



GREEN
CLIMATE
FUND



CLIMATE-FRIENDLY AGRIBUSINESS VALUE CHAINS SECTOR PROJECT (CFAVC)

QUARTERLY PROGRESS REPORT (Q3: July – September 2023)

30-October-2023

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Table of Contents

EXECUTIVE SUMMARY	1
1. INTRODUCTION AND BASIC DATA.....	2
2. UTILIZATION AND FUNDS	3
2.1 INTRODUCTION.....	3
2.2 CONTRACT AWARDS.....	4
2.3 DISBURSEMENT.....	5
2.4 RE-ALLOCATION (IF APPLICABLE).....	5
3. PROJECT PERFORMANCE	5
3.1 SCOPE OF THE PROJECT	5
3.2 ASSESSMENT ON LIKELIHOOD OF ACHIEVING PROJECT OBJECTIVES AND OUTCOMES.....	6
3.3 ASSESSMENT ON CHANGES OF PROJECT SCOPE (IF ANY MAJOR CHANGE).....	6
4. IMPLEMENTATION PROGRESS	7
4.1 OVERALL PROJECT PROGRESS.....	7
4.1.1 <i>Output 1: Critical Agribusiness Value Chain Infrastructure Improved and Made Climate Resilient</i>	7
4.1.2 <i>Output 2: Climate Smart Agriculture and Agribusiness Promoted.</i>	12
4.1.3 <i>Output 3: Enabling Environment for Climate Friendly Agribusiness Enhanced.</i>	14
4.2 SAFEGUARDS (SOCIAL, ENVIRONMENTAL AND GENDER).....	16
4.2.1 <i>Social Safeguards</i>	16
4.2.2 <i>Environmental Safeguards</i>	20
4.2.3 <i>Health and Safety</i>	29
4.2.4 <i>Gender Action Plan (GAP) (if applicable)</i>	29
4.3 FINANCIAL MANAGEMENT	29
4.3.1 <i>Status of Audit Implementation</i>	29
4.3.2 <i>Project Cost and Expenditure</i>	29
4.4 COMPLIANCE WITH LOAN/GRANT COVENANTS.....	32
4.4.1 POLICY LOAN COVENANTS	32
4.4.2 FINANCIAL COVENANTS.....	32
5. MAJOR PROJECT ISSUES.....	32
APPENDIX 1: PROJECT IMPLEMENTATION SCHEDULE.....	33
APPENDIX 2: DETAILED PROJECT IMPLEMENTATION PROGRESS	36
APPENDIX 3: PROCUREMENT PLAN	43
APPENDIX 4: PROCUREMENT MONITORING AND TRACKING FORM (PMTF)	69
APPENDIX 4.1 - PROCUREMENT MONITORING AND TRACKING FORM - GOODS.....	69
APPENDIX 4.2 – PROCUREMENT MONITORING AND TRACKING FORM - WORKS.....	71
APPENDIX 4.3 – PROCUREMENT MONITORING AND TRACKING FORM – CONSULTING FIRM	91
APPENDIX 5: LOANS COVENANTS STATUS.....	94
APPENDIX 6: PERFORMANCE AGAINST DMF	107
APPENDIX 7: PROGRESS OF GENDER ACTION PLAN (GAP).....	113
APPENDIX 8: RESULT OF FINANCIAL AUDIT FOR YEAR 2022	125
APPENDIX 9: MOU OF ADB MID-TERM REVIEW MISSION.....	134

List of Tables:

TABLE 1: PROJECT BASIC DATA..... 2

TABLE 2: A SUMMARY OF TOTAL COST BY SOURCE OF FUNDS: LOAN NO. 3661-CAM..... 3

TABLE 3: A SUMMARY OF TOTAL COST BY SOURCE OF FUNDS: LOAN NO. 8346-CAM..... 3

TABLE 4: A SUMMARY OF TOTAL COST BY SOURCE OF FUNDS: GRANT NO. 0579-CAM..... 3

TABLE 5: LIST OF CONTRACTS AWARDED BY COMPONENT IN Q3 2023..... 4

TABLE 6: PROJECT AWARDED CONTRACTS 2

TABLE 7: SUMMARY OF DISBURSEMENTS BY SOURCE OF FUNDS 5

TABLE 8: THE STATUS OF SOCIAL SAFEGUARDS FOR IRRIGATION SYSTEMS AND PONDS..... 16

TABLE 9: THE STATUS OF SOCIAL SAFEGUARDS FOR ROADS 17

TABLE 10: THE STATUS OF SOCIAL SAFEGUARDS FOR WAREHOUSES, PAEW & 3 PADC, AND COMPOST HUTS& BIO-DIGESTERS 18

TABLE 11: THE STATUS OF SEMI-ANNUAL REPORT OF SOCIAL SAFEGUARDS 18

TABLE 12: ENVIRONMENTAL MONITORING FOR SUBPROJECTS UNDER MOWRAM..... 20

TABLE 13: ENVIRONMENTAL MONITORING FOR SUB-PROJECTS UNDER CFAVC MRD 24

TABLE 14: CONSTRUCTION PROJECTS - AGRICULTURAL WAREHOUSES AND DEVELOPMENT CENTERS, CFAVC MAFF (BATCH 3 ONLY). 25

TABLE 15: PROJECT COST BY FINANCING SOURCES 29

TABLE 16: SUMMARY OF EXPENDITURES BY SOURCES OF FUND VS BUDGET..... 30

TABLE 17: SUMMARY OF EXPENDITURES BY PMUS VS BUDGET..... 30

TABLE 18: CONSOLIDATED EXPENDITURE BY CATEGORY (PMU-MAFF, MOWRAM & MRD)..... 31

ACRONYMS AND ABBREVIATIONS

AC	Agricultural Cooperative
ADB	Asian Development Bank
AESA	Agri-consulting Europe S. A
ASEAN	Association of Southeast Asian Nations
BER	Bid Evaluation Report
BPCR	Borrower's Project Completion Report
BoQ	Bill of Quantities
CAMGAP	Cambodia Good Agricultural Practice
CARDI	Cambodia Agricultural Research and Development Institute
CAVAC	Cambodia Agricultural Value Chain Program
CFAVC	Climate Friendly Agribusiness Value Chains Sector Project
CGF	Climate Green Fund
CRM	Certified reference materials
CSA	Climate Smart Agriculture
CS1	Project Implementation Consultants (PIC)
CS2	Capacity Building and Climate Smart Agribusiness Consulting Team
CS4	Information Communication Technology Platform
CS5	Feasibility Studies and Detailed Engineering Design Consulting Firm
CSR	Corporate Social Responsibility
DACP	Department of Agricultural Cooperative Promotion
DAEng	Department of Agricultural Engineering
DAL	Department of Agricultural Legislation
DAM	Department of Agricultural Machinery
DDR	Due Diligence Report
DED	Detailed Engineering Design
DMF	Design and Monitoring Framework
DoPS	Department of Planning and Statistic
DRP	Draft Resettlement Plan
DTL	Deputy Team Leader
EA	Executing Agency
EARF	Environmental Assessment and Reviewing Framework
ECC	Environmental Code of Conduct
EIRR	Economic Internal Rate of Return
ELC	Economic Land Concessions
EMP	Environmental Management Plan
FAO	Food and Agriculture Organization
FGD	Focus Group Discussion
FSR	Feasibility Study Report
FWUC	Farmer Water User Community
FWUG	Farmer Water User Groups
GAP	Gender Action Plan
GCF	Green Climate Fund
GDA	General Directorate of Agriculture
GDAHPP	General Directorate of Animal Health and Production
GDR	General Department of Resettlement
GFP	Gender Focal Point
GHG	Greenhouse Gases
GMO	Genetically Modified Organism
GMS	Greater Mekong Subregion
GRM	Grievance Redress Mechanism
GSA	Climate Smart Agriculture
ha	Hectare
IA	Implementing Agency
ICT	Information and Communication Technology
IEE	Initial Environmental Examination
IMC	Inter-Ministerial Committee
IRC	Inter-Ministerial Resettlement Committee
IRRI	International Rice Research Institute
ISO	International Standards Organization
ITP	Independent Third Party
KCM	Kampong Cham province
Km	Kilometer
KW	Kilowatt
KPT	Kampot province
LARF	Land Acquisition and Resettlement Framework
M&E	Monitoring and Evaluation
MAFF	Ministry of Agriculture, Forestry, and Fisheries
MC	Main Canal
MEF	Ministry of Economics and Finance

MFI	Micro-finance Institution
MIH	Ministry of Industry and Handicrafts
MISTI	Ministry of Industry, Science, Technology and Innovation
MOC	Ministry of Commerce
MOE	Ministry of Environment
MOLMUJPC	Ministry of Land Management, Urban Planning and Construction
MOU	Memorandum of Understanding
MOWRAM	Ministry of Water Resources and Meteorology
MRD	Ministry of Rural Development
NAL	National Agricultural Laboratory
NBP	National Biodigester Program
NCB	National Competitive Bidding
NCO	National Laboratory Coordinator
NGO	Non-government Organization
NSC	National Standard Council
NTD	National Technical Department
O&M	Operation and Maintenance
PADC	Provincial Agricultural Development Center
PAM	Project Administration Manual
PBL	Plant Biotechnology Laboratory
PCR	Polymerase chain reaction
PD	National Project Director
PDAFF	Provincial Departments of Agriculture, Forestry and Fisheries
PDRD	Provincial Department of Rural Development
PDWRAM	Provincial Department of Water Resources and Meteorology
PEW	Provincial Engineering Workshop
PIC	Project Implementation Consultants
PIU	Project Implementation Unit
PM	National Project Manager
PMU	Project Management Unit
PPIU	Provincial Project Implementation Unit
PPC	Project Preparation Consultant
PPMS	Project Performance and Monitoring System
PPP	Public Private Partnership
PPTA	Project Preparation Technical Assistance
PV	Photo-voltaic
QPR	Quarterly Progress Report
RDC	Resources Development Consultants
REDD+	Reducing emissions from deforestation and forest degradation in developing countries, and the role of conservation, sustainable management of forests, and enhancement of forest carbon stocks in developing countries
RGC	Royal Government of Cambodia
RF	Resettlement Framework
RP	Resettlement Plan
SEO	Social and Environmental Officer
SRP	Sustainable Rice Platform
SWOT	Strength, Weakness, Opportunity and Threat
TA	Technical Assistance
TAK	Takeo province
TBK	Tbong Khmum province
TC	Technical Committee
TL	Team Leader
TOR	Terms of Reference
TOT	Training of Trainers
UNFCCC	United Nations Framework Convention on Climate Change
WFN	Women Farmers' Network
WG	Working Group

Executive Summary

For this reporting period, the summary of project progress as following:

1) Overall Achievement

- The overall project progress is 52.8%, disbursement is 24.5%, expenditure is 21.0 %, and elapsed time is 62%.
- The ADB Mid-term Review Mission has been conducted from 25 September to 6 October 2023 with the MOU shown in Appendix 9. The progress of MOU's agreed action plan will be updated for the next quarterly progress report (Quarterly Report of Q4 2023).

2) Problem Statement

- The project has a delay in social safeguard screening partly due to shortage of social safeguard consultants, while the CS01 national social safeguard expert position has been vacant during this reporting period as the original expert resigned from the project since Q1 2023.
- It is impossible to implement the current procurement plan for bio-digesters and compost huts since the local suppliers cannot compliance with procurement method.
- The Independence Third Party to review social safeguard has not yet been recruited.
- The current Consultancy contracts run until September 2024 while the loan has been extended to 2026.

3) Recommended Solutions

- For the replacement of consultants, PMU has urged firm to faster the recruitment of qualified consultant for the project as soon as possible.
- For current procurement method, PMU has proposed to MEF and ADB to change it.
- ITP will be recruited as soon as possible
- The concerned consulting firms and the PMU are in the process of preparing VOs to extend the contracts of CS01 and CS02 to 2026.

4) Conclusion

- In inclusion the project is remain going on-track as the overall achievement mentioned above.

1. INTRODUCTION AND BASIC DATA

The project basic data is showed in the following table.

Table 1: Project basic data

Loan/Grant Number(s)	Loan No. 3661-CAM (COL) / 8346-CAM (EF) Grant No. 0579 - CAM (EF)		
Project Name	Climate Friendly Agri-business Value Chains Sector Project (CFAVC)		
Project Number	48409-002		
Sector/sub-Sector	Agriculture Natural Resources Rural Development		
Executing Agency (EA)	Ministry of Agriculture, Forestry and Fisheries (MAFF)		
Implementing Agency (IA)	Cambodia Agricultural Research and Development Institute (CARDI) General Directorate of Animal Health and Production (GDAH) of MAFF General Directorate of Agriculture (GDA) of MAFF General Department Directorate of Technical Affairs of MOWRAM General Directorate of Technical Affairs of MRD		
Total Project Cost (US\$ million)	141.040		
Financing Source(s)	Financiers	Amount (US\$ million)	Share of Total (%)
	ADB loan (No.3661-CAM)	90	64%
	GCF loan (No.8346-CAM)	10	7%
	GCF Grant (No.0579-CAM)	30	21%
	RGC	7.376	5%
	Beneficiaries	3.664	3%
Date of Loan/Grant Approval	29 Jun 2018		
Date of Signing of Loan/Grant Agreements	06 Jul 2018		
Closing Date of Loan/Grant	31 Mar 2025		
Revised closing date (if applicable)	30 Sep 2026		
Dates of Last Review Mission (if applicable)	25 September to 6 October 2023		
Project Impact	Agricultural competitiveness improved		
Project Outcome (or Component)	Productive and resource-efficient agribusiness value chains developed in project areas		
Allocation of Loan Proceeds	Components	Amount (US\$ million)	Share of total
	PMU-MAFF	57.15	41%
	MOWRAM	44.24	31%
	MRD	37.35	26%
	Unassigned (<i>Interest Charges</i>)	2.31	2%
Project Area (provinces)	<ul style="list-style-type: none"> - Kampong Cham - Kampot - Takeo - Tboung Khmum 		
Overall Project Progress (as of this report)	52.8 %		
Elapsed time	62% (59 out of 95 months)		
Disbursement	24.5% (of total project cost)		
Expenditure	21.0% (of total project cost)		

2. UTILIZATION AND FUNDS

2.1 Introduction

The summary of total cost by source of funds are showed in table 2, 3, and 4 as following.

Table 2: A summary of total cost by source of funds: Loan No. 3661-CAM

Cat. Ref.	Cat. Code	Category Name	Amount (in USD)				
			Fund Allocation	Contracts Awarded	Uncontracted Balance	Contracts Disbursed	Undisbursed Balance
			A	B	C = A-B	D	E = A-D
01A	0301	Works-Irrigation and Roads	60,537,190.00	23,410,761.22	37,126,428.78	9,091,990.93	51,445,199.07
01B	0302	Works-Warehouse and Laboratory	5,762,800.00	8,886,893.77	(3,124,093.77)	7,054,278.29	(1,291,478.29)
01C	0303	Works-Other Infrastructure	1,330,600.00	-	1,330,600.00	-	1,330,600.00
02	1501	Equipment, Materials, Goods & Project Implementation Service	16,757,700.00	11,389,721.60	5,367,978.40	7,680,551.71	9,077,148.29
03	2701	Incremental Operating Cost	4,187,100.00	1,348,229.73	2,838,870.27	1,348,229.73	2,838,870.27
04	6901	Interest Charge	1,424,610.00	-	1,424,610.00	269,863.73	1,154,746.27
99	9901	Advance Accounting-MEF	-	-	-	1,548,000.00	(1,548,000.00)
		Total:	90,000,000.00	45,035,606.32	44,964,393.68	26,992,914.39	63,007,085.61

Table 3: A summary of total cost by source of funds: Loan No. 8346-CAM

Cat. Ref.	Cat. Code	Category Name	Amount (in USD)				
			Fund Allocation	Contracts Awarded	Uncontracted Balance	Contracts Disbursed	Undisbursed Balance
			A	B	C = A-B	D	E = A-D
01A	0301	Works-Irrigation and Roads	9,963,900.00	3,871,310.78	6,092,589.22	1,400,967.07	8,562,932.93
01B	6601	Service Charge	36,100.00	-	36,100.00	2,963.70	33,136.30
99	9901	Advance Accounting-MEF	-	-	-	366,000.00	(366,000.00)
		Total:	10,000,000.00	3,871,310.78	6,128,689.22	1,769,930.77	8,230,069.23

Table 4: A summary of total cost by source of funds: Grant No. 0579-CAM

Cat. Code	Category Name	Amount (in USD)				
		Fund Allocation	Contracts Awarded	Uncontracted Balance	Contracts Disbursed	Undisbursed Balance
		A	B	C = A-B	D	E = A-D
0301	1A Works-Irrigation and Roads	8,295,660.00	3,200,690.02	5,094,969.98	1,243,045.61	7,052,614.39
0302	1B Works-Other Infrastructure	114,050.00	24,687.10	89,362.90	-	114,050.00
0303	1C Works-Biogas Plants & Compost Huts	2,854,150.00	-	2,854,150.00	-	2,854,150.00
1501	2 EQPT, Studies, Surveys, & Proj IMP SVCS	10,785,430.00	1,694,111.00	9,091,319.00	254,116.65	10,531,313.35

2401	3 Trainings, Workshops & Demonstration	7,456,780.00	2,019,451.20	5,437,328.80	2,019,451.20	5,437,328.80
2701	4 Incremental Cost	493,930.00	-	493,930.00	-	493,930.00
	Total:	30,000,000.00	6,938,939.32	23,061,060.68	3,516,613.46	26,483,386.54

2.2 Contract Awards

For this reporting period, the project has awarded 40 contracts, including 28 civil work contracts, 4 consulting service contracts and 8 good contracts. All contracts are in appendix 4.

The contracts awarded during the reporting period is showed in table 5 below.

Table 5: List of Contracts Awarded by Component in Q3 2023

EA/IA	Component	Package Number	Type of Contract	General Description	Contract Amount (US\$)	Status
MOWRAM	1.a	CFAVC-MOWRAM-TBM-CW13.2	Civil works contract	Rehabilitation of Tbong Damrei Community and Kampong Raing Feeding Canal Irrigation scheme in Tbong Khmum Province	2,787,043.73	Ongoing
MOWRAM	1.a	CFAVC-RWHP-KAM-CW01-A.1	Civil works contract	Rehabilitation of 80 Rain-Water Harvesting Ponds (RWHPs) in Kampot Province	1,159,762.42	Ongoing
MRD	1.c	CW17c-CFAVC-MRD-TBK-1A & 2A-Batch 2	Civil works contract	Lot 1, Rural road Improvement of 16,370km (Tboung Khmum)	2,106,016.03	Ongoing
MRD	1.c	CW17c-CFAVC-MRD-TBK-1A & 2A-Batch 2	Civil works contract	Lot 2, Rural road Improvement of 12.891km (Tboung Khmum)	2,237,647.08	Ongoing

Table 6: Project awarded contracts

Contract Awards										
No.	Package Number	General Description, Name of Consultant, Contractor, Supplier	Amount (\$)		Contract Period (dd/mm/yy)		Funding Source (ADB, gov't, other donors)	Procurement /Recruitment Method		Comments
			Estimate	Actual	Start	End		Proposed	Actual (indicate only if changed)	
Works										
1	CFAVC-KP-TR-CW2	The Rehabilitation of Trapeang Run Irrigation Subproject in Kampot Province	655,110.00	685,283.09	10-Nov-20	04-Agu-21	ADB	NCB	NCB	Completed
2	CFAVC-MOWRAM-TBM-CW13.1	The Rehabilitation of Three (3) Schemes (Kbal Teuk, Tuol Pring, and Trapeang Tros) Irrigation Subprojects in Tbong Khmum Province	2,565,971.00	2,234,441.33	02-Aug-23	17-Sep-23	ADB	NCB	NCB	Completed
3	CFAVC-MOWRAM-TEO-CW15.1	The Rehabilitation of Two (2) Schemes (Prey Kdouch and Kraing Empil) Irrigation Subprojects in Takeo Province	1,749,734.00	1,392,848.85	03-Jan-22	04-May-23	ADB	NCB	NCB	Completed
4	CFAVC-MOWRAM-KPC-CW14.1	The Rehabilitation of Two (2) Schemes (Pram Kompheak and O'Kamprok) Irrigation Subprojects in Kampong Cham Province	2,589,443.00	2,201,388.95	30-Dec-22	14-Oct-23	ADB	NCB	NCB	Completed
5	CFAVC-MOWRAM-KPT-CW12.1	The Rehabilitation of Takouch Irrigation Subproject in Kampot Province	757,200.00	621,018.47	14-Feb-22	14-Sep-24	ADB	NCB	NCB	Completed
6	CFAVC-MOWRAM-TBM-CW13.2	The Rehabilitation of Two (2) Schemes (Tbong Damrei Community and Kampong Raing Feeding Canal) Irrigation Subprojects in Tbong Khmum Province	1,964,210.00	2,787,043.73	06-Oct-23	-	ADB	NCB	NCB	On-going Contract
7	CFAVC-MOWRAM-KPT-CW12.2A	The Rehabilitation of Trapeang Boeung Reservoir Irrigation Subproject in Kampot Province	2,011,961.00	2,519,988.18	09-Oct-23	-	ADB	NCB	NCB	On going contract
8	CFAVC-MOWRAM-KPT-CW12.2B	The Rehabilitation of Two (2) Schemes (Kandal Irrigation System and Prawoek Pong Reservoir) Irrigation Subprojects in Kampot Province	2,148,936.78	2,667,165.77	09-Oct-23	-	ADB	NCB	NCB	On going contract
9	CFAVC-MOWRAM-TEO-CW15.2	The Rehabilitation of Three (3) Schemes (Kwaeng Tayi, Plov Touk & Chrouk 1, and Prey Rumdeng Feeding Canal) Irrigation Subprojects in Takeo Province	2,867,160	2,458,543.73	09-Oct-23		ADB	NCB	NCB	On going contract
10	CFAVC-MOWRAM-TEO-CW15.3	The Rehabilitation of Two (2) Schemes (Pralay 42 and Pralay 95) Irrigations Subprojects in Takeo Province	2339235.15	2,331,210.89	09-Oct-23		ADB	NCB	NCB	On Going Contract
11	CFAVC-RWHP-KAM-CW01-A.1	The Construction and Rehabilitation of 80 Rain Water Harvesting Ponds (RWHPs) in Kampot Province	1,052,264	1,159,762.42	22-Aug-23		ADB	NCB	NCB	On Going Contract
12	CFAVC-RWHP-TBM-CW01-B.1	The Construction and Rehabilitation of 63 Rain Water Harvesting Ponds (RWHPs) in Tbong Khmum Province	1,372,555	1,324,598.16	01-Nov-23		ADB	NCB	NCB	On Going Contract
13	CFAVC-RWHP-KPC-CW01-C.1	The Construction and Rehabilitation of 66 Rain Water Harvesting Ponds (RWHPs) in Kampong Cham Province	984,278	1,026,789.89			ADB			
14	CFAVC-RWHP-TEO-CW01-D.1	The Construction and Rehabilitation of 69 Rain Water Harvesting Ponds (RWHPs) in Takeo Province	1,310,336	1,264,292.58			ADB			

15	Lot1: CW7/CFAVC/MAFF/2021/01	The Construction of Mechanization Engineering Workshop-PDAFF-TBK	60,154.96	62,176.87	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
16	Lot2: CW7/CFAVC/MAFF/2021/02	The Construction of Mechanization Engineering Workshop-PDAFF-TBK	60154.96	62176.87	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
17	Lot3: CW7/CFAVC/MAFF/2021/03	The Construction of Mechanization Engineering Workshop-PDAFF-KCM	60154.96	62176.87	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
18	Lot1: CW4/CFAVC/MAFF/2021/08	The Construction of Training Building-PADC & Equipment-TAK	81,239.81	94290.68	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
19	Lot2: CW4/CFAVC/MAFF/2021/09	The Construction of Training Building-PADC & Equipment-TBK	81,239.81	92954.64	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
20	Lot3: CW4/CFAVC/MAFF/2021/10	The Construction of Training Building-PADC & Equipment-KCM	81,239.81	95186.61	16-Aug-21	15-Nov-21	ADB	NCB	NCB	Completed
21	Lot1: CW3a/CFAVC/MAFF/2021/04	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KPT	404,007.00	366,834.92	9-Sept-21	08-Dec-21	ADB	NCB	NCB	Completed
22	Lot2: CW3a/CFAVC/MAFF/2021/05	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TAK	387,704.52	352,019.30	9-Sept-21	08-Dec-21	ADB	NCB	NCB	Completed
23	Lot3: CW3a/CFAVC/MAFF/2021/06	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KCM	451,837.35	412,637.88	9-Sept-21	08-Dec-21	ADB	NCB	NCB	Completed
24	Lot4: CW3a/CFAVC/MAFF/2021/07	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TBK	499,667.70	458,440.83	9-Sept-21	08-Dec-21	ADB	NCB	NCB	Completed
Goods										
25	G6/GD-001/MAFF/ 2019	The Supply of 47 Motorcycles for CFAVC	96,242.00	78,114.00	23-Jan-19	12-Feb-19	ADB	Shopping with Ads	Shopping with Ads	Completed
26	G5/GD-002/CFAVC/ MAFF/2019	The Supply of 15 Pick-up Trucks for CFAVC	995,532.00	419,250.00	27-Feb-19	22-May-19	ADB	NCB	NCB	Completed
27	G-12/GD003/ CFAVC/MAFF/2019	The Supply Office Appliance	11,600.00	11,240.00	15-Nov-19	29-Nov-19	ADB	Shopping with Ads	Shopping with Ads	Completed
28	G11/GD-004/ CFAVC/MAFF/2019	The Supply of Office Furniture	61,970.00	61,731.00	18-Dec-19	17-Jan-20	ADB	Shopping with Ads	Shopping with Ads	Completed
29	G10/GD-005/ CFAVC/MAFF/2019	The Supply Office Equipment	123,400.00	123,447.00	25-Dec-19	07-Feb-20	ADB	NCB	NCB	Completed
30	G13/GD-001/ CFAVC/MAFF/2020	The Supply of 05 Units Pick-up Truck for PMU/ MAFF	150,003.00	137,500.00	07-Feb-20	01-Jun-20	ADB	NCB	NCB	Completed
31	001/GD/2020/ CFAVC/MAFF	The Supply of Office Stationery for PMU	6,000.00	4,950.60	04-Sept-20	11-Sept-20	ADB	Shopping with Ads	Shopping with Ads	Completed
32	002/GD/2020/ CFAVC/MAFF	The Supply and Installation Wheel Tyre for 5 Pick-up Mazda	4,000.00	3,560.00	11-Sept-20	18-Sept-20	ADB	Shopping with Ads	Shopping with Ads	Completed
33	G14/GD-001/CFAVC	The supply & Delivery of 02 units of Pickup Trucks	80,000.00	55,200.00	21-Feb-22	30-Mar-22	ADB	Shopping with Ads	Shopping with Ads	Completed
34	G15/GD-002/CFAVC	The supply & Delivery of 16 units of Motorcycles	35,200.00	27,163.00	17-Feb-22	16-Mar-22	ADB	Shopping with Ads	Shopping with Ads	Completed
Consultant Services										
35	SER-001/2019	Project Implementation Consultant (PIC) - Package CS1 Consultant Service	4,379,920.00		16-Sept-19	30-Sept-24		QCBS	QCBS	
36	SER-002/2019	Capacity Building and Climate Smart Agriculture consulting firm - Package CS2 Consultant Service	3,478,429.00		23-Sept-19	31-Jul-24		QCBS	QCBS	
37	SER-003/2019	Feasibility Studies and Detailed Engineering Design consulting firm – Package CS5 Consultant Service	2,622,704.00		01-Nov-19	30-Sept-24		QCBS	QCBS	

38	SER-004/2021	Information and Communication Technology (ICT) Platform for Climate Risk Management in Agribusiness Value Chains in Kampong Cham Province	1,737,401.00		06-Jan-23	08-June-25		QCBS	QCBS	
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2.3 Disbursement

For this reporting period, the project has accumulated disbursement 34.52 million dollar which is equal to 24.5% of total budget as in table 7 below.

Table 7: Summary of Disbursements by source of funds

Sources of Fund	Budget Allocation (USD)	Disbursement (USD)	Percentage (%)
ADB loan (L3661)	90,000,000	26,992,914	30.0%
GCF loan (L8346)	10,000,000	1,769,931	17.7%
GCF Grant (G0579)	30,000,000	4,868,613	16.2%
RGC	7,376,000	891,724	12.1%
Beneficiaries	3,664,000	-	-
Overall Total	141,040,000	34,523,183	24.5%

2.4 Re-allocation (if applicable)

There is no budget reallocation for this reporting period. It will be reviewed for ADB Mid-term Review Mission period.

3. PROJECT PERFORMANCE

3.1 Scope of the Project

The scope of the project has kept the same as the original version in PAM as below.

The Climate-Friendly Agribusiness Value Chains Sector Project will support the implementation of the government's Agriculture Sector Strategic Development Plan, 2014–2018 and the Industrial Development Policy, 2015–2025 aimed at improving the competitiveness of agricultural value chains in Kampong Cham and Tboung Khmum provinces along the Greater Mekong Sub-region (GMS) southern economic corridor, and Kampot and Takeo provinces along the south-coastal economic corridor. The project will boost the climate resilience of critical agricultural infrastructure and help commercialize rice, maize, cassava, and mango production. It will help increase crop productivity and diversification; improve the capacity for storage, processing, and quality and safety testing; and promote the use of solar and bioenergy. It will strengthen the technical and institutional capacity for climate-smart agriculture (CSA) and create an enabling policy environment for climate-friendly agribusinesses. This will in turn promote long-term environmental sustainability and enhance the profitability for farmers and agribusinesses.

Impact and Outcome:

The project is aligned with the following impact: agricultural competitiveness improved. The impact is reflected in enhanced productivity, climate resilience, quality and safety, value addition and rural household incomes. The project will have the following outcome: productive and resource efficient agribusiness value chains developed in the project areas.

The CFAVC project has 3 Outputs as follows:

Output 1: Critical Agribusiness Value Chain Infrastructure Improved and Made Climate Resilient. The output addresses infrastructure gaps to enhance competitiveness of the value chains of rice, maize, cassava and mango in target provinces. Key activities include:

- i. Rehabilitating at least 15,000 Ha irrigation (in 27 schemes), water management infrastructure (800 rainwater harvest ponds) to climate-resilient condition, and 15 drip irrigation demonstration units.
- ii. Upgrading agricultural cooperatives' value chain infrastructure (drying, processing and storage facilities of at least 80 cooperatives);
- iii. Improving the connectivity of farms to cooperatives and markets through climate-resilient farm road networks of at least 250 km length;
- iv. Strengthening the infrastructure for agricultural quality and safety testing at National Agricultural Laboratory; and
- v. Promoting renewable energy for value chain improvement by means of the installation of 12,000 bio-digesters and 6,000 compost huts.

Output 2: Climate Smart Agriculture and Agribusiness Promoted.

Key activities under this output include

- i. Deploying climate-resilient varieties for rice (2 varieties) and maize;
- ii. Strengthening the capacity in climate-friendly production practices and technologies;
- iii. Forming and training 27 Farmer Water User Committees in the 27 irrigation schemes, and
- iv. Promoting farm mechanization and extension with the improvement of 4 PADCs and 4 agricultural workshops.

Output 3: Enabling Environment for Climate Friendly Agribusiness Enhanced. The project assists the Ministry of Agriculture, Forestry and Fisheries and the Ministry of Commerce in creating an appropriate enabling policy environment for agribusinesses. Key activities include:

- i. Formulating climate-friendly agribusiness policies and standards;
- ii. Promoting green finance and risk-sharing mechanisms; and
- iii. Supporting climate risk management through information and communication technologies (ICT).

3.2 Assessment on Likelihood of Achieving Project Objectives and Outcomes

As of this quarter, the overall physical progress of the project is 52.8%, the cumulative financial disbursement is 24.5% and expenditure is 21.0%. The elapsed time is 62% (59 out of 95 months). The project is on-track. The Objectives and Outcomes of the project is likely to achieve as shows in the appendix 6 (Performance Against DMF).

ADB Mid-term Review Mission has been conducted from 25 September to 6 October 2023. The progress of MOU's agreed action plan will be updated for the next quarterly progress report (Quarterly Report of Q4 2023). The Memorandum of Understanding (MoU) between ADB and the RGC shows in Appendix 9.

3.3 Assessment on Changes of Project Scope (if any major change)

The original scope of the project is not changed. The key assumptions and risks are kept as the same as stated in PAM.

4. IMPLEMENTATION PROGRESS

4.1 Overall Project Progress

The overall project is currently rated as on-track and continues to make good progress with a total of **28 civil work contracts**, **4 consulting service contracts** and 8 good contracts were awarded. As of this quarter, the overall physical progress of the project is 52.8%, the cumulative financial disbursement is 24.5% and expenditure is 21.0%. The elapsed time is 62% (59 out of 95 months). For the progress of each outputs and activities show as following.

4.1.1 Output 1: Critical Agribusiness Value Chain Infrastructure Improved and Made Climate Resilient

The output addresses infrastructure gaps to enhance competitiveness of the value chains of rice, maize, cassava and mango in target provinces. Below is the progress by each activities and sub-activities:

Activity 1.1. Rehabilitating water management infrastructure:

Sub-activities	Progress	Remarks
27 Irrigation and water management systems rehabilitated and made climate-friendly	<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	
800 On-farm rainwater harvesting ponds commissioned	<ul style="list-style-type: none"> ○ Construction has not yet started ○ 278 completed DED and are in the stage of the procurement process ○ 521 not yet started Total: 800	
15 drip irrigation demonstration units on mango farmers' land	<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 drip irrigation and solar pump. ○ 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. 	It is in the stage of the procurement process

Activity 1.2 Upgrading agricultural cooperative value chain infrastructure

Sub-activities	Progress	Remarks
80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	<ul style="list-style-type: none"> ○ 55 ACs Completed construction 100% ○ 25 ACs construction starts on 9 May 2023 and complete the construction is 68%. ○ Total 80 ACs 	PPIUs Continue to follow up on the ACs

<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"> ○ 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 Agri-businesses 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. ○ Developed operational signboard to be printed and placed at every system (PPIUs to organize the tasks with user groups). 	<p>Final design meeting schedule and accepted by PPIUs for the actions</p>
<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"> ○ Design a proper solar technology package for the implementing agency for further discussion. 	<p>Installation of equipment and tools are included.</p>
<p>-Supply circulated cylinder dryers for the 100-ton warehouses (2 Units) -Supply electrical voltage transformer set for 2 Units circulated cylinder dryers</p>	<ul style="list-style-type: none"> ○ Ongoing progress ○ Actions to carry forward the following months 	<p>Installation of equipment and tools are included.</p>

Activity 1.3 Improving Connectivity to Cooperatives and Market through climate resilient farm road networks

Sub-activities	Progress	Remarks
<p>At least 250 Km of Farm roads were upgraded to climate-resilient standards to improve Connectivity to Cooperatives and Markets</p>	<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 94% completed • 2 contracts for Kampot 98% completed • 2 contracts for Kampongcham 86% completed • 2 contracts Tboung Khmum 83% completed ○ Batch II- (100.12Km) with a total of 8 contracts, only 6 contracts signed (with 70.86Km). <ul style="list-style-type: none"> ▪ 2 contracts for Kampot have been signed on 16 June 2023, the construction is not yet started. ▪ 2 contracts for Takeo have been signed on 3 February 2023, the construction progress is 7%. ▪ 2 contracts for Kampong Cham have been signed on 16 June 2023, the construction is not yet started. ▪ 2 contracts for Tbong 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</p>	<p>Due to budget limit, this activity will procure only 250km</p>

Activity 1.4 Strengthening Infrastructure for agricultural quality and safety testing at the National Agricultural Laboratory (NAL)

Sub-activities	Progress	Remarks

Crop product quality and safety testing infrastructure in the National Agriculture Laboratory upgraded	<ul style="list-style-type: none"> ○ Lab renovation: Construction completed ○ Net-house: construction is completed 100% ○ The 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"> ○ Revised the list of equipment for GMO and phytotoxin. ○ Revised concepted note: Technical training on GMO & Phytotoxin - 2nd Training 	Wait for PMU approval
supporting ISO 17025 accreditation	<ul style="list-style-type: none"> ○ Second draft of ISO 17025 guideline (from Dr. Mak Chanrathana) ○ 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 	New mobilizing was started from 1 st June 2023.
Plant tissue culture (developing tissue culture protocols for bananas and cassava)	<ul style="list-style-type: none"> ○ Prepared concept note: completed ○ On-the-job training on mother plant collection for multiplication through tissue culture for cassava with a total of 72 persons of which 54 are females. ○ Training on plant tissue technology for banana, cassava, and orchid with a total of 12 persons of which 9 are female. ○ TWG meeting on the development of cassava tissue culture development manual with a total of 13 persons of which 3 are females. ○ Conducted a Consultative workshop on the cassava tissue culture development manual with a total of 25 participants of which 6 are women. ○ Developed manual of Cassava: completed of revising 6th draft. ○ Conducted technical training for NAL's staff. 	Re-mobilizing was started from 1 st June 2023.

