



Kingdom of Cambodia



Ministry of Agriculture,
Forestry and Fisheries



GREEN
CLIMATE
FUND

CLIMATE-FRIENDLY AGRIBUSINESS VALUE CHAINS SECTOR PROJECT (CFAVC)



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

CS1 - 001 SER: Project Implementations Consulting

**FOURTH QUARTERLY PROGRESS REPORT
OCT – DEC 2021
ANNUAL REPORT 2021**

Prepared by

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in JV with SBK Research and Development

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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
GDAHP	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	Kilo-watt
KPT	Kampot province
LARF	Land Acquisition and Resettlement Framework
M&E	Monitoring and Evaluation
MAFF	Ministry of Agriculture, Forestry, and Fisheries
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
MOLMUPC	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	Tboung 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

Table of Contents

ACRONYMS AND ABBREVIATIONS	i
I. Introduction and Basic Data	1
I.1. Basic Project Information.....	1
I.2. Estimated Project Cost and Financing Plan During QR 4 2021.....	1
I.3. Project Approval, Effective and Closing Dates.....	2
II. Project Progress DURING QR 4 2021	3
II.1. Output 1: Critical Agribusiness Value Chain Infrastructure Improved and Made Climate Resilient..	3
II.2. Output 2: Climate Smart Agriculture and Agribusiness Promoted.....	10
II.3. Output 3: Enabling Environment for Climate Friendly Agribusiness Enhanced.....	17
III. Utilization of Funds (ADB, Co-financing, and Counterpart Funds) ¹	19
III.1. Contracts Awards During QR 4 2021	19
III.2. Updated Disbursement Status.....	21
III.3. Proposed Revision of Cost Estimate.....	21
IV. Project Purposes.....	21
IV.1. Likelihood of Achievement of the Project Outcome(s) and Remedial Measures	22
IV.2. Other Project Developments.....	22
V. Implementation Arrangements.....	24
VI. Consulting Services and Procurement of Goods and Works	24
VI.1. Recruitment and Performance of Consultants	24
VI.2. Procurement Plan.....	27
VI.3. Procurement of Good and Works and Performance of Suppliers, Manufacturers, and Contractors	27
VII. Assessment of Project Progress.....	28
VII.1. PPMS system Update	28
VII.2. Physical Progress.....	28
VIII. Assessment of the Validity of Key Assumptions and Risks.....	30
IX. Safeguards and Gender Progress and Compliance ³	30
IX.1. Social safeguard document preparation and submission status.....	30
IX.2. Environmental safeguard IEE preparation and submission status.....	37
IX.3. GRM Implementation Status.....	43
IX.4. Gender Action Plan Implementation.....	43
X. Compliance with Covenants During QR 4 2021	44
XI. Financial Management Action Plan.....	44
XII. Major Project Issues and Problems.....	44
XIII. Budget for Next Year of 2022	45
XIV. ADB Review Mission November 2021.	45
Annex 1: Output 1.a Irrigation	50
Table A 1.1: Ia: Irrigation Implementation Progress as per 31 December 2021	50
Table A 1.2: Ia: Irrigation Milestones as per 31 December 2021	52
Annex 2: Output 1.c: Rural Roads	55
Table A 2.1: I.c Farm Road Implementation Progress as per 31 December 2021	55
Table A 2.2: I.c Farm Road Milestones.....	59
Annex 3: MAFF Civil Work Annual Progress, per January – December 2021	65
Table A 3.1: I.d. Agricultural Cooperatives Implementation Progress per 31 December 2021	65
Table A 3.2: I.d AC Milestones as per 31 December 2021	67
Annex 4: Physical Annual Progress as a percentage per January – December 2021.....	69
Table A 4.1: Overall Project Implementation Progress MEF Format, Status: Jan through Dec 2021	69
Table A 4.2: IE Progress	70

Table A 4.3: DMF Progress.....	72
Table A 4.4: Output 1, Status from Jan through Dec 2021.....	74
Table A 4.5: Output 2, status from Jan through Dec 2021.....	76
Annex 5: Contracts planned to be awarded - Details of Utilization of funds.....	80
Annex 6: Disbursement three IAs separately - Utilization of Funds per January – December 2021.....	93
Table A 6.1: PMU: MAFF.....	93
Table A 6.2: PMU: MOWRAM.....	94
Table A 6.3: PMU: MRD.....	95
Annex 7: Safeguards Tracking Indicators per January – December 2021.....	96
Annex 8: Consultants' Mobilization per January – December 2021.....	98
Table A 8.1: Consultants' Mobilization for CS1 per January – December 2021.....	98
Table A 8.2: Consultants' Mobilization for CS2 per January – December 2021.....	101
Table A 8.3: Consultants' Mobilization for CS5 per January – December 2021.....	104
Annex 9: Social Safeguard Work Progress as of Reporting Period.....	106
Table A 9.1: Farm Roads.....	106
Table A 9.2: MAFF Subprojects.....	112
Table A 9.3: Irrigation Subprojects.....	113
Annex 10: Environmental Safeguard Work Progress as of Reporting Period.....	116
Table A 10.1: MAFF Subprojects.....	116
Table A 10.2: Irrigation Subprojects.....	118
Table A 10.3: Farm Road Subprojects.....	120
Annex 11: Gender Action Plan (Gap) Monitoring Table per January – December 2021.....	124
Annex 12: Compliance with Covenants per January – December 2021.....	141
Annex 13: Financial Management Plan per January – December 2021.....	157
Annex 14: Annual Budget Planning for 2022.....	159
Table A 14.1: MAFF's Annual Budget Planning for 2022.....	159
Table A 14.2: MOWRAM's Annual Budget Planning for 2022.....	161
Table A 14.3: MRD's Annual Budget Planning for 2022.....	163

List of Tables:

Table I.1: Project Information	1
Table I.2: Indicative financing plan CFAVC (in millions of US\$)	2
Table I.3: Project implementation arrangement	2
Table II.1: Summary of Training of Farmers in O&M of drip irrigation in 2021	4
Table II.2: Farm Road subprojects planned in 2021	5
Table II.3: AC Annual support plan	6
Table II.4: Summary of rice seed production demonstration.....	12
Table II.5: Summary progress of Cassava demonstration by QR4 2021	12
Table II.6: Table: Summary of TOT Training by QR4 2021	13
Table III.1: Current Procurement Status as During QR 4 2021 (not Contracted Yet)	20
Table IV.1 Reasons for not Achieving Project Outcomes in Original Time frame	22
Table IV.2 AWPB 2022 Per EA and IA (000 \$)	23
Table IV.3 AWPB 2022 per Fund Source (000 \$)	23
Table IV.4 Covid related Delays in Project Implementation.	23
Table VI.1 Consultants Service Arrangements	25
Table VII.1 Physical Progress as per 31 December 2021	29
Table IX.1: Social safeguard public consultations for Irrigation subprojects During QR 4 2021	32
Table IX.2: Social safeguard public consultations for Road subprojects During QR 4 2021.....	34
Table IX.3: Social safeguard public consultations for rural road subprojects o.....	34
Table IX.4: Social safeguard public consultations for subprojects under MAFF (20 AC locations)...	36
Table IX.5: EMP Implementation for Irrigation subproject implementation	38
Table IX.6: Public consultation meetings of Environmental safeguards,.....	39
Table IX.7: Environmental Public consultations for Rural Roads Subprojects	41
Table XIV.1: Progress Implementation Action Plan MoU December ADB review mission	45

List of Figures

Figure II-1: MoWRAM construction work progress	3
Figure II-2: AC Warehouse construction work progress	6
Figure II-3: Field identification for AC Support	6
Figure II-4: Lab room renovation design	7
Figure II-5: Planned location for Green house	7
Figure II-6: LAB Room renovation layout	7
Figure II-7: The Green house layout plan design	8
Figure II-8: Small group meeting on biodigester	9
Figure II-9: Training on the benefit of bioslurry	9
Figure II-10: Integration workshop on national policy for biodigester development in Cambodia	9
Figure II-11: On-farm demonstration by using bio-slurry product.....	10
Figure II-12: landholding survey for laser land leveling.....	11
Figure II-13: Field Day on rice seed production	11
Figure II-14: On-farm cassava seed production.....	12
Figure II-15: ToT training on CSA	13
Figure II-16: Farmer training on SRP	13
Figure II-17: Farmer training on CSA	14
Figure II-18: Farmer training on farm mechanization	14
Figure II-19: Practice on farm mechanization	15
Figure II-20: Farmer group and AC members training on business skill development.....	15
Figure II-21: Village meeting on FWUC establishment	15
Figure II-22: FWUC meeting on NTA	16
Figure II-23: The construction of the Training building is in progress.....	16
Figure II-24: On class training on laser land leveling	16
Figure II-25: Field practice on laser land leveling.....	17
Figure II-26: Interview on crop business forum with TVK broadcasting	18
Figure II-27: Workshop on business forum	19

Executing Agency's Project Progress Report

Reporting Period	January - December 2021	Date of Submission: 15 January 2022
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I. Introduction and Basic Data

1. This is the fourth quarterly report of the year 2021 of the Climate Friendly Agri-business Value Chain Sector (CFAVC) Project, covering the period from October to December 2021.
2. This report also can be regarded as the Annual Report 2021 as it describes for all activities the progress over the year 2021.
3. This report follows the standard ADB format for quarterly progress reports. The purpose of the report is to enable the borrower, EA, and ADB to monitor the latest progress, become aware of current problems, and assess whether the project's immediate objectives will be met.

I.1. Basic Project Information

4. The brief project information such as project name, project title, executing agency and implementing agency are shown in Table I.1.

Table I.1: Project Information

Project Number	48409-002 Loan No. 3661-CAM (COL) / 8346-CAM (EF) Grant No. 0579 - CAM (EF)
Project Title	Climate Friendly Agri-business Value Chains Sector Project (CFAVC)
Recipient	Royal Government of Cambodia
Executing Agency	Ministry of Economy and Finance; Ministry of Agriculture, Forestry and Fisheries;
Implementing Agency	Cambodia Agricultural Research and Development Institute (CARDI) General Directorate of Animal Health and Production (GDAHP) General Directorate of Agriculture (GDA) General Department Directorate of Technical Affairs of MOWRAM General Directorate of Technical Affairs of MRD

5. The CFAVC project is funded by the Asian Development Bank under loan No. 3661-CAM (COL) and the Green Climate Fund (GCF) under loan 8346-CAM (EF) and grant number No. 0579-CAM (EF) and the Royal Government of Cambodia (RGC).
6. The project is estimated to cost a total of US\$141.04 million, among these costs ADB will provide US\$90 million from ADB's ordinary capital resources (in the form of a Concessionary Loan) with US\$40 million from the Green Climate Fund (10 million in the form of a loan and 30 million as a grant). RGC will finance 7.38 million to cover the costs for activities as described in table I.2. Contribution from the beneficiaries in the form of-kind or in cashes for the biogas plant and compost huts is expected to be equivalent to US\$3.66 million equivalent (PAM, par 18, p.15). For more detail see table I.2.

I.2. Estimated Project Cost and Financing Plan During QR 4 2021

7. The indicative financial plan is presented in table I.2, which comprise of a ADB concessionary loan of \$ 90,000,000 (63.8% of the total project cost of US 141.04 million), a Green Climate Fund grant of US 30,000,000 (23.1 % of the Total project Costs), a Green Climate Fund loan of \$ 10,000,000 (7.7 % of the total Project Costs). In addition, the RGC covers 5.2 % and the beneficiaries 2.6%.

