TKM
Activity 3.3 Supporting Climate Risk Management through Information and Communication Technologies (ICT):				
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	<ul style="list-style-type: none"> o An inception report has been prepared 	<ul style="list-style-type: none"> o The ICT consultant just mobilized in Jan 2023 and the inception workshop will be conducted on the 6th of April 2023. o The inception Report has been prepared o An inception workshop has been done o Developing System Requirement and Architecture Report. o Preparation for the Pilot Program for climate-smart Agriculture 	

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