Assisting the laboratory commercialization process	<ul style="list-style-type: none"> ○ 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 legal framework on modern biotechnology developed by Codex Alimentarius Commission- FAO/WHO intergovernmental body: Ongoing ○ The Biosafety regulations for GMO crops in Asia-Pacific: Ongoing ○ Retrieving and Reviewing Guidelines and SOPs for GMO field trial and safety assessment: On-going 	All activities are ready for implementation by experts.
Supply analytical testing equipment	<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)	<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 	<p>The technical working group (TWGs) meeting was conducted to review and comment on the 4th draft of SOP for quality testing of organic fertilizer at the end of August</p> <p>TWGs meeting will conduct to review and comment on the 5th draft of SOP for quality testing of biofertilizer at the mid of September</p> <p>The 5th draft of ISO 17025 accreditation will be well prepared for the consultation workshop in the First weeks of</p>

	accreditation: completed (5th revision).	September.
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Activity 1.5 Promoting renewable energy (bio-digesters and use of solar energy in target cooperative areas) for value chain improvement

Sub-activities	Progress	Remarks
<p>12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)</p>	<ul style="list-style-type: none"> ○ Construction: not yet started (BER Biodigester 2nd round-Rebid) ○ Construction of biodigester, the project was agreed to propose a revised bidding procedure (procurement methods) that can be implemented to avoid further stalemate during the PSC meeting. ○ 29,305 farmers (female =13,855 (47%) have been trained and received information about Biodigester in Training and Capacity Building, Promotion and marketing, Monitoring and evaluation, and Innovation and 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 8% (976 HHs) ○ The key farmer who has an interest: ongoing 2.36% (283 HHs). ○ Research, development, pilot, and use of the biodigester: ○ 69 biodigester demonstration construction completed and functioning with (332 beneficiaries (172 F). 	
<p>6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)</p>	<ul style="list-style-type: none"> ○ Construction: not yet started (BER Compost hut 2nd round-Rebid) ○ Construction of the compost hut, the project was agreed to propose a revised bidding procedure (procurement methods) that can be implemented to avoid further stalemate during the PSC meeting. ○ 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 and Capacity Building, Promotion and marketing, Monitoring and evaluation and Innovation, and 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. ○ The key farmer who has intended to buy: ongoing 10.7% (647 HHs) ○ The key farmer who is interested: ongoing 3.8% (230 HHs) ○ Research, development, pilot, and use of the compost hut: ○ 69 compost-hut construction completed with (345 beneficiaries (186F). ○ Support input for integrated farming demonstrations: ○ 44 demonstrations and training were completed with 198 participants (92F) ○ 22 demonstration farmers and training have not yet started. 	

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"> ○ 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. 	
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4.1.2 Output 2: Climate Smart Agriculture and Agribusiness Promoted.

Below is the progress by each activities and sub-activities:

Activity 2.1 Deploying climate-resilient varieties

Sub-activities	Progress	Remarks
3 Additional climate-resilient varieties of rice and maize released	<ul style="list-style-type: none"> ○ Two rice varieties, named Phkamealdehy (PMD) and CAR-16 and one glutinous maize variety, named CM1 have been released before project started and then in 2022, CARDI conducted 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 including, advancing generation in CARDI and multi-location trials in collaboration with PDAFF staff. ○ One rice variety, named Champeisar70 are released in 2023 for farmers' demonstration in CFAVC Project (Foundation seed from CARDI) ○ CARDI provided 72 training of farmers group on best management practice (BMP) on rice, cassava, and maize and Rice seed production Technique and follow up (RSPT/FU); Total training=1800 /878(f)=49% <ul style="list-style-type: none"> ▪ 2022 training=1300/609f ▪ 2023 progressed until September: <ul style="list-style-type: none"> - 14 BMP training =350/188f - 6 RSPT training=150/81f 	

Activity 2.2 Strengthening Capacity in climate-friendly production practices and technologies

Sub-activities	Progress	Remarks
40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	<ul style="list-style-type: none"> ▪ 13,151 farmers of which 6,258 were female (48%) trained on CSA, SRP, CamGAP, ACs business development plan (for ACs boards) landscape restoration (farm mechanization) 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). 	
Support laser land leveling up to 4,000 ha (approximately 1,000 ha per province)	<ul style="list-style-type: none"> ○ Identified 05 new irrigation schemes for the possibility of laser land leveling in project area 2 schemes in Takeo, 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 	Based on minutes of Meeting with ADB and MAFF-PMU on CS3 Package Dated: 02 August 2023,

	<p>hectares of landholding assessed and mapping. Tender documents are being prepared by CS1 and in consultation with CS2 and the procurement unit of PMU.</p> <ul style="list-style-type: none"> ○ 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 with 730HHs (258F) ○ TBK: 58.30Ha with 646HHs (302F) ○ Total: 418.58 Ha with 2,778HHs (1,227F) 	<p>through the virtual Zoom Meeting will propose to change the procurement procedure from NCB to shopping</p>
<p>Conduct “learning by doing” training by demonstrating and training in farmer fields in specific locations with three sites in each province</p>	<ol style="list-style-type: none"> 1) Rice seed demonstration production (2020-2023) <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) ▪ Surface=35.46ha ▪ Key farmer demos=93/48f ▪ Sown=93 ▪ Transplanting =89 ▪ Harvested=5demos ▪ Seed multiplication to communities=2810kg (CAR16= 450kg and Campeisar70=2360kg) 2) Cassava seed demonstration production (2021-2023) <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 communities: 10,000 bundles (at least 40ha) • Cassava seed distribution to key farmers=15,600 bundles (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 3) Maize seed demonstration production (2022-2023) <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 	<p>Notes from officials and farmers on:</p> <p>1) Cassava - 81 varieties have the highest resistance to mosaic disease and high yields, farmers are highly interested. Rayong-9 varieties are resistant to mosaic disease, moderate and high yielding, farmers are not interested. Huay Bong-60 varieties are resistant to low mosaic disease and high yield, but farmers are not interested. Cassava cultivars are still susceptible to CMD, especially the Rayong-9 and Huay Bong-60 cultivars, which are higher than the 81 cultivars. 81 species affected by Cassava Bacterial Blight Disease Huay Bong 60 are affected by root and tuber rot.</p> <p>2) Corn crop Maize is more suitable for the dry season than the rainy season, both in terms of growth and yield, short life span, and fruit size, similar to other varieties, farmers are interested in during the dry season. Challenges: Corn kernels are larger than other varieties and less resistant to some herbicides.</p>

	<ul style="list-style-type: none"> • Many people interesting and need seed(CHM01) distribution to communities - 2023 progressed: <ul style="list-style-type: none"> • 10key farmers for maize seed demonstration were selected and planting in Kampot province • Surface=5ha ○ 150kg of maize (CHM01 from GDA, Banteaydek station) distribution to key farmers 	
27 FWUCS of FWUGS made full operational	<ul style="list-style-type: none"> ○ 12 FWUCs/FWUGs completed 100%; ○ 5 FWUCs are ongoing (Trapeang Beung and Kandoal completed 88% in Kampot, Prey Rumdeng FWUC is 80% in Takeo, and Tbong Darei and Kampong Raing completed 75%) ○ 10 FWUCS not yet started (no budget) <p>Total 27 schemes (500FWUCs)</p>	There is a short budget for 10 new FWUCs/FWUGs either establishment or capacity building
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"> ○ 369 FWUCs representatives of out 500 FWUCs have been trained 122 courses provided to 4,883 FWUCs/FWUGs representatives and local authorities of whom 1,324 were women; 	

Activity 2.3 Promoting farm mechanization and extension.

Sub-activities	Progress	Remarks
4 Agricultural development centers were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> ○ 3 PADCs building construction completed. ○ Ongoing construction 1 PADC 	
4 Engineering workshops were made fully operational to provide agribusiness services	<ul style="list-style-type: none"> ○ 3 MEWs building construction completed. ○ 22 of the materials in the mechanization workshops ○ Updated BOQ of all materials of the workshop with confirmed minor items 	This preparation needs to be more discussed with the procurement unit and CS1

4.1.3 Output 3: Enabling Environment for Climate Friendly Agribusiness Enhanced.

The project assists the Ministry of Agriculture, Forestry and Fisheries and the Ministry of Commerce in creating an appropriate enabling policy environment for agribusinesses.

Activity 3.1: Formulating climate-friendly agribusiness policies and standards

Sub-activities	Progress	Remarks
Policy on Climate Smart and Gender Responsive Agribusiness and PPP Framework formulated	<ul style="list-style-type: none"> ○ Development of Producer Group Establishments Guideline Linked with Private Sector to the Market: completed (4th draft revision) to achieve the agribusiness group of contract farming. 	
Good Agriculture Practice for Tropical Fruit Endorsed (CamGAP)	<ul style="list-style-type: none"> ○ Tropical Fruit CAMGAP Standards development of the manuals for mango has been developed with 50% by involving relevant departments (IA-GDA). ○ Introduction meeting with AC 53 persons/18 females, 06 agriculture cooperative 	

	committees, and managing commercial farmers for the standard for the market during the fieldwork.	
Good Agriculture Practices for organic fertilizer endorsed	<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

Sub-activities	Progress	Remarks
50 Staff from financial institutions trained in CSA and green finance	<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 and drafted. ○ National Consultation on the report: draft concept note completed. ○ Engaged with green financing facility establishment (MOE/ARDB/NBC/Mekong Strategy Partners progressed) and waiting for GCF reviewing and approval. ○ Consultation on Green Financing with ARDB and ACLEDA. ○ 16 staff from Bank, Micro Financial Institutions, and ARDB trained in CSA and green finance. 	
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% ○ Develop the climate change training material ○ Delivery training: 46 completed (Total Participant:570 F:252) ○ 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 at four provinces 	
20,000 Households were provided with information on climate risk-sharing instruments	<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 	
Creating an enabling environment for PPPs in agribusiness in the four value chains;	<ul style="list-style-type: none"> ○ Crop-centric forums for rice, cassava, maize, mango, and other specific crops: 5 courses of training were conducted with a total of participants 199 (28F). ○ Business forum on rice, cassava, and other specific crop commodities (with input 	

	<p>suppliers, producers, traders/buyers, or collectors): 3 courses of training conducted with participant 80 (11F).</p> <ul style="list-style-type: none"> ○ Legal farming contract signing consultation forum at the provincial level: conducted 4 consultation forums with participant 81 (16F). ○ On review of PPP feasibility studies on specific crop commodities proposed by MAFF with the PMU team ○ ToT Training on PGE has been conducted with 22 participants (6 females equal of 27%) 	
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Activity 3.3 Supporting Climate Risk Management through Information and Communication Technologies (ICT)

Sub-activities	Progress	Remarks
Supporting Climate Risk Management through Information and Communication Technologies (ICT)	<ul style="list-style-type: none"> ○ The ICT consultant just mobilized in Jan 2023 and the inception workshop will be conducted on the 6th of April 2023. ○ The inception Report has been prepared ○ An inception workshop has been done ○ Developing System Requirement and Architecture Report. ○ Preparation for the Pilot Program for climate-smart Agriculture. 	

4.2 Safeguards (Social, Environmental and Gender)

The subsections below are the progress of the status of safeguards including social, environment, health and safety, and gender action plan.

4.2.1 Social Safeguards

The status of social safeguards for Irrigation systems and ponds are showed in the table 8 below, which MOWRAM is the implementing agency.

Table 8: The status of social safeguards for Irrigation systems and ponds

MOWRAM			
No	Description of subprojects	No of Subproject	Status
	Kampot		
1	DDR for Trapeang Run	1	NOL from ADB
2	DDR for Takoch	1	NOL from ADB
3	DDR Prawoek Pong Irrigation Subproject	1	awaiting verification by ITP
4	DDR Kandal Irrigation System	1	awaiting verification by ITP
5	DDR Trapeang Boeung Reservoir	1	awaiting verification by ITP
	Total	5	
	Takeo		
1	DDR for (Prey Kdouch & Kraing Empil)	2	NOL from ADB
2	DDR for Chrouk1 & Plov Touk Canal	1	in process
3	DDR for Kwaeng Tayi Canal	1	in process

4	DDR for Prey Rumdeng Canal	1	in process
5	DDR for Pralay 95 Irrigation Subproject	1	in process
6	DDR for Pralay 42 Irrigation Subproject	1	in process
7	DDR for Ta Oum Reservoir Irrigation Subproject	1	in process
8	DDR for Poutasuy Reservoir Irrigation Subproject	1	in process
9	DDR for Sdoc Sab Reservoir Irrigation Subproject	1	in process
	Total	10	
	Tbong Khmum		
1	DDR for (Toul Pring & Kbal Tuek)	2	NOL from ADB
2	DRP for Trapeangng Tros	1	NOL from ADB
3	DDR for Tbong Damrei Reservoir	1	awaiting verification by ITP
4	DDR for Kampong Raing Feeding Canal	1	awaiting verification by ITP
5	DDR for Choam Taheung Irrigation Subproject	1	in process
6	DDR for Trapeang Ampil Irrigation Subproject	1	in process
	Total	7	
	Kampong Cham		
1	DDR for (Pram Kumpheak & O'Kamprok)	2	NOL from ADB
2	DDR for Teuk Char West Irrigation System	1	in process
3	DDR for Potatres Reservoir	1	in process
4	DDR for Teuk Char East Irrigation System	1	in process
	Total	5	
	Total Irrigations	27	
	Ponds		
	DDR Kampot 80 RWHPs in Batch I	80	NOL from ADB
	DDR Tbong Khmum 63 RWHPs in Batch I	63	Pending ITP verification
	DDR Kampong Cham 66 RWHPs in Batch I	66	Pending ITP verification
	DDR Takeo 69 RWHPs in Batch I	69	Pending ITPverification
	Total ponds	278	

The status of social safeguards for roads are showed in the table 9 below, which MRD is the implementing agency.

Table 9: The status of social safeguards for roads

MRD			
No	Description	No of Subproject	Status
	Batch 1		
1	Lot 1, Improve 1 Road, 10.00 Km, (Takeo)	1	NOL by ADB
2	Lot 2, Improve 1 Road, 4.67.00 Km, (Takeo)	1	NOL by ADB
3	Lot 1, Improve 1 Road, 9.774km (Tboung Khmum)	1	NOL by ADB
4	Lot 2, Improve 1 Road, 12.00km (Tboung Khmum)	1	NOL by ADB
5	Lot 1, Improve 1 Road, 9.882km (Kampong Cham)	1	NOL by ADB
6	Lot 2, Improve 1 Road, 4.721km (Kampong Cham)	1	NOL by ADB
7	Lot 1, Improve 1 Road, 11,948.05m (Kampot)	1	NOL by ADB
8	Lot 2, Improve 1 Road, 8,104.00m (Kampot)	1	NOL by ADB
	Total roads	8	

Batch 2			
1	Lot 1, Improvement of 13.976 km (Takoe)	1	NOL by ADB
2	Lot 2, Improvement of 12.761 km (Takoe)	1	NOL by ADB
3	Lot 1, Improvement of 12.963 km (Kampot)	1	NOL by ADB
4	Lot 2, Improvement of 9.098 km (Kampot)	1	NOL by ADB
5	Lot 1, Improvement of 9.425 km (Kampong Cham)	1	in process
6	Lot 2, Improvement of 12.460 km (Kampong Cham)	1	in process
7	Lot 1, Improvement of 16,370 (Tboung Khmum)	1	in process
8	Lot 2, Improvement of 12.891 km (Tboung Khmum)	1	in process
	Total roads	8	
Batch 3			
1	Improvement of 21.806 km (Tboung Khmum)	1	in process
2	Improvement of 7.78 km (Kampong Cham)	1	in process
3	Improvement of 20.08 km (Takeo)	1	in process
4	Improvement of 12.39 km (Kampot)	1	in process
5	Improvement of 18.43 km (Takeo)	1	in process
	Total roads	5	
Total Road Subprojects		21	

The status of social safeguards for warehouses, PAEW & 3 PADC, and compost huts & bio-digesters show in the table 10 below.

Table 10: The status of social safeguards for warehouses, PAEW & 3 PADC, and compost huts & bio-digesters

MAFF			
No	Description	No of Subproject	Status
1	DDR for 20 AC Storage Units	20	NOL from ADB
2	DDR for 35 AC Storage Units	35	NOL from ADB
3	DDR for 25 (12 + 13) AC Storage Units	25	Third times clarification from ADB
	Total	80	
No	Description	No of Subproject	Status
1	DDR for 3 PAEW & 3 PADC	6	NOL from ADB
2	DDR for 1 PAEW & 1 PADC	2	Preparing
No	Description	No of Subproject	Status
1	DDR for 250 compost huts & 500 bio-digesters	750	Follow up with ADB

The status of Semi-Annual Report of Social Safeguards shows in table 11 below:

Table 11: The status of Semi-Annual Report of Social Safeguards

No	Description	No of Subproject	Status
1	Jan- Dec 2020	The whole CFAVC	NOL from ADB

2	Jan- Dec 2021	The whole CFAVC	NOL from ADB
3	Jul to Dec 2022	The whole CFAVC	submitted to ADB on Feb 25 at 6:48 AM cc to TL
4	Jan to Jun 2022	The whole CFAVC	2022: Jan to Jun (was done since 15th Jul 2022, TL submitted by Email on Jan 26th 2023 for disclosure to PMU of MAFF

- **Key challenges in achieving the target and the proposed action plan.**

- The National Resettlement Specialist has resigned from the post since March 2023; therefore, the project has slow progress to deal with social safeguards issues. PMU has already suggested consultancy firm to process the replacement as soon as possible.

4.2.2 Environmental Safeguards

For irrigation schemes, the environmental performance of the contractors for 9 irrigation construction subprojects (Trapeang Run, Kbal Teuk, Toul Pring, Prey Kdouch, Kraing Empil, Trapeang Tros, Pram Kompheak, O Kamprok and Tkoch reservoirs) can be considered as 'moderately satisfactory' and has room for further improvements. For the construction phase, there are 4 requirements considered to be in partial compliance and require follow up actions. These are (1) human waste/waste water, (2) solid waste, (3) environment and health safety for community and occupation, (4) polluted by fuel and black oils.

For the road rehabilitation under MRD including subprojects Lumpong Kasekam Samaki, Sdok Sdom, Dambae Rungreung and Kday Songkheum Kasekor, Sambo Meanchey, Stoeung Trang Meanchey, Raksmeay Samaky Amatak and Kasekor Samaky Rung Roeung sub-projects can be considered as 'moderately satisfactory' and has room for further improvements. There are 6 requirements considered to be in partial compliance and require follow up actions. These are (1) dust from construction work, (2) human waste/waste water, (3) solid waste, (4) environment and health safety and (6) polluted from fuels and black oil spills.

For the construction of 25 AC storages units under Batch 3 subprojects, there are 3 requirements considered to be in partial compliance and require follow up actions. These are (1) human waste/waste water, (2) workers health safety and (3) solid waste management. On other hand, each AC should plant trees nearby the AC storage unit or entrance to improve environment.

The environment safeguards documents have been prepared, reviewed and approved so far are shown in table 12, which MOWRAM is the implementing agency.

Table 12: Environmental Monitoring for Subprojects under MOWRAM

Year	Package Number	Province	Commune	District	Subproject Name	No. of Subprojects/ Package	Command area, ha	Environmental Category	Status of IEE Preparation (%)	Date of IEE Submitted to ADB	Date ADB NOL for IEE	Contractor Name	Contract Date	Status of Environmental Safeguards (EMP)	Civil Work Started Date	Construction Completed (%)
1. Planned for Project Feasibility study and Detailed Engineering Design (DED) in 2020 (Batch 1)																
2021	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run	2	100	B	100%	10-Jun-20	21-Jul-20	KBH	10-Nov-20			100% (4-Aug-21)
	MOWRAM-CFAVC-KPT-CW12.1		Srae Khnung	Chuom Kiri	Takouch (Prey Takoch)		400	B	100%	Resubmitted 25 May 22			14-Dec-22	OK		15-Sep-23

CFAVC-RWHP-KAM-CW01-A.1				Rainwater harvesting community pond	<u>80</u>			100%	Jan-21	8-Jul-21		27-Jul-23			
MOWRAM-CFAVC-TBM-CW13.1	Tboung Khmum	Preah Theat	O' Reang Ov	Kbal Teuk reservoir	<u>3</u>	250	B	100%	4-Nov-20	11-Feb-21	Soeun Soknan	2-Aug-21		9-May-22	18-Aug-23
		Chikor	Tboung Khmum	Tuol Pring Reservoir		100	B	100%	4-Nov-20	11-Feb-21				18-Aug-23	
		Thmar Pech	Tboung Khmum	Trapeang Tros Reservoir		350	B	100%	4-Nov-20	11-Feb-21				18-Aug-23	
CFAVC-RWHP-TBM-CW01-B.1				Rainwater harvesting community pond	<u>63</u>				Jan-21	8-Jul-21					
MOWRAM-CFAVC-KPC-CW14.1	Kampong Chhm	Lvea Leu & Svay Teap	Chamkar Leu	Pram Kumpheak Reservoir	2	950	B	100%	15-Dec-21	4 Jan.22	Ung Ssimsia	30-Dec-22			98%
		Preach Andong	Stueng Trang	O Kamprok Feeding Canal		350	B	100%	15-Dec-21	4 Jan.22			30-Dec-22		
CFAVC-RWHP-KPC-CW01-C.1				Rainwater harvesting community ponds	<u>66</u>				Jan-21	8-Jul-21					
MOWRAM-CFAVC-TEO-CW15.1	Takeo	Trapeang Kranhoung	Tram Kak	Prey Kdouch Reservoir	2	550	B	100%	16-Mar-21	25-Jun-21	KBH	3-Jan-22	OK		5-May-23
		Trapeang Kranhoung	Tram Kak	Kraing Empil Reservoir		200	B	100%	16-Mar-21	25-Jun-21				OK	
CFAVC-RWHP-TEO-CW01-D.1				Rainwater harvesting community pond	<u>69</u>			100%	Jan-21	8-Jul-21					
Sub-Total of the rehabilitation irrigation schemes and the command areas					9	<u>3,250</u>									
Sub-Total of Rainwater Harvesting Community Ponds					278	-									
2. Planned for Project Feasibility Study and DED in 2021 (Batch 2)															

MOWRAM-CFAVC-KPT-CW12.2A	Kampot	Sathpong/Trameng/Baniev	Chhouk	Trapeang Boeung Reservoir	3	800	B	100%	6-Apr-22	3-Aug-23							
		Kandoal & Thmei commune,	Teuk Chhou	Kandoal Feeding Canal		750	B	100%	6-Apr-22	3-Aug-23							
		Trapeang Pring & Koun Sat	Teuk Chhou	Broweak Pong Reservoir		70	B	100%	6-Apr-22	3-Aug-23							
	CFAVC-RWHP-KAM-CW01-A.2			Rainwater harvesting community pond	60			100%	Jan-21	8-Jul-21							
	MOWRAM-CFAVC-TBM-CW13.2	Tboung Khmum	Chhouk	Krouch Chmar	Tbong Damrei Reservoir	2	600	B	100%		3-Aug-23						
			Seda	Dambae	Kampong Raing Feeding Canal		250	B	100%		3-Aug-23						
	CFAVC-RWHP-TBM-CW01-B.2				Rainwater harvesting community pond	60			100%	Jan-21	8-Jul-21						
	MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	2	950	B	100%	6-Apr-22							
			Beung Nay & Sampong commune,	Prey Chhor	Teuk Char West Reservoir Scheme		980	B	100%	6-Apr-22							
	CFAVC-RWHP-KPC-CW01-C.2				Rainwater harvesting community pond	50			100%	Jan-21	8-Jul-21						
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk Feeding Canal	3	975	B	100%	6-Apr-22	3-Oct-23						
			Prey Yuthkar	Koh Andet	Kwaeng Tayee Feeding Canal		970	B	100%	6-Apr-22	3-Oct-23						

			Prey Romdeng	Kirivong	Prey Romdeng Feeding Canal		650	B	100%	6-Apr-22	3-Oct-23					
	CFAVC-RWHP-TEO-CW01-D.2				Rainwater harvesting community pond	40			100%	Jan-21	8-Jul-21					
Sub-Totals of the rehabilitation irrigation schemes and the command areas						10	5028									
Sub-Total of Rainwater Harvesting Community Ponds						210										
3. Planned for Project Feasibility Study and DED in 2022 (Batch 3)																
	CFAVC-RWHP-KAM-CW01-A.3	Kampot			Rainwater harvesting community pond	50			100%	Jan-21	8-Jul-21					
2023	MOWRAM-CFAVC-TBM-CW13.3	Tboung Khmum	Teuk Chrov	Dambae	Choam Taheung	2	987		Pending							
			Thmar Pich	Tbong Khmum	Trapaing Ampil		200		Pending							
	CFAVC-RWHP-TBM-CW01-B.3	Tboung Khmum			Rainwater harvesting community pond	60			100%	Jan-21	8-Jul-21					
	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	980		Pending							
					Rainwater harvesting community pond			60		100%	Jan-21	8-Jul-21				
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kropum Chhouk	Koh Andet	Pralay 95	4	850		80%							
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650		80%							
			Kampeng	Kirivong	Pou Tasuy Reservoir		635		Pending							
			Samraong	Tram Kak	Sdok Sab		300		Pending							
			Prey Romdeng	Tram Kak	Ta Oum Reservoir		160		Pending							
MOWRAM-CFAVC-TEO-CW15.4	Takeo															

	CFAVC-RWHP-TEO-CW01-D.3			Rainwater harvesting community pond	60		100%	Jan-21	8-Jul-21				
Sub-Totals of the rehabilitation irrigation schemes and the command areas					8	7,420	All Rain Water Harvesting Ponds in Batch III are planned to be dropped due to the shortage of budget. There will only be 500 RWHPs which can be constructed in Batch I (278 RWHPs) and Batch II (222 RWHPs). There are 6 irrigation schemes which require the preparation of the requisite environmental safeguards due diligence reports pending the remobilization of the Environmental Safeguards Specialist of CS5.						
Sub-Total of Rainwater Harvesting Community Ponds					230								
Total irrigation schemes planned to be constructed over period of 3 years is 32 irrigation schemes and total of					27	15,698							
Total of Rainwater Harvesting Community Ponds					718								
Note: Empty cells mean that there are no data available. OK meas CEMP has been prepared and EMP was considered as satisfactory													

The environment safeguards documents have been prepared, reviewed and approved so far are shown in table 13, which MRD is the implementing agency.

Table 13: Environmental Monitoring for Sub-Projects Under CFAVC MRD

PACKAGE	CONTRACTOR	LENGTH (KM)	LOCATION				CEMP		PROGRESS (%)	DATE OF CONTRACT
			VILLAGE	COMMUNE	DISTRICT	PROVINCE	YES	NO		
Lot 1-CW17b-CFAVC-MRD-TK3-2020	Henan Water Construction Group Co., Ltd (HENAN)	10.00	Khnar Tung	Kumareachea-Lumphong	Batie	Takeo		√	92.00	18 January 2022
Lot 1-CW17b- CFAVC-MRD-TK4-2020	Hout Chhoeun Construction Co., Ltd	4.67	Wat Ang Andaet - Kraing Ampil	Taing Yab	Prey Kabas	Takeo	√		91.00	18 January 2022
Lot 1-CW17c-CFAVC-MRD-TBK5-2020	Heng Sambat Co. Ltd. Import Export Transportation &Construction (HSB)	9.70	Khcheay-Chheuteal Chrum		Dambae	Tboung Khmum	√		51.00	17 May 2022
Lot 2-CW17c-CFAVC-MRD- TBK6-2020		12.00	Pong Tuek-Ta Pav		Krouch Chhmar	Tboung Khmum	√		59.00	17 May 2022
CW17d-CFAVC-MRD-KC7/KC8-2020, Batch 1	M.T.A. Construction Co. Ltd. (MTA)	14.603 (Lot1=9.882km; Lot2=4.72km)	NA	Sambour to Soupheas	Steung Trang	Kampong Cham	√		22.00	09 May 2022
CW17d-CFAVC-MRD-1A-Batch 2		9.425				Kampong Cham		√	N/A	16 June 2023
Lot 1-CW17a-CFAVC-MRD-KP1/ KP2-2020_Batch1	Royal Mekong Construction and	11.948	Chres	Chres	Chumkiri	Kampot	√		26.00	29 June 2022

PACKAGE	CONTRACTOR	LENGTH (KM)	LOCATION				CEMP		PROGRESS (%)	DATE OF CONTRACT
			VILLAGE	COMMUNE	DISTRICT	PROVINCE	YES	NO		
Lot 2-CW17a-CFAVC-MRD-KP1/ KP2-2020_Batch1	Development	8.104	Kam Nab	Srae Chaeng	Chumkiri	Kampot	√		46.00	29 June 2022
Lot 1-CW17b-CFAVC-MRD-TK-1A_Batch 2	6 Stars Construction Co., Ltd	8.203	Ang Trao, Trapeang Kranh/Thnaot Chum/ Stueng	Ou Saray	Tramkak	Takeo		√	4.00	03 February 2023
		5.773	Ang Baksey/Trao Aem/Prey Chuor/Prey Mean/Prey Chheurteal	Cheang Tong/ Popel	Tramkak	Takeo		√	0.00	03 February 2023
Lot 2-CW17b-CFAVC-MRD-KC-2A_Batch 2		12.640			Prey Chhor, Kang Meas	Kampong Cham		√	N/A	16 June 2023

The environment safeguards documents have been prepared, reviewed and approved so far are shown in table 14, which MAFF is the implementing agency.

Table 14: Construction Projects - Agricultural Warehouses and Development Centers, CFAVC MAFF (Batch 3 Only)

Package Number	Province	District	Commune	Subproject Name	Number of Subprojects/ Package	Storage Capacity (Tone)	Environmental Safeguards Categorization	Status of IEE Preparation (%)	ADB NOL & Posing on Website (%)	Status of Environmental Safeguards (CEMP)	Date of First IEE Submitted to ADB	Date ADB NOL for IEE	Contractor Name	Contract Signed Date	Civil Works Started Date	Construction Completed (estimated as %)
CW-3b3/CFAVC/MAFF/2022-01 Lot 1	Kampot	Angkor Chey	Damork Khpos	Pauchhum Meanchey AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH	3-May-23		80%
		Kampong Trach	Kampong Trach	Kampong Trach Chamroeu	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21			KBH	

			Khang Kaut	n Kasekor AC													
		Banteay Meas	Wat Ang Khang Cheung	Ponhea Angkor Chamroeu n Chey AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				80%
		Chum Kiri	Snay Angche t	Samaky Baitang AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				80%
CW-3b3/CFAVC/MAF F/2022-02 Lot 2	Takeo	Tram Kak	Trapeang Kranhong	Khprob Svay Samaky AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH	3-May-23			70%
		Tram Kak	Trapeang Kranhong	Samaky Meanchey Phlov Lork AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Tram Kak	Udom Soriya	Udom Soriya AC	1	50	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Prey Kabbas	Ban Kam	Toul Preah Vihear AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Traing	Sambo ur	Sambuor Chamroeu nphal AC	1	50	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Samra ong	Chhum Reh Pein	Phum Boeng Amatak AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Kiri Vong	Ta Ou	Kiri Udom Ta Ou AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Koh Andet	Peach Sa	Ponleu Sareireng AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Tram Kak	Ta Phen	Sokpheap Yeung AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Tram Kak	Trapeang Thom Khang Tbong	Damrey Ramiel AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%
		Koh Andet	Prey Khla	Samphly Angkor	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH				70%

				Raingsey AC												
		Kirivong	Phnom Daen	Phnom Den Sen Sok AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			60%
CW-3b3/CFAVC/MAFF/2022-03 Lot 3	Kampong Cham	Steung Trang	O' Mlou	Tratrong Kasekor AC	1	200	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH	3-May-23		60%
		Prey Chhor	Khvaet Thom	Khvaet Thom Rik Chamreun	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			60%
		Kampong Siem	Han Chey	Han Chey AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			50%
		Cheung Prey	Phdao Chhum	Reamear Cheung Prey AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			80%
CW-3b3/CFAVC/MAFF/2022-04 Lot 4	Tboung Khmum	Dambae	Toek Chrov	Kasekor Dambae AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH	3-May-23		75%
		Memot	Rumchek	Svay Chanty Rumchek AC	1	200	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			75%
		Tboung Khmum	Chi Ro	Chiro Rungroeng AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			75%
		Or Reang Ov	Kang Chey	Oraing Ov Meanchey AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			75%
		Or Reang Ov	Mean	Samaky Khum Mean AC	1	100	C	100%	100%	OK	28-Jun-21	8-Jul-21	KBH			75%
Total	4	14	24	25	25											

Note:

- N/A means that no data is available.
- OK means EMP was considered as satisfactory.

It is recommended that the Contractors should implement the following to further improve their performance:

- Provide monthly progress report to safeguards specialists/PMU/PIC regarding the implementation of CEMP and EMP compliance
- Proper waste management in the work sites, worker's accommodations, field offices and facilities be undertaken during the implementation;
- The latrine/toilet, bathroom and other sanitary facilities should be provided available for workers at the camp sites and appropriately managed;
- Domestic and solid waste should be properly collected, stored and disposed in approved disposal facilities. Waste segregation should be undertaken at all the camp sites;
- The segregation and management and proper disposal of construction and general waste should be strictly undertaken; and
- Workers should, whenever in the work sites, wear the required personal protective equipment (PPE).
- Urge the contractors to install more GRM signboards at the construction sites and campsites and print GRM logbook and PIB for distribution to local authorities and community
- Encourage Agricultural Cooperatives to plant trees near or around AC warehouse for environmental and soil erosion protection.

Work plan for the next step to address each issue in this report:

- The PIC and PPIU/PMU will continue providing support and guidance to Contractors in the implementation of the approved EMP for the subprojects, especially environmental health and safety, solid and domestic waste management at the work sites, worker's camp sites and Contractor's facilities. Toxic and Hazardous Materials management.
- PMU/IAs/PIC will strictly monitor and advise contractor to resolve all pending issues such as usage of PPEs, solid waste disposal, implementation of the mitigation measures proposed in EMP and timelines.
- PMU/PPIUs will direct the contractors to install trash bins and GRM signboards at all the construction sites including village and commune offices
- PMU/PPIUs will encourage ACs to plant domestic species of trees around the AC warehouses to improve the surrounding environment.

4.2.3 Health and Safety

Environment, health and safety, during the monitoring undertaken, it was observed that not all workers wear the requisite PPEs when they are in the work sites. The appropriate site instructions were given to the Contractors to rectify this issue. As regards COVID-19, PPIUs and local authorities were fully informed of the MoH COVID-19 prevention measures.

The environmental team/CS1/PIC needs to closely monitor the implementation of the Health and Safety Plans to ensure compliance to the approved EMP.

4.2.4 Gender Action Plan (GAP) (if applicable)

The Gender Action Plan Monitoring has 14 Targets/indicators and 7 Activities. It promotes gender equality and women's empowerment through enhancing women's capacity in CSA production and processing, management and business, agricultural machinery use and maintenance, accessing and using financing and crop insurance, and through strengthening linkages between women-led enterprises and the agribusiness industry.

Progress of GAP implementation update followed by the 2nd Quarterly 2023 and added as of Sept. 2023.

- 6 of 7 Actions were on track and 1 Action (#4) is off track.
- 14 targets were on track.