Table I.2: Indicative financing plan CFAVC (in millions of US\$)

Activity	TOTAL Budget (US\$)	ADB Loan	CGF(US\$)	
			Loan	Grant
Irrigation, Ponds and Roads	78,796,750	60,537,190	9,963,900	8,295,660
Warehouses and laboratory	5,762,800	5,762,800	0	0
Other infrastructure	1,444,650	1,330,600	0	114,050
Equipment, Materials, Goods and Implementation Costs	27,543,130	16,757,700	0	10,785,430
Incremental Operating Costs	4,681,030	4,187,100		493,930
Interest and Fees	1,460,710	1,424,610	36,100	0
Training, Workshops and Demonstrations	7,456,780	0	0	7,456,780
Biogas Plants and Compost Huts	2,854,150	0	0	2,854,150
TOTAL	130,000,000	90,000,000	10,000,000	30,000,000

8. Regarding the financing arrangements some additional conditions are as following:
- the GCF loan is to support the climate resilience of the irrigation and roads program,
 - the GCF grant is for all climate resilient activities such as bio gas, training and ICT.
 - The RGC contribution is to cover i) biogas plants and composts huts (ii) salaries of government staff working for the project; (iii) land acquisition and resettlement; (iv) monitoring (including external monitoring for safeguards and external audit and (v) taxes and duties for goods, equipment, materials, surveys and services through exemptions.
 - The farmer contribution is to contribute either in-kind or in cashes for the biogas plant and compost huts (PAM, par 18, p.15)

I.3. Project Approval, Effective and Closing Dates

9. The project approval date, LOA sign date, project effective date and closing date are presented in table I.3.
10. During this reporting period a first ADB review mission was conducted after the first Inception Mission in January 2021 before the outbreak of the Covid-19 pandemic. Chapter XIV provides more details about this mission.
11. During the recent ADB review mission the ADB Mission and IAs agreed that the extension of the project implementation period by at least 18 months is critical to overcome considerable delays in implementation caused primarily by COVID-19. The extension is also necessary to bring the project back on track from its current “at risk” status. The PMU sent the letter of request for extension of the project implementation period to the Minister of MAFF with a request to forward the letter to the Deputy Prime Minister and the Minister of MEF by 30 November 2021. The Mission requested MEF to process the letter to ADB at the earliest so that ADB management could approve the proposal for extension within December 2021.

Table I.3: Project implementation arrangement

Approval Date	29 June 2018	Elapsed Project Period (original)	Modifications
LOA Signing Date	06 Jun 2018		Not applicable
Effective Date	01 Oct 2018		
Closing Date	30 September 2024		31 March 2026
Date of last ADB review missions	First: 20 - 30 January 2020 Second: 22 – 29 Nov. 2021		

II. Project Progress DURING QR 4 2021

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

II.1.1. Output 1.a: Rehabilitation of Irrigation Schemes

12. Annex I show details on implementation progress (Annex 1a and Milestones 1.b), with the main progress developments as follows:

i. Step 1: Reconnaissance and Feasibility

13. All 27 irrigation schemes covering 15,000 ha were already identified in 2021.

14. In this reporting period for two irrigation sub-projects, Kraing Empil (200 ha) & Prey Kdouch (550 ha) under package no. MOWRAM-CFAVC-TEO-CW15.1 the project has received the NOL for the DDR from the ADB on 21st Dec 2021, more details see table A1.2 of Annex A. These two irrigation subprojects are under the process of contract awarding.

15. In this reporting period the DDR for the Trapeang Tros irrigation subproject under package MOWRAM-CFAVC-TBM-CW13.1, located in Tboung Khmum was finalised. The DDR was submitted to GDR for further submission to ADB during late Dec 2021, more details see table A1.2 of Annex 1.

16. The preparation of the DDR for the O'kamprok and Pram Kumpheak irrigation subprojects located in Kampong Cham province, Stueng Trang district under package MOWRAM-CFAVC-KPC-CW14.1 was completed and is currently in the process of submission to ITP for validation and verification, see Annex 1, table A1.2.

ii. Step 2: Topo Survey

17. Since the remobilization of the CS05 team the Topographical survey for the 18 irrigation subprojects covering command areas of 12,000 ha were completed. The 18 schemes covering 83 % of the total CFAVC target of 15,000 Ha. Clean survey data was shared to the DED team for 10 out of 18 subprojects. The topographical survey field works are expected to be behind schedule for at least one month.

iii. Step 3: DED

18. The detail engineering design for two subprojects in Tbong Khmum are ongoing

19. Since the remobilization of the CS05 team have they completed the DED for 9 out of the planned 27 irrigation subprojects (33 %) with a total area of 3,500 ha out of the planned 15,000 ha (23 %), namely the schemes of Trapeang Run, Prey Kdouch, Kraing Empil, Takoch, Kbal Teuk, Tuol Pring, Trapeang Tros, O'kamprok and Pram Kompheak

iv. Step 4: Tendering

20. The procurement of the package MOWRAM-CFAVC-KPC-CW14.1 was done and the BER will be ready by Jan 2022.

v. Step 5: Implementation

21. After earlier the rehabilitation in the first scheme (Trapenag Run) has been completed, and currently rehabilitation is underway in 3 additional schemes (Kbal Teuk (250 ha), Tuol Pring (100 ha) and Trapeang Tros (350 ha)). On average progress in these 3 schemes is 35 %, see figure II-1

vi. Step 6: O&M by FWUC

22. This activity should start in the first scheme (Trapenag Run) after the 1-year liability period of the contract is over.



Figure II-1: MoWRAM construction work progress

II.1.2. Output 1.b.1: 800 on-farm rainwater harvesting ponds commissioned

23. No activity progress awaiting RGC decision for the responsible ministry.

II.1.3. Output 1.b.2: 15 drip irrigation demonstration

24. No activity progress awaiting RGC decision for the responsible ministry.

25. The AWBP 2021 contained 20 training courses for drip-irrigation application located to each target province: Kampot (5 courses), Takeo (5 courses), Tboung Khmum (5 courses), and Kampong Cham (5 courses), see table II-1. These trainings were led by the Department of Agricultural Engineering and Machinery (DAEng). During the quarter fourth progress report period from October-December 2021, main result of achievement, total 60 mango farm owners received training on drip system operation and maintenance, and 15 of them are women.

- a. Takeo province 20 farm owners, 7 are women
- b. Kampot province 20 farm owners, 5 are women
- c. Kampong Cham 20 farm owners, 3 are women

Table II.1: Summary of Training of Farmers in O&M of drip irrigation in 20211

N	Activities	Province names	Unit	Annual Target 2021	Actual Progress in Nov 2021	Cumulative progress by Dec 2021
1	Training of farmers on drip irrigation system operation and maintenance	KPT	people	100	0	20
2		TAK	people	100	20	20
3		TBK	people	100	0	0
4		KCM	people	100	0	20
Total				400	20	60

II.1.4. Output 1.c: At least 250 km of farm roads upgraded to climate resilient standards

26. Annex 2 shows details on implementation progress (Annex 2a and Milestones 2.b), with the main progress developments as follows:

i. Reconnaissance and Feasibility

27. The Project has already identified 44 farm roads of 273.6 km (as against the project target of 250 km) for rehabilitation and improvement of climate resilience benefitting 44 ACs in terms of all-year all-weather connectivity with markets. A combination of double bituminous surface treatment (DBST) in road lengths exceeding flood levels and concrete for road lengths below the flood level is considered appropriate to minimize the cost. the choice of concrete roads for connecting ACs to markets, and DBST in place of laterite road for farms to ACs. The Mission raised a concern that 36 ACs would not benefit from such resilient farm roads mainly due to lack of funds.

28. The MRD team noted that additional ACs would be supported if savings materialize from the contracts for 44 farm roads. The farm road program planned for 2020 consisting of 8 subprojects is divided into 4 packages, with total length of 71.099 km, with details in Annex 2, table A2.1.

29. the Affected Households (AHs) for the Takeo Road subprojects under packages CW17b-CFAVC-MRD-TK3-2020 (Lot 1) and CW17b-CFAVC-MRD-TK4-2020 (Lot 2) were compensated by the GDR/MEF from the 8-10 Dec 2021. However, the civil contract has not yet been awarded awaiting official letter from the GDR to MRD confirming that the contractor can proceed with the construction works, more details see table A2.1 of Annex 2.

ii. Step 2: Topo Survey

30. For the road subprojects planned in 2021, the topographical surveys have been progressed about 95% completed, the Traffic count about 95% completed, and the Geotechnical investigation survey about 95% completed. The overall feasibility studies have been progressed 100% completed, see table A2.2 of Annex 2..

iii. Step 3: DED

31. The FS of the 20 subprojects were reviewed, finalized and submitted to MRD on the 18 Nov 21 for further action to ADB. The detailed engineering designs (DED) for the road subprojects planned in 2021 have been progressed about 73% completed, table A2.2, Annex 2.
32. 12 road subprojects with total length of 102.5 km are planned for project support in 2022, and the estimated cost for these road subprojects is of about \$ 14,350,000.00, however the DED preparation for these road subprojects are not yet started, more details see table A2.2 of Annex 2.

iv. Step 4: Tendering

33. The procurement processes were completed for these road subprojects with total contract value of \$ 8,665,818.34, see table A2.2 of Annex 2. However, the contracts for these road subprojects could not be awarded due to awaiting social safeguard clearance, more details see table A2.2 of Annex 2. Bidding was completed for the first batch of 8 farm road subprojects with a total length of 70.9 km (benefitting 2 ACs each in Kampong Cham, Kampot, Takeo, and Tbong Khmum provinces) and a contract value of \$8.67 million with 82,765 (females: 42,447) direct beneficiaries and 859,083 (females: 440,566) indirect beneficiaries. However, construction work cannot commence in any subproject because of delays associated with social safeguards (e.g., compensation payment to affected households, responding to independent third-party queries on land donation, and awaiting GDR's response to the replacement cost). The Mission requested the GDR and MRD teams to expedite the process so that construction is completed by September 2023. The Mission and MRD team noted with satisfaction that experienced contractors with high qualifications won bids for the first batch of road subprojects.
34. Of the first batch of 8 farm road subprojects, ADB already issued no-objection to the BERs for package CW17b lot 1 and lot 2 in Takeo province in November 2021. Following ADB's clearance of the DRP in September 2021, MRD may proceed to sign the contracts with the respective winning bidders with a condition that no civil works can commence until compensation to the affected households as per DRP is completed, which is expected by December 2021 according to GDR. Contracts for the remaining farm road subprojects of the first batch can be signed once ADB clears the social safeguards documents (Initial Environmental Examination [IEE] cleared already) with the same condition that no civil works should commence until compensation to affected households, if any, is completed.
35. The second batch of 20 road subprojects with a total length of 100.1 km (benefitting 4 ACs each in Kampot and Kampong Cham, 5 ACs in Takeo, and 7 ACs in Tbong Khmum), table II-2 with an estimated contract value of \$14.00 million are undergoing due diligence and DED and would be ready for bidding by 28 February 2022. The work on the final batch of 16 farm road subprojects with a total length of 102.6 km will commence in June 2022.