Detailed update on the status of the GAP Implementation in Appendix 7.

4.3 Financial Management

4.3.1 Status of Audit Implementation

Financial audit has been conducted by the external independent audit firm, KPMG, for year 2022. The result is in appendix 8.

4.3.2 Project Cost and Expenditure

- **Project Cost**

The project cost by source of funds is shown in the table 15 below.

Table 15: Project cost by financing sources

Sources of Fund	Budget Allocation (USD)	Percentage (%)
ADB loan (L3661)	90,000,000	63.81%
GCF loan (L8346)	10,000,000	7.09%
GCF Grant (G0579)	30,000,000	21.27%
RGC	7,376,000	5.23%
Beneficiaries	3,664,000	2.60%
Overall Total	141,040,000	100.00%

- **Project Expenditure**

The overall project expenditure is accumulated 29.56 million USD which equal to 21.0% of total budget. For the project expenditure is showed in table 16, 17, 18.

Table 16: Summary of Expenditures by Sources of Fund Vs Budget

SOURCE	Budget (Allocation)	2023 Annual Budget	Year to date Expenditures (30/Sep/23)	Cumulative to date Expenditures (30/Sep/23)	Overall Expenditures Rate %	
					2023	Overall
ADB loan (L3661)	90,000,000	27,994,150	11,111,265	23,631,840	39.7%	26.3%
GCF loan (L8346)	10,000,000	2,163,610	898,965	1,393,022	41.5%	13.9%
GCF Grant (G0579)	30,000,000	12,132,630	1,847,812	3,802,606	15.2%	12.7%
RGC	7,376,000	668,810	111,375	736,704	16.7%	10.0%
Beneficiaries	3,664,000	495,490	-	-	0.0%	0.0%
TOTAL	141,040,000	43,454,690	13,969,417	29,564,172	32.1%	21.0%

Table 17: Summary of Expenditures by PMUs Vs Budget

EAs/ IAs	Budget (Allocation)	2023 Annual Budget	Year to date Expenditures 30/Sep/2023	Cumulative to date Expenditures 30/Sep/2023	Overall Expenditures Rate %	
					2023	Overall
PMU-MAFF	57,149,457	24,417,040	6,713,516	17,800,524	27.5%	31.1%
MOWRAM	44,235,807	9,715,000	3,033,960	5,705,162	31.2%	12.9%
MRD	37,349,607	9,322,650	4,221,941	6,058,487	45.3%	16.2%
Unassigned (Interest Charges)	2,305,129	-	-	-	0.0%	0.0%
TOTAL	141,040,000	43,454,690	13,969,417	29,564,172	32.1%	21.0%

Table 18: consolidated expenditure by category (PMU-MAFF, MOWRAM & MRD)

Expenditure	Expenditures during the Reporting Period (\$) (Q3)						Cumulative Expenditures (\$)					
	A	B	C	D	E	Total	A	B	C	D	E	Total
	Loan 3661-CAM	Loan 8346-CAM	Grant 0579-CAM	RGC	Beneficiaries		Loan 3661-CAM	Loan 8346-CAM	Grant 0579-CAM	RGC	Beneficiaries	
Category												
Civil Works	2,637,336	269,532	222,842	-	-	3,129,710	14,000,731	1,391,158	1,150,169	-	-	16,542,058
Goods (Equipment & Supplies)	-	-	-	-	-	-	913,650	-	-	-	-	913,650
Capacity Development (Training, Workshops, Seminars)	-	-	632,985	-	-	632,985	-	-	2,652,437	-	-	2,652,437
Consulting Services	554,985	-	-	-	-	554,985	6,906,563	-	-	-	-	6,906,563
Incremental Operating Costs (Project Management)	134,811	-	-	29,910	-	164,721	1,618,822	-	-	736,704	-	2,355,526
Subtotal	3,327,133	269,532	855,827	29,910	-	4,482,402	23,439,766	1,391,158	3,802,606	736,704	-	29,370,233
JFPR Total	-	-	-	-	-	-	-	-	-	-	-	-
GOVERNMENT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER DONOR/ Interest Charges	-	-	-	-	-	-	192,075	1,864	-	-	-	193,939
							-	-				-
OVERALL TOTAL (MAFF-MOWRAM-MRD)	3,327,133	269,532	855,827	29,910	-	4,482,402	23,631,840	1,393,022	3,802,606	736,704	-	29,564,172

4.4 Compliance with Loan/Grant Covenants

4.4.1 Policy Loan Covenants

- The Project complied with all Sector / Policy Covenants

4.4.2 Financial Covenants

- There have been no changes in circumstances that require a change in the risk assessment and action plans. The Covid -19 pandemic continues to hamper project implementation.
- The project has been complying with the financial Covenants Financial Management Action Plan as shown in Appendix 5.
- The CFAVC project finances over the year 2022 were audited and the results were made available at the end of June 2023 as in Appendix 8.

5. Major Project Issues

Issues:

- The project has a delay in social safeguard screening partly due to shortage of social safeguard consultants, while the CS01 national social safeguard expert position has been vacant during this reporting period as the original expert resigned from the project since Q1 2023.
- It is impossible to implement the current procurement plan for bio-digesters and compost huts since the local suppliers cannot compliance with procurement method.
- The Independence Third Party to review social safeguard has not yet been recruited.
- The current Consultancy contracts run until September 2024 while the loan has been extended to 2026.

Solutions:

- For the replacement of consultants, PMU has urged firm to faster the recruitment of qualified consultant for the project as soon as possible.
- For current procurement method, PMU has proposed to MEF and ADB to change it.
- ITP will be recruited as soon as possible
- The concerned consulting firms and the PMU are in the process of preparing VOs to extend the contracts of CS01 and CS02 to 2026.

Appendix 1: Project Implementation Schedule

Overall Project Implementation Plan

Output and Activities	2019		2020				2021				2022				2023				2024				2025				2026	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Output 1: Critical agribusiness value chain infrastructure improved and made climate resilient																												
Activity 1.1: Rehabilitating water management infrastructure to climate resilient condition																												
Off-farm climate resilient irrigation & water management infrastructure																												
- Bid preparation for first batch subprojects																												
- Bidding, construction and handover																												
- Further subproject identification/evaluation bidding																												
- Construction and handover of subprojects																												
On-farm water catchment ponds																												
- Selection of sites based on the approved eligibility criteria																												
- Procurement, award, construction and handover																												
Drip-irrigation demonstration sites																												
- Bid preparation for representative subproject																												
- Bidding, construction and handover																												
- Further subproject identification/evaluation bidding																												
- Construction and handover of subprojects																												
Activity 1.2: Upgrading agricultural cooperative value chain infrastructure																												
AC drying and storage unit establishment																												
- Bid preparation for representative subproject																												
- Bidding, construction and handover																												
- Further subproject identification/evaluation bidding																												
- Construction and handover of subprojects																												
Activity 1.3: Improving connectivity to cooperatives and markets through climate resilient farm road networks																												
Rural roads production zone and market access																												
- Subproject identification requiring rural roads																												
- Bidding, construction and handover																												
Activity 1.4: Strengthening infrastructure for agricultural quality and safety testing																												
NAL Plant Bio-technology Laboratory support																												
- Consultant selection and recruitment																												
- Materials & equipment procurement																												
- GMO, plant toxins & bio-fertilizer testing implemented and perfected																												
- Tissue culture protocols developed																												
- ISO 17025 capacity and compliance																												
- Laboratory commercialization implemented																												
- Rapid field testing implemented																												
Activity 1.5: Promoting renewable energy for value chain improvement																												
NBP Bio-digester program																												
- Bio-digester work plan with NBPO & PDAFFs																												
- Construction and bio-digester handover																												

Output and Activities	2019		2020				2021				2022				2023				2024				2025				2026		
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Bio-digester standards development																													
- Technical committee/working group formation																													
- Draft standards and consultation																													
- National Standards Committee endorsement																													
Bio-slurry compost hut promotion																													
- Compost hut design																													
- Work plan and financial support determined																													
- Construction and handover																													
Agribusiness Photovoltaic Feasibilities																													
- Study scope determined																													
- Agribusinesses identified																													
- Detailed study for green finance																													
AC drying and storage unit solar power systems																													
- Requirements & designs elaborated																													
- Bidding, installation and commissioning																													
PADC solar power systems																													
- Requirements & designs elaborated																													
- Bidding, installation & commissioning																													
Output 2: Climate smart agriculture and agribusiness promoted																													
Activity 2.1: Deploying climate resilient varieties																													
Climate resilient variety release and dissemination																													
- Recruitment of IRR1																													
- Locational and on-farm trials																													
- Seed bulking up & farmer field days																													
- Varietal release																													
- Commercialization initiatives																													
Activity 2.2: Strengthening capacity in climate friendly production practices and technologies																													
- Training materials collated or elaborated																													
- CSA, SRP, CAMGAP training formal & in-field																													
- AC drying and storage unit, management & operation																													
- FWUC management, operation & systems maintenance																													
- Agricultural machinery, operation, repair, fabrication & maintenance																													
- Laser levelling training and demonstration																													
Activity 2.3: Promoting farm mechanization and extension																													
PADC construction (Takeo, Tbong Khmum & Kampong Cham) or rehabilitation (Kampot)																													
- Design & bid preparation																													
- Bidding, construction and handover																													
Provincial Agricultural Engineering Workshop construction (Kampot, Kampong Cham & Tbong Khmum) and equipping (Takeo)																													
- Design & bid preparation																													
- Bidding, construction and handover																													
Output 3: Enabling environment for climate friendly agribusiness enhanced																													
Activity 3.1: Formulating climate friendly agribusiness policies and standards																													
Climate smart agribusiness policy & policy HRD																													
- Work plan & technical committee formation																													
- Draft policy and consultation																													
- MAFF & MOC endorsement																													

Output and Activities	2019		2020				2021				2022				2023				2024				2025				2026		
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Industrial development policy																													
• Action plan for MAFF implementation																													
Climate conscious standards development i.e. CamGAP and SRP																													
• Work plan & CAMGAP technical committee																													
• Draft Standards, consultation & NSC endorsement																													
• Linking SRP Alliance activities to project																													
• CSA activities determination																													
Activity 3.2: Promoting green finance and risk sharing mechanisms																													
Inter-ministerial committee – enabling environment for PPPs/commercial incentives & best practices																													
• Committee composition and scope determined																													
• IMC meetings																													
Crop-centric PPP forums																													
• Forum composition and scope determined																													
• Forum meetings																													
ASEAN Study tours																													
• Tour requirements and planning																													
• Study tour																													
PPP feasibility studies																													
• Study scope determined																													
• Agribusinesses identified																													
• Detailed study for green finance																													
Financial institution capacity building for climate friendly agribusiness																													
• Technical support Services (package: CS2) consultant recruitment																													
• Risk aversion awareness training & capacity building																													
• Green initiative field visits																													
• Existing initiatives review, implementation plan																													
Activity 3.3: Supporting climate risk management through information and communication technologies (ICT)																													
• Expand and extend existing ICT activities for climate smart agribusiness in Kampong Cham Province																													
Project Management Cross-Cutting Activities																													
Consultant selection procedures (aside from PIC)																													
Environment management plan key activities																													
Gender action plan key activities																													
Communication strategy key activities																													
Inception report / review mission																													
Annual Project performance report																													
Quarterly Progress Report (including financial report)																													
Twice yearly and/or midterm review																													
Government project completion report																													
Project physical completion date																													
Financial closing																													

Note: ▲ - periodic

AC = agricultural cooperatives; CAMGAP = Cambodia Good Agricultural Practice; CSA = climate smart agriculture; FWUC = farmers water user committee; GMO = genetically modified organism; HRD = Human Resource Development; ICT = information and communication technology; ISO = International Organization for Standardization; MAFF = Ministry of Agriculture, Forestry and Fisheries; MC = ? MOC = Ministry of Commerce; NAL = National Agricultural Laboratory; NBP = National Bi-digester Program; NBPO = National Biodigester Program Office; NSC = National Standards Council; PADC = Provincial Agricultural Development Center; PDAFF = Provincial Department of Agriculture, Forestry and Fisheries; PIC = project implementation consultants; PMU = project management unit; PPP = public-private partnerships; SRP = Sustainable Rice Platform.

Source: PPTA consultant

Appendix 2: Detailed Project Implementation Progress

Output 1:

ACTIVITY		SUBACTIVITY	UNIT	DMF SCORE	OVERALL TARGET	Sub- Weight (%)	DMF weight (%)	Progress Sept 2023		
								Current Progress %	Accumulated Progress	Weighted Progress (%)
				(A)	(B)	(C)	(D)	E=(F/B)*100	F	G=(E*D)/100
1.a	27 Irrigation and water management systems rehabilitated and made climate-friendly	Step 1A: Identification of ISs	Schemes	15	27	5	0.75	100.00	27	0.75
		Step 1B: Feasibility Study incl safeguards	Schemes		27	10	1.5	92.59	25	1.39
		Step 2: Topographic Survey	Ha		15,000	10	1.5	100.00	15,000	1.50
		Step 3 + 4: DED & Tender file	Ha		15,000	10	1.5	83.33	12,500	1.25
		Procurement	Ha		15,000	5	0.75	21.67	3,250	0.16
		Rehabilitated & Climate resilient (Construction Progress Works)	Ha		15,000	55	8.25	21.67	3,250	1.79
		O&M	Schemes		27	5	0.75	0.00	-	0.00
		Sub-total				100	15			
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	Identification of ponds	no	5	800	7.5	0.375	34.75	278	0.13
		Farm identification for drip system	no		15	2.5	0.125	100.00	15	0.13
		DED Ponds	no		800	20	1	34.75	278	0.35
		DED Drip system	no		15	5	0.25	13.33	2	0.03
		Procurement & Implementation ponds	no		800	50	2.5	34.75	278	0.87
		Drip systems installation	no		15	15	0.75	0.00	-	0.00
		Sub-total				100	5			
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	Step 1A: Identification	km	15	250	5	0.75	108.80	272	0.82
		Step 1B: Feasibility Study incl Safeguards	km		250	10	1.5	108.80	272	1.63
		Step 2: Topographic Survey	km		250	10	1.5	108.80	272	1.63
		Step 3+4: DED & Tender file	km		250	10	1.5	86.04	215	1.29
		Rehabilitated & Climate resilient (Construction Progress Works)	km		250	60	9	28.95	72	2.61
		O&M	km		250	5	0.75	0.00	-	0.00
		Sub-total				100	15			
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	Identification	No	15	80	5	0.75	100.00	80	0.75
		Site location Survey	no		80	5	0.75	100.00	80	0.75
		DED & Tender file	no		3	10	1.5	100.00	3	1.50
		Procurement	no		3	10	1.5	100.00	3	1.50
		Construction	No		80	65	9.75	100.00	80	9.75
		O&M	no		80	0	0.75	0.00	-	0.00
		Sub-total				95	15			
1.e		TNA for LAB staff	No	5	1	10	0.5	100.00	1	0.50

	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	DED & Procurement	No		1	20	1	100.00	1	1.00
		Implementation	No		1	60	2.5	100.00	1	2.50
		Training of staff	Person		100	10	0.5	62.00	62	0.31
		On-the job training	Person		500	10	0.5	45.60	228	0.23
		Sub-total				100	5			
1.f.1	12,000 Bio-digesters made operational benefitting 80,000 persons (50% are women)	Identification of Bio-digesters	Biodigester	5	12,000	10.00	0.50	34.63	4,156	0.17
		DED & Tender file	document		3	10.00	0.50	53.33	1.60	0.27
		Procurement	document		3	10.00	0.50	33.33	1.00	0.17
		Construction of biodigesters	Biodigester		12,000	60.00	3.00	0.58	69	0.02
		Training of beneficiaries	Perons		48,000	10.00	0.50	61.05	29,305	0.31
		Sub-total					100.00	5.00		
1.f.2	6,000 Compost-huts made operational benefitting 20,000 persons (50% are women)	Identification of compost-huts	Compost hut	5	6,000	10.00	0.50	57.28	3,437	0.29
		DED & Tender file	document		3	20.00	1.00	53.33	1.60	0.53
		Procurement	document		3	10.00	0.50	16.67	0.50	0.08
		Construction of compost huts	Compost hut		6,000	50.00	2.50	1.15	69	0.03
		Training of beneficiaries	Persons		24,000	10.00	0.50	122.10	29,305	0.61
		Sub-total					100.00	5.00		
		Total for Output 1		65			65.00			37.58

Output 2:

ACTIVITY	SUBACTIVITY	UNIT	DMF SCORE	OVERALL TARGET	Sub-Weight (%)	DMF weight (%)	Progress Sept 2023			
							Current Progress %	Accumulated progress	Weighted Progress (%)	
			(A)	(B)	(C)	(D)	E=(F/B)*100	F	G=(E*D)/100	
2.a	3 Additional climate-resilient varieties of rice and maize released	Development of new rice varieties	Varieties	5	2	50	2.5	0.00	-	0.00
		Development of new maize varieties	Variety		1	20	1	0.00	-	0.00
		Multiplication of existed rice varieties production of FS rice for PRD, PMD and CAR 16	Seeds		1,000	3	0.15	45.00	450.00	0.07
		Multiplication of maize seed (CM1) varieties	Seeds		3	3	0.15	33.33	1.00	0.05
		Distribution of rice seeds for demonstration seed production (PRD, PMD) for WS and CAR 16 for DS	Seeds		160	3	0.15	93.75	150.00	0.14
		Distribution of maize for seed production	Seeds		3	4	0.2	33.33	1.00	0.07
		Training of farmer group on BMP (240 courses)	Persons		10,000	4	0.2	14.20	1,420.00	0.03
		Training of farmer group on rice seed produciton (120 courses)	Persons		4,000	4	0.2	36.25	1,450.00	0.07
		Field day (120 events)	People		15,000	2.5	0.125	30.00	4,500.00	0.04
		Site identification for Cassava seeds demonstration	Demo		40	2.5	0.125	50.00	20.00	0.06
		Laser Land Leveling (LLL)	Demo/ha		4,000	4	0.2	11.75	470.00	0.02
Sub-total						100	5.00		0.55	
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	Training of TOT-Trainers	Persons	5	80	3	0.15	75.00	60.00	0.11
		Drafting of training material for climate smart agriculture	set		1	2	0.1	100.00	1.00	0.10
		Implementation of comprehensive Needs assessment	set		4	2	0.1	100.00	4.00	0.10
		Drafting of training material for agribusiness development	set		1	3	0.15	90.00	0.90	0.14
		Farmers trained on CAMGAP standards	Persons		500	15	0.75	44.00	220.00	0.33
		Farmers trained on CSA	Persons		20,000	25	1.25	65.76	13,151.00	0.82
		Farmers trained on SRP	Persons		20,000	20	1	65.76	13,151.00	0.66
		Farm mechanization and agriculture conservation	Persons		9,500	15	0.75	25.87	2,458.00	0.19
		Agriculture Cooperative (board members)	Persons		20,000	15	0.75	-	-	0.00
		Sub-total							100	5.00
2.c.1	27 FWUCs of FWUGS made operational	Preparation of training materials	set	3	1	2.5	0.075	100.00	1.00	0.08
		Step 1: Dissemination the Information and Process FWUC formation	meeting		27	5	0.15	62.96	17.00	0.09
		Step 2: Demarcate the command areas and data collection	meeting		54	10	0.3	31.48	17.00	0.09
		Step 3: Create the Statute Committees to draft the Statute	FWUC		27	10	0.3	62.96	17.00	0.19
		Step 4: Form Farmer Water User Community	FWUC		27	10	0.3	62.96	17.00	0.19
		Step 5: Develop the FWUC statute	FWUC		27	10	0.3	62.96	17.00	0.19
		Step 6: FWUC Committee Election	FWUC		27	15	0.45	62.96	17.00	0.28
		Step 7: Finalization of FWUC Statute and Action Plan	FWUC		27	25	0.75	44.44	12.00	0.33
		Step 8: FWUC Approval and Registration	FWUC		27	12.5	0.375	44.44	12.00	0.17
		Sub-total							100	3.00
2.c.2	500 FWUCs of FWUGS, developed	Preparation of training material on operation	set	3	27	10	0.3	44.44	12.00	0.13
		Preparation of training material on maintenance	set		27	10	0.3	44.44	12.00	0.13
		Trained FWUCs of FWUGs on schemes management	Persons		500	70	2.1	73.80	369.00	1.55

	capacity to operate and maintain their irrigation schemes	Application of MEF budget (FWUC)	FWUC		27	10	0.3	-	-	0.00
		Sub-total				100	3.00			1.82
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	Identification and Initial Survey	No	2	4	10	0.2	100.00	4.00	0.20
		DED & Tender file	No		4	35	0.7	100.00	4.00	0.70
		Procurement	No		4	10	0.2	75.00	3.00	0.15
		Construction	No		4	40	0.8	75.00	3.00	0.60
		Training of users (50% are women)	No		4	5	0.1	-	-	0.00
		Sub-total					100	2.00		
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	Identification and Initial Survey	No	2	4	10	0.2	100.00	4.00	0.20
		DED & Tender file	No		4	35	0.7	100.00	4.00	0.70
		Procurement	No		4	10	0.2	75.00	3.00	0.15
		Construction	No		4	40	0.8	75.00	3.00	0.60
		Training of users (50% are women)	No		4	5	0.1	-	-	0.00
		Sub-total					100	2.00		
Total for Output 2				15			20.00			9.73

Output 3:

		SUBACTIVITY	UNIT	DMF score	OVERALL TARGET	Sub- Weight (%)	DMF weight (%)	Progress Sept 2023		
								Current Progress %	Accumulated progress	Weighted Progress (%)
				(A)	(B)	(C)	(D)	E=(F/B)*100	F	G=(E*D)/100
3.a	Policy on Climate Smart and Gender Responsive Agribusiness and PPP framework formulated	Draft of Climate Smart and Gender Responsive Agrib-policy	Policy	2	1	20.00	0.40	25.00	0.25	0.10
		Draft CSA policy	Policy		1	20.00	0.40	40.00	0.40	0.16
		Draft guidance manual for climate neutrality and adaption for agribusiness operation	Prakas		1	20.00	0.40	30.00	0.30	0.12
		Draft IDP strategy for climate friendly agribusiness			1	20.00	0.40	65.00	0.65	0.26
		Draft PPP framework formulated	Framework		1	20.00	0.40	30.00	0.30	0.12
		Sub-total					100.00	2.00		
3.b	Good Agriculture Practice for tropical fruit endorsed	Guidance manual for climate neutrality and adaptation standards for agribusiness operation	Strategy	2	1	20.00	0.40	100.00	1.00	0.40
		Climate-friendly become more widely utilized with eight of largest Cambodia millers/exporters being part of alliance	Rice miller		8	15.00	0.30	12.50	1.00	0.04
		Standards on CamGAP tropical fruit formation	Standard		1	20.00	0.40	50.00	0.50	0.20
		Development of standards for organic fertilizer	Standard		1	15.00	0.30	90.00	0.90	0.27
		Development of IDP strategies for climate friendly agribusiness	Strategy		1	5.00	0.10	75.00	0.75	0.08
		National standards on biodigester development	Standard		1	5.00	0.10	100.00	1.00	0.10
		Socialize GAP Standards for tropical fruit	No		2	20.00	0.40	10.00	0.20	0.04
		Sub-total					100.00	2.00		
3.c	Good Agriculture Practice for organic fertilizer endorsed	Assessment TNA on CSA and Green finance	No	2	1	10.00	0.20	100.00	1.00	0.20
		Develop training material for staff training in CSA	No		1	15.00	0.30	100.00	1.00	0.30
		National Policy and Standards of Biodigester and bioslurry	policy		1	10.00	0.20	100.00	1.00	0.20
		Develop training material for staff training in green finance	No		1	15.00	0.30	80.00	0.80	0.24

		Implementation of training on green finance in CSA	Staff		50	25.00	0.50	0.00	-	0.00
		Implementation training in green finance	Staff		50	25.00	0.50	0.00	-	0.00
		Sub-total				100.00	2.00			0.94
3.d	30 agribusinesses trained in green finance and CSA	Assessment TNA on CSA and Green finance	TNA	2	1	10.00	0.20	100.00	1.00	0.20
		Develop training material for staff training in CSA	no		1	15.00	0.30	85.00	0.85	0.26
		Develop training material for staff training in green finance	no		1	15.00	0.30	70.00	0.70	0.21
		Implementation of training on green finance in CSA	Staff		30	30.00	0.60	26.67	8.00	0.16
		Implement training in green finance	Staff		30	30.00	0.60	0.00	-	0.00
		Sub-total				100.00	2.00			0.83
3.e	50 Staff from financial institutions trained in CSA and green finance	Assessment of TNA on CSA and Green finance	TNA	2	1	10.00	0.20	85.00	0.85	0.17
		Develop training material for staff training in CSA	Set		1	10.00	0.20	70.00	0.70	0.14
		Develop climate risk sharing mechanism /instrument	Set		1	20.00	0.40	15.00	0.15	0.06
		Awareness raising on weather and climate risk information sharing to communities	staff		50	60.00	1.20	48.00	24.00	0.58
		Sub-total				100.00	2.00			0.95
3.f	20,000 Households provided with information on climate risk-sharing instruments	Implementation of TNA	No	2	1	10.00	0.50	100.00	1.00	0.50
		Develop training material for staff training in green finance	No		1	15.00	0.50	50.00	0.50	0.25
		Implementation of training on green finance in CSA	Persons		20,000	75.00	1.00	0.00	-	0.00
		Sub-total				100.00	2.00			0.75
3.9	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	Development of ICT	No	3	1	55.00	1.65	5.00	0.05	0.08
		Purchase of equipment	No		1	20.00	0.60	5.00	0.05	0.03
		Installation of the center	No		1	25.00	0.75	5.00	0.05	0.04
		Sub-total				100.00	3.00			0.15
		Total for Output 3		15			15.00			5.49

DMF PROGRESS

Output and Activities		Assigned weight	PHYSICALL WEIGHTED PROGRESS (%)					
			31/03/2022	30/06/2022	30/9/2022	31/12/2022	31/03/2023	31/09/2023
Output 1 – Critical Agribusiness Value Chain Infrastructure Improved and made Climate-Resilient								
1.a	27 Irrigation and water management systems rehabilitated and made climate-friendly	15.00	3.36	3.76	4.25	4.59	5.59	6.84
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	0.46	0.46	0.48	0.52	0.79	1.50
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	4.14	4.83	4.98	5.11	6.75	7.98
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	4.44	4.44	5.94	8.02	9.48	14.25
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	5.00	3.36	3.70	4.00	4.26	4.36	4.54
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	5.00	0.38	0.48	0.53	0.62	0.80	0.93
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	5.00	0.57	0.68	0.93	0.99	1.22	1.54
sub-total Output 1		65.00	16.72	18.34	21.11	24.11	28.98	37.58
Output 2 – Climate-smart Agriculture and Agribusiness Promoted								
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	0.72	0.72	0.58	0.63	0.63	0.55
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	5.00	0.81	0.99	1.85	2.59	2.63	2.45
2.c.1	27 FWUCS of FWUGS made full operational	3.00	0.54	0.58	0.78	0.91	1.61	1.61
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irrigation schemes	3.00	0.04	0.23	0.41	0.58	0.77	1.82
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	1.08	1.48	1.48	1.48	1.65	1.65
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	1.08	1.48	1.48	1.48	1.65	1.65
sub-total Output 2		20.00	4.26	5.47	6.56	7.66	8.94	9.73
Output 3 – Enabling Environment for Climate-Friendly Agribusiness Enhanced								
3.a	Policy on Climate Smart and Gender Responsive Agribusiness and PPP framework formulated	2.00	0.41	0.46	0.51	0.56	0.76	0.76
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	0.93	0.98	1.08	1.08	1.12	1.12
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	0.83	0.87	0.92	0.92	0.94	0.94
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	0.53	0.57	0.62	0.71	0.83	0.83
3.e	30 agribusinesses trained in green finance and CSA	2.00	0.24	0.74	0.84	0.95	0.95	0.95
3.f	20,000 Households provided with information on climate risk-sharing instruments	2.00	0.43	0.60	0.75	0.75	0.75	0.75
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	3.00	0.00	0.00	0.00	0.00	0.15	0.15
sub-total Output 3		15.00	3.37	4.23	4.71	4.96	5.49	5.49
OUTPUT	Output 1	65.00	16.72	18.34	21.11	24.11	28.98	37.58
	Output 2	20.00	4.26	5.47	6.56	7.66	8.94	9.73
	Output 3	15.00	3.37	4.23	4.71	4.96	5.49	5.49
TOTAL Output (1 + 2 + 3)		100.00	24.35	28.03	32.38	36.73	43.42	52.80

Appendix 3: Procurement Plan

Basic Data

Project Name: Climate-Friendly Agribusiness Value Chains Sector Project		
Project Number: 48409-002		Approval Number: 3661/8346/0579
Country: Cambodia		Executing Agency: Ministry of Agriculture, Forestry & Fisheries
Project Financing Amount: US\$ 141,040,000 ADB Financing: US\$ 90,000,000 Cofinancing (ADB Administered): US\$ 40,000,000 Non-ADB Financing: US\$ 11,040,000		Implementing Agency: Ministry of Rural Development, Ministry of Water Resources and Meteorology
		Project Closing Date: 30 September 2026
Date of First Procurement Plan: 29 June 2018		Date of this Procurement Plan: 7 July 2023, Version 5
Advance Contracting: Yes	Related to COVID-19 response efforts: No	Use of e-procurement (e-GP): No

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding for Goods	US\$ 1,000,000 and Above	
National Competitive Bidding for Goods	Between US\$ 100,000 and US\$ 999,999	First two contracts subject to prior review.
Shopping for Goods	Up to US\$ 99,999	Post review.
International Competitive Bidding for Works	US\$ 3,000,000 and Above	
National Competitive Bidding for Works	Between US\$ 100,000 and US\$ 2,999,999	First of each type of intervention regardless of the value of the contract.
Shopping for Works	Up to US\$ 99,999	Post review.

Consulting Services	
Method	Comments
Quality- and Cost-Based Selection for Consulting Firm	Full-technical proposal.
Single Source Selection for Consulting Firm	Recruitment for the Variety Development Consulting Services.

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

2.1. Ministry of Water Resources and Meteorology (MOWRAM)								
Goods and Works								
Package Number	General Description	Estimated Value	Number of Contract	Procurement Method	Review (Prior/ Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
CFAVC-M OWRAM- KPC-CW1 4-2 (2022)	Irrigation Subproject, Kampong Cham province (1 scheme) Pou Tatress Reservoir	1,057,200.00	1	NCB	Post	1S1E	Q3 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CFAVC-M OWRAM- KPC-CW1 4-3 (2022)	Irrigation Subprojects, Kampong Cham province (2 schemes) Teuk Char East Teuk Char West Lot 1: Teuk Char East Lot Lot 2: Teuk Char West	3,750,000.00 1,875,000.00 1,875,000.00	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CFAVC-M OWRAM- KPT- CW12-2 (2021)	Irrigation Subprojects, Kampot province (2 schemes) Kandal Irrigation System Prawoek Pong Reservoir (70 ha) Lot 1: Kandal Irrigation System Lot 2: Prawoek Pong Reservoir (70 ha)	2,050,000.00 1,795,000.00 255,000.00	2	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CFAVC-M OWRAM- KPT- CW12-3 (2022)	Irrigation Subproject, Kampot province (1 scheme) Trapeang Boeung Reservoir	2,162,250.00	1	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)

CFAVC-MOWRAM-TBM-CW13-2 (2022)	Irrigation Subprojects, Tbong Khmum province (2 schemes)	1,964,210.00	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
	Lot 1: Tbong Damei Community	1,358,960.00						
	Lot 2: Kampong Raing Feeding Canal	605,250.00						
CFAVC-MOWRAM-TBM-CW13-2 (2022)	Irrigation Subprojects, Tbong Khmum province (2 schemes) Choam Tahoeung (1120ha) Trapeang Ampil	2,350,000.00	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
	Lot 1: 1	1,175,000.00						
	Lot 2: 2	1,175,000.00						
CFAVC-MOWRAM-TEO-CW15-2 (2022)	Irrigation Subprojects, Takeo province (3 schemes) Kwaeng Tayi Plov Touk & Chrouk 1 Prey Rumdeng feeding Canal	2,867,160.00	3	NCB	Post	1S1E	Q3 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
	Lot 1: Kwaeng Tayi	768,140.00						
	Lot 2: Plov Touk & Chrouk 1	832,020.00						
	Lot 3: Prey Rumdeng feeding Canal	1,267,000.00						
CFAVC-MOWRAM-EC-CW15-3 (2022)	Irrigation Subprojects, Takeo province (7 schemes) Pou Tasuy Reservoir 440ha, Pralay 85 Canal 850ha, Pralay 42 (Pumping Station) 650ha, O' Rumdourl (210ha) Sdok Sab	3,207,000.00	7	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
	Lot 1: 1 Pou Tasuy Reservoir 440ha	458,143.00						
	Lot 2: 2 Pralay 85 Canal 850ha	458,143.00						
	Lot 3: 3 Pralay 42 (Pumping Station)650ha	458,143.00						
	Lot 4: 4 O'Rumdourl (210ha)	458,143.00						
	Lot 5: 5 Sdok Sab	458,142.00						
	Lot 6: 6 TBC							
	Lot 7: 7 TBC							

CW14 (CFAVC-M OWRAM- KPC-CW1 4-1 (2020)	Irrigation Subprojects, Kampong Cham province (2 schemes: 955 ha) Lot 1: CW14-A Pram Kompheak (635 ha) Lot 2: CW14-B O kamprok (320 ha)	2,147,000.00 1,247,000.00 900,000.00	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW15 (CFAVC-M OWRAM-T EO CW15-1 (2020)	Irrigation Subprojects, Takeo province (2 schemes: 750 ha) Lot 1: CW15-A Prey Kdouch (550 ha) Lot 2: CW15-B Krain Ampil (200 ha)	1,664,000.00 1,230,800.00 433,200.00	2	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW16	Remaining Irrigation subprojects for four provinces. Lot 1: 1 Lot 2: 2 Lot 3: 3 Lot 4: 4 Lot 5: 5 Lot 6: 6 Lot 7: 7 Lot 8: 8	5,719,178.52 714,897.30 714,897.30 714,897.30 714,897.30 714,897.30 714,897.30 714,897.42	8	NCB	Post	1S1E	Q24/ 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: (less CW12- 15)
CW1a	On-farm rainfall water collection ponds for all provinces (80ponds) Lot 1: Kampot Lot 2: Takeo Lot 3: Tboung Khmum Lot 4: Kampong Cham	1,134,368.00 283,592.00 283,592.00 283,592.00 283,592.00	4	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Documents (2019)

CW1b	On-Farm Water Catchment Ponds - for 4 provinces (remaining 720)	8,418,208.00	12	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Documents (2019)
	Lot 1	701,517.37						
	Lot 2	701,517.33						
	Lot 3	701,517.33						
	Lot 4	701,517.33						
	Lot 5	701,517.33						
	Lot 6	701,517.33						
	Lot 7	701,517.33						
	Lot 8	701,517.33						
	Lot 9	701,517.33						
	Lot 10	701,517.33						
	Lot 11	701,517.33						
	Lot 12	701,517.33						
2.2. Ministry of Rural Development (MRD)								
CW17a-CFAVC-MRD-KP-1A & 2A-Batch 2	Rural Road Improvement (DBST/Concrete) in Kampot Province. Total (22.061km)	3,605,058.00	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
	Lot 1: Road Improvement total (12.963 km): 1. Trapeang Ta Meas-Ou Kandal (6.395 km); 2. Prey Krang Khang Cheung-Trapeang Chhuk (6.568 km).	2,201,113.23						
	Lot 2: Road Improvement total (9.098 km) 1. Snay Anhchit – Thlok Yul (3.817 km); 2. Trapeang Run-Bariveas (5.281 km)	1,403,944.77						
CW17a-CFAVC-MRD-KP-1A-Batch 3	Rural Road Improvement (DBST/Concrete) in Kampot Province. Total (12.39 km): Prey Chheu Nieng-Ponhea Angkor (12.39 Km)	1,861,800.00	1	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Documents (2019)

CW17b-CFAVC-MRD-TK-1A-Batch 3	Rural Road Improvement (DBST/Concrete) in Takeo Province. Total (20.08km): 1. Trapeang Pring-Cheav Bdei Khang Kaeut (4.51Km); 2. Trapeang Trakiet - Svay Prey (9.04 km); 3. Prey Kduoch - Phlov Louk (6.53 km)	2,789,600.00	1	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW17b-CFAVC-MRD-TK-2A-Batch 3	Rural Road Improvement (DBST/Concrete) in Takeo Province. Total (18.43km): 1. Khnach Khang Tboung - Bei Pey (6.66km); 2. Daeum Thlok - Prey Nhuek (5.69km); 3. Ta Mau - Trapeang Vihear (6.08 km)	2,626,000.00	1	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW17c-CFAVC-MRD-TBK-1A&2A-Batch 2	Rural Road Improvement (DBST/Concrete) in Tboung Khmum Province. Total (29.261 km)	4,590,287.36	1	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW17c-CFAVC-MRD-TBK-1A&2A-Batch 2	Rural Road Improvement (DBST/Concrete) in Tboung Khmum Province. Total (29.261 km) Lot 1: Toal:16.370 km: 1. From Chuol-Kbal Thnal (8.110 km); 2. From Sralab-Smaonh (5.437 km); 3.Kouk Srok (2.823 km) Lot 2: Total 12.891 km: 1. Samraeuy-Kokir (4.908 km); 2. Toul Kandal-Tuol Chan (2.789 km); 3. Popel (1.446 km); 4. La (3.748 km)	4,590,287.36 2,247,270.00 2,343,017.36	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)

CW17c-C FAVC- MRD-TBK- 1A-Batch 3	Rural Road Improvement (DBST/Concrete) in Tboung Khmum province. Total (22.06 km): 1. Chey Nikom - Char Stueng Ta Thok (5.80 km); 2.Seda Sen Chey - Rum Peak 2 (7.64 km); 3.Sen Prapey - Kampey (2.02 km); 4. Dar Phsar - Spean (6.60 km)	2,942,050.00	1	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW17d-C FAVC - MRD-KC- 1A &2A- Batch 2	Rural Road Improvement (DBST/Concrete) in Kampong Cham Province. Total (22.065 km) Lot 1: Total 9.425 km: 1. From Andoung Snay-Sdok Thum (3.925 km); 2. From Trapeang Kor-Trapeang Thma (5.500 km) Lot 2: Total 12.640Km: 1. From Dankao-Trapeang Bei (7.657 km); 2. From Pou Sala Ti Muoy-Sach Sour (4.983 km)	3,577,993.66 1,417,291.71 2,160,701.95	2	NCB	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
CW17d- CFAVC- MRD-KC- 1A-Batch 3	Rural Road Improvement (DBST/Concrete) in Kampong Cham Province. Total (7.78 km): 1. Tumpor - S'ang (3.23km); 2. Kandal Khnhoung - Angkor Chey Leu (4.55 km)	1,483,190.00	2	NCB	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)

2.3. Ministry of Agriculture, Forestry and Fisheries (MAFF)

CW19	Installation and commissioning of 10,750 Bio-digesters and 5,375 compost huts. (Step by step bidding with multiple lots)	8,367,490.00	Multiple	Shopping with advertising	Post	1S1E	2024 to 2026	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019) Change from NCB to shopping with advertises.
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D1 (D1b, D1c, D1d, D1e)	Demonstration and Training for Laser land levelling (3,500ha)	1,979,592.00 Lot1: 494,898.00 Lot2: 494,898.00 Lot3: 494,898.00 Lot4: 494,898.00	4	NCB	Post	1S1E	Q1-4 / 2024 to Q1-Q4/2025	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Documents (2019)
G1	Biotechnology (NAL) Laboratory (including tissue culture house equipment)	2,037,070.00	1	ICB	Post	1S1E	Q1 / 2025	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No SOP Updated Bidding 2019 Comments: Reduced by \$115,397.00 (\$91,397 for renovation room lab and \$24,000 for the construction net house - package CWX- IA-GDA)
G2	Rapid Test Kits = Bio / Organic Fertilizer Laboratory (materials and equipment)	1,007,722.18 Lot1: 503,861.09 Lot2: 503,861.09	2	NCB	Prior	1S1E	Q1 / 2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Documents (2019)

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

3.1. Ministry of Water Resources and Meteorology (MOWRAM)							
Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
CS6	Independent verification party	126,630.00	QCBS	Prior	Q3 / 2023	BTP	Assignment: National consultant (will be conducted by MOWRAM)
3.2. Ministry of Rural Development (MRD)							
None							
3.3 Ministry of Agriculture, Forestry and Fisheries (MAFF)							
CS3	Variety development by IRRI (Climate Resilient Varieties Support for CARDI, including: Advancing rice generation, Multi-location trials, On-farm adaptive trials & demonstrations, Breeder & foundation rice seed, Foundation seed for OPV maize)	2,787,015.00	SSS	Prior	Q4 / 2023	FTP	Assignment: International Advance Contracting: N Covid-19 Response? No Comments: As agreed in the negotiation.

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

The following table lists smaller-value goods, works and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

4.1 Ministry of Water Resources and Meteorology (MOWRAM)								
Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review (Prior/ Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
CW12-1	Irrigation Subprojects, Kampot province (1 scheme) Prey Takouch (450 ha)	675,700.00	1	NCB	Post	1S1E	Q1 / 2022	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: SOP Updated Bidding Documents (2019)
4.2 Ministry of Rural Development (MRD)								
None								
4.3. Ministry of Agriculture, Forestry and Fisheries (MAFF)								
CW18	Repairing Glasshouse for Germplasm Maintenance + net house Lot 1: Lot 2: Lot 3:	769,445.00 256,481.60 256,481.60 256,481.80	3	NCB	Post	1S1E	Q1-Q4/2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: Bidding Document: SOP Updated Bidding Documents (2019)

CW19a	Installation and commissioning of 500 bio-digesters and 250 compost huts* Lot 1: Kampot Lot 2: Kampong Cham Lot 3: Takeo Lot 4: Tboung Khmum	364,009.00 91,002.00 91,002.00 91,002.00 91,003.00	4	Shopping with advertising	Prior	1S1E	Q1-Q4/2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Small Works Covid-19 Response? No Comments: First type of intervention subject to prior review. *amount included beneficiary cost estimates. Change from NCB to shopping with advertises.
CW19b	Installation and commissioning of 750 biodigesters and 375 compost huts Package 1: Kampot Lot 1: Lot 2: Package 2: :Kampong Cham Lot 1: Lot 2: Package 3: Takeo Lot 1: Lot 2: Package 4: Tboung Khmum Lot 1: Lot 2:	544,484.00 68,060.50 68,060.50 68,060.50 68,060.50 68,060.50 68,060.50 68,060.50 68,060.50 68,060.50	8	Shopping with advertising	Post	1S1E	Q1-Q4 / 2024	Prequalification of Bidders: N Bidding Document: RFQ of Works Covid-19 Response? No Comments: *amount included beneficiary cost estimates. proposed to change from NCB to Shopping due to failure for 2 times of NCB process SOP Updated Bidding Documents (2019) Change from NCB to shopping with advertising.
D1a	Demonstration and Training for Laser land levelling (500ha) for 4 lots Lot 1: Kampot, Lot 2: Takeo Lot 3: Tboung Khmum Lot 4: Kampong Cham	300,000.00 75,000.00 75,000.00 75,000.00 75,000.00	4	NCB	Prior	1S1E	Q3 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: RFQ Works Covid-19 Response? No
CW11a	Construction of 02 dryer sheds for 100-ton warehouse (2 x \$40,000)	80,000.00	1	Shopping	Post	1S1E	Q3 / 2023	Prequalification of Bidders: N Bidding Document: RFQ of Works Covid-19 Response? No

CW5 (Canceled)	Renovation of Agriculture Extension Building in Kampot	12,900.00	1	Shopping	Post	1S1E	Q2 / 2023	Prequalification of Bidders: N Bidding Document: RFQ of Works Covid-19 Response? No Canceled from renovation to new building.
CW7a (New proposed)	Construction of Mechanization Workshops & Supervision for Takeo Province (Proposed for new building replacing office equipment provision in the original design)	119,769.92	1	NCB	Post	1S1E	Q3/2023	Prequalification of Bidders: N Bidding Document: Small Works Covid-19 Response? No Comments: Newly Proposed SOP Updated Bidding
CW4a (New proposed)	Construction of Training Building for Provincial Agriculture Development Center (PADC) at Kampot Province (former Renovation of Agriculture Extension Building in Kampot)	126,170.14	1	NCB	Post	1S1E	Q4/2023	Prequalification of Bidders: N Bidding Document: Small Works Covid-19 Response? No Comments: Newly Proposed SOP Updated Bidding
CW3b4 (New proposed)	Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, additional 6 units (Takeo 3 units & Kampot 3 units)	833,092.27	1	NCB	Post	1S1E	Q4/2023	Prequalification of Bidders: N Bidding Document: Small Works Covid-19 Response? No Comments: Newly Proposed SOP Updated Bidding 2019
G1a (2021)	Biotechnology (NAL) Laboratory (including tissue culture house equipment) Lot 1-Equipment Lot 2- Chemical reagent	997,750.00	2	NCB	Prior	1S1E	Q2 / 2025	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No Comments: For rebid SOP Updated Bidding 2019 Carry over to 2025 for Lot-1

G3	Equipment & Materials for 15 Drip Irrigation Systems (includes tube wells/water source connection, solar pumps and other agricultural inputs e.g. training)	805,617.00	1	NCB	Prior	1S1E	Q4 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No Comments: First type of intervention subject to prior review. SOP Updated Bidding 2019
G4	Equipment for Mechanizations Workshops for all four provinces	634,076.00	1	NCB	Post	1S1E	Q3 / 2023	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No SOP Updated Bidding 2019
G11a (New proposed)	Office equipment (Laptop computer, Printer for MAFF-PPIUs)	24,000.00	1	Shopping	Post	1S1E	Q4 / 2023	Prequalification of Bidders: N Bidding Document: RFQ of Goods Comments: Newly proposed SOP Updated Bidding 2019
G16	-Supply circulated cylinder dryers for the 100-ton warehouses (2 Units x US\$200,000) -Supply electrical voltage transformer set for 2 Units x \$30,000) circulated cylinder dryers	460,000.00	1	NCB	Post	1S1E	Q1 / 2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No
G7	ICT Equipment (including training and studies)	3,502,131.00	1	ICB	Prior	1S1E	Q1 / 2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No

G8	Six Paddy Milling Equipment	112,382.00	1	NCB	Post	1S1E	Q1 / 2024	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Goods Covid-19 Response? No
G9	Five units of Maize Shellers (2 tons)	18,730.00	1	Shopping	Post	1S1E	Q1 / 2024	Covid-19 Response? No Comments: RFQ with advertisement

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
None								

B. Indicative List of Packages Required Under the Project

The following table provides an indicative list of goods, works and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of	Procurement Method	Review (Prior/Post)	Bidding Procedure	Comments
NONE							

Consulting Services							
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/ Post)	Type of Proposal	Comments
NONE							

C. List of Awarded and On-going, and Completed Contracts

The following tables list the awarded and on-going contracts, and completed contracts.

1. Awarded and Ongoing Contracts

1.1. Ministry of Water Resources and Meteorology (MOWRAM)							
Goods and Works							
Package Number	General Description	Estimated Value (\$)	Actual Contract Amount	Procurement Method	Advertisement Date	Date of ADB Approval of Contract Date	Comments
CFAVC-MOWRAM-KPT-CW12.1 (2020)	Irrigation Subprojects, Kamptot province (1 scheme) Prey Takouch (450 ha)	675,700.00	621,018.47	NCB	25 January 2022	14 December 2022	K.B.H Construction Co., Ltd. (PCSS No. 0051, 0012, 0020)
CFAVC-MOWRAM-KPC-CW14.1 (2020)	Irrigation Subprojects, Kampong Cham province (2 schemes: 1,220 ha) Pram Kompheak (from 635 to 900 ha) O Kamprok (320 ha)	2,147,000.00 1,247,000.00 900,000.00	2,201,388.94	NCB	27 August 2021	30 December 2022	Peng Sour Construction Co., Ltd (PCSS No. 0050, 0011, 0019)
CFAVC-MOWRAM-KPT-CW12-2A (2021)	Trapeang Boeung Irrigation Subprojects, Kamptot (800ha)	2,011,961.00	-	NCB	31 March 2023	-	On BER and PRC's Approval Progresses
CFAVC-MOWRAM-KPT-CW12-2B (2021)	Irrigation Subprojects, Kamptot province (2 schemes) Kandoal Feeding Canal (750ha), Bravoek Pong Reservoir (70 ha)	2,148,936.00	-	NCB	31 March 2023	-	On BER and PRC's Approval Progresses
CFAVC-MOWRAM-TBM-CW13.2 (2022)	Irrigation Subprojects, Tbong Khmum province (2 schemes) Tbong Damei (600ha) Kampong Raing (350ha)	1,964,210.00 1,358,960.00 605,250.00	-	NCB	27 April 2022	-	Waiting for the DDR's Approval
CFAVC-MOWRAM-TEO-CW15.2 (2022)	Irrigation Subprojects, Takeo province (3 schemes) Kwaeng Tayi (970) Chrouk 1 + Plov Touk (975ha) Prey Rumdeng feeding Canal (650ha)	2,867,160.00 1,267,000.00 768,140.00 832,020.00	-	NCB	31 March 2023	-	On BER and PRC's Approval Progresses
CFAVC-MOWRAM-TEO-CW15.3 (2022)	Irrigation Subprojects, Takeo province (2 schemes) Pralay 95 (850ha) Pralay 45 with pumping station (650ha),	2,390,974.00	-	NCB	20 April 2023	-	Its Bid Opening will be held on 19-05-2023

CFAVC-RWHP-KAM-CW01-A.1	The Construction and Rehabilitation of 80 Rain Water Harvesting Ponds in Kampot Province	1,052,264.00	-	NCB	22 November 2022	-	On BER and PRC's Approval Progresses
CFAVC-RWHP-TBM-CW01-B.1	The Construction and Rehabilitation of 63 Rain Water Harvesting Ponds (RWHPs) in Tbong Khmum Province	1,372,555.00	-	NCB	31 March 2023	-	On BER and PRC's Approval Progresses
CFAVC-RWHP-TEO-CW01-D.1	The Construction and Rehabilitation of 69 Rain Water Harvesting Ponds (RWHPs) in Takeo Province	1,310,336.00	-	NCB	31 March 2023	-	On BER and PRC's Approval Progresses
CFAVC-RWHP-KPC-CW01-C.1	The Construction and Rehabilitation of 66 Rain Water Harvesting Ponds (RWHPs) in Kampong Cham Province	977,678.76	-	NCB	20 April 2023	-	Its Bid Opening will be held on 19-05-2023

1.2. Ministry of Rural Development (MRD)

Package Number	General Description	Estimated Value (\$)	Actual Contract Amount	Procurement Method	Advertisement Date	Date of ADB Approval of Contract Date	Comments
CW17a-CFAVC-MRD-KP1 & KP2-2020	Rural Road improvement (DBST) Kampot Province (20.10Km) Lot 1: Rural Road improvement (DBST) Kampot Province (11,948.05m) Lot 2: Rural Road improvement (DBST) Kampot Province (8,104.00m)	2,535,380.05 1,488,481.62 1,046,898.43	2,144,304.98 1,266,929.22 877,375.76	NCB	Q1/2021	29-June-2022	Lot 1: Royal Mekong Construction & Development Pte., Ltd Lot 2: Royal Mekong Construction & Development Pte., Ltd
CW17b-CFAVC-MRD-TK3 & TK4-2020	Rural Road improvement (DBST) Takeo Province (14.67 km) Lot 1: Rural Road improvement (DBST) Takeo Province (10.00 km) Lot 2: Rural Road improvement (DBST) Takeo Province (4.67 km)	2,327,615.73 1,420,261.51 907,354.22	2,123,018.50 1,243,719.86 879,298.64	NCB	Q4/2020	18-Jan-2022	Lot 1: Henan Water Construction Group Co., Ltd. Lot 2: Hout Chhoeun Construction Co., Ltd.

CW17c-CFACV-MRD-TBK5 & TBK6-2020	Rural Road Improvement (DBST) Tboung Khmum Province (21.83 km).	3,197,132.33	2,684,299.57	NCB	Q4/2020	17-May-2022	Lot 1: Heng Sambath Co., Ltd Import Export Transportation and Construction Lot 2: Heng Sambath Co., Ltd Import Export Transportation and Construction
	Lot 1: Rural Road Improvement (DBST) Tboung Khmum Province (9.774 km).	1,512,021.45	1,239,711.20				
	Lot 2: Rural Road Improvement (DBST) Tboung Khmum Province (12.00 km).	1,685,110.88	1,444,588.37				
CW17d-CFACV-MRD-KC7 & KC8-2020	Rural Road improvement (DBST) Kampong Cham Province (14.74 km)	2,017,159.42	1,714,195.29	NCB	Q1/2021	09-May-2022	Lot 1: MTA Construction Co., Ltd. Lot 2: MTA Construction Co., Ltd.
	Lot 1: Rural Road improvement (DBST) Kampong Cham Province (9.882 km)	1,280,831.31	1,103,011.81				
	Lot 2: Rural Road improvement (DBST) Kampong Cham Province (4.721 km)	736,328.11	611,183.48				
CW17b-CFACV-MRD-TK-1A & 2A-Batch 2	Rural road improvement (DBST/Conc) in Takeo Province. Total (26.737 km)	4,056,654.00	3,716,735.16	NCB	Q3/2022	03-Feb-2023	6 Stars Construction Co., Ltd. C.NO Construction and Investment Co., Ltd.
	Lot 1: Rural road improvement (DBST/Conc) in Takeo Province Total (13.976 km)	2,131,618.83	1,836,447.70				
	1. Angh Trav-Stueng (8.203km). 2. Trav Aem-Angk Baksei (5.773 km)						
	Lot 2: Rural road improvement (DBST/ Conc) in Takeo province. Total length (12.761 km)	1,925,035.17	1,880,287.46				
	1. Trapeang Srangae-Ang Tnaot Khang Lech (3.970 km) 2. Yeay La-Trapeang Chak (3.385 km) 3. Ta Pov- HanTea (5.406 km)						

<p>CW17a-CFAVC-MRD-KP-1A & 2A-Batch 2</p>	<p>Rural Road Improvement (DBST/Conc) In Kampot Province. Total (22.061km)</p> <p>Lot 1: Rural road improvement (DBST/Conc) in Kampot Province Total (12.963 km)</p> <p>1. Trapeang Ta Meas-Ou Kandal (6.395 km),</p> <p>2. Prey Krang Khang Cheung-Trapeang Chhuk (6.568 km).</p> <p>Lot: 2 Rural road improvement (DBST/ Conc) in Kampot province Total (9.098 km)</p> <p>1. Snay Anhchit – Thlok Yul (3.817 km)</p> <p>2. Trapeang Run-Bariveas (5.281 km)</p>	<p>3,605,058.00</p> <p>2,201,113.23</p> <p>1,403,944.77</p>		<p>NCB</p>	<p>Q1/2023</p>		
<p>CW17d-CFAVC - MRD-KC-1A & 2A-Batch 2</p>	<p>Rural Road Improvement (DBST/Con) in Kampong Cham Province. Total (22.069 km)</p> <p>Lot 1: Rural road Improvement (DBST/Conc) in Kampong Cham Province Total (9.425 km)</p> <p>1. From Andoung Snay-Sdok Thum (3.925 km)</p> <p>2. From Trapeang Kor-Trapeang Thma (5.500 km)</p> <p>Lot 2: Rural road improvement (DBST/Conc) (Total:12.640Km) in Kampong Cham Province</p> <p>1. From Dankao-Trapeang Bei (7.657 km),</p> <p>2. From Pou Sala Ti Muoy-Sach Sour (4.983 km).</p>	<p>3,577,993.66</p> <p>1,417,291.71</p> <p>2,160,701.95</p>		<p>NCB</p>	<p>Q2/2023</p>		

CW17c-CFAVC-MRD-TBK-1A&2A-Batch2	Rural Road Improvement (DBST/Concrete) in Tboung Khmum Province. Total (29.261 km).	4,590,287.36		NCB	Q2/2023		
	Lot 1: Total:16.370 km:	2,247,270.00					
	1. From Chruol-Kbal Thnal (8.110 km);						
	2. From Sralab-Smaonh (5.437 km);						
	3.Kouk Srok (2.823 km)	2,343,017.36					
	Lot 2: Total 12.891 km:						
	1. Samraeuy-Kokir (4.908 km);						
	2. Toul Kandal-Tuol Chan (2.789 km);						
	3. Popel (1.446 km);						
	4. La (3.748 km)						

1.3. Ministry of Agriculture, Forestry and Fisheries (MAFF)

Package Number	General Description	Estimated Value (\$)	Actual Contract Amount	Procurement Method	Advertisement Date	Date of ADB Approval of Contract Date	Comments
CW3b1/CFAVC/MAFF/2022	Construction Agricultural Cooperative (AC) Storage/Warehouse 21units: Lot 1 in Kampot and Lot 2 in Takeo	2,443,781.00	2,096,944.91	NCB		Prior review 3-Nov-22	KBH Construction Co., Ltd
Lot 1: CW3b1/CFAVC/MAFF/2022-01	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Kampot 8 units	938,801.75	799,471.99	NCB	Q2-2022		KBH Construction Co., Ltd PCSS 0044
Lot 2: CW3b1/CFAVC/MAFF/2022-02	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Takeo 13 units	1,524,938.97	1,297,472.92	NCB	Q2-2022		KBH Construction Co., Ltd PCSS 0045
CW3b2/CFAVC/MAFF/2022	Construction Agricultural Cooperative (AC) Storage/Warehouse 14units: Lot 1 in Kampong Cham and Lot 2 in Tboung Khmum	2,010,591.00	1,871,564.22	NCB	Q3-2022	Post review 1-Dec-22	KBH Construction Co., Ltd
Lot 1: CW3b2/CFAVC/MAFF/2022-01	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Kampong Cham 4 units	461,473.90	435,354.48	NCB	Q3-2022		KBH Construction Co., Ltd PCSS 0046

Lot 2: CW3b2/ CFAVC/ MAFF/2022- 02	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Tboung Khmum 10 units	1,540,524.1 0	1,436,209.7 4	NCB	Q3-2022		KBH Construction Co., Ltd PCSS 0047
CW3b3/CFAVC/ MAFF/2023	Construction Agricultural Cooperative (AC) Storage/Warehouse 25units: Lot 1 in Kampot, Lot 2 in Takeo, Lot 3 in Kampong Cham, and Lot 4 in Tbong Khmum	3,110,901.04	2,696,005.99	NCB	Q1-2023	Post review 3-May-23	KBH Construction Co., Ltd
Lot 1: CW3b3/ CFAVC/MAFF/2023/ 01	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Kampot 4 Units	479,288.00	412,656.73	NCB	Q1-2023		KBH Construction Co., Ltd
Lot 2: CW3b3/ CFAVC/MAFF/2023/ 02	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Takeo 12 Units	1,407,073.0 0	1,2115,18.9 2	NCB	Q1-2023		KBH Construction Co., Ltd
Lot 3: CW3b3/ CFAVC/MAFF/2023/ 03	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Kampong Cham 4 Units	552,348.00	483,447.47	NCB	Q1-2023		KBH Construction Co., Ltd
Lot 4: CW3b3/ CFAVC/MAFF/2023/ 04	Construction of Agricultural Cooperative Storage Basic infrastructure and design in Tboung Khmum 5 Units	672,170.00	588,347.46	NCB	Q1-2023		KBH Construction Co., Ltd
Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CS1	Project implementation consultants (PIC)	4,379,920.00	4,158,200.00	QCBS	Q2 / 2018	03-JUN-19	Agriconsulting Europe SA (AESAs) (Belgium) in association with SBK Research and Development Co., Ltd (Cambodia) (PCSS 0003)

CS2	Capacity Building and Climate Smart Agriculture Consulting Firm	3,478,429.00	3,265,076.00	QCBS	Q2 / 2018	13-SEP-19	eGen Consultants Ltd. in association with SBK Research and Development Co. Ltd., Okapi Environment Consulting and International Center for Tropical Agriculture (PCSS 0004)
CS4 SER-004/2021	Information and Communication Technology (ICT) Platform for Climate Risk Management in Agribusiness Value Chains in Kampong Cham Province	1,737,401.00	1,694,111.00	QCBS	Q4-2021	9- Dec-2022	Resources Development Consultants (Pvt) Ltd. In association with CAM-CSTR Co., Ltd
CS5	Feasibility Study & Detailed Engineering Design consulting firm (for irrigation and rural roads)	2,622,704.00	2,313,414.00	QCBS	Q2 / 2018	03-JUN-19	Resources Development Consultants (PVT) Ltd. (Sri Lanka) in association with (PCS 0005)

2. Completed Contracts

2.1 Ministry of Water Resources and Meteorology (MOWRAM)

Goods and Works

Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CW2	Trapeang Run Irrigation Subproject (100ha)	655,110.00	685,283.09	NCB	18 May 2020	10 November 2020	UNG SIM SIA Construction Co., Ltd. (PCSS No. 0013, 0001, G22444)
CFAVC-MOWRAM-TBM-CW13.1 (2020)	Irrigation Subprojects, Tboung Khmum province (3 schemes: 995 ha) Kbal Toeuk (445 ha) Toul Pring (100 ha) Trapeang Tross (450 ha)	2,607,100.00	2,234,441.34	NCB	15 March 2021	02 August 2021	Soeun Soknan Construction Co., Ltd. (PCSS No. 0018, 0002, 0001)
CFAVC-MOWRAM-TEO CW15.1 (2020)	Irrigation Subpro, Takeo province (2 schemes: 750 ha) Prey Kdouch (550 ha) Krain Ampil (200 ha)	1,664,000.00 1,230,800.00 433,200.00	1,392,848.85	NCB	18 March 2021	03 January 2022	K.B.H Construction Co., Ltd. (PCSS No. 0031, 0003, 0008)

2.2 Ministry of Rural Development

Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
None							

2.3 Ministry of Agriculture, Forestry and Fisheries

Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CW20/001/ CFAVC/MAFF	Office Partition and Electronic Connection	3,000.00	3,244.60	Shopping without Advertising		13-Nov-19	Veng Srun
CW20/001/ CFAVC/MAFF	Office Partition and Electronic Connection	3,000.00	3,244.60	Shopping without Advertising		13-Nov-19	Veng Srun
Lot 1: CW3a/ CFAVC/MAFF/2021/04	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KPT	404,007.00	366,834.92	NCB	Q4 / 2020	8-Sep-21	Hout Chheoun Construction Co., Ltd. (PCSS 0025)

Lot 2: CW3a/ CFAVC/MAFF/2021/05	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TAK	387,704.52	352,019.30	NCB	Q4 / 2020	8-Sep-21	Hout Chheoun Construction Co., Ltd. (PCSS 0026)
Lot 3: CW3a/ CFAVC/MAFF/2021/06	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KCM	451837.35	412637.88	NCB	Q4 / 2020	8-Sep-21	Hout Chheoun Construction Co., Ltd. (PCSS 0027)
Lot 4: CW3a/ CFAVC/MAFF/2021/07	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TBK	499,667.70	458440.83	NCB	Q4 / 2020	8-Sep-21	Hout Chheoun Construction Co., Ltd. (PCSS 0027)
Lot 1: CW4/ CFAVC/MAFF/2021/08	The Construction of Training Building-PADC & Equipment-TAK	81,239.81	94,290.68	NCB	Q4 / 2020	30-Jul-21	Hout Chheoun Construction Co., Ltd. (PCSS 0019)
Lot 2: CW4/ CFAVC/MAFF/2021/09	The Construction of Training Building-PADC & Equipment-TBK	81,239.81	92,954.64	NCB	Q4 / 2020	30-Jul-21	Hout Chheoun Construction Co., Ltd. (PCSS 0020)
Lot 3: CW4/ CFAVC/MAFF/2021/10	The Construction of Training Building-PADC & Equipment-KCM	81,239.81	95,186.61	NCB	Q4 / 2020	30-Jul-21	Hout Chheoun Construction Co., Ltd. (PCSS 0021)
Lot 1: CW7/ CFAVC/MAFF/2021/01	Construction of Mechanization Engineering Workshop-PDAFF-KPT	60,154.96	62176.87	NCB	Q4 / 2020	20-Apr-21	Hout Chheoun Construction Co., Ltd. (PCSS 0022)
Lot 2: CW7/ CFAVC/MAFF/2021/02	The Construction of Mechanization Engineering Workshop-PDAFF-TBK	60,154.96	62176.87	NCB	Q4 / 2020	20-Apr-21	Hout Chheoun Construction Co., Ltd. (PCSS 0024)
Lot 3: CW7/ CFAVC/MAFF/2021/03	The Construction of Mechanization Engineering Workshop-PDAFF-KCM	60,154.96	62176.87	NCB	Q4 / 2020	20-Apr-21	Hout Chheoun Construction Co., Ltd. (PCSS 0023)
CW21/CFAVC/MAFF/2022	Renovation of Plant Tissue Laboratory, Bio-fertilizer and Bio-pesticide Testing Laboratory (of NAL under GDA)	91,397.00	139,167.67	Shopping with Advertise	Q2-2022	23-Aug-2022	Taing Cheng Oing Construction & Import Export Co., Ltd PCSS 0041
CW22/CFAVC/MAFF/2022	Construction of Net Houses (of NAL under GDA)	24,000.00	24,350.92	Shopping without Advertise	Q2-2022	16-Jun-2022	KASEGRO CO., LTD PCSS 0040
G15 (2021)	Motorcycle (16 units)	35,200.00	27,168.00	SHOPPING G	Q4 / 2021	13-JUL-22	O.M.C. Co., Ltd. (PCSS 0038)
G14 (2021)	Pick-up Vehicles (2 units)	80,000.00	55,200.00	SHOPPING G	Q4 / 2021	13-JUL-22	HGB Auto Co., Ltd (PCSS 0037)
G-12/GD003/ CFAVC/MAFF/2019	The Supply Office Appliance	11,600.00	11,240.00	Shopping Without Ads		15-Nov-19	Mongkol Bee
G11/GD-004/ CFAVC/MAFF/2019	The Supply of Office Furniture	61,970.00	61,731.00	Shopping With Ads		18-Dec-19	Office Furniture Solutions Co., Ltd

G10/GD-005/ CFAVC/MAFF/2019	The Supply Office Equipment	123,400.00	123,447.00	NCB		25-Dec-19	ICE Electronics Co., Ltd
G13/GD-001/ CFAVC/MAFF/2020	The Supply of 05 Units Pick-up Truck for PMU/ MAFF	150,000.00	137,500.00	NCB		7-Feb-20	RMA Cambodia
G14/CFAVC/MAFF/2022 /001	The Supply and Delivery of Two Units Pickup Trucks for CFAVC	80,000.00	55,200.00	Shopping With Ads		21-Feb-22	HGB Auto Co., Ltd
G15/CFAVC/MAFF/2022 /002	The Supply and Delivery of 16 units Motorcycles for CFAVC	35,200.00	27,168.00	Shopping With Ads		17-Feb-22	OMC Co., Ltd

Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
NONE							

3. National Competitive Bidding

A. Regulation and Reference Documents

1. The procedures to be followed for national competitive bidding shall be those set forth for the "National Competitive Bidding" method in the Government's Procurement Manual issued under Sub-Decree Number 74 ANKR.BK, updated version dated 22 May 2012 with the clarifications and modifications described in the following paragraphs. These clarifications and modifications are required for compliance with the provisions of the Procurement Guidelines.

2. For the procurement of ADB financed contracts under National Competitive Bidding (NCB) procedures, the use of harmonized national bidding documents (NCB and National Shopping) developed in consultation with development partners including ADB, is mandatory except where the Government and ADB have agreed to amendments to any part of the documents. The Procurement Manual also advises users to check the ADB website from time to time for any update on ADB documents, which form the basis, among others, of the existing harmonized national bidding documents.

B. Procurement Procedures

1. Application

3. Contract packages subject to National Competitive Bidding procedures will be those identified as such in the project Procurement Plan. Any change to the mode of procurement of any procurement package in the Procurement Plan shall be made through updating of the Procurement Plan, and only with prior approval of ADB.

2. Sanctioning

4. Bidders shall not be declared ineligible or prohibited from bidding on the basis of barring procedures or sanction lists, except individuals and firms sanctioned by ADB, without prior approval of ADB.

3. Rejection of all Bids and Rebidding

5. The Borrower shall not reject all bids and solicit new bids without ADB's prior concurrence. Even when

only one or a few bids is/are submitted, the bidding process may still be considered valid if the bid was satisfactorily advertised and prices are reasonable in comparison to market values.

4. Advertising

6. Bidding of NCB contracts shall be advertised on the ADB website via the posting of the Procurement Plan. Borrowers have the option of requesting ADB to post specific notices in the ADB website.

C. Bidding Documents

5. Use of Bidding Documents

7. The Standard National Competitive Bidding Documents provided with the Government's Procurement Manual shall be used to the extent possible both for the master bidding documents and the contract-specific bidding documents. The English language version of the procurement documents shall be submitted for ADB review and approval in accordance with agreed review procedures (post and prior review) as indicated in the Procurement Plan. The ADB-approved procurement documents will then be used as a model for all procurement financed by ADB for the project.

6. Bid Evaluation

8. Bidders shall not be eliminated from detailed evaluation on the basis of minor, non-substantial deviations.

9. A bidder shall not be required, as a condition for award of contract, to undertake obligations not specified in the bidding documents or otherwise to modify the bid as originally submitted.

7. Employer's Right to Accept or Reject Any or All Bids

10. The decision of the Employer to accept or reject any or all bids shall be made in a transparent manner and involve an obligation to inform of the grounds for the decision through the bid evaluation report.

8. ADB Policy Clauses

11. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.

12. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the Borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question.

13. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, ADB-financed contract.