Table II.2: Farm Road subprojects planned in 2021

No.	Package names	Length (m)
	1-CW17a-CFAVC-MRD-KP-01-2021 (Package No.5)	743,400
	2-CW17a-CFAVC-MRD-KP-02-2021 (Package No.9)	901,600
	3-CW17a-CFAVC-MRD-KP-03-2021(Package No.9),	924,000
	4-CW17a-CFAVC-MRD-KP-04-2021 (Package No.5),	536,200
	5-CW17b-CFAVC-MRD-TK01-2021(Package No.10)	756,000
	6-CW17b-CFAVC-MRD-TK02-2021(Package No.6),	1,155,000
	7-CW17b-CFAVC-MRD-TK03-2021(Package No.6)	686,000
	8-CW17b-CFAVC-MRD-TK04-2021(Package No.10)	476,000
	9-CW17b-CFAVC-MRD-TK05-2021(Package No.10),	567,000
	10-CW17c-CFAVC-MRD-TBK-01-2021 (Package No.7)	1,141,000
	11-CW17c-CFAVC-MRD-TBK-02-2021 (Package No.7),	770,000
	12-CW17c-CFAVC-MRD-TBK-03-2021 (Package No.11)	686,000
	13-CW17c-CFAVC-MRD-TBK-04-2021 (Package No.7)	396,200
	14-CW17c-CFAVC-MRD-TBK-05-2021 (Package No.11)	203,000

No.	Package names	Length (m)
	15-CW17c-CFAVC-MRD-TBK-06-2021 (Package No.11)	394,800
	16-CW17c-CFAVC-MRD-TBK-07-2021 (Package No.11),	394,800
	17-CW17d-CFAVC-MRD-KC-01-2021 (Package No.12)	550,200
	18-CW17d-CFAVC-MRD-KC-02-2021 (Package No.12)	770,000
	19-CW17d-CFAVC-MRD-KPC-03-2021 (Package No.8)	683,200
	20-CW17d-CFAVC-MRD-KC-04-2021 (Package No.8)	1,087,800

v. Step 5: Implementation

36. Not yet started

vi. Step 6: O&M

37. No farm roads finished yet.

II.1.5. Output 1.d: 80 agricultural cooperatives have integrated adaptation measures

38. Annex 3 shows details on implementation progress (Annex 3a and Milestones 3.b), with the main progress developments as follows:

39. For the 2020 program, consisting of 20 AC Storages, the contract was signed on 9th Sep 2021 with the construction started date on 23rd Sep 2021 and completion date expected to be on 20th Jan 2022. However due to abnormal rainfall during at the end of the year, this has been disrupted the construction work activities to some extends, figure II-2. Hence the construction works for these 20 ACs could not be completed with the contract duration as specified in the construction contract, which require construction work extension. Several meetings were conducted between the project and the contractor finding out ways to speed up the construction works. The request for the extension of the construction work contracts will be prepared and submitted to the PMU by the end of Dec 2021.



Figure II-2: AC Warehouse construction work progress

40. The bidding document for the 35 2021 ACs, planning for project support in 2022, see table II.3 was prepared and was submitted to the PMU for reviewing and commenting, the document will be submitted to ADB for NOL soon.

Table II.3: AC Annual support plan

Activities	Province names	Unit	Annual Target 2021
35 ACs Planned for project support in 2022	Takeo	ACs	13
	Kampot	ACs	8
	Kampong Cham	ACs	4
	Tnong Khmum	ACs	10
			35

41. The remaining 25 ACs are under the process of identification and selection, including the detailed engineering design.

42. The AC storages have been designed to equip with solar energy to be installed with solar panels on roof top of the building. The Feasibility studies assessing the potential application for the photo voltaic among the ACs were assessed to reduce energy cost among agribusinesses in the value chain, and the FS was assessed by the National Photo-Voltaic Specialist from 22-29 Nov 2021 for Photo voltaic support During QR 4 2021, figure II-3.



Figure II-3: Field identification for AC Support

43. Since the mobilization of the CS02 National Photovoltaic engineer, activities achieved are as follows:

- a. Lab equipment, materials, chemical & reagents were approval by the project procurement.
- b. The design for Lab room renovation together with the engineering drawings and the BoQ estimations is under progress,
- c. The design for Green-House (net/shade house) together with the engineering drawings and the BoQ estimations is under progress,
- d. Material specification for greenhouse was prepared and was submitted to engineering team for bidding document preparation.

II.1.6. Activity 1.e: Strengthening infrastructure for agricultural quality and safety testing at national agricultural laboratory (NAL)

II.1.6.1. 1.e.1: Crop product quality and safety testing laboratory and lab-equipment upgraded

44. For the activity of supporting the bio-fertilizer and bio-pesticide certification & standards, progress is as follows:

- a) Preparation of the design for lab room renovation, figure II.6 shows the layout plan for the lab room renovations. The BoQ for lab renovation was prepared and the lab renovations are consisting of Bio-fertilizer/pesticide Laboratory rooms (See figure II.6 with room annotations: I, II, III and IV) and Plant tissue culture laboratory room (see figure II-6 with room annotations A, B, C, D, E and F)
- b) Preparation of the design and cost estimates for the Green house intervention, see figure II.6, the design activities are in progress and figure II.7 shows the layout plan design of the green house. It is noted that the greenhouse design dimension is not according to the original design of size 21m x 22m but due to land availability, the current design is only 4m x 1.5 m, see figure II.7 and figure II.5.



Figure II-5: Planned location for Green house

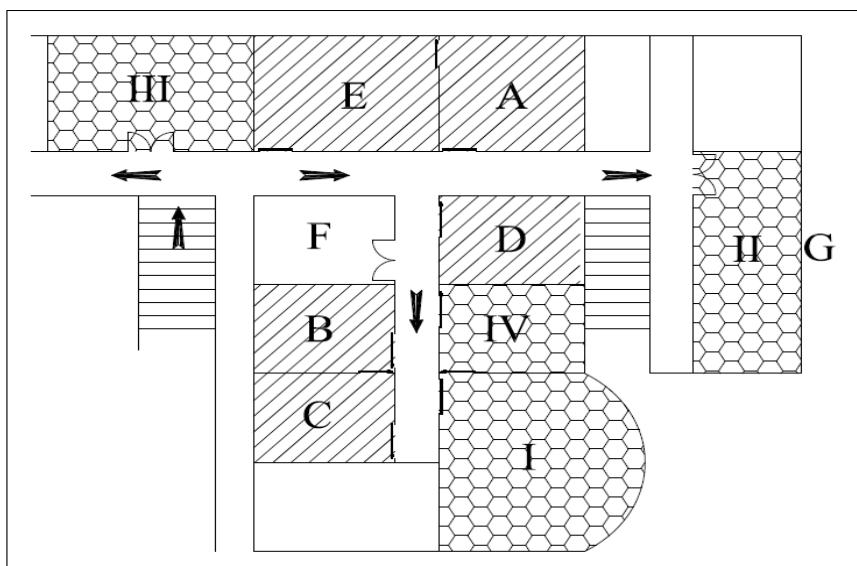


Figure II-6: LAB Room renovation layout

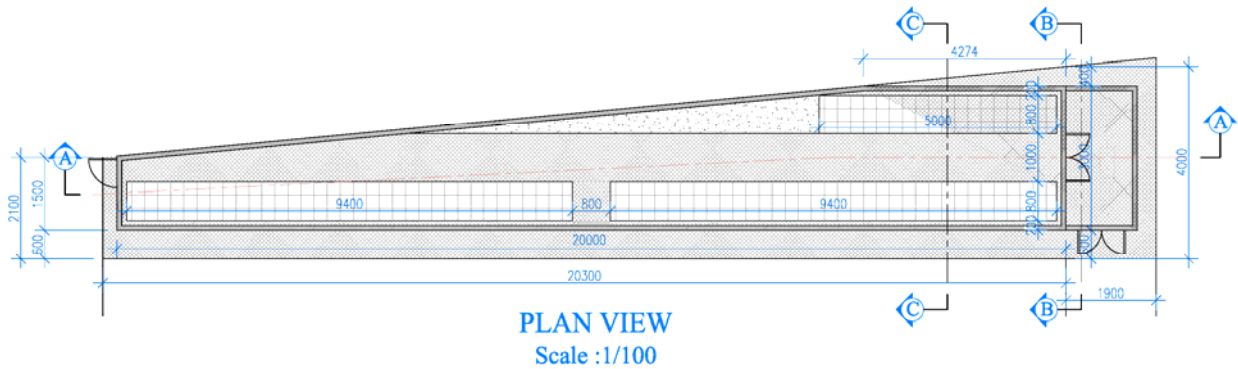


Figure II-7: The Green house layout plan design

II.1.7. Sub-target 1. e.4. Support to achieve ISO17025 Accreditation/registration

45. The AWPB 2021 includes a budget of US 1,000,000 for the supply of laboratory equipment to the bio-fertilizer and organic fertilizer and plant tissue culture laboratories. Progress has been limited due to the following situation with the implementation of this program as discussed during the recent 2021 Annual ADB review mission:
- During the recent ADB review mission conducted late November 2021, the ADB and MEF reiterated their concerns on the slow pace of the laboratory investments and urged the GDA to ensure alignment of requests for laboratory upgrades and equipment with the strategic framework for laboratory improvements at MAFF, which is under preparation with support from ADB. During this review mission it was agreed that GDA with support of the CS02 team would reassess infrastructure and equipment needs for laboratories in line with such Strategic Framework, and proposed a stepwise approach with the National Agricultural Laboratory (NAL) to help achieve ISO 17025 registration for biotechnology laboratory by focusing first on laboratories supporting biofertilizer and organic fertilizer certification, and plant tissue culture.
 - The Mission appreciated the team's efforts in 2021 in (i) conducting on-the-job training of NAL staff; (ii) drafting a national standard for biofertilizer production and quality testing; and (iii) drafting a manual on plant tissue culture. The Mission requested the team to finalize both drafts by 31 January 2022.
 - Space in the current laboratory is limited and that upgrades would be needed (estimated cost: \$100,000) to accommodate new equipment and meet ISO 17025 accreditation. The GDA team also sought support for construction of net house at an estimated cost of \$24,000. The Mission agreed that both laboratory renovation, and net house construction would be supported but the budget for such upgrades should be from the budget allocated for laboratory equipment in the approved procurement plan, and not from savings under ACs. The GDA team agreed to submit bidding documents for laboratory renovation, net house construction, and laboratory equipment for ADB review along with a status paper on laboratory renovation needs by 31 December 2021, with a view to send invitation for bids by 1 February 2022.
 - The Mission also expressed its deep concern on the fact that CS02 has so far not mobilized qualified laboratory consultants and asked the PMU to consider national consultants from other neighboring countries, if required.

II.1.8. Activity 1.f: Promoting Renewable Energy in target Cooperatives for Value Chain Improvement

II.1.8.1. Sub-target 1.f. 1. Installation of Bio digesters

46. The AWP 2021 includes for an additional 500 bio-digesters on top of the 50 from AWP 2020, which were not achieved. During the reporting period, main result of achievement as the following:

- Identification of new additional eligible and interested farmers for biogas construction through activities such as field coaching and mention on promotion and marketing and small group or village meeting, figure II-8 and figure II-9 to identify and select interest clients. Total of 819 clients (60 clients over planned of 750) has been identified and selected.
- Conducted public dissemination and awareness information raising of the biogas hut program.



Figure II-8: Small group meeting on biogas

II.1.8.2. Sub-target 1.f. 1. Installation of Compost Huts

47. The AWPB 2021 includes for an additional 375 compost huts on top of the 250 compost huts moved from 2020 which was not achieved. 21. During the QR4 2021 main achievement as the following:

- Conducted technical meeting with Dr. Srinivasan Ancha, Pollard Subsidy, Dr. Suon Sothoeun, Mr. Phuong Dara, National Bio-Slurry Specialist and Mr. Ngin Kosal, Project Manager to discuss the subsidy share of beneficiaries and the project which is agreed with PAM. The beneficiary's contribution will be paid the remaining of the cost stated in project costab.
- No compost hut installation started yet during the reporting period, due to failed in first bidding.
- Prepared second bidding document, and submitted to the Bank for further review and second NOL,



Figure II-9: Training on the benefit of bioslurry

II.1.8.3. Sub-target 1.f.3. R&D and Capacity Building for Bio digesters and Bio-slurry

48. During the QR4 2021, the result of achievement as the following:

- PPIUs in Takeo conducted 01 coaching with 22 groups of field coaching and mention on promotion and marketing with total farmers is **214** of which **98** are women on promoting biogas and compost hut program with support subsidy from the project, figure II-11.
- PPIUs in Kampong Cham conducted 04 courses of small group or village meeting to identify and select interest clients, while 03 course conducted in Kampot with total of **98** farmers, **60** are females.
- Total of 6,160 people received series of training and capacity building, promotion & marketing, monitoring & evaluation, and Innovation & value chain improvement on biogas and compost hut use and management



Figure II-10: Integration workshop on national policy for biogas development in Cambodia

- Distributed demonstration inputs to 75 model farmers to conduct a model farm demonstration in Kampong Cham, Tboung Khmum, Takeo, and Kampot province, focusing on compost making, figure II-10.
- Distributed demonstration inputs to 10 key farmers for conducting integrated farming system demonstration in Kampong Cham, Tboung Khmum, Takeo, and Kampot province, applying adaptation, resilient techniques, with difference application methodologies in order to improve family's income from using of bio-slurry production (composting) in target provinces.
- Published 4,256 leaflets of Promotion and Marketing materials, distributed to potential farmers through conducting village meetings, training, and workshop at the community to share the benefits of biodigester and compost hut program
- Published 20 information signboards and distributed to PPIUs and installed in public areas to promote the benefits of biodigester and compost hut and marketing the biodigester and compost hut program.
- Installed total of 3 Biodigesters and 3 compost huts for R&D demonstration in Kampong Cham, Takeo, and Kampot with min purpose to introduce the farmers 'friend model of biodigester design and improve the bio-slurry development.
- Reviewed relevant existing document, and developed first draft of tool kit for bio-slurry management manual
- Conducted meeting and discussion with relevant stakeholders on biodigester policy development and bio-slurry management tool kit manual.
- Conducted integration and dissemination workshop to relevant stakeholder from target provinces of the project regarding to national policy on biodigester development in Cambodia. Total of 40 people from difference areas invited to join the workshop



Figure II-11: On-farm demonstration by using bio-slurry product

II.2. Output 2: Climate Smart Agriculture and Agribusiness Promoted

II.2.1. Output 2.a: Deployment of climate-resilient varieties

II.2.1.1. Sub-target 2.a.1: 3 additional climate resilient varieties of rice and maize released.

49. During the ADB Mission noted with appreciation that CARDI and CS2 teams conducted 128 on-farm demonstrations (38 plots in 2020 and 90 plots in 2021) for seed production and multiplication of 3 climate-resilient varieties of rice (Phkar Rumduol- PRD, Phkar Mealdei-PMD and CAR 16). The teams also conducted 10 on-farm demonstrations (2 plots in farmer fields and 3 plots at highland conservation seed development center in Kampong Cham and 5 plots in farmer fields in Tboung Khmum province) of 4 climate-resilient and disease-resistant cassava varieties (KU-81, KU-50, Rayong-9 and Hany Bong-90) in 2021. No work was conducted on maize and mango yet.
50. The Mission expressed strong concern to CARDI team regarding long delays in finalizing the terms of reference for CS3 package to assist CARDI in multiplication and deployment of climate resilient varieties of rice (CAR 16 and Phkar Mealdei), one variety of maize (CM1), CMV (cassava mosaic virus) tolerant cassava and high yielding double season mango varieties amenable for floral manipulation. The Mission noted that CARDI should decide on the type and level of support needed from IRRI or other organizations, including the types of international and national experts to deliver the tasks. IRRI will then be invited to submit a technical and financial proposal to develop and deploy climate resilient varieties and assist with implementation of capacity building program on CSA. The Mission asked CARDI to submit the updated terms of reference by 31 December 2021 prior to releasing the request for proposal, latest by 1 February 2022. The Mission noted that the support from IRRI is not to conduct basic

research on screening germplasm but to focus more on multiplication of advanced lines of climate resilient varieties and their deployment in four target provinces. The Mission also stressed that individual specialists may be considered to assist CARDI, if IRRI is unable to provide the support needed by CARDI. The PMU requested the Mission to consider revising the procurement method from NCB to shopping, based on experiences from the rice commercialization project. The Mission asked the CS2 team to assist CARDI's seed commercialization program by developing a policy brief by April 2022 with recommendations on the legal framework to develop intellectual property rights and partial cost recovery for the institution.

II.2.1.2. *Sup-target 2.a.2 Land levelling of 4,000 hectares and demonstration (through procurement)*

51. The GDA and CS2 teams identified 500 ha for laser land levelling but no bidding was initiated for the actual work. The Mission asked the CS2 team to prepare a strategy paper on laser land levelling with annual targets to achieve the project target of 4,000 ha, including budget for civil works and budget for mapping. The Mission asked the team to collaborate with rice commercialization project, especially in terms of comparison of cost estimates and finding potential contractors for laser land levelling. Followed up data collection for laser land leveling, conducted landholding survey and mapping.



Figure II-12: landholding survey for laser land leveling

52. Total of 418.58 ha of paddy field identified for laser land leveling, figure II-12, from this figure total of 251.71 hectares are in size bigger than 15 Acre or 0.15 ha; and total of 148.58 ha are less than 15 Acre or 0.15 hectares in size with detailed as below:

53. Takeo with total of 125.89 hectares with total of 935 households, 397 are women
- Kampot with total of 67.99 hectares with total of 467 households, 240 are women
 - KCM with total of 166.4 hectares with 731 households, 258 are women
 - Tboung Khmum with total of 58.3 hectares with total of 660 households, 308 are women

II.2.1.3. *Sub-target 2. a.2 Conducting on-field rice seed production demonstration during QR 4 2021*

54. The ADB Mission asked the CS2 team to prepare a strategy paper on laser land levelling with annual targets to achieve the project target of 4,000 ha, including budget During the progress report of QR4 1st October-31st December 2021, main activities achieved as the following: Key farmers selection and input distribution

- Meet and discuss with the PPIUs at target provinces to arrange rice seed production demonstration and selected 90 key farmers for conducting on-field demonstration on rice seed production, figure II-13.
- Total of 53 demonstration of PRD seed production demonstration harvested with average yield of 5.23t/ha at 14% for Takeo province, followed by Kampot of 4.28t/ha and Tboung Khmum 3.30 t/ha respectively.
- Total of 21 demonstration of PMD seed production demonstration harvested with average yield of 4.48t/ha at 14% of MC for Kampot and followed by Tboung Khmum province, table II-4.
- Total of 16 demonstration of CAR16 seed production demonstration harvested with average yield of 3.92t/ha for Tboung Khmum and followed by Kampot 3.62t/ha at 14% of MC respectively



Figure II-13: Field Day on rice seed production

Table II.4: Summary of rice seed production demonstration

N	Province	Number of demos				Average Yield, t/ha (at 14% of MC)		
		PRD	PMD	CAR16	Total	PRD	PMD	AR16
1	Takeo	19	-	5	24	5.23	-	0
2	Kampot	12	6	5	23	4.28	4.48	3.61
3	Kampong Cham	12	7	2	21	3.25	3.76	5.00
4	Tboung Khmum	10	8	4	22	3.30	3.75	3.92
	Total	53	21	16	90			

II.2.1.4. Sub-target 2.a.3: Conducting on-field cassava seed production demonstration

55. In the AWPB 2021, the project in cooperation with Department of Industrial Crop/GDA and PPIUs in kampong Cham and Tboung Khmum provinces planned 10 cassava seed production demonstration in Kampong Cham and Tboung Khmum province to assess quality planting material for further cassava production at those areas. Four's cassava planting materials used for this demonstration (i) Rayon-9, (ii) 81, (iii) KU-50, and (iv) Hauty Bong-60. During the reporting, the team discussed with PPIUs in charge to identify and selected all demonstration plots as stated in table bellow. Cassava seed or planting material has been distributed to selected farmers and already planted, table II-5. During the reporting, of QR4 period from 1st October- 31st December 2021, main result of achievement as the following:



Figure II-14: On-farm cassava seed production

- Follow up with 7 key farmers (2 in KCM and 5 in TBK) including 3 demo plots in Chamkar Leu Development Center under responsibility of GDA on-farm demonstration on cassava seed demonstration, figure II-14.
- Farmer's field observation found that, KU-81 is more resistance to yellow leaf mosaic virus infection followed by KU-50 and Rayong-9, Hauty Bong-60, however field observation at Highland Crop Seed Conservation at Boskhnor Center, Kampong Cham province found that all cassava varieties demonstration is have no virus infection.
- During the field visited all demonstration plots does not observe any pathogen transmitted by vector at all, the most plant's disease are transmitted by planting material which is contaminated with disease

Table II.5: Summary progress of Cassava demonstration by QR4 2021

N	Province	Number of demo (ha)				Total Demo	Planting material (bunches)			
		Rayon 9	81	KU50	Hauty Bomng-60		Rayon-9	81	KU-50	Hauty Bong-60
1	KCM	1	1	0	0	2	300	300	-	-
2	TBK	3.25	1.75	0	0	5	975	525	-	-
3	GDA	0.75	0.75	0.75	0.75	3	225	225	225	225
	Total	5	3.5	0.75	0.75	10	1,500	1,050	225	225

II.2.2. Output 2.b: Strengthening capacity in climate friendly production practices and technologies

56. This activity, the project supports the deployment of a farmer-oriented training program reaching to at least 40,000 farmers (16,000 women) trained on (i) CSA and business development skills, (ii) 50% of 40,000 farmers trained on SRP; (iii) 20% of 40,000 farmers trained on farm mechanization and agricultural conservation; and (iv) 500 mango farm's owners trained on

CamGAP standard and compliant for exportation, and 500 FWUCs/FWUGs representatives trained on O&M on their irrigation schemes and on irrigation service fee management.