Appendix 4: Procurement Monitoring and Tracking Form (PMTF)

Appendix 4.1 - Procurement Monitoring and Tracking Form - Goods

No	Contract No.	Contract Description	Prior (P) or Post Review (PR)	Method of Selection	Planned(PL)/Accual(AC)	Design and Cost Estimate			Contract				
						EA sent to DP for NOL (Date)	EA received DP's NOL (Date)	Cost Estimate (Amount)	Contract Signed (Date)	Contractor's Name	Contract Amount (\$)	Contract Started (Date)	Contract Completion (Date)
1	2	3	4	5	6	7	8	9	19	20	21	22	23
1	G6/GD-001/MAFF/2019	The Supply of 47 Motorcycles for CFAVC	Post Review	Shopping With Ads				\$96,242.00	23-Jan-2019	OMC Co., Ltd	\$78,114.00	23-Jan-2019	12-Feb-19
2	G5/GD-002/CFAVC/MAFF/2019	The Supply of 15 Pick-up Trucks for CFAVC	Prior Review	NCB				\$795,532.00	27-Feb-19	HGB Auto Co., Ltd	\$419,250.00	27-Feb-2019	22-May-2019
3	G-12/GD003/CFAVC/MAFF/2019	The Supply Office Appliance	Post Review	Shopping Without Ads			21-Oct-19	\$11,600.00	15-Nov-19	Mongkol Bee	\$11,240.00	15-Nov-2019	29-Nov-2019
4	G11/GD-004/CFAVC/MAFF/2019	The Supply of Office Furniture	Post Review	Shopping With Ads			21-Oct-19	\$61,970.00	18-Dec-19	Office Furniture Solutions Co., Ltd	\$61,731.00	18-Dec-2019	17 Jan 2020
5	G10/GD-005/CFAVC/MAFF/2019	The Supply Ofice Equipment	Post Review	NCB			21-Oct-19	\$123,400.00	25-Dec-19	ICE Electronics Co.,Ltd	\$123,447.00	25-Dec-19	7-Feb-20
6	G13/GD-001/CFAVC/MAFF/2020	The Supply of 05 Units Pick-up Truck for PMU/MAFF	Post Review	NCB			21-Oct-19	\$150,000.00	7-Feb-20	RMA Cambodia Co., Ltd	\$137,500.00	7-Feb-20	1-Jun-20
7	001/GD/2020/CFAVC/MAFF	The Supply of Office Stationary for PMU	Post Review	Shopping Without Ads				\$6,000.00	4-Sep-20	Angkor Thom Book Center	\$4,950.60	4-Sep-20	11-Sep-20
8	002/GD/2020/CFAVC/MAFF	The Supply and Installation Wheel Tyre for 5 Pick-up Mazda	Post Review	Shopping Without Ads				\$4,000.00	11-Sep-20	Heng Heng Shop	\$3,560.00	11-Sep-20	18-Sep-20
9	G14/GD-001/CFAVC	The supply & Delivery of 02 units of Pickup Trucks	Post	Shopping With Ads				\$80,000.00	21-Feb-22	HGB Auto Co., Ltd	\$55,200.00	21-Feb-22	30-Mar-22

10	G15/GD-002/CFAVC	The supply & Delivery of 16 units of Motorcycles	Post	Shopping Without Ads				\$35,200.00	17-Feb-22	O.M.C Co., Ltd.	\$27,168.00	17-Feb-22	16-Mar-22
11	G2	Rapid Test Kits + Bio / Organic Fertilizer Laboratory (materials and equipment)	Prior	ICB				\$1,007,722.18					
12	G1a	Biotechnology (NAL) Laboratory (including tissue culture house equipment)	NCB	NCB				\$997,750.00					
13	G4	Equipment for mechanization workshop for 4 provinces (Tboung Khmum, Kampong Cham, Kampot, and Takeo)	NCB	Post				\$634,076.00					
14	G1	Biotechnology (NAL) Laboratory (including tissue culture house equipment)	Post	ICB				\$2,037,070.00					
15	G16	Supply circulated cyclinder dryer for the 100 Ton warehouse	Post	NCB				\$460,000.00					
16	G3	Equipment & Materials for 15 Drip Irrigations systems (includes tube wells/water source connection, solar pumps and other agricultural inputs and training)	Prior	NCB				\$805,617.00					
17	G7	ICT equipment training and studies	Prior	ICB				\$3,502,131.00					
18	G8	Six paddy milling equipment	Post	NCB				\$112,382.00					
19	G9	Five unit of Maize shellers (2 Tons)	Post	Shopping without ads				\$18,730.00					
		Total						\$10,939,422.18			\$922,160.60		

Appendix 4.2 – Procurement Monitoring and Tracking Form - Works

MAFF Procurement Monitoring and Tracking Form

No	Contract No.	Contract Description	Prior (P) or Post Review (PR)	Method of Selection	Planned (PL)/ Actual (AC)	Design and Cost Estimate			Contract						
						EA sent to DP for NOL (Date)	EA received DP's NOL (Date) RSA	Cost Estimate (Amount)	EA send draft Contract to the DP for NOL (Date)	EA received DP's NOL (Date)	Contract Signed (Date)	Contractor's Name	Contract Amount (\$)	Contract Started (Date)	Contract Completion (Date)
1	2	3	4	5	6	7	8	9	17	18	19	20	21	22	23
1	CW20/001/CFAVC/ MAFF	Office Partition and Electronic Connection	Post	Shopping without Advertizing				3,000.00			13-Nov-19	Veng Srun	3,244.60	14-Nov-19	21-Nov-19
2	Lot1: CW7/CFAVC/MAFF/2021/01	Construction of Mechanization Engineering Workshop-PDAFF-KPT	Prior	NCB	AC	N/A	N/A	60,154.96	25-Jun-21	26-Jul-21	16-Aug-21	Hout Chhoeun Construction Co., Ltd	62,176.87	30-Aug-21	11 Apr 22
3	Lot2: CW7/CFAVC/MAFF/2021/02	The Construction of Mechanization Engineering Workshop-PDAFF-TBK	Prior	NCB	AC	N/A	N/A	60,154.96	25-Jun-21	26-Jul-21	16-Aug-21	Hout Chhoeun Construction Co., Ltd	62,176.87	30-Aug-21	11 Apr 22
4	Lot3: CW7/CFAVC/MAFF/2021/03	The Construction of Mechanization Engineering Workshop-PDAFF-KCM	Prior	NCB	AC	N/A	N/A	60,154.96	25-Jun-21	26-Jul-21	16-Aug-21	Hout Chhoeun Construction Co., Ltd	62,176.87	30-Aug-21	11 Apr 22
													186,530.61		
5	Lot1: CW4/CFAVC/MAFF/2021/08	The Construction of Training Building-PADC & Equipment-TAK	Prior	NCB	AC	N/A	N/A	535,660.78	N/A	N/A	16-Aug-21	Hout Chhoeun Construction Co., Ltd	94,290.68	30-Aug-21	11 Apr 22
6	Lot2: CW4/CFAVC/MAFF/2021/09	The Construction of Training Building-PADC & Equipment-TBK	Prior	NCB	AC	N/A	N/A	535,660.78	N/A	N/A	16-Aug-21	Hout Chhoeun Construction Co., Ltd	92,954.64	30-Aug-21	11 Apr 22

7	Lot3: CW4/CFAVC/MAFF/2021/10	The Construction of Training Building-PADC & Equipment-KCM	Prior	NCB	A C	N/ A	N/ A	535,660.78	N/A	N/A	16-Aug-21	Hout Chhoeun Construction Co., Ltd	95,186.61	30-Aug-21	11 Apr 22
8	Lot1: CW3a/CFAVC/MAFF/2021/04	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KPT	Prior	NCB	A C	N/ A	N/ A	401,745.59	N/A	N/A	9-Sep-21	Hout Chhoeun Construction Co., Ltd	366,834.92	9-Sep-21	8-Dec-21
9	Lot2: CW3a/CFAVC/MAFF/2021/05	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TAK	Prior	NCB	A C	N/ A	N/ A	401,745.59	N/A	N/A	9-Sep-21	Hout Chhoeun Construction Co., Ltd	352,019.30	9-Sep-21	8-Dec-21
10	Lot3: CW3a/CFAVC/MAFF/2021/06	The Construction of Rice Seed Storage & Grain Storage-PDAFF-KCM	Prior	NCB	A C	N/ A	N/ A	401,745.59	N/A	N/A	9-Sep-21	Hout Chhoeun Construction Co., Ltd	412,637.88	9-Sep-21	8-Dec-21
11	Lot4: CW3a/CFAVC/MAFF/2021/07	The Construction of Rice Seed Storage & Grain Storage-PDAFF-TBK	Prior	NCB	A C	N/ A	N/ A	401,745.59	N/A	N/A	9-Sep-21	Hout Chhoeun Construction Co., Ltd	458,440.83	9-Sep-21	8-Dec-21
12	CW19a/CFAVC/MAFF/2021-01	Installation and commissioning of 500 biodigesters and 250 compost huts-Lot 1: Kampot/01	Prior	NCB	A C	N/ A	N/ A	91,002.25							
13	CW19a/CFAVC/MAFF/2021-02	Installation and commissioning of 500 biodigesters and 250 compost huts-Lot 2: Takeo/02	Prior	NCB	A C	N/ A	N/ A	91,002.25							
14	CW19a/CFAVC/MAFF/2021-03	Installation and commissioning of 500 biodigesters and 250 compost huts - Lot 3:	Prior	NCB	A C	N/ A	N/ A	91,002.25							

		Kampong Cham/03																
15	CW19a/CFAVC/MAFF/2021-04	Installation and commissioning of 500 biodigesters and 250 compost huts - Lot 4: Tboung Khmum/04	Prior	NCB	A C	N/ A	N/ A	91,002.25										
16	Lot 1: CW-3b1/CFAVC/MAFF/2022-01	Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, Package-1 (21 units in 2021), Lot 1 (Kampot, 8 Units) - \$931,204.65 Lot 2 (Takeo, 13 Units) - \$1,512,756.00	Prior	NCB	A C	N/ A	N/ A	2,443,781.00										
	Lot 2: CW-3b1/CFAVC/MAFF/2022-02	Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, Package-1 (21 units in 2021), Lot 1 (Kampot, 8 Units) - \$931,204.65 Lot 2 (Takeo, 13 Units) - \$1,512,756.00																

17	Lot 1: CW-3b2/CFAVC/MAFF/2022-01	Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, package-2 (14 units in 2021, Lot 1 (Kampongcha m, 4 Units) - \$461,473.90 Lot 2 (Tboung Khmum, 10 Units) - \$1,540,524.10	Post	NCB	A C	N/ A	N/ A	2,010,591.00								
	Lot 2: CW-3b2/CFAVC/MAFF/2022-02	Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, package-2 (14 units in 2021, Lot 1 (Kampongcha m, 4 Units) - \$461,473.90 Lot 2 (Tboung Khmum, 10 Units) - \$1,540,524.10														

18	CW3b3 (2021)	Lot 2 (Takeo, 13 Units) - \$1,512,756.00	Prior	NCB	A C	N/ A	N/ A	3,110,901.40								
19	CW7a (Proposed for new building replacing office equipment provision in the original design)	Construction of Mechanization Workshops & Supervision for Takeo Province	Post	Shopping with advertise	A C	N/ A	N/ A	81,543.73								
20	CW5	Construction of Training Building for Provincial Agriculture Development Center (PADC) at Kampot Province (former Renovation od Agriculture Extension Building in Kampot)	Post	Shopping with advertise	A C	N/ A	N/ A	99,867.82								
21	CW11a	Construction of 02 dryer sheds for 100-ton warehouse (2 x \$40,000)	Post	Shopping with advertise	A C	N/ A	N/ A	80,000.00								
21	CW18	Repairing Glasshouse for Germplasm Maintenance + net house (for CARDI) (3 Lots)	Post	NCB	A C	N/ A	N/ A	769,445.00								

23	CW19a (Split from CW19)	Installation and commissioning of 500 biodigesters and 250 compost huts Lot 1: Tboung Khmum Lot 2: Kampong Cham Lot 3: Takeo Lot 4: Kampot	Post	NCB	A C	N/ A	N/ A	364,009.00						
24	CW19b (Split from CW19)	Installation and commissioning of 750 biodigesters and 375 compost huts Lot 1: Tboung Khmum Lot 2: Kampong Cham Lot 3: Takeo Lot 4: Kampot	Post	NCB	A C	N/ A	N/ A	544,484.00						
25	CW19 (less: CW19a, CW19b)	Installation and commissioning of 11,500 biodigesters and 5,705 compost huts*	Post	NCB	A C	N/ A	N/ A	8,367,490.00						
26	CW21/CFAVC/MAFF/2022	Renovation of Plant Tissue Laboratory, Biofertilizer and Biopesticide Testing Laboratory (of NAL under GDA)	Post	Shopping with advertise	A C	N/ A	N/ A	100,000.00		23-Aug-22	Taing Chheng Oing	139,167.67		
27	CW22/CFAVC/MAFF/2022	Construction of Net Houses (of NAL under GDA)	Post	Shopping without advertise	A C	N/ A	N/ A	24,000.00		16-Jun-22	KASEGRO	24,350.92	27-Jun-22	

28	D1a (Split from D1)	Demonstration and Training for Laser land levelling (500ha) Lot 1: Tboung Khmum - \$75,000 Lot 2: Kampong Cham - \$75,000 Lot 3: Takeo - \$75,000 Lot 4: Kampot - \$75,000	Prior	NCB	A C	N/ A	N/ A	300,000.00							
29	D1 (less: D1a)	Demonstration and Training for Laser land levelling (3,500ha) (4 lots)	Post	NCB	A C	N/ A	N/ A	1,979,592.00							
		Total						24,037,143.5 2						2,412,189.2 7	

MOWRAM Procurement Monitoring and Tracking Form (Works)

1 No	2 Contract No.	3 Description of Works	6 Plan (P) / Actual (A)	7 Cost Estimate / Actual Cost	Bidding Documents and Bidding Process						Bid Evaluation/Contract Award					Contract		
					8 Approval of Draft Bid Docs by PRC	9 Submission to DP for NOL(a)	10 NOL by DP(b)	11 Advertisement of IFB	12 Bid Closing / Bid Opening	13 Completion of Evaluation by BEC	14 Submission to PRC	15 Approval by PRC	16 Submission to DP(c)	17 NOL by DP (d)	18 Issue of Notification of Award	19 Contract Signing	20 Signed Contract to DP	
1	CFAV C-KP-TR-CW2	The Rehabilitation of Trapeang Run Irrigation Subproject in Kampot Province	P A	632,097 685,283.09	15-May-20	21-May-20	N/A	20-May-20	19-Jun-20	24-Jun-20	24-Jun-20	16-Jul-20	10-Sep-20	28-Oct-20	3-Nov-20	10-Nov-20	20-Nov-20	
2	CFAV C-MOWRAM-TBM-CW13.1	The Rehabilitation of Three (3) Schemes (Kbal Teuk, Tuol	P A	2,565,971 2,234,441.33	21-Jan-21	25-Jan-21	10-Mar-21	15-Mar-21	13-Apr-21	3-Jun-21	6-Jun-21	9-Jun-21	6-Jul-21	28-Jul-21	29-Jul-21	2-Aug-21	18-Aug-21	

		Pring, and Trapeang Tros) Irrigation Subprojects in Tbong Khmum Province														
3	CFAV C-MOW RAM-TEO-CW15.1	The Rehabilitation of Two (2) Schemes (Prey Kdouch and Kraing Empil) Irrigation Subprojects in Takeo Province	P	1,749,735												
			A	1,392,848.85	10-Mar-21			18-Mar-21	19-Apr-21	3-Jun-21	6-Jun-21	9-Jun-21	2-Jul-21	11-Aug-21	17-Dec-21	3-Jan-22
4	CFAV C-MOW RAM-KPC-CW14.1	The Rehabilitation of Two (2) Schemes (Pram Komphak and	P	2,589,444												
			A	2,201,388.95	25-Aug-21			27-Aug-21	27-Sep-21	25-Jan-22	17-Feb-22	17-Feb-22		20-Dec-22	30-Dec-22	9-Mar-23

		O'Kamp rok) Irrigatio n Subproj ects in Kampo ng Cham Provinc e															
5	CFAV C- MOW RAM- KPT- CW12 .1	The Rehabili tation of Takoch Irrigatio n Subproj ect in Kampot Provinc e	P	757,200													
			A	621,018.4 7	21- Jan- 22			25- Jan- 22	25- Feb- 22	31- Mar- 22	4-Apr- 22	8-Apr- 22			5- Dec- 22	14- Dec- 22	9- Mar- 23
6	CFAV C- MOW RAM- TBM- CW13 .2	The Rehabili tation of Two (2) Schem es (Tbong Damrei Commu nity and Kampo ng Raing Feeding Canal) Irrigatio n Subproj	P	1,964,210													
			A	2,787,044	19- Apr- 22			27- Apr- 22	27- May- 22	31- Jul-22	25- Aug- 22	26- Aug- 22			29- Sep- 23	6-Oct- 23	24- Oct- 23

		ects in Tbong Khnum Provinc e															
7	CFAV C- MOW RAM- KPT- CW12 .2A	The Rehabili tation of Trapea ng Boeung Reserv oir Irrigatio n Subproj ect in Kampot Provinc e	P	2,011,961													
			A	2,519,988	20- Jun- 22			13- Jul-22	12- Aug- 22	30- Sep- 22	11- Nov- 22	11- Nov- 22		2-Oct- 23	9-Oct- 23	24- Oct- 23	
8	CFAV C- MOW RAM- KPT- CW12 .2B	The Rehabili tation of Two (2) Schem es (Kandal Irrigatio n System and Prawoe k Pong Reserv oir) Irrigatio n Subproj ects in Kampot	P	2,148,937													
			A	2,667,166	29- Jun- 22			13- Jul-22	12- Aug- 22	30- Sep- 22	11- Nov- 22	11- Nov- 22		2-Oct- 23	9-Oct- 23	24- Oct- 23	

		Province															
9	CFAV C- MOW RAM- TBM- CW13 .3	The Rehabilitation of Two (2) Schemes (Choam Tahoueng and Trapeang Ampil) Irrigation Subprojects in Tbong Khmum Province	P	2,426,000													
			A														
10	CFAV C- MOW RAM- KPC- CW14 .2	The Rehabilitation of Teuk Char West Irrigation Subproject in Kampong Cham Province	P	2,657,250													
			A														
11	CFAV C-	The Rehabili	P	2,856,000													

	MOW RAM- KPC- CW14 .3	tation of Pou tatress Reserv oir Irrigatio n Subproj ect in Kampo ng Cham Provinc e	A													
1 1	CFAV C- MOW RAM- KPC- CW14 .4	The Rehabili tation of Teuk Char East Irrigatio n Subproj ect in Kampo ng Cham Provinc e	P A	2,856,000												
1 2	CFAV C- MOW RAM- TEO- CW15 .2	The Rehabili tation of Three (3) Schem es (Kwaen g Tayi, Plov Touk &	P A	2,867,160 2,458,544		24- Mar- 23		31- Mar- 23	2- May- 23	7-Jul- 23	4- Aug- 23	4- Aug- 23		2-Oct- 23	9-Oct- 23	24- Oct- 23

		Chrouk 1, and Prey Rumde ng Feeding Canal) Irrigatio n Subproj ects in Takeo Provinc e															
1 3	CFAV C-MOW RAM-TEO-CW15 .3	The Rehabil itation of Two (2) Schem es (Pralay 42 and Pralay 95) Irrigatio ns Subproj ects in Takeo Provinc e	P	2,339,235													
			A	2,331,211	14-Apr-23		20-Apr-23	19-May-23	28-Jul-23	25-Aug-23	25-Aug-23		2-Oct-23	9-Oct-23	24-Oct-23		
1 4	CFAV C-MOW RAM-TEO-CW15 .4	The Rehabil itation of Three (3) Schem es (Ta Oum Reserv	P	2,900,600													
			A														

		oir, Sdok Sab, and Pou Tasuy) Irrigations Subprojects in Takeo Province															
15	CFAV C-RWH P-KAM-CW01-A.1	The Construction and Rehabilitation of 80 Rain Water Harvesting Ponds (RWHPs) in Kampot Province	P	1,052,264													
			A	1,159,762	14-Apr-22		22-Nov-22	19-Dec-22	28-Feb-23	6-Jun-23	6-Jul-23		13-Jul-23	27-Jul-23	22-Aug-23		
16	CFAV C-RWH P-KAM-CW01-A.2	The Construction and Rehabilitation of 60 Rain Water Harvesting Ponds	P	1,000,000													
			A														

		(RWHPs) in Kampot Province															
17	CFAV C- RWH P- TBM- CW01 -B.1	The Construction and Rehabilitation of 63 Rain Water Harvesting Ponds (RWHPs) in Tbong Khmum Province	P	1,372,555													
			A	1,324,598	24-Mar-23			31-Mar-23	2-May-23	1-Jun-23	28-Jul-23						
18	CFAV C- RWH P- TBM- CW01 -B.2	The Construction and Rehabilitation of 70 Rain Water Harvesting Ponds (RWHPs) in Tbong Khmum Province	P	1,000,000													
			A														

19	CFAV C- RWH P- KPC- CW01 -C.1	The Construction and Rehabilitation of 66 Rain Water Harvesting Ponds (RWHPs) in Kampong Cham Province	P	984,279												
		A	1,026,790	14-Apr-23			20-Apr-23	19-May-23	28-Jul-23	25-Aug-23						
20	CFAV C- RWH P- KPC- CW01 -C.2	The Construction and Rehabilitation of 70 Rain Water Harvesting Ponds (RWHPs) in Kampong Cham Province	P	1,000,000												
		A														
21	CFAV C-	The Constru	P	1,310,336												

	RWH P-TEO-CW01-D.1	ction and Rehabilitation of 69 Rain Water Harvesting Ponds (RWHPs) in Takeo Province	A	1,264,293	24-Mar-23				31-Mar-23	2-May-23	1-Jun-23	28-Jul-23						
2 2	CFAV C-RWH P-TEO-CW01-D.2	The Construction and Rehabilitation of 70 Rain Water Harvesting Ponds (RWHPs) in Takeo Province	P	1,000,000														
			A															
Grand Total			P	42,041,233														
			A	24,674,376														
			Diff.															

MRD TRACKING RECORD ON CONTRACTS MANAGEMENT FOR WORKS

No	Contract No.	Contract Description	Actual KM	Prior (P) or Post Review (PR)	Method of Selection	Planned(PL)/Accual(AC)	Cost Estimate (Amount)	Contract Signed (Date)	Contracts			
									Contractor's Name	Contract Amount (\$)	Commencement (Date)	Contract Completion (Date)
1	2	3	4	5	6	7	15	16	17	18	19	
1	CW17b-CFAVC-MRD-TK3&TK4-2020	Lot 1, Improve 1 Road, 10.00 Km, (Takeo)	10.00	(P)	NCB	AC	\$1,420,261.51	18/01/2022	Henan Water Construction Group Co., Ltd.	\$1,243,719.86	28-01-2022	22-07-2023
		Lot 2, Improve 1 Road, 4.67.00 Km, (Takeo)	4.67				\$907,354.22		Hout Chhoeun Construction Co., Ltd.	\$879,298.64	28-01-2022	22-07-2023
2	CW17c-CFAVC-MRD-TBK5&TBK6-2020	Lot 1, Improve 1 Road, 9.774km (Tboung Khmum)	9.774	(PR)	NCB	AC	\$1,512,021.45	17/05/2022	Heng Sambat Co., Ltd Import Export Transportation and Construction.	\$1,239,711.20	26-05-2022	17-11-2023
		Lot 2, Improve 1 Road, 12.00km (Tboung Khmum)	12.00				\$1,685,110.88		Heng Sambat Co., Ltd Import Export Transportation and Construction.	\$1,444,588.37	26-05-2022	17-11-2023
3	CW17d-CFAVC-MRD-KC7&KC8-2020	Lot 1, Improve 1 Road, 9.882km (Kampong Cham)	9.882	(PR)	NCB	AC	\$1,280,831.31	5/9/2022	MTA Construction Co., Ltd.	\$1,103,011.81	25-10-2022	17-04-2024
		Lot 2, Improve 1 Road, 4.721km (Kampong Cham)	4.721				\$736,328.11		MTA Construction Co., Ltd.	\$611,183.48	25-10-2022	17-04-2024

4	CW17a-CFAVC-MRD-KP1&KP2-2020	Lot 1, Improve 1 Road, 11,948.05m (Kampot)	11.948	(PR)	NCB	AC	\$1,488,481.62	6/29/2022	Royal Mekong Construction & Development Pte., Ltd.	\$1,266,929.22	03-10-2022	26-03-2024
		Lot 2, Improve 1 Road, 8,104.00m (Kampot)	8.104				\$1,046,898.43		Royal Mekong Construction & Development Pte., Ltd.	\$877,375.76	03-10-2022	26-03-2024
4	CW17b-CFAVC-MRD-TK-1A & 2A-Batch 2	Lot 1, Improvement of 13.976 km (Takoe)	13.976	(PR)	NCB	AC	\$2,153,628.30	2/3/2023	6 Stars Construction Co., Ltd	\$1,836,447.70	Not yet start	
		Lot 2, Improvement of 12.761 km (Takoe)	12.761				\$1,940,547.87		C.NO Construction & Investment Co., Ltd	\$1,880,287.00	Not yet start	
5	CW17a-CFAVC-MRD-KP-1A & 2A-Batch 2	Lot 1, Improvement of 12.963 km (Kampot)	12.963	(PR)	NCB	AC	\$2,293,416.51	6/16/2023	Henan Water Construction Group Co., Ltd.	\$1,999,673.93	Not yet start	
		Lot 2, Improvement of 9.098 km (Kampot)	9.098				\$1,454,917.97		6 Stars Construction Co., Ltd	\$1,273,595.30	Not yet start	
6	CW17d-CFAVC-MRD-KC-1A & 2A-Batch 2	Lot 1, Improvement of 9.425 km (Kampong Cham)	9.425	(PR)	NCB	AC	\$1,496,416.30	6/16/2023	MTA Construction Co., Ltd.	\$1,362,724.53	Not yet start	
		Lot 2, Improvement of 12.460 km (Kampong Cham)	12.460				\$2,284,981.44		6 Stars Construction Co., Ltd	\$1,985,570.95	Not yet start	
7	CW17c-CFAVC-MRD-TBK-1A & 2A-Batch 2	Lot 1, Improvement of 16,370 (Tboung Khmum)	16.370	(PR)	NCB	AC	\$2,306,669.43					
		Lot 2, Improvement of 12.891 km (Tboung Khmum)	12.891				\$2,399,346.74					
Grand Total			171.043				\$26,407,212.09			\$19,004,117.75		

Appendix 4.3 – Procurement Monitoring and Tracking Form – Consulting Firm

No	Contract No.	Contract Description	Prior (P) or Post Review (PR)	Method of Selection	TOR/EOI Contract					Contract information							
					Cost Estimate/Actual Cost	NOL from DP	Financial Opening of Qualified Firms	Combidened Evaluation Approved by	Approved by PRC	Submission to DP	NOL by DP	Contract Signing	Contractor's name	Contract amount	Signed Contract to DP for Info	Contract start date	Contract completion date date
1	2	3	4	5	7	19	20	21	22	24	25	26	27	28	29	30	31
1	SER-001/2019	Project Implementation Consultant (PIC) - Package CS1 Consultant Service	Prior	QCBS	4,379,920.00				10-Jul-19	Agriconsulting Europ S.A joint venture with SBK Research and Development	4,158,200.00	16-Sep-19			30-Sep-24		30-Sep-24
2	SER-002/2019	Capacity Building and Climate Smart Agriculture consulting firm - Package CS2 Consultant Service	Prior	QCBS	3,478,429.00				12-Jul-19	e.Gen Consultants Ltd., in association with SBK Research and Development, Okapi Environment Consulting, and International Center for Tropical Agriculture	3,265,076.00	23-Sep-19			31-Jul-24		31-Jul-24
3	SER-003/2019	Feasibility Studies and Detailed Engineering Design consulting firm – Package CS5 Consultant Service	Prior	QCBS	2,622,704.00				26-Sep-19	Resources Development Consultants (Pvt) Ltd. In association with CAM-CSTR Co., Ltd	2,313,414.00	1-Nov-19			30-Sep-24		30-Sep-24

4	SER-004/2021	Information and Communication Technology (ICT) Platform for Climate Risk Management in Agribusiness Value Chains in Kampong Cham Province	Prior	QCBS	1,737,401.00	5-Sep-22	12-Sep-22										
	CS3	CARDI	Prior	SSS	2,787,015.00												
	CS4	ICT (Including: Infrastructure, Software development, Training, workshops and Demonstrations, Policies and standards, Consultants, Office operations and support costs)	Prior	QCBS	1,737,401.00	5-Sep-22	12-Sep-22	Being progress			9-Dec-22	Resources Development Consultants (Pvt) Ltd. In joint venture with Genesis Software (Pvt) Ltd & subconsultant CAM-CSTR Co., Ltd.	1,694,111.00	6-Jan-23	8-Jun-25		
	CS6	ITP	Prior	QCBS	126,630.00												
		Total			16,869,500.00					9,736,690.00							

Appendix 5: Loans Covenants Status

No	Covenant	Loan Agreement Reference			Compliance Status	Remarks/Issues	
		Product	Schedule	Para No.			Description
	Sector						
		Loan 3661	Schedule 4	4	1. In the carrying out of the Project and operation of the Project facilities, the Borrower shall perform, or cause to be performed, all obligations set forth in Schedule 5 of this Loan Agreement	Being complied	
	Sector	Loan 3661	Schedule 5	15	Subproject selection. The Borrower shall ensure, or cause the Project Executing Agency to ensure, that all Subprojects selected for financing under the Project meet the screening, eligibility and approval criteria as agreed between the Borrower and ADB and documented in (Implementation Procedures) of the PAM.	Being complied with	
	Sector	Grant 0579	Sched 2	6	The Recipient shall ensure that the activities related to the Project are implemented in compliance with the laws of the Recipient and other laws applicable to it, including but not limited to intellectual property law, if and to the extent any such laws maybe applicable to it.	Being complied	
	Financial						
		Loan 3661	Schedule 5	13	Counterpart Support. The Borrower shall ensure that counterpart support necessary for the Project is provided on a timely basis.	Being Complied	
1		Loan 3661	Schedule 5	14	The Borrower shall ensure that all completed Subprojects have adequate funds for operation and maintenance allocated to them on a yearly basis and made available on a timely basis. The Borrower shall further ensure that the farmer water user communities and water use groups collect irrigation service fees to sustain the operation and maintenance of distribution canals in accordance with the Borrower's decree on farmer water user communities.	To be complied with	Not due yet
2		Loan 8346	Schedule 4	4	4. The Borrower shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Being Complied with	Inception mission verified office equipment and goods delivered to EA/IAs
3		Loan 8346	Schedule 4	4	3. ADB's obligation to disburse any amount from the Loan Account shall be subject to ADB's receipt of a corresponding amount from GCF in accordance with the terms of the AMA and the FAA.	Comply	Agreed.

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
4		Loan 8346	Schedule 4	4	2(c) The Borrower shall enable ADB, upon ADB's request to discuss the financial statements for the Project and the Borrower's financial affairs where they relate to the Project with the auditors appointed pursuant to subsection (a), (iii) herein above, and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB. This is provided that such discussions shall be conducted only in the presence of an authorized officer of the Borrower, unless the Borrower shall otherwise agree.	Being Complied with	Third Financial Audit for the year 2021 was conducted in February'2022. Report has been submitted to ADB in June 2022.
		Loan 8346	Schedule 4	4	1. In the carrying out of the Project and operation of the Project facilities, the Borrower shall perform, or cause to be performed, all obligations set forth in the Ordinary Operations [Concessional] Loan Agreement.	Being complied with	
5		Loan 8346	Schedule 4	4	2(b) ADB shall disclose the annual audited financial statements for the Project and the opinion of the auditors on the financial statements within 14 days of the date of ADB's confirmation of their acceptability by posting them on ADB's website.	Being Complied with	
6		Loan 8346	Schedule 4	4	2(a) The Borrower shall cause the Project Executing Agency to (i) maintain separate accounts and records for the Project; (ii) prepare annual financial statements for the Project in accordance with financial reporting standards acceptable to ADB; (iii) have such financial statements audited annually by independent auditors whose qualifications, experience and terms of reference are acceptable to ADB, in accordance with auditing standards acceptable to ADB; (iv) as part of each such audit, have the auditors prepare a report, which includes the auditors' opinion(s) on the financial statements and the use of the Loan proceeds and a management letter (which sets out the deficiencies in the internal control of the Project that were identified in the course of the audit, if any); and (v) furnish to ADB, no later than 6 months after the end of each related fiscal year, copies of such audited financial statements, audit report and management letter, all in the English language, and such other information concerning these documents and the audit thereof as ADB shall from time to time reasonably request.	Being Complied with	Being complied. Separate accounts established. 3rd annual audited project financial statement reports for FY2021 submitted in June 2022.
7		Loan 8346	Schedule 4	5	5(c) Without limiting the generality of the foregoing, the Borrower shall furnish to ADB periodic reports on the execution of the Project, on the accomplishment of the targets and actions agreed between ADB and the Borrower, and on the operation and management of the Project	Being complied with	Progress reports have been submitted every quarter

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
					facilities. Such reports shall be submitted in such form and in such detail and within such a period as ADB shall reasonably request, and shall indicate, among other things, progress made and problems encountered during the period under review, steps taken or proposed to be taken to remedy these problems, and proposed program of activities and expected Progress during the following period.		
8		Loan 8346	Schedule 4	5	9. Contractors and Consultants. In the carrying out of the Project, the Borrower shall cause competent and qualified consultants and contractors, acceptable to the Borrower and ADB, to be employed to an extent and upon terms and conditions satisfactory to the Borrower and ADB.	Being Complied	Some CS2 non key experts still not mobilized.
9		Loan 8346	Schedule 4	5	5. Reports. (a) The Borrower shall furnish, or cause to be furnished, to ADB all such reports as ADB shall reasonably request concerning (i) the Loan, and the expenditure of the proceeds and maintenance of the service thereof; (ii) the goods, services and other items of expenditure financed out of the proceeds of the Loan; (iii) the Project and the Project Executing Agency; (iv) the administration, operations and financial condition of the Borrower; and (v) any other matters relating to the purposes of the Loan.	Being Complied with	Being complied with. Final inception report was submitted to ADB on 15 Feb 2020. Progress reports have been submitted every quarter.
10		Loan 8346	Schedule 4	5	3(b) Without limiting the generality of the foregoing, the Borrower undertakes to insure, or cause to be insured, the goods to be imported for the Project and to be financed out of the proceeds of the Loan against hazards incident to the acquisition, transportation and delivery thereof to the place of use or installation, and for such insurance any indemnity shall be payable in a currency freely usable to replace or repair such goods.	Being Complied with	Being complied.
11		Loan 8346	Schedule 4	5	2. Negative Pledge. (a) If the Borrower shall create or permit the creation of any lien on any of its assets as security for any foreign currency debt, the Borrower undertakes to expressly provide that such lien will ipso facto equally and ratably secure the payment of the principal of, and service charge on, the Loan. If any statutory lien shall be created on any assets of the Borrower (as hereinafter defined), as security for any foreign currency debt, the Borrower shall grant to ADB an equivalent lien satisfactory to ADB.	Being Complied with	Agreed

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
12		Loan 8346	Schedule 4	5	(b) The Borrower shall afford all reasonable opportunity for ADB's representatives to visit any part of its territory for purposes related to the Loan.	Complied with	Agreed.
13		Loan 8346	Schedule 4	5	2.b. The provisions of paragraph (a) of this Section shall not apply to (i) any lien created on property, at the time of purchase thereof, solely as security for payment of the purchase price of such property; or (ii) any lien arising in the ordinary course of banking transactions and securing a debt maturing not more than one year after its date.	Being Complied with	Agreed.
14		Loan 8346	Schedule 4	5	3. Insurance. (a) The Borrower shall take out and maintain with responsible insurers, or make other arrangements satisfactory to ADB for, insurance against such risks and in such amounts as shall be consistent with sound practice. The Borrower shall be deemed to have opted for self- insurance in the absence of any specific insurance for the Project.	Being Complied with	Being complied.
15		Loan 8346	Schedule 4	5	2.c. The term "assets of the Borrower" as used in paragraph (a) of this Section includes assets of any political subdivision or any agency of the Borrower and assets of any agency of such political subdivision, and assets of any entity owned or controlled by, or operating for the account or benefit of, the Borrower or any such political subdivision or agency, including any other institution performing the functions of a central bank for the Borrower.	Being Complied with	Agreed.
16		Loan 8346	Schedule 4	5	5(b) The Borrower shall promptly inform ADB of any condition which interferes with, or threatens to interfere with, the progress of the Project, the performance of their respective obligations under the Loan Agreement, the accomplishment of the purposes of the Loan, or the maintenance of the service thereof; and the Borrower shall promptly inform ADB in advance of any proposed changes in the ownership or control of the Borrower or its assets, or any transaction or arrangement which will have or is likely to have such effect.	Being Complied	In April 2022 a decision was made on the implementation of the ponds and drip irrigation
17		Loan 8346	Schedule 4	5	8(b) The Borrower shall ensure that the activities of its departments and agencies with respect to the carrying out of the Project and operation of the Project facilities are conducted and coordinated in accordance with sound Administrative policies and procedures.	Being Complied with	

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
18		Loan 8346	Schedule 4	5	8. General Undertakings. (a) The Borrower shall cause the Project to be carried out with due diligence and efficiency and in conformity with sound financial, business and development practices. The Borrower shall in collaboration with ADB ensure that the Project adheres to ADB policies on anticorruption, core labor standards, environmental and social safeguards, gender, procurement and consulting services, disbursement and such other policy specified in the Loan Agreement.	Being Complied	Being complied.
19		Loan 8346	Schedule 4	5	7. Work Schedules, Plans and Design Standards. The Borrower shall cause the Project to be carried out in accordance with plans, design standards, specifications, work schedules and construction methods acceptable to the Borrower and ADB, as applicable. When required by ADB, the Borrower shall furnish, or cause to be furnished, to ADB, promptly after their preparation, such plans, design standards, specifications and work schedules, and any material modifications subsequently made therein, in such detail as ADB shall reasonably request.	Being Complied	AWP submitted mid December 2022
20		Loan 8346	Schedule 4	5	6. Counterpart Obligations and Land Acquisition. The Borrower shall make available, promptly as and when needed, the funds, facilities, services, land, and other resources as shall be necessary or required, in addition to the proceeds of the Loan, for the carrying out of the Project and for the operation and maintenance of the Project facilities. The Borrower shall furnish to ADB, promptly at its request, evidence satisfactory to ADB that such funds, facilities, services, land, and other resources are available for purposes related to the Project.	Being Complied	To be complied.
21		Loan 8346	Schedule 4	5	5(d) Promptly after completion of the Project, but in any event not later than three months thereafter or such later date as may be agreed for this purpose between the Borrower and ADB, the Borrower shall prepare and furnish to ADB a report, in such form and in such detail as ADB shall reasonably request, on the execution and initial operation of the Project, including its cost, the performance by the Borrower of its obligations under this Loan Agreement and the accomplishment of the purposes of the Loan.	To be complied	To be complied.