II.2.2.1. Sub-Target 2.b.1: TOT training in Climate Smart Agriculture During QR 4 2021

57. AWPB 2021, total of 80 people from PPIUs will receive training of trainer (TOT) on the following topics of CSA, SRP, Farm Mechanization including Agriculture Conservation, CamGAP for tropical fruit (Mango), and Agribusiness Development Skills, figure II-15. The trained staff will provide continual training on the same topics to farmers in their target provinces. During the QR4 progress report from 1st October to 31st December 2021, main result of achievement as the following, table II-16:



Figure II-15: ToT training on CSA

- National TOT training for 32 staff from GDA
 - a. SRP TOT training for 16 staff from GDA
 - b. CSA TOT training for staff from GDA
- Provincial TOT training 80 staff from PPIUs of target province,
 - a. SRP TOT training
 - b. CSA TOT training
 - c. Agriculture Machinery O&M TOT training
 - d. TOT training on AC Leadership and management
 - e. TOT training on AC marketing principles
 - f. TOT training on Post harvest technology

Table II.6: Table: Summary of TOT Training by QR4 2021

No	Events' topics	Types of events	Venue (Province)	No. Participants	
				Total	Female
1	ToT on Sustainable Rice Platform	Training	Target province	16	5
2	ToT on O&M Agricultural Machinery	Training	Target province	18	2
3	ToT on CAMGAP of Mango	Training	Target province	12	3
4	ToT on ACs Leadership and Management	Training	Target province	20	3
5	ToT on ACs Marketing Principles	Training	Target province	20	7
6	ToT on Post-Harvest Technology	Training	Target province	10	4
12	ToT on Climate Smart Agriculture	Training	Target province	16	5
	Total			112	29

II.2.2.2. Sub-target 2. b.2. Training of 20,000 Farmer in SRP Compliance

58. The AWPB 2021 calls for a total of 100 trainings for farmer on Sustainable Rice Platform (SRP) practice. The training allocated to as the following province: Kampt-23; Takeo-37; Tboung Khmum-26, and Kampong Cham-14 trainings courses. The trainings required to be conducted at the community level with 30 trainees per training (or 3,000 farmers) with cost of 1,500 US dollars per training. The courses focus on the rice cultivation compliance SRP performance practices. During the QR4 progress report from 1st October to 31st December 2021, main result of achievement as the following, figure II-16:



Figure II-16: Farmer training on SRP

- Prepared budget breakdown for training of farmers
- Completed schedule for training of
- Total of 2,130 farmers across target provinces received training on SRP compliance and practices, from this 1,280 are women

II.2.2.3. Sub-target 2.b.3: Training of 20,000 Farmers in CSA practice and technologies

59. The AWPB 2021 calls for a total of 150 training of farmers (Kampot-34; Takeo-56; Tboung Khmum-39; Kampong Cham-21) on climate smart agriculture (CSA), figure II-17. The trainings required to be conducted at the community level with at least 30 farmers (or 4,500 farmers) with cost of 1,500 US dollars per training. The training course was mainly centered on CSA application and practices for rice, maize and cassava. During the QR4 progress report from 1st October to 31st December 2021, main result of achievement with total 135 farmers received training on climate smart agriculture (CSA) as following:



Figure II-17: Farmer training on CSA

- Takeo province 50, from this 15 are women
- Kampot province 30, from this 12 are women
- Kampong Cham province 30, from 10 are women
- Tboung Khmum 25, from this 8 are women

II.2.2.4. Sub-target 2. b.2. Training of 500 farmers in CamGAP for Mango During QR 4 2021

60. The AWPB2021 calls for a total of 20 training courses on CamGAP for tropical fruit (Mango) and allocated as the following: Kampot (6 courses), Takeo-3, Tboung Khmum -5, and Kampong Cham-6 courses. The training will focus on only selected mango farms in targeted agriculture cooperatives and or mango farm association in target province. The trainings led by the Department of Plant Protection and Phytosanitary (DoPPS) and Department of Horticulture. At least 20 mango farmers per training course with total cost of 1000 US dollars. During the QR4 progress reporting from 1st October to 31st December 2021, main result of achievement as the following:

- Meet with IA-GDA Director and Plant Protection and Phytosanitary team to discuss on
- Prepared annual workplan and budget for training to farmers on CamGAP (Mango)
- Training to farmers on CamGAP yet conducted.

II.2.2.5. Sub-target 2.b.3. Training 9,500 farmers in farm mechanization and conservation

61. The AWBP 2021 calls for a total of 30 training courses and were allocated for each province namely: Kampot (8 courses), Takeo (10 courses), Tboung Khmum (6 courses), and Kampong Cham (6 courses) which led by Department of Agricultural Engineering (DAEng). The main topic of training including (1) Storage unit operation and management, (2) Land levelling including laser technology, (3) O&M of agricultural machinery, (4) Agricultural production conservation, and (5) post-harvest technology. The training required 25 farmers with cost of 1,500 US dollars per training. During the QR4 progress report from 1st October to 31st December 2021, main result of achievement as the following, figure II-18 and figure II-19;



Figure II-18: Farmer training on farm mechanization

- Preparing concept note for TOT training for national and provincial team. Total of 16 staff (3 staff from each PPIUs and 4 staff from DAEng). The successful trainers will continually organize and conduct training on the same topics to farmer groups and AC members on farm mechanization and conservation agriculture
- Prepare annual workplan and budget for training for farmers on farm mechanization and agriculture conservation including the schedule for training of farmers on Farm Mechanization for 4 targeted provinces
- Total of 350 farmers, 25 are women, received training on farm mechanization including agriculture conservation



Figure II-19: Practice on farm mechanization

II.2.2.6. Sub-target 2.b.4. Training 20,000 Farmers in Agribusiness development skills

62. The AWPB 2021 calls for a total of 48 training focussing on Agribusiness Development Skills (ABDS). The training mainly focused on (1) Leadership and management, (2) Business development plan, (3) Simple bookkeeping and accounting, (4) Annual report writing, and (5) basic principle of ACs marketing. The training allocated to Kampot-11, Takeo-18, Tboung Khmum-12, and Kampong Cham-7 trainings, the training will lead by DACP and PDAFF. The training required 25 farmers with cost of 1,500 US dollars per training. During the QR4 progress reporting from 1st October to 31st December 2021, main result of achievement as the following, figure II-20:



Figure II-20: Farmer group and AC members training on business skill development

- Meet with Department of Agriculture Cooperative Development and Promotion (DACDP)/GDA and PPIUs teams and discuss on:
- Prepared annual workplan and budget for training to farmer groups and AC's board and their members on business development and other relevant topics.
- Total of 51 training events will be delivered to farmer groups, AC's board and their members
- Total 150 AC board and members, 48 are women, received training on agribusiness development skills and AC leadership and management

II.2.2.7. Sub-target 2.c.1. 27 FWUC establishment and made full operational during QR 4 2021

63. The AWPB2021 calls for a total of 18 FWUCs to be established, figure II-21 (10 carried forward from 2020, and 8 FWUCs planned in 2021). The current status of this target is as follows:

- Completed 2 FWUCs establishment in Kampot (100% completion)
- Completed 2 FWUCs establishment in Kampot (14% completion)
- Completed 2 FWUCs establishment in Tb. Khmum (14% completion)
- Completed 2 FWUCs establishment in Kg. Cham (75% completion)
- Completed 2 FWUCs establishment in Takeo (75% completion)
- Dissemination on sub-degree 31 of FWUC establishments in Tboung Damrei and Kampong Raing schemes total of 100 community people participants of whom 32 are women



Figure II-21: Village meeting on FWUC establishment

II.2.2.8. Sub-target 2.c.2. 500 FWUC's representative developed capacity on O&M

64. The AWPB 2021 calls for 200 FWUC's representatives and number of their members to be trained ty in operation and maintenance their irrigation systems including service fee management (ISFM), figure II-22. During the QR4 from 1st October to 31st December 2021, main achievement as the following:

- Produced maintenance manual of Trapeang Run;
- Prepared O&M work plan for ADB;
- Final reviewed the proposal for FWUC capacity building;
- Not conduct yet training to FWUC representative yet



Figure II-22: FWUC meeting on NTA

II.2.3. Output 2.c: Promoting farm mechanization and extension

II.2.3.1. Sub-target 2.c.1. PADC and MEW construction

II.2.4. Measures

65. Annex 3 shows details on implementation progress (Annex 3a and Milestones 3.b), with the main progress developments as follows:

66. The Mechanization Egnieering Workshop (MEW) under contracts CW7/CFAVC/MAFF/2021/01 (MEW), CW7/CFAVC/MAFF/2021/02 (MEW) and CW7/ CFAVC/MAFF/2021/03 (MEW) in Kampot, Tbong Khmum and Kampong Cham provinces respcectively are under construction progress, figure II-23. The PADCs under contracts CW-4/CFAVC/MAFF/2021/08 (Training building for PADC), CW-4/CFAVC/MAFF/2021/09 (Training building for PADC) and CW-4/CFAVC/MAFF/2021/10 (Training building for PADC) in Takeo, Tbong Khmum and Kampong Cham provinces.



Figure II-23: The construction of the Training building is in progress

67. The contracts for the three MEW and three PADCs were signed on 16th Aug 2021 with the construction started date on 30th Aug 2021 and completion date on 29th Dec 2021, the construction works are going on. However due to abnormal rainfall during at the end of the year, this has been disrupted the construction work activities to some extends. Hence the construction works for these 3 MEW and three PADCs could not be completed with the contract duration as specified in the construction contract, which require construction extension. Several meetings were conducted between the project and the contractor finding out ways to speed up the construction works. The request for the extension of the construction work contracts will be prepared and submitted to the PMU by the end of Dec 2021 by the contractor.

II.2.4.1. Sub-target 2.c.2. Training on laser land leveling

68. Land preparation is one of CSA supporting part. Additionally, series of framer training on laser land levelling across target provinces been organize and conducted by Department of Agriculture Engineering and Machinery, figure II-24 and figure II-25. During the QR4 progress reporting of 2021 from 1st October to 31st December 2021, main result of achievement with total 135 farmers from AC members and farmer group across target provinces received training on laser land levelling:

- Takeo province 50, from this 15 are women
- Kampot province 30, from this 12 are women
- Kampong Cham province 30, from 10 are women



Figure II-24: On class training on laser land leveling

- Tboung Khmum 25, from this 8 are women

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

69. Under this output, the activities support in the creation of an enabling policy and regulatory environment for agribusinesses, and identification of opportunities for private sector engagement in climate change mitigation and adaptation, and provision of improved climate information services to allow farmers to better plan their cropping season. This output consisted of three key activities (i) sub-target 3.a.1: formulating climate friendly agribusiness policies and standards; (ii) sub-target 3.a.2: promoting green finance and risk sharing mechanisms, and (iii) sub-target 3.a.3: supporting climate risk management through information and communication technologies (ICT).



Figure II-25: Field practice on laser land leveling

II.3.1. Activity 3.1: Formulating climate friendly agribusiness policy and standards

70. In Cambodia there is a need for agribusinesses to achieve competitive advantage, to realize economies of scale and continuity of supply, and to break into new markets. To facilitate competitiveness and growth among agri-businesses, enabling conditions must be set. Any agribusiness policy would provide stability in the sector to encourage private investment (including “green” investment) and should fully integrate climate change concerns, to imprint a climate friendly vision for businesses in the sector. The policy should promote both mitigation and adaptation opportunities and socially appropriate best practices.

II.3.1.1. Sub-Activity 3.a: Climate Smart and Gender-Responsive Agribusiness Policy During

71. CS2 have been liaising with the DoPS and the DoAI. These departments of MAFF have not yet decided if the CFAVC project should support the development of separate policies for individual commodities or an overall policy framework for Agribusinesses building on the existing Industrial Development Policy 2015 to 2025. If MAFF wishes for support on individual commodity policies, CFAVC will work on suggesting improvements to the existing Rice and Cassava policies and on developing policies for Mango and Maize. The TOR that has been proposed for the Policy Study assume that CFAVC will assist MAFF to develop individual commodity policies. The TOR would need to be changed if MAFF wishes support for an overall agribusiness. During the Qr4 progress report from 1st October to 31st December 2021, main result of achievement as the following:

- Meeting with Department of Planning and Statistic to discuss and finalized on TOR for policy study
- Reviewing existing relevant documents
- Meeting with Director of Planning and Statistic Department to review ToR for policy study and formation based on input gathered from the technical working group meeting
- Prepared for local consultant selection

II.3.1.2. Sub-Activity 3.b: CSA policy drafted and reviewed by MAFF and joint endorsement

- Meet with Planning and Statistic and GDA team to discuss on inception working process including review relevant existing policies documents related to ASEAN climate smart agriculture (CSA) practical guideline

II.3.1.3. Guidance manual for climate-neutrality and adaptation standard for agribusiness operation development During QR 4 2021

- The activity has not started yet.

II.3.1.4. Development of IDP strategies for climate-friendly agribusiness

- The activity does not undertake yet

II.3.1.5. Sub-Activity 3.a.2 Standards Formation During QR 4 2021

- Review existing relevant document regarding to bio fertilizer
- Review existing relevant document regarding GAP for tropical fruit
- Developed first draft of bio fertilizer production and quality testing
- Developed first draft of tool kit for bio-slurry management manual

II.3.1.6. Sub-Activity 3.a.3: CamGAP for tropical fruit standards drafted and endorsed

- No new activities to be reported upon.

II.3.1.7. Sub-Activity 3.a.4: CamGAP for organic fertilizer standards drafted and endorsed

- No new activities to be reported upon.

II.3.2. Output 3.2: Promoting green finance and risk sharing mechanism

72. Private sector participation in agribusiness value chains in Cambodia is currently low, due to a difficult business environment in the target provinces. Linkages between producers and processors or traders remain weak. Furthermore, there are no adequate risk-sharing mechanisms between government, local producers and the private sector, meaning that smallholders are often left bearing a disproportionate amount of risk. The project will make recommendations to fill these current gaps based on lessons learned and feasibility assessments from previous and ongoing projects, and to introduce innovative mechanisms that can be applied in the project sites. The project will support in (i) sub-target 3.b.1: creating an enabling environment for PPPs in agribusiness in the four value chains; (ii) sub-target 3.b.2: identification of incentives for private sector participation in agribusiness particularly improving the private sector's access to green finance and ways to reduce the risk aversion of commercial banks; and (iii) sub-target 3.b.3: reducing the financial risks associated impacts climate change on the raw material base

II.3.2.1. PPP-Initiative Agribusiness Policy including feasibility for 8 PPP projects

73. The PPP Framework should be based on the National PPP Framework being developed by MEF. The project will support MAFF ensuring the national framework of PPP develop align with export-oriented crop commodities and other high value-added crops. During QR4 progress report from 1st October to 31st December 2021, the result of achievement of PPP framework development as the following:

- Reviewed existing relevant PPP document
- First drafted PPP framework aligned with MAFF strategic policy
- Submitted to the project for first review and further recommendation
- Developed 2 ToR for Mango and Maize study and submitted to the project for further review

II.3.2.2. Crop Centric Forum (Crop business forum) organized

74. The AWPB 2021 calls to organize and conduct 5 crop centric forum support to producer group establishment and link with the private sector in target province, figure II-26 and figure II-27. The business forum organizes and conducted with participants from different stakeholders such rice millers, buyers/collectors, traders and processors that based on identified crop commodities. During the QR4 progress of 2021, main result of achievement as the following:



Figure II-26: Interview on crop business forum with TVK broadcasting

- Organize and conducted 5 business forums with total of 198 participants, 24 are women. The forum conducted across target provinces as the following:
 - a. Business forum for cassava organize and conducted in Tboung Khmum and Kampong Cham province with total participants of 97 people, 6 are women. The participants come from different stakeholders such producers (AC members and cassava associations), buyers/collectors, traders and processors, and member of Cambodia Chamber representative in kampong Cham and Tboung Khmum provinces.
 - b. Business forum for rice organize and conducted in Takeo province with total of 41 participants, 7 are women which is come from different stakeholder (AC members, and rice millers-Sok Keo rice Mill), and chamber of commerce representative in Takeo province.
 - c. Mango forum conducted in Kampot province, with total of 39 participants, 3 are women. The participants come from various stakeholder; producers, AC representatives and private partners including Department of Commerce in Kampot province.
- One contract farming on Cassava production in preparing process between AC- Cassava producer and processing cassava power (Cassava Flour Manufacture) in Suong City, Tboung Khmum Province. It is in process of price negotiation stage.
- Sub-target 3.c: 50 staff from financial institutions trained in CSA and green finance The Specialist just mobilized in early July 2021
- Reviewed existing relevant document on green finance and climate smart agriculture
- Developed first draft of training material
- Drafted NTA questionnaire on green finance and CSA training for financial institution staff



Figure II-27: Workshop on business forum

II.3.2.3. Sub-target: 3d. 30 agribusinesses, trained on green finance and CSA

- The Specialist just mobilized in early July 2021
- Review potential AC for selection for training on green finance and CSA

II.3.2.4. Sub-target 3e. 20,000 households, provided with information on climate risk sharing instruments

- No activity undertaken yet, waiting for the mobilization of the CS04 consultant package.

III. Utilization of Funds (ADB, Co-financing, and Counterpart Funds)¹

III.1. Contracts Awards During QR 4 2021

75. Table III.1 shows the procurement contracts in progress as per 31 December 2021 while Annex 5 shows the total contracts.
76. As of 29 November 2021, the project awarded contracts worth of \$16.47 million (11.7% of the total project cost).

Table III.1: Current Procurement Status as During QR 4 2021 (not Contracted Yet)

Contract Number	Activity	Current Progress
MAFF	Civil works	
CW7/ CFAVC/MAFF/2021	The Construction of Mechanization Workshops (not including major & minor equipment) & Supervision-CW7, Lot 1: Kampot/01 Lot 2: Tbong Khmum/02 Lot 3: Kampong Cham/03	Letter of acceptance and contract agreement (April 2021) <ul style="list-style-type: none"> •26 July 2021, Request NOL to ADB •30 July 2021, Received NOL from ADB •16 Aug 2021, Contract Signed PMU-MAFF with Hout Chhoeun Co.ltd •30 Aug 2021, Works Contraction •29 Dec 2021; Completed works construction
CW3a/ CFAVC/MAFF/2021	The Construction of the Agricultural Cooperative Storage 20 units for 4 Lots in 4 provinces, CW3a/CFAVC/MAFF/2021 Lot 1: Kampot/04 Lot 2: Takeo/05 Lot 3: Kampong Cham/06 Lot 4: Tbong Khmum/07	Revision of BER and PRC minutes (April 2021) Prepared and sent letter of extension of Bid Validity and Bid Security (May) Provide clarification to ADB about BER (by email, June 2021) <ul style="list-style-type: none"> •30 Aug 2021, Request NOL to ADB •08 Sep 2021, Received NOL from ADB •09 Sep 2021, Contract Signed PMU-MAFF with Hout Chhoeun Co., Ltd. •23 Sep 2021, Works contraction •20 Jan 2022; Completed works construction
CW-4/ CFAVC/MAFF/2021	The Construction of Training Building of the Provincial Agricultural Development Center (PADC), for three lots in 3 provinces, CW-4/ CFAVC/MAFF/2021 Lot 1: Takeo/08 Lot 2: Tbong Khmum/09 Lot 3: Kampong Cham/10	Revision of the BER (April) Communicate with MEF about the revision of BER (May) Follow-up with MEF on reviewing the BER <ul style="list-style-type: none"> •26 July 2021, Request NOL to ADB •30 July 2021, Received NOL from ADB •16 Aug 2021, Contract Signed PMU-MAFF with Hout Chhoeun Co., Ltd. •30 Aug 2021, Works Contraction •29 Dec 2021, Completed Works Construction
CW-19a/ CFAVC/MAFF/2021	The Supply, Installation and Commissioning of 500 units Bio digesters and 250 units of Compost Huts, CW-19a/CFAVC/MAFF/2021 Lot 1: Kampot/01 Lot 2: Takeo/02 Lot 3: Kampong Cham/03 Lot 4: Tbong Khmum/04	Revised the Bid document (May 2021) <ul style="list-style-type: none"> •7 May 2021, NOL by ADB •11 June 2021, Advertising Bid (Phnom Penh Post newspaper, •28 June 2021, Pre-meeting PMU with Contractors •12 July 2021, Bid Opening •17 Sep 2021, PRC Meeting to review and recommendation on BER •MEF is reviewing on BER for final approval before submit to ADB (Sep 2021).
Consulting Service Package 4 (CS4)- Information and Communication Technology (ICT)		Evaluation of 12 EOI for recruitment (April 2021) Shortlisting of qualified (May 2021) Answer queries from eGen about the availability. Mobilization of 3 experts in CS2 (May) Follow up with MEF about review report of Consulting Evaluation Committee on shortlisting for consulting services (June 2021)

Contract Number	Activity	Current Progress
		<ul style="list-style-type: none"> • Submit Shortlisting to ADB of Consulting firm for ICT in July 2021) • PRC-MEF is reviewing on CEC report for final shortlisting (Sep 2021).
MoWRAM	Civil Works	
CFAVC-MOWRAM-TBM-CW13.1-		Construction and implementation 30 September 2021
CFAVC-MOWRAM-TEO-CW15.1-		Under BER Extension and wait for DDR approval
MRD	Civil Works	
CW17b-CFAVC-MRD-TK3-2020		Invitation to bid 19 Mar 2021, bid opening schedule 12 May 2021, BER submitted to ADB for NOL (5 Jul-2021)
CW17b-CFAVC-MRD-TK4-2020-		Invitation to bid 19 Mar 2021, bid opening schedule 12 May 2021, BER submitted to ADB for NOL (5 Jul-2021)
CW17c-CFAVC-MRD-TBK-5-2020		Invitation to bid 2 June 21, bid opening scheduled 2-Jul-2021, BER submitted to ADB for NOL 29-Jul-21
CW17c-CFAVC-MRD-TBK-6-2020		Invitation to bid 2 June 21, bid opening scheduled 2-Jul-2021, BER submitted to ADB for NOL 29-Jul-21
CW17d-CFAVC-MRD-KC7-01-2020		Invitation to bid 2 June 21, bid opening scheduled 2-Jul-2021, BER submitted to ADB for NOL 29-Jul-21.
CW17d-CFAVC-MRD-KC8-02-2020		Invitation to bid 2 June 21, bid opening scheduled 2-Jul-2021, BER submitted to ADB for NOL 29-Jul-21.
CW17a-CFAVC-MRD-KP-01-2020		Invitation to bid 10 Aug 21, bid opening scheduled 9 Sept 2021, BER is evaluating.
CW17a-CFAVC-MRD-KP-02-2020		Invitation to bid 10 Aug 21, bid opening scheduled 9 Sept 2021, BER is evaluating.
Total MRD	Road program 2020 (71.09) Km	Final total contract value US\$8,665,818.34

III.2. Updated Disbursement Status

77. Table III.3 shows the updated Disbursement status as per 31 December 2021 while Annex 6 shows the disbursement for the 3 involved IAs individually.