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
22		Loan 8346	Schedule 4	5	4. Records, Financial Statements and Audits. The Borrower shall maintain, or cause to be maintained, records and financial statements adequate to identify the goods, services and other items of expenditure financed under the Project; to record the progress of the Project (including the cost thereof and); to reflect, in accordance with consistently maintained sound financial reporting principles, the operations and financial condition of the Project; and to have the financial statements audited. Related requirements shall be specified in the Loan Agreement.	Being Complied	Third Financial Audit for the year 2022 was conducted in March 2023. Report will be available in June 2023.
23		Loan 8346	Schedule 4	5	10. Maintenance. The Borrower shall ensure that any facilities relevant to the Project are operated, maintained and repaired in accordance with sound operational and maintenance practices. The Borrower shall promptly as need, make or cause to be made all necessary repairs and renewals thereof.	To be Complied	To be complied.
24		Grant 0579	Schedule 2	2	Without limiting the generality of Section 5.01(a) of the Grant Regulations, the Recipient shall refund, or procure and refund, any unused Grant proceeds to ADB, and shall impose similar refund requirements on its counterparties involved in the Project.	To be complied	Agreed.
25		Grant 0579	Schedule 2	4	In addition to the audit requirement under Section 4.02 of this Grant Agreement, the Recipient acknowledges and agrees that ADB has the right to conduct financial audits of the Project, by an external auditor selected by ADB, if GCF has a concern as to the manner in which the Grant proceeds have been used; and shall fully cooperate with such audit. The Recipient shall bear the reasonable cost of such audit, if the audit finds that the Grant proceeds have not been used according to this Grant Agreement.	Being Complied	Agreed.
26	Sector	Grant 0579	Sched 2	6	The Recipient shall ensure that the activities related to the Project are implemented in compliance with the laws of the Recipient and other laws applicable to it, including but not limited to intellectual property law, if and to the extent any such laws maybe applicable to it.	Being complied	
27	Financial	Grant 0579	Schedule 4	1	In the carrying out of the Project and operation of the Project facilities, the Recipient shall perform, or cause to be performed, all obligations set forth in Schedule 2 to this Grant Agreement and Schedule 5 to the Ordinary Operations [Concessional] Loan Agreement.	Being Complied	

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
28		Grant 0579	Schedule 4	2	(b) ADB shall disclose the annual audited financial statements for the Project and the opinion of the auditors on the financial statements within 14 days of the date of ADB's confirmation of their acceptability by posting them on ADB's website.	To be complied with	The Financial Audit for the year 2022 was conducted in March 2023. Report will be submitted to ADB in June 2023.
29		Grant 0579	Schedule 4	2	(a) The Recipient shall cause the Project Executing Agency to (i) maintain separate accounts and records for the Project; (ii) prepare annual financial statements for the Project in accordance with financial reporting standards acceptable to ADB; (iii) have such financial statements audited annually by independent auditors whose qualifications, experience and terms of reference are acceptable to ADB, in accordance with auditing standards acceptable to ADB; (iv) as part of each such audit, have the auditors prepare a report, which includes the auditors' opinion(s) on the financial statements and the use of the Grant proceeds, and a management letter (which sets out the deficiencies in the internal control of the Project that were identified in the course of the audit, if any); and (v) furnish to ADB, no later than 6 months after the end of each related fiscal year, copies of such audited financial statements, audit report and management letter, all in the English language, and such other information concerning	Being Complied	Being complied. Separate accounts established. 4rd annual audited project financial statement reports for FY2022 will be submitted in June 2023.
30		Grant 0579	Schedule 4	2	(c) The Recipient shall enable ADB, upon ADB's request, to discuss the financial statements for the Project and the Recipient's financial affairs where they relate to the Project with the auditors appointed pursuant to subsection (a)(iii) herein above, and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB. This is provided that such discussions shall be conducted only in the presence of an authorized officer of the Recipient, unless the Recipient shall otherwise agree.	Being Complied	Fourth Financial Audit for the year 2022 was conducted in March'2023. Report will be submitted to ADB in June 2023.
31		Grant 0579	Schedule 4	4	The Recipient shall enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.	Being Complied	Inception mission verified office equipment and goods delivered to EA/IAs

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
32		Grant 0579	Schedule 4	4	The Recipient acknowledges and agrees that this Grant Agreement is entered into by ADB, not in its individual capacity, but as trustee of GCF. Accordingly, the Recipient agrees that (a) it may only withdraw Grant proceeds to the extent that ADB has received proceeds for the Grant from GCF, and (b) that ADB does not assume any obligations or responsibilities of GCF in respect of the Project or the Grant other than those set out in this Grant Agreement.	Being Complied	Confirmed.
Safeguards							
33	Safeguards	Loan A661	Schedule 5	2	Environment. The Borrower shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, each Subproject and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the respective IEE, EMP, and any corrective or preventative actions set forth in a Safeguard Monitoring Report. The Borrower shall ensure that no Subproject categorized as Category A under the SPS is financed under the Project.	being complied	
34		Loan 3661	Schedule 5	3	Land Acquisition and Involuntary Resettlement. The Borrower shall ensure that all land and all rights-of- way required for the Project, each Subproject and all Project facilities are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) Involuntary Resettlement Safeguards; (c) the RF; and (d) all measures and requirements set forth in the respective RP, and any corrective or preventative actions set forth in a Safeguard Monitoring Report. The Borrower shall ensure that no Subproject categorized as Category A under the SPS is financed under the Project.	being complied	In 2020, the ADB recruited a Fourth Party to verify the land donations for the Category C irrigation scheme Trapeang Run. For AWP 2023 are the arrangements still not sure how this Fourth-party verification will be arranged. There are no category A subprojects included in the project.

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
35	Safeguards	Loan 3661	Schedule 5	4	Without limiting the application of the Involuntary Resettlement Safeguards, the RF or the RP, the Borrower shall ensure that no physical or economic displacement takes place in connection with the Subprojects until: (a) compensation and other entitlements have been provided to affected people in accordance with the RP; and (b) a comprehensive income and livelihood restoration program has been established in accordance with the RP.	Being complied	First package under advance action was put on hold until the project implementation consulting firm revisited the site and validate that there is minimal acquisition of land and no displacement of any structures.
36	Safeguards	Loan 3661	Schedule 5	5	Indigenous Peoples. The Borrower shall ensure that the preparation, design, construction, implementation and operation of the Project, each Subproject and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to indigenous people; (b) the Indigenous Peoples Safeguards; (c) the EMDF; and (d) all measures and requirements set forth in the respective IPP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report. The Borrower shall ensure that no Subproject categorized as Category A under the SPS is financed Project.	Being complied with	There are no category A subprojects included in the project.
37	Safeguards	Loan 3661	Schedule 5	6	Human and Financial Resources to Implement Safeguards Requirements. The Borrower shall make available necessary budgetary and human resources to fully implement any EMP, RP and IPP.	Being complied	
38	Safeguards	Loan 3661	Schedule 5	7	Safeguards - Related Provisions in Bidding Documents and Works Contracts. The Borrower shall ensure that all bidding documents and contract for works contain provisions that require contractors to: comply with the measures and requirements relevant to the contractor set forth in the IEEs, the EMPs, the RPs and the IPPs (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguard Monitoring Report;	Being Complied	First invitation for bids for civil works have been issued in April 2020.

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
					make available a budget for all such environmental and social measures; provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs and the IPPs; adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.		
39	Safeguards	Loan 3661	Schedule 5	8	Safeguard Monitoring and Reporting. The Borrower shall do the following: submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs, and the IPPs, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the even and proposed corrective action plan in accordance with the SPS; and report any actual or potential breach of compliance with the measures and requirements set forth in the EMPs, the RPs or the IPPs promptly after becoming aware of the breach.	To be complied with	Semi-annual safeguards monitoring reports are submitted on-time
40	Safeguards	Loan 3661	Schedule 5	9	Prohibited List of Investments. The Borrower shall ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Being Complied	
41	Safeguards	Loan 3661	Schedule 5	10	Labor Standards, Health and Safety. The Borrower shall ensure that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project implementation. The Borrower shall include specific provisions	Being Complied	

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
					in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among others, (a) comply with all applicable labor laws and regulations of the Borrower; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; and (f) disseminate information on the risks of sexually Z transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project areas, particularly women.		
42	Safeguards	Loan 3661	Schedule 5	11	The Borrower shall strictly monitor compliance with the requirements set forth in this paragraph and provide ADB with regular reports.	Being Complied	Being complied.
		Loan 3661	5	12	Gender and Development. The Borrower shall ensure that the (a) GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provisions for contractors to comply with the measure set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; and (d) progress on implementation of the GAP, including progress toward achieving key gender outcome and output targets are regularly monitored and reported to ADB.	Being Complied with	In Sept 2021 was the GAP changed/modified by the ADB
Governance and anti-corruption							
43		Loan 3661	Schedule 5	16	Governance and Anticorruption. The Borrower shall (a) comply with ADB's anticorruption Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.	Being Complied	
44		Loan 3661	Schedule 5	17	The Borrower shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing agency and all contractors, suppliers, consultants, and other service providers as they relate to the Project.	Being Complied	

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
45		Loan 3661	Schedule 5	18	The Borrower shall disclose, through its website, accessible by general public, information about various matters concerning the Project, including general Project information, procurement, Project progress, and contact details in the English and Cambodian languages, as applicable. The website shall also provide a link to ADB's integrity office for reporting to ADB any grievances or allegations of corrupt practices arising out of the Project and Project activities. With regard to procurement, the website shall include: (a) the list of participating bidders; (b) the name of the winning bidder; (c) the amount of the contracts awarded; (d) basic details on bidding procedures adopted; and (e) the lists of goods, works and services procured	Being Complied	
46		Grant 0579	Schedule 2	1	The Recipient acknowledges and agrees that the Recipient has no right of action, whether in contract, nor or under statute to the extent permitted by law, against GCF in respect of the ADB Green Climate Fund, the Project or any loss or damage arising out of ADB's acts or omissions, or the acts of omissions of its officers, employees, agents or consultants under, or in connection with, this Grant Agreement.	Being Complied	
47		Grant 0579	Schedule 2	3	The Recipient shall fully cooperate with ADB regarding any reviews, ad hoc checks, verifications or evaluations by GCF	Being Complied with.	
48		Grant 0579	Schedule 2	5	The Recipient shall ensure that all necessary and applicable licenses, approvals and consents, including those relating to intellectual property, to implement and carry out the Project and operate the Project facilities are valid for the duration of the Project.	To be complied	
49		Grant 0579	Schedule 2	7	The Recipient shall endeavor to acknowledge the visual identity of GCF in funding the Project (e.g., through use of the GCF logo, in accordance with GCF's branding guidelines, and appropriate references in reports, publications, information given to beneficiaries and news media, related publicity materials and any other forms of public information and the displaying of the GCF logo on the site of any infrastructure works). Any branding activities in support of GCF shall comply with GCF's branding guidelines and be and reviewed by the GCF Secretariat.	Being Complied with	
	Others						

No	Covenant	Loan Agreement Reference				Compliance Status	Remarks/Issues
		Product	Schedule	Para No.	Description		
50		Loan 3661	Schedule 5	1	Implementation arrangements. The Borrower shall ensure that the Project is implemented in accordance with the detailed arrangements set forth in the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower and ADB. In the event of any discrepancy between the PAM and this Loan Agreement, the provisions of this Loan Agreement shall prevail	To be complied with	

Appendix 6: Performance Against DMF

Results Chain	Performance Indicators	Items	Unit	Baselines (2017)	Targets (2026)	Progress as of Q2 2023	Progress as of Q3 2023	Remarks (for the current quarter)
Outcome:	By 2026							
Productive and resource efficient agribusiness value chains developed in project areas	a. At least 15% increase in yields (2017 baseline: rice 2.7 tons, maize 4 tons, cassava 20 tons and mango 15 tons/ha).	Rice yield	tons/ha	2.70	3.11	0	0	not yet due
		Maize yield	tons/ha	4.00	4.60	0	0	not yet due
		Cassava yield	tons/ha	20.00	23.00	0	0	not yet due
		Mango yield	tons/ha	15.00	17.25	0	0	not yet due
	b. GHG emissions reduced (CO2)	CO2	tons	-	240,000	0	0	not yet due
	c. At least 50 agribusinesses become more resource efficient in terms of water savings (5-10% efficiencies); energy savings (20%); and reduction in post-harvest losses (10%) (2017 baseline: 0).	water savings (5-10% efficiencies)		-		0	0	not yet due
		energy savings (20%)		-		0	0	not yet due
reduction in post-harvest losses (10%)			-		0	0	not yet due	
Outputs:	By 2024							
1. Critical agribusiness value chain infrastructure improved and made climate resilient	1a. 27 irrigation and water management systems targeting 15,000 ha and 25,000 households (with at least 50,000 women) rehabilitated and made climate resilient (2017 baseline: 0).	Schemes	#	0	27	9	9	o Completed construction 9 schemes=3,250Ha
		Command areas	ha	0	15,000	2,963	3,250	Based on DED
		Household	#	0	25,000	3195	3195	
		Women	#	0	50,000	8795	8795	
	1b. 800 on-farm rainwater harvesting ponds	Ponds	#	0	800	0	0	278 completed DED and already awarded contract

commissioned (2017 baseline: 0).							
1c. At least 250 km of farm road networks upgraded to climate standards to improve connectivity of farms to cooperatives and markets (2017 baseline: 0).	Farm road networks	Km	0	250	43.31	63.74	272 km completed DED, 63.74 km completed construction
1d. 80 agricultural cooperatives integrated adaptation measures in post-harvest infrastructure investments (2017 baseline: 5).	agricultural cooperatives	#	5	80	55	55	o 55 ACs Completed construction 100% o 25 ACs construction starts on 9 May 2023 and complete the construction is 68%. o Total 80 Acs
1e. Crop product quality and safety testing infrastructure in National Agricultural Laboratory upgraded to test 1500 samples (2017 baseline: 700) and generate service income more than \$75,000 (2017 baseline: \$0).	Test sample	#	700	1500	0	0	
	Generate service income	\$	0	\$ 75,000	0	0	Lab renovation: construction completed, Net-house: construction is completed 100%
1f. 12,000 additional biodigesters and 6,000 compost huts made operational benefitting at least 80,000 persons, including at least 50% women	biodigesters	#	-	12,000	56	66	4,156 identified; 56 completed construction; 69 biodigester demonstration construction

	beneficiaries, due to improved household air quality (2017 baseline: 11,468 persons, including 5,721 women).							completed and functioning with (332 beneficiaries (172 F).	
		compost huts	#	-	6,000	22	66	3,437 identified; 22 completed construction; 69 compost-hut construction completed with (345 beneficiaries (186F).	
		operational benefitting	Person	11,468	80,000	27,376	29,305	for both bio-digesters and compost-huts	
		Women	Women	5,721	40,000	13,360	13,855		
2.Climate smart agriculture and agribusiness promoted	2a. Three additional climate resilient varieties of rice and maize released (2017 baseline: 0)	Rice	varieties	0	2	0	0		
		maize	varieties	0	1	0	0		
	2b. 40,000 farmers (of whom 16,000 are women) trained in CSA and agribusiness development skills, of which 50% are SRP compliant with direct links to millers and exporters (2017 baseline for SRP compliance: 0).	farmers trained in CSA and agribusiness development skills	farmers			40,000	12,699	13,151	
		farmers trained in CSA and agribusiness development skills	women			16,000	6,028	6,258	
		50% are SRP compliant with direct links to millers and exporters	farmers						
					-	20,000	6,028	6,258	
2c. 27 FWUCs/FWUGs made operational and 500 FWUC/FWUG members (of which 30% women) developed capacity to operate and	FWUCs/FWUGs made operational	FWUCs/FWUGs	0		27	12	17	12 completed, 5 ongoing (FWUCs already established), 10 not yet started	

	maintain their irrigation schemes (2017 baseline: 0).	FWUC/FWUG members (representatives) developed capacity to operate and maintain their irrigation schemes	persons	0	500			369	369	369 FWUCs representatives of out 500 FWUCs have been trained 106 courses
		30% women FWUC/FWUG members (representatives) developed capacity to operate and maintain their irrigation schemes	Women	0	150			108	108	
	2d. 4 provincial agricultural development centers and 4 engineering workshops made fully operational to provide agribusiness services and strengthen farmer value chain linkages (2017 baseline: 0).	provincial agricultural development centers	#	0	4			4	4	4 completed construction
		engineering workshops	#	0	4			4	4	4 completed construction
3. Enabling environment for climate friendly agribusiness enhanced	3a. Climate-smart and gender-responsive agribusiness policy for target commodities, including a PPP framework focusing on agribusinesses formulated (2017 baseline: 0)	Draft of Climate Smart and Gender Responsive Agribusiness policy	Policy	0	1			0.5	0.5	
		Draft CSA policy	Policy	0	1			0.5	0.5	
		Draft guidance manual for climate neutrality and adaptation for agribusiness operation	Prakas	0	1			0.5	0.5	
		Draft IDP strategy for climate friendly agribusiness		0	1			0.65	0.65	
		Draft PPP framework formulated	Framework	0	1			0.3	0.3	
	3b. CAMGAP for tropical fruit and organic fertilizers endorsed as national standard	Guidance manual for climate neutrality and adaptation standards for agribusiness operation	Strategy	0	1			1	1	

for tropical fruit and organic fertilizers (2017 baseline: 0).	Climate-friendly become more widely utilized with eight of largest Cambodia millers/exporters being part of alliance	Rice miller	0	8	1	1	
	Standards on CamGAP tropical fruit formation	Standard	0	1	0.5	0.5	
	Development of standards for organic fertilizer	Standard	0	1	1	1	
	Development of IDP strategies for climate friendly agribusiness	Strategy	0	1	0.75	0.75	
	National standards on biodigester development	Standard	0	1			
	Socialize GAP Standards for tropical fruit	No	0	2	0.2	0.2	
3c. 50 staff, including 30% women, from financial institutions trained in CSA and green finance (2017 baseline: 0).	Implementation of training on green finance in CSA	Staff	0	50	16	16	Identified: 50 Bank/MFI
		Women	0	15	0	0	
	Implementation training in green finance	Staff	0	50	0	0	
		Women	0	15	0	0	
3d. 30 agribusinesses, including 30% women-led and/or owned,*** trained on green finance and CSA (2017 baseline: 0).	Implementation of training on green finance in CSA	Staff	0	30	0	0	- Identified: 30 ACs/ Agribusiness - Delivery training: 17 completed (Total participants: 301, Female: 147)
		Women	0	9	0	0	
	Implementation training in green finance	Staff	0	30	0	0	
		Women	0	9	0	0	
3e. 20,000 households, including 20,000 women, provided with information on	Implementation of training on green finance in CSA	HHS	0	20,000	0	0	Inception phase
		Women	0	20,000	0	0	Inception phase

climate risk sharing instruments (2017 baseline: 0).							
3f. ICT platform for climate friendly agribusiness established in Kampong Cham province (2017 baseline: 0).	Development of ICT	No	0	1	0	0	Inception phase
	Purchase of equipment	No	0	1	0	0	Inception phase
	Installation of the center	No	0	1	0	0	Inception phase

Appendix 7: Progress of Gender Action Plan (GAP)

Gender Action Plan (GAP) Monitoring Table as of 2nd Quarterly 2023

Date of Update: 30 Sept, 2023

Project Title	: Climate-Friendly Agribusiness Value Chains Sector Project (CFAVC)
Country	: Cambodia
Project No	: 48409-002
Type of Project (Loan/Grant/TA)	: Loan 3661/8346 and Grant 0579-CAM
Approval and Timeline	: 29 June 2018 to 30 September 2026
Gender Category	: Effective Gender Mainstreaming (EGM)
Project Director	: Dr. Sam Chhom Sangha – MAFF, H.E. Chan Sinath – MoWRAM, H.E. Chan Darong - MRD
Project Officer	: Dr. Srinivasan Ancha, Principle Climate Change Specialist, ADB HQ
Project Impact	: Agricultural Competitiveness Improved
Project Outcome	: Productive and resource-efficient agribusiness value chain developed in the project areas.

The Gender Action Plan Monitoring for 14 Targets/indicators and 7 Activities; To promote gender equality and women's empowerment through enhancing women's capacity in CSA production and processing, management and business, agricultural machinery use and maintenance, accessing and using financing and crop insurance, and through strengthening linkages between women-led enterprises and the agribusiness industry.

Progress of GAP implementation update followed by the 2nd Quarterly 2023 and added as of Sept. 2023.

6 of 7 Actions were on track and 1 Action (#4) is off track.

14 targets were on track.

Gender Action Plan (GAP Activities, Indicators and Targets, Timeframe and Responsibility)	Progress to date (22 Sept, 2023) (This should include information on period of actual implementation, sex-disaggregated quantitative updates (e.g., number of participating women, women beneficiaries of services, etc.), and qualitative information. However, some would be on-going - so explain what has happened so far towards meeting the target.	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for delay, etc., and provide recommendations on ways to address issues and challenges)
Output 1: Critical agribusiness value chain infrastructure improved and made climate resilient		
Women's time poverty and drudgery reduced through the provision of improved time-saving and gender-responsive infrastructure. OP 2.4		

<p>27 irrigation and water management systems targeting 15,000 ha and 25,000 households (with at least 50,000 women) rehabilitated (2017 baseline: 0) (DMF 1a OP 2.5.2)</p> <p>Target 1: On Track</p> <p>Responsibilities: PMU MAFF (lead) and PPIUs; MOWRAM; MRD; WFN; Design engineers</p> <p>Time frame: Q1 Y2 - Q4 Y4</p>	<p>As of September 2023:</p> <p>Batch I - 9 sub-projects constructed completed (100%). Batch II-III 10+18 sub-projects survey and Topo. – Reserve 2 sub-projects. These irrigation systems expected to irrigate and benefits to:</p> <p>Land 14,769 hectares (98.46%). Households of 18,913HHs (75.65%). Women of 46,528 persons of 93.06%. Total population of 84,291 people. (MOWRAM data as of 16 September 2023)</p>	<p>Issue: Data was not properly updated and presented due to no NGS in place and just replaced to recover the data collection from PDoWRAM.</p> <p>Action: NGS works closely with all MoWRAM PMU to regular visit and collect the data on recent actual household and women who benefit from the irrigation systems.</p>
<p>12,000 additional biodigesters and 6,000 compost huts made operational, benefiting at least 80,000 persons, including at least 50% women, due to better air quality. (2017 baseline beneficiaries: 11,468 persons including 5,721 women). (DMF 1f. OP 2.4.1)</p> <p>Target 2: On Track</p> <p>Responsibilities: PMU MAFF (lead) &PPIUs; GDAH P</p> <p>Time frame: Q1 Y2– Q4 Y4</p>	<p>As of September 2023:</p> <p>Biodigesters: 56 biodigesters have been constructed and being operated and benefited to 280 people (145 women). 13 demonstration biodigesters will be constructed and operated to provide benefits to 52 people (17 women). 976 households intended to purchase and construct biodigesters. 283 households are interested in purchasing and constructing the biodigesters.</p> <p>Compost-hut: 22 compost-huts have been constructed and being operated and benefited to 110 people (60 women). Additional 47 demonstration compost-huts are planned to construct and operated.</p>	<p>Issue: Slow progress of biodigesters and compost-huts construction compared to the target.</p> <p>Action: PMU MAFF intensifies the promotion campaign and procurement to engage more people and especially the women to purchase and operate the biodigesters and compost-huts.</p>
<p>Women comprise at least 40% of participants in consultation and planning activities, including participants from the Women Farmers Network, on the gender-responsiveness and climate resiliency of critical project infrastructure (aggregate basis). (2017 baseline: 30% female participation)</p> <p>Target 3: On Track</p> <p>Responsibilities: PMU MAFF (lead) and PPIUs; MOWRAM; MRD; WFN; Design engineers</p> <p>Time frame: Q1 Y2 - Q4 Y4</p>	<p>As of September 2023:</p> <p>PMUs and PPIUs conducted 148 times consultative meetings on different subprojects with participation from 1,415 people (538 women) Contractors conducted 56 times consultative meetings at sites with participation from 4,933 people (1454 women). Totally, there were 204 times consultative meetings with community people on different subprojects with participation from 6,348 people (1992 women or 31%).</p>	<p>Issue: Number of consulted women for different subprojects are less than 40%.</p> <p>Action: NGS works closely with PMUs (MAFF, MRD and MoWRAM) to advise the increase of women’s participation in remaining community consultations on subprojects.</p>
<p>At least 25% of workdays created by project activities will be awarded to women.</p> <p>Target 4: On Track</p>	<p>As of September 2023:</p> <p>35 AC warehouse construction (50T =10, 100T =20 and 200T = 5) were completed provided the job to 953 people (216 women).</p>	<p>Issue: The job created have not been converted to workdays due to lack of clear template for the contractors.</p>

<p>Responsibilities: PMU MAFF (lead) and PPIUs; MOWRAM; MRD; contractors of civil works Time frame: Q1 Y2 - Q4 Y6</p>	<p>71.10 km of MRD rural road (DBST and concrete) – 8 subprojects, are ongoing and provided the job to 2385 people (550 women). 9 irrigation system construction of MoWRAM are ongoing and provided the job to 2305 people (747 women). The contractors have provided training to their staffs and workers on safety, security, environment and Covid-19.</p>	<p>Action: NGS works closely with PMUs (MAFF, MRD and MoWRAM) to provide the template for collection of employment workdays from all subprojects.</p>
<p>Skills training sessions provided to women on infrastructure related construction and rehabilitation, and operation and maintenance. Action 1: On Track Responsibilities: PMU MAFF (lead) and PPIUs; GDAHP; MOWRAM; MRD; contractors of civil works Time frame: Q4 Y1 – Q4 Y6</p>	<p>As of September 2023: Training on construction and rehabilitation skills: Training topic 1 (F): Training topic 2 (F): Training topic 3 (F): Training on O&M skills: Training topic 1 (F): Training topic 2 (F): Training topic 3 (F):</p>	<p>Issue: Progress presented is not relevant while the PMU and field visit at the project sites emerged various trainings conducted e.g. O&M for irrigation system, AC management. Action: NGS works closely with PMUs (MAFF, MRD and MoWRAM) to collect all trainings provided to women on infrastructure related construction and rehabilitation, and operation and maintenance.</p>
<p>Involve at least 30% of women as active agents¹ in the promotion campaigns on the use of renewable energy solutions. Target 5: On Track Responsibilities: PMU MAFF (lead) &PPIUs; GDAHP Time frame: Q4 Y1 – Q4 Y4</p>	<p>As of September 2023: 03 dissemination events conducted on the importance of using biodigesters and compost-huts with farmer families with participation from 72 participants (42 women of 58%). The national workshops on biodigester and composting dissemination information and exchange visit and on-site learning and field practices to extension workers, key farmers, potential farmers on biodigesters and compost-huts with total 920 participants (371 women or 40 %). Organized the Integrated farming demonstrations with the farmers from Siem Reap, Pursat, Kampong Thom and Kampot provinces to learn the experiences of adaptation techniques for applying the bio-slurry on vegetable production in Odom Soriya Agriculture Cooperative that led the exchange visit by Action Aid Cambodia, with total 60 participants (41 women or 68%).</p>	<p>Issue: Dissemination and promotion events conducted, however, there is no clue on how many women are becoming an active agent in continuously promote the biodigesters and compost-huts use. Action: NGS works closely with PMUs (MAFF, MRD and MoWRAM) produce the list of active agents from the participants who joined the promotional campaigns.</p>
<p>As part of the promotion campaigns about biodigesters and other renewable energy solutions, raise awareness</p>	<p>As of September 2023:</p>	<p>Issue: Lack of promotional materials to be used in the</p>

¹ Model farmer from community or private household or private enterprise.

<p>among women and men in the communities about the benefits for value chain improvement/ climate change but also for greater gender equality (time saving, drudgery reduction, improved health).</p> <p>Action 2: On Track</p> <p>Responsibilities: PMU MAFF (lead) &PPIUs; GDAH Time frame: Q4 Y1- Q4 Y4</p>	<p>Gender mainstreaming and integration of gender equality in the promotional campaign events on the importance of biodigesters and compost-huts use for women and the family including time saving, drudgery reduction, good air quality and improved health.</p>	<p>campaign illustrating the benefits for women and family by using the biodigesters and compost-huts.</p> <p>Action: NGS works closely with PMUs (MAFF, MRD and MoWRAM) produce promotional materials to be used in the campaign illustrating the benefits for women and family by using the biodigesters and compost-huts.</p>
<p>Promotional materials developed and disseminated on biodigesters and other renewable energy solutions including awareness raising on how this addresses the disproportionate burden of household and care work carried out by women farmers, especially female headed households.</p> <p>Action 3: On Track</p> <p>Responsibilities: PMU MAFF (lead) & PPIUs; GDAH Time frame: Q1 Y2- Q4 Y4</p>	<p>As of September 2023, the promotional materials for campaign have been drafted but not yet finalized and published.</p>	<p>Issue: waiting for budget to publish.</p>
<p>Output 2: Climate smart agriculture and agribusiness promoted</p>		
<p>2.1 Gender equality in human development enhanced. OP 2.2</p>		
<p>40,000 farmers, of whom 16,000 are women, trained in CSA and agribusiness development skills, of which 50% are SRP compliant with direct links to millers and exporters (2017 baseline for SRP compliance) (DMF 2b. OP 2.2.1)</p> <p>Target 6: On Track</p> <p>Responsibilities: PMU MAFF (lead) and PPIUs, MOWRAM, WFN Time frame: Q1 Y2- Q4 Y6</p>	<p>As of September 2023:</p> <p>CS2/PMU/PPIU Conducted trainings on CSA, SRP, and CamGAP to farmers who produce rice, cassava, maize, mango with participation from 5,873 farmers (2826 female farmers or 48%).</p> <p>GFP/PPIU follow up on SRP, CSA, planting of cassava, maize and rice yield seed production with farmers with participation from 2,435 farmers (1344 female farmers or 55%).</p>	<p>Issue: Data is not so clear demonstrating the achievement of training on CSA and agribusiness development skills as well as SRP.</p> <p>Action: NGS and National M&E Specialist work closely with PMUs (MAFF, MRD and MoWRAM) to improve the PPMS and integrate sex-disaggregated data in the system. The PPMS should clearly elaborate:</p> <p>Training on topic 1 (F) Training on topic 2 (F) Training on topic 3 (F)</p>
<p>2.1.2. 27 FWUCs/FWUGs made operational AND 500 FWUC/FWUG members, of which 30% are women,</p>	<p>As of September 2023:</p> <p>Total FWUC/FWUG operation:</p>	<p>Issue: Data is not so clear demonstrating the achievement of operation and training to</p>

<p>develop capacity to operate and maintain irrigation schemes (2017: 0) (DMF 2c. OP 2.2.1) Target 7: On Track Responsibilities: PMU MAFF (lead) & PPIUs Time frame: Q1 Y2- Q4 Y2</p>	<p>Total FWUC/FWUG members trained: Topic 1 Topic 2 Topic 3</p>	<p>FWUC/FWUG members on O&M. Also, the number of FWUG operation is not clearly reported.</p> <p>Action: NGS and National M&E Specialist work closely with PMUs (MoWRAM) to improve the PPMS and integrate sex-disaggregated data in the system. The PPMS should clearly elaborate:</p> <p>Training on topic 1 (F) Training on topic 2 (F) Training on topic 3 (F)</p>
<p>2.1.3. 30% of women farmers, including the WFN members, are involved in the selection and multiplication of climate resilient crop varieties. Target 8: On Track Responsibilities: PMU MAFF (lead) & PPIUs; CARDI; WFN Time frame: Q4 Y1- Q4 Y6</p>	<p>As of September 2023:</p> <p>Conducted on-farm rice seed production demonstration to the key farmers with participation from 90 farmers (47 women). Conducted cassava demonstration and follow up with cassava seed varieties (average yield = 16ton/ha and average yield = 29ton/ha) to the key farmers with participation from 30 farmers (17 women). Conducted maize seed production demonstration and follow up with key farmers planting variety including CHM01 source from Banteay Dek Station, CM1 sources from CM1 and 9 seed sources from CARDI with participation from 45 farmers (17 women). Conducted maize demonstration with participation from 15 farmers (11 women). Farmer Field School on the production of 9 varieties on 4.5 ha land with 19 households (7 female headed households) with participation from 45 farmers (32 women). Awareness raising to communities to promote quality, resilient and climate change resilient crops varieties with participation from 43 farmers (12 women). Awareness raising to communities to promote quality of selection and multiplication of climate resilient crop varieties and conducted cassava and maize seed demonstration with participation from 741 farmers (445 women). Conducted training on BMP-Rice=20 times, BMP-Cassava=10 times and BMP-Maize=10 times. Rice seed production technique trainings and follow up on cassava & maize seed demonstration in 38 villages, 31 communes and 15 districts of the 4 target provinces with participation from 1,540 key farmers (734 women).</p>	<p>No issue</p>

<p>2.1.4. Women represent at least 40% of participants in all capacity-building activities (trainings, demonstrations, study tours) supported by the project (aggregate basis). Target 9: On Track Responsibilities: PMU MAFF (lead) and PPIUs, MOWRAM, WFN Time frame: Q1 Y2 - Q4 Y6</p>	<p>As of September 2023:</p> <p>Training:</p> <p>Training to farmers' groups on best management practices (BMP) of the rice, cassava, and maize production and rice seed production techniques (RSPT&FU) with participation from 1,300 farmers (619 women). Workshop/meeting:</p> <p>General Assembly workshop to review the achievements of the ACs in 2022 and develop the workplan for 2023 with participation from 106 AC members (66 women). Training to model farmers & exchange visits, farming demonstrations, quarterly technical meeting on quality control and biogas appliances, national dissemination/reflection workshops on biodigester and compost-hut and meeting with technical working group on biodigester and bio-slurry and training on landscape restoration (farm mechanization) to the farmers on post-harvest technology with participation from 425 farmers (235 women). Demonstration:</p> <p>Demonstrations and sharing experiences with community members with participation from 452 farmers (256 women). On-field rice seed production demonstration with participation from 70 farmers (38 women).</p>	<p>Issue: Data presented in the achievement is mixed up and not details oriented.</p> <p>Action: NGS and National M&E Specialist work closely with PMUs to classify into 3 events including training, workshop or meeting and demonstration. Incorporate into the PPMS system.</p>
<p>2.1.5. Women represent 40% of increased labor pool of individuals who can operate agricultural machinery. (2017 baseline: 0) Target 10: On Track Responsibilities: PMU MAFF (lead) and PPIUs, MOWRAM, WFN Time frame: Q4 Y1 – Q4 Y5</p>	<p>As of September 2023:</p> <p>Farmers use and control tractor and power tiller: (F) Farmers use and control transplanting machine: (F) Farmers use and control harvester: (F)</p>	<p>Issue: Data presented in the achievement is not clearly demonstrating to the achievement of the target.</p> <p>Action: NGS and National M&E Specialist work closely with PMUs to create a list of farmers (including women) who operates different agricultural machinery (e.g. tractor, power tiller, seeding, harvester).</p>

<p>2.1.6. Strengthen linkages between farms/cooperatives/enterprises and agribusiness industry, especially women-led and/or owned farms/ enterprises and cooperatives with majority female members. Action 4: Off Track Responsibilities: PMU MAFF (lead) and PPIUs; WFN Time frame: Q1 Y2- Q4 Y2</p>	<p>As of September 2023: Agribusiness forums: (F) Agribusiness workshop: (F) Agribusiness network: (F)</p>	<p>Issue: Data presented in the achievement on the agribusiness forums are in Kep and Svay Rieng where are not the target provinces of the project. Action: NGS and National M&E Specialist work closely with PMUs to organize series of agribusiness forums by engaging all actors including inputs suppliers, MFIs and banks, government, AC, traders and farmers in target provinces of the project to create opportunities for both female and male led farms and enterprises in agribusiness.</p>
<p>2.1.7. Female government staff make up at least 25% at the national level, and 20% at local level, of participants in capacity building activities on CFAVC (aggregate basis). Target 11: On Track Responsibilities: PMU MAFF (lead) and PPIUs Time frame: Q1 Y2- Q4 Y6</p>	<p>As of September 2023: Government Officials farmer field day conducted to CARDI's experiment site: 70 officials (38 women) Orientation workshop on green financing and procedure to access the green loan to PPIU in the 4 target provinces: 45 officials (35 women).</p>	<p>Issue: Data presented in the achievement on government officials participated in capacity building activities on CFAVC does not separate between national and local officials. Action: NGS and National M&E Specialist work closely with PMUs to revisit the PPMS database and revise the achievement figure.</p>
<p>Output 3: Enabling environment for climate friendly agribusiness enhanced</p>		
<p>3.1. Gender equality in decision-making and leadership enhanced. OP 2.3</p>		
<p>3.1.1. Climate-smart and gender-responsive agribusiness policy for target commodities, including a PPP framework focusing on agribusinesses formulated and approved. (2017 baseline: 0) (DMF 3a. OP 2.3.1) Action 5: On Track Responsibilities: PMU MAFF Time frame: Q1 Y2 – Q3 Y1</p>	<p>As of September 2023: Project worked with Department of Planning and Statistic (DoPS) and the Department of Agro-Industry (DoAI) to review existing relevant policy documents; and reviewed the proposed TOR for a policy study. Liaising with relevant departments of MAFF and IAs to develop the Climate Smart Gender Responsive Agribusiness Guideline development for 2023. Field visits following-up to identify 25 potential ACs in the four target provinces for 2023 with participation from 1,881 AC committee and members (742 women).</p>	<p>Issue: No activity implemented or follow up. Action: PMU follows the NOL with ADB for additional inputs for PPP expert.</p>

	Conducted consultation and planning meeting with WFNs on Gender Response and Climate Resilience of key project Infrastructure with participation from 18 people (6 women).	
3.1.2. Actively involve the MAFF GCWG, the sub-national Gender Focal Points (Province, District, Commune), and the WFN and the Agricultural Cooperatives as key partners in project implementation and monitoring, especially for the GAP activities. Action 6: On Track Responsibilities: PMU MAFF (lead) and PPIUs; MAFF CCPSU: sub-national Gender focal points; WFN Time frame: Q2 Y2 - Q4 Y7	As of September 2023: MAFF GCWG jointly conducted 3 times follow up on the use of biogas on integrated agriculture for WFN with participation from 71 participants (41 women). MAFF GCWG jointly collected information, data and selected farmers for biogas demonstration with participation from 15 participants (12 women). MAFF GCWG jointly conducted site visit in the target villages to follow up on the Biodigesters construction process and project labeling with participation from 15 participants (4 women). MAFF GCWG jointly visited and encouraged communities on breeding the qualified, resilient, and climate change varieties to community members with participation from 43 participants (12 women). MAFF GCWG jointly conducted gender mainstreaming workshop in ACs/WFNs with participation from 267 participants (153 women).	No issue but further continuously collaborate in other project activities such as visit to subprojects, agribusiness forums, AC capacity building etc.
3.2 Women's economic empowerment increased OP 2.1		
3.2.1. 50 staff, including 30% women, from financial institutions trained in CSA and green finance. (2017 baseline: 0) (DMF 3c. OP 2.1.2) Target: 12 - On track Responsibilities: PMU MAFF (lead) and PPIUs Time frame: Q1 Y2 – Q4 Y6	As of September 2023: Working with Association Bank of Cambodia (ABC) and Association of Micro Finance Institute (MFI) to identify and select 50 staff, including 30% women from 30 banks and 20 FMIs for training based on the training need assessment (TNA) on the green financing. Based on the result of TNA, there were 32% of total 24 respondents have green finance policy in place, 8% are in process of development while 60% doesn't have green finance policy yet. About 70.8% of the respondents have a limited understanding to develop green finance products and 29.20% have good understanding and applying the green finance principles within their institutions. Training orientation on the green financing assessment and green project development to ACLEDA and ARDB with participation from 56 staff (32 women or 57%).	Issue: Training on green finance and CSA to financial institutions have not been fully made except the TNA with MFI and bank staffs, orientation to MFIs and Banks staff as well as the training to PPIUs and farmers. Action: NGS, National M&E Expert and Green Finance Expert shall consult with PMU to develop further training program for MFIs and Banks.
3.2.2. 30 agribusinesses, including 30% women-led and/or owned trained on green finance and CSA (2017 baseline: 0) (DMF 3d. OP 2.1.2) Target 13: On Track Responsibilities: PMU MAFF (lead) and PPIUs Time frame: Q1 Y2 – Q4 Y6	As of September 2023: The project selected 30 Agriculture Cooperative and reviewed for PPP matching to ensure that they are able to implement the green business initiatives and access to green financing from the MFIs and Banks.	Issue: ABC is waiting for MoU with the project. Action: NGS, National M&E Expert and Green Finance Expert shall consult with PMU to push the signing of MoU.

	<p>There were 12 training workshops on the green financing provided to Agriculture Cooperatives (ACs) in the 4 target provinces with participation from 167 participants (102 women or 61%).</p> <p>Provided: (i) training of AC farmers on climate smart agriculture (CSA) for rice, cassava, maize; (ii) training to farmers on sustainable rice production (SRP); (iii) training to AC and farmer group on contract farming; (iv) training to farmers on Cam-GAP practice and compliance for fruit crop-mango; and (v) provided orientation workshops on the green finance framework and the workplan about PMU collaboration with ABC, MFIs and ARDB on the green finance in agriculture sector to 7,034 participants (3,923 women or 56%).</p>	
<p>3.2.3. Raise awareness among women farmers/cooperative members, women-led and/or owned enterprises, and female staff in financial institutions using adequate channels about existing credit facilities, green financing including crop insurance and required formalities to access these</p> <p>Action 7: On Track</p> <p>Responsibilities: PMU MAFF (lead) and PPIUs</p> <p>Time frame: Q1 Y2 – Q4 Y6</p>	<p>As of September 2023:</p> <p>Project conducted 8 meetings with PPIU in the four target provinces to discuss on the green financing, how to assess the green finance of the local bank and to identify the potential bank in 4 provinces with total 56 participants (26 women or 46%).</p>	<p>Issue: Discussion is done with MFIs and banks. However, there is no specific channel for accessing to green finance and crop insurance to women farmers/ cooperative members, women-led and/or owned enterprises. Concrete data and information is required for the meetings.</p> <p>Action: NGS, National M&E Expert and Green Finance Expert shall organize series of green finance access to women farmers/cooperative members, women-led and/or owned enterprises.</p>
<p>3.2.4. 20,000 households, including 20,000 women, provided with information on climate risk sharing instruments (2017 baseline: 0) (DMF 3e. OP 2.5.3)</p> <p>Target 14: On Track</p> <p>Responsibilities: PMU MAFF (lead) and PPIUs</p> <p>Time frame: Q1 Y2 - Q4 Y6</p>	<p>As of September 2023:</p> <p>Project conducted the meeting with PPIUs and AC to introduce the crop insurance concept and green project.</p> <p>Project conducted meeting with crop insurance institutions to organize a dissemination on the weather forecasting and crop insurance at target provinces.</p>	<p>Issue: Concrete data and information is required for the meetings. Number of households and people (including women) who were provided the information on crop insurance is unknown.</p> <p>Action: NGS, National M&E Expert and Green Finance Expert shall organize series of awareness raising or workshop in order to introduce the climate risk sharing instruments to both women and men in the communities.</p>

Project management gender related activities.		
<p>4.1. PMU to appoint safeguards officer to also be responsible and accountable for gender, who will closely liaise with representatives from the MAFF GCWG at national level and from WFN, Agricultural Cooperatives and sub-national gender focal points (province, district, commune), and agricultural cooperatives as key partners in project implementation, monitoring and reporting.</p>	<p>As of September 2023:</p> <p>There were 9 officials (7 women) assigned to be safeguard and gender focal points at PMUs MAFF level.</p> <p>There were 4 officials (4 women) assigned to be safeguard and gender officers at PPIU MAFF levels</p> <p>There were 4 officials (1 woman) assigned to be safeguard and gender officers at PPIU MOWRAM levels</p> <p>There were 4 officials (0 woman) assigned to be safeguard and gender officers at PPIU MRD levels.</p>	<p>Issue: Elaboration of the achievement is not relevant.</p> <p>Action: NGS and National M&E Expert consult with PMU to provide the list of safeguard focal points from national to local level.</p>
<p>4.2. Prepare annual work plans to implement the activities of the GAP.</p>	<p>As of September 2023:</p> <p>GFP Team together with the PIC gender consultants have developed training workplan for the commune level to ensure integration of gender aspects into CFAVC during the training.</p> <p>Gender Action Plan budget was incorporated into AWPB CS2.</p>	<p>Issue: The whole gender action plan work-plan with all indicators has not been developed except the training plan.</p> <p>Action: NGS and National M&E Expert consult with PMU to prepare the whole gender action plan work-plan with all indicators.</p>
<p>4.3. Gender consultants (national and international) recruited to support GAP implementation, monitoring and reporting and to build the capacity of the GCPSU and gender focal points and PMU staff in gender analysis and mainstreaming.</p>	<p>As of September 2023:</p> <p>GAP is now much better understood and 'rolled out', the gender consultants notices higher quality in gender data obtained from the GFPs. This is good news as it takes away substantial efforts and time which was previously used to capacity-build the GFPs, with many online meetings every month.</p> <p>All females' leaders and members of Agricultural Cooperatives (ACs) actively participate in all project activities such as consultations, planning, meetings for the ACs business, rehabilitation and construction;</p> <p>From 25-26 October 2022, CS1/PIC Gender team (Int. National) conducted First Training Workshop on the new GAP for EAs / IAs and key Gender focal points (GFPs) ACs/WFNs at Provincial level. Most of participants have already been trained on Gender at Tonle Basac Restaurant in Phnom-Penh. The workshop was opened by remarks by H.E. Hor Malin with a total 53 participants (30 women or 56%).</p> <p>Training modalities are PowerPoints, group work, discussion fora etc.</p> <p>The two-day training is structured in main parts of:</p> <p>New Gender Action Plan (GAP) Implementation, Monitoring and reporting.</p> <p>Review and update provincial training proposals at the provincial level.</p>	<p>Issue: PIC Gender consultant has been newly replaced. Therefore, the data management of all indicators are not up to date.</p> <p>Action: NGS and National M&E Expert consult with PMU review and revise the achievement of the GAP's indicators and actions based on the collected data.</p>

	Introduce training topics for practice at the local level such as seed selection related to crop production for the four value chains (maize, rice, cassava and mango) for community training. Budget for gender implementation at commune level.	
4.4. Relevant departments in MAFF, agricultural extension agents, local leaders and government officials, GCPSU and Gender Focal Points, and WFN to receive training on gender considerations in climate-friendly agribusiness value chains as central component of project capacity building activities.	<p>As of September 2023:</p> <p>From 25-26 October 2022, CS1/PIC Gender team (Int. National) conducted First Training Workshop on the new GAP for EAs / IAs and key Gender focal points (GFPs) ACs/WFNs at Provincial level. Most of participants have already been trained on Gender at Tonle Basac Restaurant in Phnom-Penh. The workshop was opened by remarks by H.E. Hor Malin with a total 53 participants (30 women or 56%).</p> <p>Training modalities are PowerPoints, group work, discussion fora etc.</p> <p>The two-day training is structured in main parts of:</p> <p>New Gender Action Plan (GAP) Implementation, Monitoring and reporting.</p> <p>Review and update provincial training proposals at the provincial level.</p> <p>Introduce training topics for practice at the local level such as seed selection related to crop production for the four value chains (maize, rice, cassava and mango) for community training. Budget for gender implementation at commune level.</p> <p>Capacity building of GFPs through the support of knowledge and skills in the work of gender specialist and the opportunity to conduct gender activities at the community level directly with relevant project officers on gender mainstreaming and GAP implementation approaches, particularly for monitoring and follow up and collect sex data.</p>	<p>Issue: During the MTR visits, it seems sex-disaggregated data has been documented for most of the GAP indicators at the local level except the national and provincial levels.</p> <p>Action: NGS and National M&E Expert consult with PMU strengthen or train on the sex-disaggregated data collection and mainstreaming of GAP indicators at the community's levels.</p>
4.5. Collection and analysis of sex disaggregated data where relevant and included in project reports (DMF, GAP and PPMS).	Data obtained from GFP/PPIU and engineers on a regular basis.	<p>Issue: PPMS has not yet finalized. National M&E Expert is working to improve.</p> <p>Action: NGS and National M&E Expert consult with PMU to improve the PPMS with supporting data collection tools.</p>
4.6. GAP implementation progress reports included in regular monitoring and reporting activities (at least semi-annually to ADB).	<p>Continuous work to support the implementation of the new GAP. All GFPs seem to have a better grasp on how to use it, and what the 14 targets and the 7 actions in the new GAP means.</p> <p>During the site observation, action plan(s) were designated as being accountable for specific objectives and activities for Gender and women participant. However, the contractor responsible for ensuring that women</p>	<p>Issue: Gender and Development has not been incorporated in the QPR.</p> <p>Action: NGS and National M&E Expert consult with PMU to</p>

	<p>participant process needs to be monitored to meet the contract bids agreement requirement.</p> <p>Site managers understand of the GAP and Gender mainstreaming and they are instructed to monitor the work conditions for women in the construction work, it will also serve to attract and retain women as workers during a critical time of labor shortages in the construction.</p>	<p>incorporate GAP progress report in the QPR.</p>
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Appendix 8: Result of Financial Audit for year 2022



**ROYAL GOVERNMENT OF CAMBODIA
MINISTRY OF AGRICULTURE, FORESTRY
AND FISHERIES**

**Climate-Friendly Agribusiness
Value Chains Sector Project**

ADB Loan No. 3661 – CAM (COL), ADB GCF Loan
No. 8346 – CAM (EF) and Grant No. 0579 – CAM (EF)

**Management Letter
for the year ended 31 December 2022**



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9 June 2023

Your Excellency,

Management Letter – Audit for the year ended 31 December 2022

We have audited in accordance with Cambodian International Standards on Auditing, the financial statements of the Climate-Friendly Agribusiness Value Chains Sector Project (“the Project”), financed under the Asian Development Bank Loan No. 3661 – CAM (COL), ADB GCF Loan No. 8346 – CAM (EF) and Grant No. 0579 – CAM (EF), and implemented by the Ministry of Agriculture, Forestry and Fisheries (“MAFF”, “the Executive Agency” or “EA”), for the year ended 31 December 2022, and have issued our report thereon dated 9 June 2023. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risk assessments, we considered internal control relevant to the Project’s preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Project’s internal controls. Accordingly, we do not express an opinion on the effectiveness of the Project’s internal controls.

The maintenance of adequate controls designed to fulfill control objectives is the responsibility of management. Because of inherent limitations in internal controls, errors or fraud may nevertheless occur and not be detected. Also, controls found to be functioning at a point in time may later be found deficient because of the performance of those responsible for applying them, and there can be no assurance that controls currently in existence will prove to be adequate in the future as changes take place in the Project.



Our audit procedures are designed primarily to enable us to form an opinion on the financial statements, and therefore may not bring to light all weaknesses in policies or procedures that may exist. We aim, however, to use our knowledge of the Project gained during our work to make comments and suggestions that we hope will be useful to you.

Our findings are grouped into the following audit areas:

1. Financial management including record keeping systems and controls;
2. Procurement of goods and services;
3. Assets/Inventory management;
4. Cash management; and
5. Compliance with the key covenant of the Grant/Loan agreement and/or local regulations.

During our audit, we noted certain matters involving internal controls that is presented for your consideration. These comments and recommendations, all of which have been discussed with the appropriate members of management, are intended to improve internal controls or result in other operating efficiencies and are summarised in the enclosed report.

The Project's written response to our comments and recommendations has not been subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

This communication is intended solely for the information and use of the Ministry of Economy and Finance, the Asian Development Bank and the Project management.

Yours faithfully,

For **KPMG Cambodia Ltd**


Guek Teav
Partner





Contents

	Pages
1. Financial management including record keeping systems and controls	
1.1 Set more realistic budget or document explanation on significant variances	1 – 2
1.2 Comply with the Cash Basis of Accounting of Cambodian Public Sector Accounting Standards (“CPSAS”)	3
1.3 Opening fund balance not taken up and not agreed to the audited figures	4
2. Procurement of goods and services – No finding	
3. Assets/Inventory management – No finding	
4. Cash management – No finding	
5. Compliance with the key covenant of the Grant/Loan agreement and/or local regulations – No finding	
Status of the prior year’s observations and recommendations	5 – 6



1. Financial management including record keeping systems and controls

1.1 Set more realistic budget or document explanation on significant variances

Observation

We noted that the estimated budget for the Project's payments are not comparable to the actual payments in some payments categories for the period under audit. There was no analysis or explanation causing to each variance nor threshold being set as to what extent the variance explanation should be provided. The significant variances were noted below.

Description	2022		Variance	
	Budget	Actual	Diff	%
	US\$	US\$		
Investment				
Civil works	5,257,540	1,843,937	3,413,603	65%
Equipment, materials, good and Project implementation service	1,308,630	82,368	1,226,262	94%
Training, workshops and demonstration	2,003,050	771,856	1,231,194	61%
Consulting services	4,313,880	2,374,256	1,939,624	45%
Incremental operating costs	635,200	468,200	167,000	26%
Interest charges during implementation	-	102,179	(102,179)	100%
Total	13,518,300	5,642,795	7,875,505	58%

This issue was also raised following the previous year's audit.

Implication

If the budget is to be used as an effective control tool, it is important that it is used to compare with actual expenses or payments with proper explanation for the under/over use of fund. Otherwise, it will be much harder for the Project's management to monitor the effective use of the fund and set a realistic budget for the coming year.

Recommendation

The Project should use their best estimates and experience to set a realistic budget based on work plan. The comparison between budget and actual payments should be performed regularly. Any significant variance i.e. $\geq 10\%$ shall provide a written explanation and remedy action plan. The budget should also be reviewed regularly and revised if needs.



1. Financial management including record keeping systems and controls (continued)

1.1 Set more realistic budget or document explanation on significant variances (continued)

Management's response 2021

During the Project implementation period, there has been some challenges and difficulties encountered which are leading to in delaying some of the activities, those concerns are as follows:

- Insufficient capacity to produce LARP/DDR on time for Social Safeguard clearance prior to signing of Civil Work contracts, this is leading to the delay of civil work construction;
- CS2 delays in expert recruitment and mobilization for output 2 and out 3;
- Late recruitment of CS3 and CS4;
- The COVID-19 pandemic caused;
- Delay in procurement process biodigester & Compost Hut due to cost increased, which is needed to rebid in 2022;
- Delay in preparation of technical specifications of Laboratory; and
- Delay of constructions of warehouse/ storage and training building center due to the raining season caused.

Management's response 2022

- The shortage of GCF Grant Fund at the end of the year
- Delay of bidding on Biodigester and Compost Huts
- Late recruitment of CS3 and CS4
- Delay in procurement of Laboratory
- Delay of Construction of warehouse/ storage and training building center due to the raining season caused; and
- The COVID-19 pandemic caused.

The following statements are our commitments for the next fiscal year:

- The project is being requested to ADB to change the procurement procedure of bidding the bio-digesters and compost huts
- The project will speed up the training activities (capacity building), and
- The project will strengthen the implementation of Annual Work Plan and Budget 2023.



1. Financial management including record keeping systems and controls (continued)

1.2 Comply with the Cash Basis of Accounting of Cambodian Public Sector Accounting Standards (“CPSAS”)

Observation

In accordance with the Prakas from Ministry of Economics and Finance dated on 14 October 2020, the Project shall adopt Cash Basis of Accounting of Cambodian Public Sector Accounting Standards (“CPSAS”) effective from 1 January 2020. However, we have noted that there are expenses paid by the provincial office that were not recognised by the Project as expenditure in 2022 and still recognised as provincial cash (as known as “sub-account to provinces”).

Audit adjustment was raised in the financial statements in order to comply with CPSAS.

Implication

The financial statements are not fairly stated in accordance with CPSAS.

Recommendation

The Project should properly account for accounting transactions in accordance with CPSAS.

Management's response 2022

The nature of Sub-account to provinces has been treated as fund transferred from PMU to the provincial Project banks' account (PPIUs) only.

Anyway, the Project agreed to make any further adjustments for the next fiscal year as per the auditor's recommendation.



1. Financial management including record keeping systems and controls (continued)

1.3 Opening fund balance not taken up and not agreed to the audited figures

Observation

Post-closing adjustments that were agreed in prior year audit were not taken up in the opening balances of year 2022.

Implication

Failure to capture the adjustment from prior year will result in errors being carried forward to the unadjusted financial statements of the following year and needs more work to rectify later on.

Recommendation

All post account closing adjustments should be recorded immediately to correct the opening fund balance of the following year.

Management's response 2021

The discrepancy due to the transaction relating to the remaining advance to consulting firms in FY2020, which is needed to be adjusted to cash basic record.

The Project agreed to make any further adjustments for the next fiscal year as per the auditor's recommendation.

Management's response 2022

Due to the remaining advance to consulting firms are fully liquidated in FY2022 so the Project does not need to make any further adjustments for the next fiscal year.

Status of the prior year's observations and recommendations

No.	Observations	Recommendations	Status																																																	
1.	Financial management including record keeping systems and controls																																																			
1.1	<p>Set more realistic budget or document explanation on significant variances</p> <p>We noted that the estimated budget for the Project's payments are not comparable to the actual payments in some payments categories for the period under audit. There was no analysis or explanation causing to each variance nor threshold being set as to what extent the variance explanation should be provided. The significant variances were noted below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Description</th> <th colspan="2">2021</th> <th colspan="2">Variance</th> </tr> <tr> <th>Budget US\$</th> <th>Actual US\$</th> <th>Diff</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Investment</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Civil works</td> <td>8,704,494</td> <td>46,896</td> <td>8,657,598</td> <td>-99%</td> </tr> <tr> <td>Equipment, materials, good and Project implementation service</td> <td>1,412,950</td> <td>-</td> <td>1,412,950</td> <td>-100%</td> </tr> <tr> <td>Training, workshops and demonstration</td> <td>1,874,225</td> <td>391,439</td> <td>1,482,786</td> <td>-79%</td> </tr> <tr> <td>Consulting services</td> <td>4,285,393</td> <td>1,210,207</td> <td>3,075,186</td> <td>-62%</td> </tr> <tr> <td>Incremental operating costs</td> <td>879,956</td> <td>337,706</td> <td>542,250</td> <td>-100%</td> </tr> <tr> <td>Interest charges during implementation</td> <td>-</td> <td>50,347</td> <td>(50,347)</td> <td>-100%</td> </tr> <tr> <td>Total</td> <td>17,157,018</td> <td>2,036,595</td> <td>15,120,423</td> <td>-88%</td> </tr> </tbody> </table>	Description	2021		Variance		Budget US\$	Actual US\$	Diff	%	Investment					Civil works	8,704,494	46,896	8,657,598	-99%	Equipment, materials, good and Project implementation service	1,412,950	-	1,412,950	-100%	Training, workshops and demonstration	1,874,225	391,439	1,482,786	-79%	Consulting services	4,285,393	1,210,207	3,075,186	-62%	Incremental operating costs	879,956	337,706	542,250	-100%	Interest charges during implementation	-	50,347	(50,347)	-100%	Total	17,157,018	2,036,595	15,120,423	-88%	<p>The Project should use their best estimates and experience to set a realistic budget based on work plan. The comparison between budget and actual payments should be performed regularly. Any significant variance i.e. ≥10% shall provide a written explanation and remedy action plan. The budget should also be reviewed regularly and revised if needs.</p>	<p>Not implemented. Refer to management letter point #1.1.</p>
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5

Status of the prior year's observations and recommendations (continued)

No.	Observations	Recommendations	Status
1.	Financial management including record keeping systems and controls (continued)		
1.2	<p>Comply with the Cash Basis of Accounting of Cambodian Public Sector Accounting Standards ("CPSAS")</p> <p>In accordance with the Prakas from Ministry of Economics and Finance dated on 14 October 2020, the Project shall adopt Cash Basis of Accounting of Cambodian Public Sector Accounting Standards ("CPSAS") effective from 1 January 2020. However, we noted that the Project still accounted for advances to consultants as of 31 December 2021 amounting to US\$239,757.</p> <p>Audit adjustment was raised in the financial statements in order to comply with CPSAS.</p>	<p>The Project should properly account for accounting transactions in accordance with CPSAS.</p>	<p>Implemented for advance to consultant but another non-compliance with CPSAS on the sub-provincial account was identified. Refer to management letter point #1.2.</p>
1.3	<p>Opening fund balance not taken up and not agreed to audited report figures</p> <p>Post-closing adjustments that were agreed in prior year audit were not taken up in the opening balances of year 2021.</p>	<p>All post account closing adjustments should be recorded immediately to correct the opening fund balance of the following year.</p>	<p>Not implemented. Refer to management letter point #1.3.</p>

6

Appendix 9: MOU of ADB Mid-term Review Mission



MEMORANDUM OF UNDERSTANDING

BETWEEN

THE ASIAN DEVELOPMENT BANK

AND

THE ROYAL GOVERNMENT OF CAMBODIA (RGC)

ADB Loan 3661/GCF Loan 8346 and GCF Grant 0579:

Climate-Friendly Agribusiness Value Chains Sector Project (CFAVC)

Midterm Review Mission (25 September to 6 October 2023)

Phnom Penh, Cambodia

I. BACKGROUND

1. On 29 June 2018, the Asian Development Bank (ADB) approved the Climate-Friendly Agribusiness Value Chains Sector Project (the CFAVC Project) for \$141.04 million with a financing plan, including (i) a concessional loan from ADB's Ordinary Capital Resources (OCR) for \$90 million; (ii) a loan from the Green Climate Fund (GCF) for \$10 million; and (iii) a grant from the GCF for \$30 million, in addition to estimated contributions of \$3.66 million from beneficiaries and \$7.38 million from the Royal Government of Cambodia. The ADB loan was declared effective on 1 October 2018 while the GCF loan and grant were declared effective on 28 March 2019. The project is scheduled for closing on 30 September 2026.

2. The project is aligned with the following impact: agricultural competitiveness improved.¹ The project will have the following outcome: productive and resource-efficient agribusiness value chains developed in project areas. The project has three outputs: (i) critical agribusiness value chain infrastructure improved and made climate-resilient; (ii) climate-smart agriculture and agribusiness promoted; and (iii) enabling environment for climate-friendly agribusiness enhanced. Through the above outputs, the project aims to improve the competitiveness of agribusiness value chains in Kampong Cham and Tboung Khmum provinces along the Greater Mekong Subregion (GMS) southern economic corridor, and in Kampot and Takeo provinces along the south coastal economic corridor. The project aims to boost the climate resilience of critical agricultural infrastructure and help in commercialization of rice, maize, cassava, and mango production. It aims to increase crop productivity and diversification; improve the capacity for storage, processing, and quality and safety testing; promote the use of solar and bioenergy; strengthen the technical and institutional capacity for climate-smart agriculture (CSA); and create an enabling policy environment for climate-friendly agribusinesses.

3. The Ministry of Agriculture, Forestry and Fisheries (MAFF) is the executing agency (EA), in close coordination with the Ministry of Water Resources and Meteorology (MOWRAM) and the Ministry of Rural Development (MRD). The General Directorate of Agriculture (GDA), Cambodian Agricultural Research and Development Institute (CARDI), General Directorate of Animal Health and Production (GDAHP), the General Department of Technical Affairs of MOWRAM and the General Department of Technical Affairs of MRD are implementing agencies (IAs).

4. A Midterm Review Mission (MTR)² (the Mission) from the Asian Development Bank (ADB) visited Cambodia from 25 September to 6 October 2023 to (i) review institutional, administrative, technical (activities, outputs, outcomes, climate, safeguards, gender), economic and financial, risks and other aspects; (ii) assess the need to change the project scope and update performance targets in the Design and Monitoring Framework (DMF), where necessary; (iii) identify savings from loan and grant proceeds available for reallocation, to reflect latest project needs and priorities and (iv) transfer project administration from ADB Headquarters to the Cambodia Resident Mission (CARM). During MTR, the project team: (i) reviewed the implementation progress to date; (ii)

¹ The impact is reflected in enhanced productivity, climate resilience, quality and safety, value addition, and rural household incomes.

² The Mission comprised (i) Srinivasan Ancha, Principal Climate Change Specialist/Mission Leader, Climate Change, Resilience and Environment Cluster (CCRE); (ii) Indah Setyawati, Senior Safeguards (Resettlement Specialist); (iii) Xin Ren, Senior Safeguards (Environment) Specialist; (iv) Christian Ellermann, Senior Climate Change Specialist, CCRE (selected meetings); (v) Chanthou Hem, Senior Project Officer, Cambodia Resident Mission (CARM); (vi) Karen Chua, Senior Operations Officer, SG-AFNR; and (vii) Vuth Cheng, Associate Project Analyst, CARM. The mission team was joined by Tem Sareivouth, Social Safeguards Specialist (consultant), Sethy Sour, Environmental Safeguards Specialist (consultant), Chan Sophana, Gender Specialist (consultant) and Micheala Conine (GCF consultant). Support from the Country Director, CARM, other CARM staff, and consulting firms is gratefully acknowledged.

undertook field inspections of project sites and interviewed a range of stakeholders, including beneficiaries and project implementation staff; (iii) discussed measures needed to resolve implementation issues; (iv) formulated potential realignments of the project scope and DMF, and (v) prepared a list of measures that will need to be fulfilled to ensure targets are met.

5. A kick-off meeting, chaired by Dr. Sam Chhom Sangha, Project Director, and attended by representatives of the Ministry of Economy and Finance (MEF), MAFF, MOWRAM, MRD, and staff from the Provincial Department of Agriculture, Forestry and Fisheries (PDAFF), Provincial Department of Water Resources and Meteorology (PDWRAM) and Provincial Department of Rural Development (PDRD) from the four project provinces (Kampong Cham, Tboung Khmum, Kampot, and Takeo) took place on 25 September 2023. The Mission met with the Minister of Agriculture H.E. Dith Tina on 26 September and conducted field visits to the four project provinces from 26 September to 2 October 2023. The Mission held bilateral meetings with all implementing agencies, consulting firms, and the GCF (virtual) from 3 to 5 October 2023. A wrap up meeting, chaired by the H.E. Chan Chesda, Chairman of PSC, MAFF, and attended by representatives of the MEF, MAFF, MOWRAM, MRD, and staff from the PDAFF, PDWRAM and PDRD from the four project provinces was held on 6 October 2023. The Mission schedule and the list of persons met are in Attachments 1 and 2 respectively.

6. This memorandum of understanding (MOU) outlines the agreements reached between the Mission and the Government. The agreements set out in this MOU are subject to review and approval by higher authorities of the Government and ADB.

II. PROJECT IMPLEMENTATION STATUS AND MISSION FINDINGS

7. **Project management.** The PSC held a total of three meetings to date, to give oversight and guidance on project implementation. Impacts from (i) delays in recruitment of consultants, and (ii) the coronavirus disease (COVID-19) led to considerable delays in project implementation, from 2019 to 2021. In view of such delays, based on MEF's request in December 2021, ADB extended the project completion date by 18 months from 31 March 2025 to 30 September 2026. Following COVID-19, the Mission noted increases in the cost of construction materials and fuel, which resulted in higher value bids by contractors as compared with original estimates.

8. As of 5 October 2023, the project is rated "On Track". Overall physical progress, as reported by the EA, is estimated at 52% against an elapsed time of 63.7%. Per ADB financial records, cumulative contracts awarded for the project is \$51.38 million or 39.5% of the total loan and grant amount. Cumulative disbursement is \$31.68 million or 24.4% of the total loan and grant amount. Disbursements include an advance of \$3.3 million. DMF with latest achievement is presented in Attachment 3. Key achievements, challenges and agreed actions under various outputs are listed below.

9. **Output 1: Critical agribusiness value chain infrastructure improved and made climate-resilient:** Key activities under this output involve (i) rehabilitating irrigation and water management infrastructure to climate-resilient condition; (ii) upgrading agricultural cooperatives' value chain infrastructure; (iii) improving the connectivity of farms to cooperatives and markets through climate-resilient farm road networks; (iv) strengthening the infrastructure for agricultural quality and safety testing at national agricultural laboratory; and (v) promoting renewable energy.

- (i) **Irrigation and water management infrastructure (MOWRAM):** The project aims to rehabilitate and enhance resilience of 27 irrigation subprojects (5 each in Kampong Cham and Kampot; 7 in Tbong Khmum and 10 in Takeo) with an irrigable area of 15,107

hectares (ha) benefitting 19,180 households (83,824 persons including 46,385 women) in 43 communes in 15 districts. Two additional back-up irrigation subprojects (one each in Kampot and Takeo) were also identified. Rehabilitation of 9 subprojects (2 each in Kampong Cham, Kampot and Takeo; and 3 in Tbong Khmum) was completed as of September 2023. Topographic surveys and feasibility studies were completed in 25 subprojects; detailed engineering design (DED) for 24 subprojects; initial environmental examinations (IEE) for 21 subprojects; and social safeguards due diligence reports (DDRs) for 14 subprojects. Budget allocated for 27 subprojects (~\$32.2 million) is considered adequate as per engineer estimates, although the team identified need for an additional \$11 million to further enhance climate resilience and sustainability. The team noted that rehabilitation and deepening of reservoirs, study trips to other successful irrigation subprojects, additional on the job training of FWUCs and creating a FWUC federation may be considered as part of Phase II (additional financing) of the project.

The project aimed to rehabilitate and enhance climate resilience of 800 on-farm rainwater harvesting ponds (RWHPs), each RWHP benefitting a single household, at an estimated cost of \$9 million. However, based on stakeholder consultations and needs of farming communities, the larger RWHPs benefitting more households but requiring a higher budget per pond, have been selected. The first batch of 278 RWHPs benefitting 918 households (4179 persons, including 2076 women) in 51 communes are estimated to cost \$4.8 million. In view of potential budget shortfall of about \$4.3 million for constructing the remaining 522 ponds, the team agreed to reduce the overall target from 800 to 500 ponds with higher number of beneficiaries. The project identified 15 mango farms for demonstration of drip irrigation, but the actual demonstrations have not yet commenced.

Agreed actions: The Mission noted that immediate recruitment of independent third party (ITP) is critical to avoid further delays in verification of voluntary donations in 13 irrigation subprojects and 172 from the first RWHPs batch. (i) The Mission was informed that the evaluation report of ITP was pending for approval due to a lack of clarity regarding the institutional responsibilities stated in the TOR and source of fund. Based on clear guidance during the MTR, it is now imperative that all stakeholders promptly provide quick endorsement for recruitment of ITP using the GCF grant and mobilize the ITP by November 2023. (ii) In view of serious shortfall of budget for RWHPs, the Mission and MOWRAM agreed to reduce the target from 800 to 500 RWHPs and complete the work by June 2025. (iii) PMU-MOWRAM, consulting teams and communities identified further scope of enhancing climate resilience of subprojects and identified the need for additional minimum investment of \$30 million in irrigation subprojects covering 80 agricultural cooperatives. The Mission suggested that additional financing for the project may be pursued in due course, subject to satisfactory progress and successful mobilization of additional funds. (iv) In accordance with the covenant on O&M in the loan agreement, the Mission asked the PMU-MOWRAM to ensure preparation of the operation and monitoring (O&M) plan of each irrigation subproject by involving local communities and by covering institutional, financial, technological, and capacity building needs within six months of completion of construction for each subproject. (v) The Mission requested the PMU-MOWRAM to assess the performance of contractors using a common framework with transparent criteria within six months of completion of construction of each batch of subprojects. (vi) The Mission requested PMU-MOWRAM to consider developing 2-page fact sheets (similar to leaflets / flyers) for each of the irrigation subprojects and short videos to communicate the project achievements to a

wider audience.