III.3. Proposed Revision of Cost Estimate

78. The MRD team noted that COVID-19 led to some increases in cost of steel, cement, and fuel with potential impacts on overall cost. The Mission requested the team to quantify such costs by comparing with pre-COVID-19 prices by 31 January 2022. The MRD team noted that flooding and high temperatures increase vulnerability of farm roads in all target provinces. The Mission asked the MRD team to pay due attention to climate resilience measures and quantify the additional costs of such measures to convince GCF and other development partners to provide grant funds for climate proofing. The Mission also asked the team to prepare O&M plan for each road subproject. The MRD team noted that a maintenance committee is formed for each road subproject by the time the construction is completed. The Mission also urged the team to conduct impact assessment of road subprojects within one year of completion by focusing on direct impacts on ID Poor 1 and ID Poor 2 beneficiaries. MRD team noted that farm roads from ACs to markets should be wide enough (5–6 m) to allow safe and smooth transport of farm products to markets.

IV. Project Purposes

79. As shown in figure IV. 2 is the CFAVC project is focused on enhancing the climate resilience of critical agriculture infrastructure and facilitating commercialization of rice, maize, cassava, and mango production¹. The project further aims to increase crop productivity and diversification; improve the capacity for storage, processing, and quality and safety testing; and promote the use of solar and bioenergy. The project also plans to strengthen the technical and institutional

¹ Project Administration Manual, CFAVC, June 2018, ADB

capacity for climate smart agriculture (CSA) and create an enabling policy environment for climate-friendly agribusinesses. The project consisted of three main outputs as the following:

- a. Output 1: Critical agribusiness value chain infrastructure improvement and made climate resilient;
 - b. Output 2: Climate-smart agriculture and agribusiness promotion; and
 - c. Output 3: Enabling environment for climate-smart agribusiness enhancement.
80. In compliance with the principle of promoting regional cooperation, integration, and trade facilitation, the CFAVC project focuses on strengthening agribusiness value chains in Kampong Cham and Tboung Khmum provinces along the GMS southern economic corridor and in Kampot and Takeo provinces along the GMS southern coastal economic corridor.

IV.1. Likelihood of Achievement of the Project Outcome(s) and Remedial Measures

81. The CFAVC project is not very likely to achieve its original project outcomes in the original time-period of 5 years as detailed in Table IV.1.

Table IV.1 Reasons for not Achieving Project Outcomes in Original Time frame

Output/SubOutput		Issue	Solution
1	1.a Irrigation and 1.c Farm-roads	<ul style="list-style-type: none"> • In-sufficient TA allocations for FS, in particular social screening and DED • Delays due to covid travel restrictions 	• Additional TA resources and contract extensions for CS05 and CS01
	1.f renewable energy	Expected farmers contribution too high	Review of farmers contributions
2	2.a Additional climate-resilient varieties of rice and maize released	Not enough time anymore on the project as already 3 years lost with procurement	Project Extension

IV.2. Other Project Developments

IV.2.1. Renewable Energy targets

82. The PMU and GDAH staff expressed strong concerns on the project's ability to attain the target of 12,000 bio-digesters and 6,000 compost huts due to new developments in the project area, such as (i) the inability of beneficiaries to provide their contribution due to COVID-19 induced economic difficulties; and (ii) limited interest from smallholders to install bio-digesters and compost huts, which in turn is due to decreasing household dependence on bioenergy for cooking and lighting due to rapid expansion of grid electricity into rural areas over the past 3 years and preference of households to use electricity and liquid nitrogen gas cylinders instead of biogas. Other reasons contributing to low demand for bio-digesters include: (i) free supply of 1,500 bio-digesters, including 200 in Kampong Cham and 300 in Tboung Khmum provinces, with grant from the People's Republic of China; and (ii) declining number of livestock held by smallholder farmers due to farm mechanization and income diversification activities. During the ADB review mission the project team was instructed to strive to achieve the original project targets for bio-digesters and compost huts. If it is not feasible, the project should report the achievable target to GCF and its implications for achieving GHG targets for appropriate decision during the mid-term review mission planned for July 2022.

IV.2.2. AWP 2022

83. The 2022 AWPB (for MAFF and MRD as the MOWRAM AWP 2022 was submitted separately) amounts to US\$ 30,993,21 with details shown in Table IV.2. The total allocation for Output 1 is US\$ 19,112,250,120, for Output 2 US\$ 2,812,810 and for output 3 US\$ 2,294,100. The combined allocation for TA and consultants is US\$ 6,774,040.

Table IV.2 AWPB 2022 Per EA and IA (000 \$)

Executing Agency	Cost ('000USD)					
	Q1	Q2	Q3	Q4	Total	%
MAFF	4,064.64	5,207.79	6,585.62	6,305.86	22,145,910	
MOWRAM	0	0	0	0	0	
MRD	764,810	1,343,590	2,668,880	4,070,010	8,847,300	6
TOTAL	4,811.46	6,551.38	9,254.50	10,375.87	30,993.21	100.0

Table IV.3 AWPB 2022 per Fund Source (000 \$)

BUDGET	Cost ('000USD)					
	Q1	Q2	Q3	Q4	Total	%
ADB loan	3,142.48	4319.81	6,203.62	7,105.37	20,769.71	67.0
GCF loan	91.18	164.37	331.60	509.13	1,096,28	3.5
GCF grant	1,433.36	1883.8	2,485.23	2,509.18	8,341.58	26.9
RGC	81.04	192.81	131.44	98.79	438.69	1.4
Beneficiary	63.40	81.59	103.17	98.79	346.95	1.1
TOTAL	4,811.46	6,551.38	9,254.50	10,375.87	30,994.21	100.-

IV.2.3. COVID-19 Impact

84. Mid-March 2020 the COVID-19 epidemic outbreak in Cambodia and it is still prolonged till late September- 2021 till reporting period, which created a serious negative impact on the implementation of the CFAVC AWPB 2021. Table IV.4 shown the mayor impacts are: a) the Government barred large events, b) Almost a period of second quarter fourth is field work restricted, and c) All international air-travel also restricted.

Table IV.4 Covid related Delays in Project Implementation.

EVENTS	IMAPCTS
Mobilization of short-term experts	Delayed mobilization of short-term experts mobilized in particular for the CS02 team. 3 national experts (national laboratory coordinator and national biofertilizer production and quality testing specialist, plant tissue culture development specialist, green finance specialist, photo-voltaic specialist mobilized during first semi-annual progress report of 2021). 4 national experts (national laboratory commercialization specialist, GMO-phytotoxin analysis specialist, GAP for tropical specialist and agriculture machinery O&M training specialist mobilized in second semi-annual progress report of 2021 There is still left 1 more national specialist recruit and mobilize yet (ISO accreditation compliant specialist).
Demobilisation of Experts	International experts not allowed to enter into the country, they are all homebased working for assist to national experts working in country by their aeras of expertise. This condition lead difficulties working between national and international experts
Field work	Meeting of staff with PPIU staff, including village meeting, mentoring and coaching are restricted, however for urgent matters virtual discussion by zoom and google meet.
Meeting	Meeting with project staff and other, local authorities, with for internal discussions are restricted. For urgent matters virtual meeting by Zoom are conducted.
Training	Staff and farmer trainings are restricted, however one TOT training on CSA organized by virtual training by GDA.
Workshops	Face to face workshops for national and provincial levels are restricted, however proposed topics/agenda virtual discussion by zoom and google meet

V. Implementation Arrangements

85. MAFF is the executing agency (EA), in close coordination with MOWRAM and MRD. The General Directorate of Agriculture (GDA), Cambodian Agricultural Research and Development Institute (CARDI), the 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). The Project Steering Committee (PSC), chaired by the Secretary of State, MAFF and with representatives (at the level of Under Secretary of State or above) of the MEF, MOWRAM, MRD, Ministry of Commerce (MOC), Ministry of Industry, Science, Technology and Innovation (MISTI) (formerly MIH) and Ministry of Environment (MOE), will provide oversight, coordination, and policy guidance in all aspects of project implementation, except land acquisition and resettlement which is the responsibility of the Inter-Ministerial Resettlement Committee (IRC). Staff from PDAFF, PDWRAM, and PDRD from four provinces are central to implement the project effectively.
86. The first PSC meeting was conducted on 26 November 2019 and the second meeting on 28 January 2020. The PSC did not meet since then primarily due to COVID-19 and partly due to transfer of the PSC chairperson to another ministry. The Mission requested the PMU to request the minister of MAFF to nominate the PSC chair and organize the third PSC meeting by 31 January 2022 to endorse the annual work plan and budget (AWPB) for 2022, review the project progress, and identify additional steps needed to expedite project implementation. The organization of PSC meetings at regular and frequent intervals will help resolving outstanding issues in a timely manner.
87. The second PSC meeting could not agree on IA for rainwater harvesting ponds and drip irrigation demonstrations and requested MEF to decide the IA by February 2020. The Mission requested the MEF to facilitate an early resolution, latest by the next PSC meeting in January 2022, as delays in resolution of IA also delayed project implementation.

VI. Consulting Services and Procurement of Goods and Works

VI.1. Recruitment and Performance of Consultants

VI.1.1. General

88. For the project support there are a total of 5 TA packages with different tasks as shown in Table VI.1. While in the initial set-up all 5 TA packages were exclusively under MAFF control, in a recent VO to the CS05 contract there are now 2 national sub-teams, one under MOWRAM for the 1.a irrigation activities and one under MRD for the 1. farm road program.
89. The main package CS01 for Project Implementation is led by Agriconsulting Europe OSA (Belgium) and SBK Research and Development Co. Ltd. (Cambodia). The second package CS2 for Capacity Building and Climate Smart Agribusiness, is led by e-Gen Consultants Ltd. (Bangladesh) and SBK Research and Development Co. Ltd. (Cambodia), Okapi Environment Consulting, and International Center for Tropical Agriculture; while the FS & DD CS05 and CS5 Package led by the Resources Development Consultants (Sri Lanka) and CAM-CSTR [Cambodia] were mobilized in late 2019.