- (ii) **Agricultural cooperatives (MAFF):** The project selected 80 (13 in Kampong Cham; 17 in Kampot; 20 in Tbong Khmum and 30 in Takeo) agricultural cooperatives (ACs) for upgrading post-harvest infrastructure and integrating climate adaptation measures. As of September 2023, construction was completed on 55 ACs while work on 25 ACs is ongoing. Grain storage capacity was improved in 80 ACs (200-ton capacity in 12 ACs; 100-ton capacity in 51 ACs; and 50-ton capacity in 17 ACs) benefitting a population of 765,777 persons (402,465 women) in 194,986 households (27,946 women-headed households). The Mission visited 7 ACs and noted that local government officials and communities were satisfied with the quality of infrastructure built. The Director of the Department of Agricultural Cooperative Promotion suggested that capacity building of Commune Agricultural Officers in AC concept and law, business planning, bookkeeping and accounting, leadership and management to support ACs in their communities, and conduct of AC business planning workshops and business exchange workshops to communicate success stories would be useful and agreed. He also suggested a rapid assessment of 80 ACs supported by the project.

Agreed actions: (i) Procurement of additional post-harvest processing infrastructure (e.g., drying platforms, dryers, cassava chip makers, maize shellers) for selected ACs to be completed. The Mission asked the team to procure them on a selective basis by May 2024 based on a careful needs and capacity assessment at the AC level. (ii) The Mission stressed the development of the business plan for each AC by the end of December 2024. (iii) The Mission observed that sanitation and safety facilities at some ACs was not up to satisfactory standards and asked PMU not to release final payments/retention payments until contractors improve such facilities, latest by December 2024. (iv) In accordance with the covenant on O&M in the loan agreement, the Mission asked the PMU to ensure the preparation of O&M plan of each AC involving local communities and by covering institutional, financial, technological, and capacity building needs by March 2024. (v) The Mission agreed with the GDA proposal to strengthen the capacity of Commune Agricultural Officers in AC concept and law, business planning, bookkeeping and accounting, leadership and management to support ACs in their communities and to share success stories from ACs based on assessment of 80 ACs supported by the project using the criteria of relevance, effectiveness, efficiency, and sustainability by August 2024. (vi) The Mission stressed the need for additional efforts of the project to link ACs with the private sector (e.g., Amru Rice) latest by June 2024 to ensure better market prices for the produced stored by AC members.

- (iii) **Rural connectivity infrastructure (MRD):** The project aims to rehabilitate and enhance climate resilience of at least 250 km of rural roads connecting ACs, farms and markets. The project identified 272 km of road subprojects connecting 44 ACs but prioritized 252 km road subprojects connecting 41 ACs due to budget constraints. In all road subprojects, a combination of double bituminous surface treatment (DBST) in road lengths exceeding flood levels and concrete for road lengths below the flood level is being considered to optimize the cost. Construction of the batch 1 road subprojects of 71.1 km connecting 8 ACs (2 ACs in each of target provinces) was nearly (90%) completed. Signing of contracts for the batch 2 subprojects of 100.1 km connecting 20 ACs (4 each in Kampong Cham and Kampot; 5 in Takeo and 7 in Tbong Khmum) was completed but construction is in very early stages (1%) subject to clearance of detailed resettlement plans (DRPs) and compensation of affected households. Feasibility studies and DED for batch 3 road subprojects of 81.4 km connecting 13 ACs (1 in Kampot, 2 in

Kampong Cham, 4 in Tbong Khmum and 6 in Takeo) were completed but safeguards due diligence, including preparation of DRPs, is yet to be completed.

Agreed actions: (i) Owing to cost escalation of construction materials and fuel, meeting the original target of 250 km road subprojects would require an additional \$2.8 million. The Mission agreed with MRD and informally with GCF to explore reallocation some funds from other activities such as varietal deployment and capacity building. (ii) Current budget is adequate only to cover connectivity for 41 ACs. Provision of climate resilient farm roads to the remaining 39 ACs would require an estimated budget of \$42 million. The Mission suggested that additional financing for the project may be pursued in due course, subject to satisfactory progress and successful mobilization of additional funds. (iii) In accordance with the covenant on O&M in the loan agreement, the Mission asked the PMU-MRD to ensure preparation of O&M plan of each road subproject by involving local communities and by covering institutional, financial, technological, and capacity building needs within six months of completion of construction. (iv) The Mission requested the PMU-MRD to assess the performance of contractors within six months of completion of construction of each batch of road subprojects, using a common framework with transparent criteria and by developing a contractor monitoring checklist. (v) The Mission requested PMU-MRD to consider developing 2-page fact sheets (similar to leaflets or flyers) for each of the road subprojects and short videos to communicate the project achievements, especially climate resilience measures adopted in each geographic setting, to a wider audience.

- (iv) **Laboratory infrastructure:** The project renovated parts of the National Agricultural Laboratory (NAL), constructed a net house, provided limited laboratory supplies for the biofertilizer laboratory, and trained staff on safety and quality testing in 2022. The project revised the technical training manual on GMOs and phytotoxins, supported NAL's ISO 17025 accreditation process through developing version 5 of the guidelines, and developed cassava tissue culture manual which will be endorsed by NAL and GDA by March 2024. Guidelines for testing for GMOs, and the quality of organic and biofertilizers are in advanced stages. The project identified critical equipment for laboratories supporting biofertilizer and organic fertilizer certification, plant tissue culture, and biotechnology. However, based on instructions of the Minister of Agriculture, HE Dith Tina, following his decision to relocate all MAFF laboratories to a new location in Sitbo district of Kandal province, procurement of equipment was suspended. The Mission noted that existing laboratory facilities are testing about 4000 samples fetching about 1 billion riels (~\$250,000).

Agreed actions: (i) The Mission noted that the successful operation of existing laboratories requires critical supplies and strengthening of capacities for testing safety and quality of agricultural products. The Mission agreed that the project would procure limited quantities of supplies (Attachment 4). (ii) The construction of a new laboratory complex at Sitbo is expected to be completed in 2027 beyond the current scheduled project completion date. The Mission requested MEF to agree to reallocate the funds for other activities with significant budget shortfalls. MEF supported the idea of reallocation.

- (v) **Renewable energy infrastructure:** The project aimed to construct 12,000 biodigesters and 6,000 compost huts to improve use of renewable energy for cooking and lighting while reducing livestock waste related greenhouse gas emissions. Following the COVID-19 and Ukraine-Russia conflict, the cost of construction increased, on an average, by \$200 per biodigester and \$150 per compost hut while the readiness of beneficiaries to

make financial contribution has declined. The Mission learned that the National Biogas Program (NBP), which requires \$200 beneficiary contribution per biogas plant, could build only 482 biogas plants in 14 provinces in 2022, due to lack of financial readiness of beneficiaries. Two rounds of bids for the initial batch of 500 biogas plants and 250 compost huts failed due to lack of qualified bidders meeting the criteria of national competitive bidding (NCB). To enhance the community awareness of medium to long term benefits of biogas plants and compost huts and build interest on financial contribution, the project constructed 69 biogas plants and 69 compost huts from 2022 to 2023 and conducted 203 training events for 29,305 persons (13,855 women). The beneficiaries appreciated the project support and about 40% of participants expressed interest in building biogas plants. All 80 ACs were supplied with solar panels to meet the energy requirements of ACs.

Agreed actions: (i) Given the impacts of increased cost and declined interest of beneficiaries to make significant financial contributions, and the limited project implementation period, the Mission decided to reduce the target for biogas plants from 12,000 to 6,000 while maintaining the target of 6,000 compost huts which are constructed along with biogas plants. (ii) As two rounds of bidding failed, and as the target of 6,000 biogas plants and 6,000 compost huts is still considered high for the remaining 2.5 years of project implementation, the Mission agreed with the PMU's proposal to change the procurement method from NCB to shopping. MEF suggested that a framework agreement with contractors in each province could be developed to facilitate rapid implementation. An updated procurement plan will be submitted by EA, providing the procurement method, estimated number of packages and the estimated cost per package. (iii) Given the higher contribution by the project for biogas plants and compost huts, the Mission proposed to reallocate some funds from other activities to meet the target. MEF agreed with the proposal. The proposed reallocation was also discussed with GCF. GCF asked the team to carefully assess the needs and reallocate funds among activities in such a way that does not trigger major change and re-approval by the GCF Board.

10. An updated consolidated list of subprojects from MAFF, MOWRAM, MRD to be submitted by CS1 to ADB by 31 October 2023. In addition, the list will also include (i) availability of business plan (ii) status of safeguards, detailed resettlement plans (e.g., preparation, submission, compensation); (iii) climate resilience features adapted (bullet points), and (iv) O & M plan, which is due six months from completion of each subproject.

11. **Output 2: Climate-smart agriculture and agribusiness promoted.** Key activities include (i) deploying climate-resilient varieties; (ii) strengthening the capacity for climate-friendly production practices and technologies; and (iii) promoting farm mechanization and extension.

- (i) **Climate-resilient varieties:** The project aimed to support CARDI to produce, multiply, and distribute climate-resilient varieties of rice and maize and to improve weaning and acclimatization of mango and cassava. Because of differing views on the types of support needed by CARDI and GDA, the planned single source selection contract with IRRI did not materialize. The project supported CARDI in conducting (a) field demonstrations and seed distribution of climate-resilient rice (Phka Romduol – good grain quality and flood tolerant, Phka Romeat – salt tolerant; Phka Mealdey and CAR16 – heat tolerant; and Champei Sar70 – short duration and resistant to brown plant hopper and rice blast disease) and maize (CM1 and CHM01) varieties; and (b) six multi-location trials of rice (PRD/CAR11, PRD/RCH – submergence tolerant, SPD/SKO-01, CAR

15/pi21 – heat tolerant) seed multiplication, demonstration and 4 trials of CMD-resistant cassava lines from IITA in target provinces in 2023. CARDI aims to distribute 16 tons of seed for each climate resilient variety and seeks project support.

Agreed actions: CARDI confirmed during the mission that it does not require additional international support, including from IRRI, for deploying climate resilient varieties of rice and maize. However, CARDI requested international support on cassava for introducing cassava mosaic disease (CMD) and cassava witches' broom disease (CWBD) resistant clones from CIAT and IITA. CARDI has no plans to work on mangoes and advised the Mission to discuss with GDA for any needed support. The Mission agreed with CARDI's proposal to provide support through individual international consultants on cassava, and to support further deployment of maize hybrid CHM01 (GDA), which is drought and heavy rainfall tolerant, and disease resistant. The Mission also agreed to support CARDI's plans to produce and distribute 16 tons of climate resilient varieties of rice to target provinces.

- (ii) **Capacity building:** As of September 2023, the project trained 13,151 farmers (6,258 women) on CSA (102 workshops targeting 3075 farmers, including 1,719 women), SRP (179 workshops targeting 5,242 farmers including 3,102 women), agribusiness development (86 workshops targeting 2,232 AC board members including 629 women), CAMGAP (28 workshops), farm mechanization (68 workshops) and contract farming (6 workshops). The project trained 418 farmers (rice: 311; maize: 55 and cassava: 52) in seed production. The project identified 418.6 ha of rice field for laser land levelling benefiting 2,778 households. The project established 17 farmer water user communities (FWUCs) and organized 122 events to train 4,883 (1,324 women) representatives of FWUCs and farmer water user groups (FWUGs) and local authorities. Establishing and training FWUCs proved more expensive than the original budget.

Agreed actions: (i) Given the high target of 40,000 farmers (16,000 women) for capacity building, the Mission asked the team to accelerate efforts to train a further 27,000 farmers over the next 2 years by adopting multi-level training schemes. The PMU and CS2 team agreed to increase the number of Training of Trainers (ToT) trainers from GDA and training additional PPIU and PDAFF staff to deliver training to farmers. A revised capacity building plan will be prepared by 31 October 2023. (ii) As the cost of laser land levelling and associated training costs have increased by more than 15% from the time of project design, the Mission agreed with PMU's proposal to reduce the target for laser land levelling from 4,000 to 3,000 hectares. GCF was consulted on this. (iii) The establishment of 10 FWUCs in the remaining 10 irrigation subprojects and associated capacity building requires an additional budget of \$290,000. The Mission agreed to cover this under GCF grant for capacity building and requested the team to complete the works by December 2024.

- (iii) **Farm mechanization and extension:** The project constructed 3 provincial agricultural development centers (PADCs) in Kampong Cham, Takeo and Tbong Khmum in 2021 to serve as training centers at provincial level. The project also constructed farm mechanization and engineering workshops (FMEWs) in Kampong Cham, Kampot and Tbong Khmum in 2022. During project design, Kampot requested support for upgrading the existing PADC while Takeo requested support for upgrading the existing FMEC. However, both infrastructures decayed over time. Therefore, Kampot requested support for constructing a new PADC while Takeo requested support for constructing a new FMEW. The project will provide training to the PDAFF staff (9 staff) managing the

PADCs and FMEWs. The Mission noted that FMEWs could become financially sustainable if public-private partnerships (PPP) contracts could be arranged.

Agreed actions: The Mission agreed to the PMU's proposal of constructing a new PADC in Kampot and a FMEW in Takeo at a total cost of about \$200,000.

12. **Output 3: Enabling environment for climate-friendly agribusiness enhanced.** Key activities include (i) formulating climate-friendly agribusiness policies and standards; (ii) promoting green finance and risk-sharing mechanisms; and (iii) supporting climate risk management through information communication technology (ICT).

- (i) **Agribusiness policy and standards:** The project supported MAFF in preparing the draft Cambodian domestic biodigester standard and issuing the national biodigester policy in October 2021. The project developed manuals with standard operating procedures for testing the quality of organic fertilizers and biofertilizers, and nearly completed the preparation of the guidelines for the establishment and development of agricultural producer groups linked to the private sector and markets. The project's progress was limited in supporting ACs in becoming sustainable agribusiness ventures by linking up with the private sector and by establishing crop-centric PPP forums.

Agreed actions: (i) The Mission asked the CS2 team to review current agribusiness policies for rice, maize, cassava and mango and identify entry points for mainstreaming climate change adaptation and mitigation as well as gender issues by December 2024.³ (ii) On standards, the Mission asked the CS2 team to accelerate efforts to support finalization of tropical fruit CamGAP and develop an approach to pursuing commercialization of SRP standards by November 2024.

- (ii) **Green finance and climate risk sharing mechanisms:** The project collaborated with the Ministry of Environment (MOE), ARDB, NBC and Mekong Strategy Partners in establishment of green financing facility for Cambodia and trained 16 staff from ARDB and other banks and microfinance institutions on green finance and the integration of environmental and climate risk screening criteria into credit application and reporting procedures. The project developed extension materials, identified firms specializing in crop insurance and green loans, and organized two training courses on climate risk sharing for 77 participants (17 women) from PPIUs, banks, microfinance institutions and ACs in target provinces. The project organized crop-centric forums for 4 target crops; conducted 5 training courses for 199 participants (28 women); held 3 business forums for sensitizing 80 persons (11 women) on climate risk sharing mechanisms; 4 consultation forums on contract farming at the provincial level targeting 81 persons (16 women) and a ToT training on establishment of producer groups.
- (iii) **ICT platform for climate risk management:** Consulting team (CS4) was mobilized in February 2023 to develop a modular ICT platform for Kampong Cham province focusing on market, weather, credit information system, CSA, and climate risk management.⁴ The team prepared an inception report based on extensive stakeholder consultations. The Mission asked the team to expedite preparation of the platform by December 2024 to allow sufficient testing in 2025.

³ CS2 = Capacity Building and Climate Smart Agriculture Consulting Firm – (e-Gen Consultants Ltd.).

⁴ CS4 = Information Communication Technology (ICT) Platform for Climate Risk Management in Agribusiness Value Chains in Kampong Cham province (Resources Development Consultants (Pvt) Ltd.)

13. **Procurement:** The CFVAC project is following ADB's Procurement Guidelines (2015, as amended from time to time) and ADB's Guidelines on the Use of Consultants (2013, as amended from time to time). The project completed procurement for 80 AC storage units, 9 irrigation schemes and 28 road subprojects. Procurement for the remaining 18 irrigation schemes and 13 road subprojects will be completed in 2024. Remaining key packages for procurement include (a) post-harvest processing equipment; (b) biodigesters and compost huts, (c) laser land leveling; (d) construction of PADC in Kampot and FMEW in Takeo; and (e) materials for NAL.

14. The Mission noted that several contractors were awarded with more than three contracts under this project. The Mission reminded EA and IAs to always evaluate technical and financial capacity of the bidders against the total requirement of ongoing contracts under the same project. The Mission also requested PMUs in each ministry to assess the performance of the contractors to assess efficiency and value for money. These assessments can be compiled and referred to in the project completion report.

15. Considering the difficulty in getting qualified bidders for the construction of biodigesters and compost huts, the Mission in consultation with MEF decided to proceed with shopping or request for quotation (ref para 10 (v)). It is noted that delegation of procurement to subnational levels remains a challenge and instead suggested for increasing flexibility of contracting at national level. The option of having framework agreements with multiple contractors will be explored. The shopping method might also address the current financing gap by reducing the overhead costs. An updated consolidated procurement plan will be submitted to ADB by [31 October 2023](#).⁵

16. The Mission confirmed with MEF that recruitment of ITP was included in the original project cost under the external monitoring package (CS6) to be financed by the GCF grant. The Mission/PMU agreed to proceed with the recruitment on a request to change the recruitment method from QCBS to CQS considering the urgency to finish all irrigation and ponds construction in 2024 (ref para 9 (i)). ADB will consult internally and revert by [10 October 2023](#). The ITP is expected to be mobilized by November 2023.

17. **Consulting services.** Following the extension of the project, the Mission together with the EA and IAs discussed proposed cost adjustments with CS1, CS2, and CS5.⁶ Proposed cost adjustment for CS5 has been agreed, PMU and MEF to endorse the contract variation to ADB by [20 October 2023](#) and ADB to approved by [27 October 2023](#), to avoid further delays. In the meantime, MEF requested PMUs to improve consulting contract management by revisiting conditions for payment (i.e., future payments to consulting firms should be linked to their performance or outputs instead of solely time-based inputs, and PMU agreed with the suggestion). The proposed variations with CS1 and CS2 are to be completed by [30 November 2023](#) and submitted to ADB by [31 December 2023](#). Both the Mission and MEF expressed concerns on the high turnover of consultants and reminded the firms of the negative impact from such actions.

18. **Social Safeguards (Category B):** The Mission confirmed that the Land Acquisition and Resettlement Framework (LARF) prepared during the project processing was followed and

⁵ Includes updated schedule for procurement for remaining irrigation schemes, rural roads, and water harvesting ponds.

⁶ CS1 = project implementation consultants (PIC); CS2 = capacity building and climate smart-agriculture consultants; and CS5 = feasibility studies and detailed engineering design consultants.

implemented during the project implementation. Detailed resettlement plans (DRPs), due diligence reports (DDRs), and donation verification reports validated by ITP were disclosed on ADB's website and compensation disbursed to all entitled affected persons (APs) prior to the start of civil works. The Mission noted at least 10 variation orders (VOs) for civil work packages specifically for rural roads (8 schemes) and irrigation subprojects. The Mission reminded EA and IAs to carefully assess and reconfirm the IR impacts and report them to ADB for all those VOs prior to the start of civil work.

19. The Mission met with GDR staff and noted that timely review and clearance of the DRP by ADB is affected by limited access to the replacement cost surveys (RCS) report. As a workaround, the Mission and GDR agreed for CARM national social safeguards officer to go to the GDR office and carry out the due diligence on the RCS information presented in the DRP on a confidential basis. The Mission thanked GDR for their cooperation in resolving the issue and requested GDR to expedite review of the remaining 4 DRPs. The Mission at the site noted that all people who received compensation as per DRPs expressed full satisfaction. The Mission stressed that availability and remobilization of social safeguards consultants under CS1 and CS5 are needed to speed up the finalization of safeguards documents for the remaining subprojects and monitoring of related activities. Submission of semi-annual social safeguards report (SSMR) is slightly delayed due to the resignation of the national social safeguards specialist under CS1. SSMR for Jul-Dec 2022 due by **31 October 2023** and SSMR Jan-Jun 2023 by **30 November 2023** and SSMR Jul-Dec 2023 by **31 January 2024**. The Mission reminded EA and MEF to reallocate sufficient budget to ensure that qualified consultants are on board till the completion of the project.

20. **Environmental Safeguards (category B).** Eleven IEEs (1 for MAFF, 6 for MOWRAM and 4 for MRD) for subprojects were prepared and disclosed on ADB website. The Mission met with PPIUs, local authorities, contractors, and about 40 villagers and 15 workers in four provinces to check EMP implementation. All stakeholders expressed satisfaction with the project without issues or complaints during construction. Civil works in ACs visited by the Mission were nearly completed. However, lids in most of the septic tanks were sealed by cement, hard to open to clean and remove septage periodically, needed for its proper functioning. In some cases, gas vents were missing, which is risky especially for sealed septic tanks. Based on interviews, some contractors did not provide drinking water, and workers used raw rainwater without boiling. The irrigation and road subprojects visited have largely followed EMP albeit an accident, indicating the need for continued efforts on safety. Detailed field observations are in Attachment 5 and the discussion on biodigesters is in Attachment 6. The Mission recommended the following actions:

- The importance of domestic compliance. The PMUs of the three IAs must consult with the MOE if any subproject falls into the requirement for approval by MOE.
- PMU and CS1 should work with contractors to address the deficits in the septic tanks noted above and record such measures in the future safeguards monitoring reports.
- The contractor must provide sufficient safe drinking water/boiled water to all workers.
- The open canal in Sopheas village should be improved for safety, for example by setting up a simple cover as access and using pole and rope or other equivalent as fence/barrier to avoid falling into canal especially near homes or school.
- For the grievance redress mechanism (GRM), the PMU of IAs must provide details of the complaint handling mechanism or project hotline, including contact details, on simple signboards at settlements, construction camps and other sites of activity.
- For biogas subprojects, the contractor must provide two additional options for farmers: to connect animal pen and/or toilet to the biodigester, both for improved sanitation and easier use.

- The contractor must provide a user booklet, poster, or other information materials to each household upon biodigester completion on a timely basis.

21. The Mission noted delays in the submission of the semi-annual environmental monitoring report (SEMR) due to the resignation of the national environment specialist early this year. A new national environment specialist under CS1 was mobilized on 1 July 2023. The revised SEMR #5 for Jul-Dec 2022 was received on 21 September 2023 and cleared by ADB on 22 September 2023. SEMR #6 for Jan-Jun 2023 was cleared by ADB on 21 September 2023. CS1 to submit the final and clean SEMR #5 and #6 to ADB by **10 October 2023**, along with the letter of endorsement from EA/IA for disclosure on ADB website. SEMR #7 for Jul-Dec 2023 is due by 31 January 2024.

22. **Gender Mainstreaming.** The project category is *effective gender mainstreaming* (EGM) and includes 14 targets and 7 actions outlined in the gender action plan (GAP). The GAP progress report was prepared and included as an appendix to the project progress report. However, the report needs improvement in terms of description and consistency of data corresponding to the GAP targets and actions.⁷ As of 30 September 2023, all 14 targets are on track, while 6 out of 7 actions are on track (Action 4 is off track). Updated GAP in Attachment 7. Note that the GAP progress report does not include the gender and development section. There is also a need to improve the organization and strengthen the GAP implementation report. The Mission noted that the turnover of consultants, particularly the CS1 gender and M&E consultants, and the limited involvement of MAFF with the Gender and Children Working Committee (GCWC) in GAP implementation contributed to the following concerns: (i) the GAP report does not provide a comprehensive and up-to-date overview of the project progress; (ii) the results data lacked a sex-disaggregated approach based on site visits; and (iii) the sectoral consultants and government focal points paid less attention to the gender-related results required by different indicators (e.g., the number of women employed in civil works, the number of women benefiting from biodigesters and compost huts, the number of women benefiting from the rehabilitated irrigation systems and rural roads, the training activities on CSA, agribusiness development skills, and green finance). The Mission met with CS1 gender consultant and M&E consultant to review, validate, and agree on actions to be taken after the MTR mission. The mission recommends the three PMUs to:

- (i) continue collecting additional data and information and improve the updated GAP implementation report based on the meeting between the ADB CARM gender team and CS1 consultants.
- (ii) strengthen monitoring and implementation of sex-disaggregated data and enhance the reporting of each GAP indicator by closely working with and mentoring the PMU, PIUs, PPIUs, and contractors on GAP results requirements.
- (iii) engage more women or female-headed households in capacity building, rehabilitated infrastructures, biodigesters and compost huts, agribusiness, and green finance initiatives.
- (iv) ensure that gender achievement reports are prepared regularly instead of using an ad-hoc mechanism. Additionally, refresh the GAP orientation for PMUs, PIUs, PPIUs and contractors to ensure a common understanding of the data to be reported.
- (v) ensure active engagement of gender focal points from MAFF GCWC in project activities, particularly in the intensification of the biodigesters promotion campaign involving women as active agents and strengthening participation of women in the selection and multiplication of climate-resilient crop varieties by involving WFN.
- (vi) considering the project's extension to 2026, additional inputs for a national gender specialist may be carefully considered based on needs, while ensuring the proper

⁷ See GAP Report Appendix.

- handover of knowledge products related to GAP implementation to the PMU during the period of preparation of the project completion report; and
- (vii) reinforce the remaining agreed actions from the 22 to 29 November 2021 loan review mission, including: (a) conducting a desk review of the gender analysis of target value chains and propose the scope of a detailed study, (b) integrating GAP activities and targets into the PPMS, (c) improving the quality of the GAP progress table and ensuring data consistency, and (d) developing an annual work plan for GAP implementation. An assessment of the social development and gender issues is in Attachment 8.

23. **Grievance Redress Mechanism:** The EA established project specific GRM, including public information booklet in 2020. GRM related to involuntary resettlement for any category B subproject was established specifically for each province. Posting of GRM mechanism was confirmed at the project site visited. The Mission reminded the PMU of IAs to keep logs of complaints received and how they were resolved, and to provide details of the complaint handling mechanism or project hotline, including contact details, on simple signboards at settlements, construction camps and other sites of activity. The Mission recommended further capacity building to implement GRM at provincial level.

24. **Financial management and audit:** The audited project financial statement (APFS) for 2022 from MAFF, MOWRAM and MRD were received on time and were found acceptable. Said reports were disclosed on ADB website. A common audit finding is to set up a realistic budget and provide sufficient justification for any deviation between actual expenditure and the proposed budget. Specific audit findings are:

- a. Under MAFF: Effective 1 January 2020, the government have adopted the Cash Basis of Accounting of Cambodian Public Sector Accounting (CPSAS) in accordance with the Prakas from the Ministry of Economics and Finance dated 14 October 2020 and the same CPSAS should be applied at the provincial and district level.
- b. Under MOWRAM: (i) The project must use sequential payment/ disbursement voucher number as reference to each payment transaction when posting into the General Ledger (GL). Any non-cash transaction entries such as adjustment, reversal or correct wrong posting, etc., the journal voucher reference shall be used to reference in the GL to ascertain the completeness of payments and make identification of missing journal entries easy. (ii) The project must check with Sage 50 accounting vendor to upgrade the accounting version, which allows a periodic review over the trail balance instead of limited to cumulative period. While upgrading of system is still pending, the Project shall prepare manual adjustments to generate the annual trial balance for supporting its annual financial reports; and reflect in the opening balances any post-closing adjustments agreed from prior year's audit.

25. The Mission requests the PMUs to address these findings from the management letters and corrective actions be monitored in the quarterly progress report as part of the financial management risk mitigation action plan. It is expected that these will be completely resolved by FY 2023 APFS.

26. **Disbursement.** The Mission noted that replenishment of advance account is taking time with several back and forth between the project accountant and ADB's Disbursement Unit. The Mission to coordinate with ADB's Disbursement Unit to conduct customized disbursement training and directly resolve issues. At the same time EA requested to increase the advance account

ceiling under the GCF grant to accommodate the implementation of biodigesters and compost huts. ADB and MEF supported the request provided the increase is justified by their expenditure plan or estimated expenditures for the next 6 months and frequent submission of withdrawal applications.⁸

27. **Reallocation of loan and grant proceeds, and adjustments to DMF indicators.** The Mission discussed with GCF, MEF, EA, and PMUs of IAs regarding preliminary estimates of cost overruns for various activities and the needed reallocations of loan and grant proceeds. It is estimated that about \$6.4 million would be required to cover additional expenses (MAFF: for PADC, FMEW, and biodigesters and compost huts; MOWRAM: establishment and training of 10 FWUCs; MRD: proposed VOs for roads; and Consulting services by CS1, CS2 and CS5) along with some reductions in DMF output indicators (e.g., biodigesters, RWHPs, laser land levelling area). Both GCF and MEF provided guidance and supported the idea of reallocations of savings from equipment, unutilized consulting and training budgets and savings from incremental operating costs. The GCF in principle supported proposed reallocations of GCF grant and requested the Mission to prepare a note in collaboration with CCSD. The Mission agreed to finalize reallocations of ADB loan and GCF grant proceeds after getting clearance of changes to the GCF grant. The Mission asked the cooperation of PMUs of IAs to efficiently use the incremental operating costs for the remaining project implementation period. The cost tables will be updated following the reallocation and an updated economic and financial analysis will be prepared to ensure the project's economic viability and sustainability. Upon receiving the request from MAFF, an endorsement letter from MEF requesting reallocation will be needed to facilitate ADB's internal approval procedure. The whole process needed for the approval of the reallocation are expected to be completed by 31 December 2023.

28. **Potential additional financing for Phase II.** Given the strong appreciation of project activities by direct beneficiaries in target provinces, all IAs requested the Mission to mobilize additional funds for phase II of the project. It is estimated that additional financing in the range of \$100-130 million would be required. For example, MRD provided all-weather connectivity to farms for only 41 ACs out of total 80 ACs and estimated a budget requirement of \$42 million to provide such connectivity to the remaining 39 ACs. MOWRAM identified that additional irrigation subprojects to cover agricultural area of all project ACs would require an additional allocation of \$32 million, including the rehabilitation of 300 RWHPs that were dropped from the current project due to budget limitations. Likewise, all target provinces identified additional ACs requiring post-harvest infrastructure facilities. MEF recognized the potential for such additional financing for phase 2.

29. **Project Performance Monitoring System (PPMS), and reporting requirements.** A new national M&E specialist was mobilized under CS1 in Q1 2023. The Mission requested the specialist to review the quarterly progress report and see where it can be improved. The Mission requested to improve the timely submission and quality of the progress report to help promptly identify issues and provide appropriate recommendations. The 2023 3rd quarterly progress report (Jul-Sep 2023) is due by 31 October 2023 and the 2023 annual progress report due by 31 January 2024.

30. **Governance and integrity issues:** The Mission reminded EA and IAs on the Schedule 5 of the loan agreement regarding anticorruption and integrity and stressed the need to pay special attention to such issues. The Mission stressed that (i) all contracts financed by ADB shall include

⁸ If turnover of withdrawal applications is less than 2x annually ADB's Controllers' Department may reduce the advance account balance.

provisions specifying the right of ADB to examine the records and accounts of EA and IAs, all project contractors, suppliers, consultants, and other service providers. The project web site must disclose implementation progress, bid notifications and results, provide grievance mechanism against any complaints, and include links to the ADB Anticorruption and Integrity Office.

31. **GCF reporting requirements:** The Mission noted that the consulting teams could not submit data required for preparing annual reports to GCF on time. The Mission asked the PMU and consulting teams to pay special attention to the GCF requirements of the annual progress reports.

32. **Compliance with loan and grant covenants:** The Mission discussed and confirmed the status of the loan and grant covenant compliance (Attachment 9).

33. **Transfer of project administration to Cambodia Resident Mission (CARM):** To provide additional direct support in project implementation, the Mission will slowly transfer administration responsibilities of the project to CARM while continuing to assist with technical matters. A formal letter will be issued to the government on the effectiveness of the transfer.

34. **Next review mission:** The EA accepted the Mission's proposal to have the next review mission in August 2024.

III. AGREED ACTION PLAN:

35. Below are the agreed actions to expedite project implementation.

Actions	Due by	Responsible	Para
2024 work plan and budget approved	15 Feb 2024	PSC	
Mobilization of independent third party or Donation Verification External Monitor	30 Nov 2023	MoWRAM / MEF	9 (i) – Agreed actions
Preparation of O&M for each AC, irrigation and road subprojects within 6 months from completion of the subproject	To be submitted together with the quarterly progress report	3 PMUs and CS1	9 (i) to (iii) – Agreed actions
Updated consolidated list of subprojects from MAFF, MOWRAM, MRD	31 Oct 2023	3 PMUs and CS1	10
Revised capacity building plan	31 Oct 2023	MAFF PMU / GDA / CS2	11 (ii) - Agreed actions
Agribusiness policies for rice, maize, cassava and mango reviewed and entry points for mainstreaming climate change adaptation and mitigation as well as gender, identified	31 Dec 2024	CS2	12 (i) - Agreed Actions
CamGAP for tropical fruit and commercialization of SRP standards	30 Nov 2024	CS2	12 (i) - Agreed Actions
ICT platform for Kampong Cham with focus on market, weather, credit information system, CSA	31 Dec 2024	EA / CS4 / PDAFF Kampong Cham	12 (iii)

Actions	Due by	Responsible	Para
and climate risk management established and operationalized			
Updated procurement plan to be submitted to ADB	31 Oct 2023	MAFF / PMUs / CS1	15
Contract variation for CS5 to be submitted to ADB	20 Oct 2023	MAFF/ PMUs / CS5	17
Contract variations for CS1 and CS2 to be submitted to ADB	31 Dec 2023	MAFF / PMUs / CS1 and CS2	17
Submission of LAR-SMR Jan-June 2023	Nov 2023	PMU/GDR	
Submission of LAR-SMR Jan-Dec 2023	Jan 2024	DIMDM/GDR	
SSMR Jul - Dec 2022 SSMR Jan - Jun 2023 SSMR Jul - Dec 2023	31 Oct 2023 30 Nov 2023 31 Jan 2024	MAFF / CS1	19
Mobilization of the national social safeguards' specialist under CS1	31 Oct 2023	MAFF/CS1	
Submission of SEMR#5 and SEMR#6 to ADB including endorsement letter to disclose the reports in ADB's website. SEMR #7 for July-Dec 2023	10 Oct 2023 31 Jan 2024	MAFF / CS1	21
Approval for reallocation of loan and grant proceeds and minor change in DMF	31 Dec 2023	PMU/ MEF / ADB	27
2023 3rd Quarter Progress Report	31 Oct 2023	MAFF / PMUs / CS1, CS2, CS4, and CS5	29
2023 Annual Progress Report	31 Jan 2024	MAFF / PMUs / CS1, CS2, CS4, and CS5	29
Next review mission	August 2024	ADB and PMU	31

IV. ACKNOWLEDGEMENTS

36. The Mission would like to express its sincere appreciation for RGC support during the mission. The next review mission is tentatively scheduled in August 2024 once ADB received the semi-annual progress report.

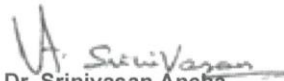
Signed in Phnom Penh, 16 October 2023

For the Royal Government of Cambodia



Dr. Sam Chhom Sangha
Project Director, CFAVC and
Deputy Secretary General
Ministry of Agriculture, Forestry and Fisheries

For the Asian Development Bank



Dr. Srinivasan Ancha
Principal Climate Change Specialist and
Mission Leader
Climate Change, Resilience and Environment
Cluster

- Attachment 1 – Mission schedule
- Attachment 2 – List of persons met
- Attachment 3 - DMF with Latest Achievement
- Attachment 4 - List of Laboratories Supplies
- Attachment 5 - Environment Safeguards Field Observation
- Attachment 6 - Discussion on Biodigesters
- Attachment 7 - Updated Gender Action Plan
- Attachment 8 - Assessment of the Social Development and Gender Issues during MTR
- Attachment 9 - Status of the Loan and Grant Covenants Compliance