Table VI.1 Consultants Service Arrangements

Consulting Services Packages		Funded	Tasks	Status as During QR 4 2021
CS1	Project Implementation Consultants	ADB loan	General Support to Project Implementation, Gender, Environment, Social Safeguards Screening, Review of DED and FS Procurement and Financial Management	Mobilized Late October 2019
CS2	Capacity Building and Climate Smart Agribusiness,	ADB loan	Prepare/Implement all capacity building/training, climate smart and agribusiness activities	Mobilized Mid-September 2019
CS3	Variety Development	GCF grant	Support in development of new rice and maize varieties	Being procured
CS4	Information Communication Technology Platform	GCF grant	ITC support for development of forecasts for weather and agricultural commodities	Being procured
CS5	Feasibility Study and Detailed Design	ADB loan	For Irrigation and Road projects prepare Feasibility Studies, including all social safeguards screening reporting, DED and tender documents	Mobilized Early November 2019 and demobilized on 01 April 2021 due to lack of remaining TA resources. The CS5 team under the MRD was remobilized on 01 July 2021, and the CS5 team under MoWRAM is under the process consultant mobilization. The PRC report of CS5 team under MRD and CS5 team under MOWRAM is under reviewing by MEF

90. During the recent ADB review mission in November 2021, the mission expressed four concerns regarding the implementation of the 3 mobilized teams of consultants: (i) frequent turnover of specialists and replacements; (ii) long delays in finding suitably qualified national consultants; (iii) low performance of a few consultants especially in terms of poor-quality documentation and long delays in submission of monitoring reports; and (iv) lack of effective coordination between a few international and national consultants. The lack of adequate number of suitably qualified safeguard specialists and infrastructure engineers led to substantial delays in completing feasibility studies and DED of various irrigation and road subprojects. The lack of suitably qualified national specialists concerns the positions (e.g., ISO 17025 Accreditation Compliance Specialist, GMO and Phytotoxin Analysis Specialist) delayed activities focusing on food safety and quality.
91. During this mission regarding the slow implementation of the CFAVC project the consulting firms expressed six key concerns: (i) inability of international consultants to visit subprojects due to COVID-19 leading to ineffective collaboration between international and national consultants; (ii) delays in approval of contract variations for replacement of consultants and invoices; (iii) low inputs for team leaders, deputy team leaders, engineers, and social safeguards specialists, especially to assist with due diligence of subprojects in MOWRAM and MRD; (iv) lack of adequate understanding of IAs regarding differences in terms of reference between CS01 and CS05.s

VI.1.2. CS01

92. AESA has meanwhile proposed a proposal for additional TA resources up to the announced limit of \$ 212,000 and has submitted this to the PMU for their review. In this proposal the current team will more or less continue in the same constitution up to 31 August 2023 with more or less

on full-time inputs for the 3 national DTLs and the MAF CS01 finance expert. The only change is that the National PPMS expert will have minimum inputs with his role replaced by 2 sub-professionals.

93. Four National experts under CS1 proposed for replacement and rearrangement as following: replacement of the N-14 position and reallocation three experts for N-11, N-15, N-17, the request letter was submitted to ADB for NOL on December 2021.
94. CS01 still has a number of outstanding VOs in process awaiting MEF approval, which is slowing down invoicing.
95. Another issue of discussion concerns the basis of time-calculation for the international experts, as the PMU has been doing this per calendar-basis, which the Consultant is debating as for the national experts the time cards are based on working days.

VI.1.3. CS02

96. On 6th Dec 2021 the e-Gen Consulting firm submitted letter to the PMU for mobilizing of the ISO 17025 Accreditation Compliance Specialist. Later, on 10th Dec 2021, the PRC meeting was held to discuss and approve for the selection of the specialist. Then on 14th Dec 2021 the PRC minute was prepared and was submitted to the ADB for NOL on 21st Dec 2021.
97. Four (04) national experts under CS2, Capacity Building and Climate Smart Agribusiness were mobilized on November 2021.

VI.1.4. CS04

98. On 3rd Dec 2021 letter for submission of the request for proposal for the Information and Communication Technology, ICT-CS4 from 6 shortlist consulting firms was prepared. Those 6 shortlist consulting firms are as following: 1), Detecon Asia-Pacific Ltd 2), PMSI Private Limited 3), Research Development Consultants Ltd 4), Ern & Young LLP 5), CAB International 6), AGT S.P.A. Then on 6th Dec 2021, the request for proposal letter for the ICT was issued to the three short list consulting firms 1). AGT S.P.A, 2) CAB International and 3) Ern & Young LLP was issued. Later, on 7th Dec 2021 the request for proposal letter for the ICT was again issued to another three firms through e-email, and those three firms are 1), Detecon Asia-Pacific Ltd 2), PMSI Private Limited 3), Research Development Consultants Ltd.

VI.1.5. CS05

99. On 3rd Dec 2021 Resource Development Consultant (RDC) submitted the letter request for the Replacement of AutoCAD Specialist under MoWRAM CS5. Later, on 10th Dec 2021, the PRC meeting was held to discuss and approve for the replacement of New AutoCAD Specialist. And then on 15th Dec 2021 the PRC minute was prepared and on 21st Dec 2021 the replacement letter was submitted to the ADB for NOL.
100. The MRD team expressed strong concern on the lack of inputs for social safeguards specialists in the CS05 and CS01 contracts and the lack of budget for conducting socio-economic surveys and environmental surveys in the CS05 contract. The Mission confirmed the availability of \$105,000 for surveys as part of the approved contract variation no. 10 of CS5 contract and encouraged the team to utilize the budget. The Mission asked the team to expedite completion of social safeguards due diligence by involving the GDR staff early in the process of design of road subprojects. The Mission suggested that reallocation of existing resources should be considered to provide additional inputs for social safeguards specialist at least up to June 2022. Further allocation of resources would be considered during mid-term review mission in July 2022.
101. On 3rd Dec 2021, RDC submitted letter requesting for approval using contingency budget for recruitment of two additional Social Safeguard and Resettlement experts, one under MoWRAM, and another one under MRD. Later, on 10th Dec 2021 PRC minute meeting was held to discuss and approve for the selection of the two specialists. And on 13th Dec 2021 the PRC minute meeting for evaluation and selection the two SS specialists was prepared, then on 20th Dec 2021, letter for the mobilization of the two experts was submitted to the ADB for NOL.

102. On 15th Dec 2021 RDC submitted to PMU the Replacement and Appointment letter for the position of the Social Safeguard Specialist. Later, on 23rd Dec 2021 the PRC minute meeting was held to discuss and approve the request. And on 24th Dec 2021, PRC minute meeting was prepared for the replacement and appointment of the new specialist.
103. On 20th Dec 2021 AESA submitted replacement letter for the financial expert based in MRD. Later, on 27 Dec 2021 the invitation letter for the PRC meeting was issued and on 30th Dec 2021 the PRC meeting was held.
104. The extension of existing Key and Non-key experts and hiring of new experts under CS5 with additional Cost VO#10, the proposed new experts were mobilized. Out of these experts, seven (07) positions were mobilized under MOWRAM and two (02) positions were mobilized under the MRD on November 2021. And during December 2021, under VO#11 two additional National Experts were mobilized, one expert is based in MOWRAM and one other is based in MRD. No procurement of Goods and Works during quarter 4 2021.

VI.2. Procurement Plan

105. The updated procurement plan has not yet been submitted to the ADB.

VI.3. Procurement of Good and Works and Performance of Suppliers, Manufacturers, and Contractors

106. In 2021 not a single compost hut and bio-digester could be installed for the following reasons:
 - The very complex procurement requirements with a lack of qualified bidders, as a result of which the PMU suggested to the mission to simplify the procurement procedures. However, the Mission and MEF stressed that changing procurement method from NCB to shopping or community participation is not likely to help as management of multiple contracts with shopping and community participation is much more cumbersome than NCB given the high targets. The Mission and MEF suggested the team to revise the bidding document by revisiting qualification criteria and ensuring a wider publicity to attract more bidders. The Mission agreed with the proposal to revisit the cost estimates to include reasonable administration and overhead costs, and to expand the eligibility to include small commercial farms (with less than 100 animals per farm) in the next round of bidding.
 - The Mission also noted the need for increasing subsidy in view of COVID-19, but subsidies should not distort the bio-digester market development in the country. The Mission suggested that the issue on subsidy may be further discussed at the PSC meeting in January 2022 and with GCF in July 2022 during mid-term review mission. The Mission noted that a few development partners already expressed concern on the current levels of subsidy in the project. The Mission suggested that future rounds of bidding should consider a wider range of bio-digesters rather than confining to farmer-friendly brick bio-digesters. The Mission also suggested to involve and support the private sector in identification of potential beneficiaries of biodigesters and compost huts.
 - During the recent Mission the PMU and consulting teams was asked to prepare the revised bidding document for the first batch of bio-digesters and compost huts by 31 December 2021. The team asked the Mission to consider the following to achieve the targets: (i) revisit cost estimates by including administration and overhead expenses of about 30% in the net price of bio-digesters; (ii) increase subsidy to 90–100% of the cost; (iii) change procurement method from national competitive bidding (NCB) to shopping or community participation; and (iv) expand the eligibility to include small commercial farms besides households in line with the MAFF Policy on Bio-digester Development, 2021–2030. The team asked the Mission to discuss with GCF on prospects for increasing subsidy to households to reduce payment burden in the context of COVID-19.
107. The certified letter of acceptance for the selection of supplier for the supply and installation of Forty (40) Wheel Tyres for Ten (10) Pick-up Trucks was signed on 3rd Dec 2021. 20 of the 40 wheel tires will be used for the 5 MAZDA Pick-up and another 20 wheel tires will be used for 5 FORD RANGER pick-up.
108. Reviewing Bidding Document for the 35 AC storages planned for project support in 2022 under

packages CW3b1 (Kampot and Takeo provinces) and CW3b2 (Kampong Cham and Tbong Khmum province), more details is referred to Table A4.2 of Annex 4.

109. 68.45. Procurement of Goods, the supplier has supply and installation of wheel tyers for (10) ten pick-up truck for CFAVC project and 4 relevant provinces (Kampong Cham, Tbong Khum, Kampot and Takeo) Province in December 2021. The General Directorate of Agriculture (GDA) on October 2021 submitted letter requesting for proceeding the procurement of LAB equipment and tools and No procurement of Works during quarterly4 2021.

VII. Assessment of Project Progress

VII.1. PPMS system Update

110. In CFAVC progress reporting in the period April-October 2021 erroneous physical progress had been used, given too optimistic progress figures, which was also flagged by the ADB review mission. Meanwhile the original PPMS calculation method has been further simplified to avoid repeat of such errors.

VII.2. Physical Progress

111. Towards the end of 2021 the CFAVC achieved 24.82 physical progress as shown in Table VII.1. This progress figure is relative progress compared to the DMF weight and as such should not be mis-interpreted as % progress per activity.
112. The highest progress is achieved with the implementation of Output 2 at 36.95 %, followed by Output 3 at 27.5 % with Output 1 at 20.46 %.
113. The low progress of Output 1 is mainly caused by a) no progress for the ponds and drip due to un-clarity on the IA, b) slow progress with FS & DED of the 1a Irrigation and 1.c farm road programs and c) slow progress of the renewable energy due to the relative high beneficiary contribution.

Table VII.1 Physical Progress as per 31 December 2021

Output and Activities		Assigned weight	Progress 2021			
			March	Jun	Sept	Dec
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	1.31	1.41	1.72	2.12
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	0.14	0.02	0.02	0.02
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	1.82	2.02	2.60	3.24
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	1.07	1.13	3.01	3.90
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	5.00	1.17	1.69	2.15	2.52
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	5.00	0.29	0.43	0.62	0.84
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	5.00	0.28	0.39	0.47	0.68
sub-total Output 1		65.00	6.09	7.08	10.59	13.30
Output 2 – Climate-smart Agriculture and Agribusiness Promoted						
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	0.51	0.71	0.91	0.99
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	5.00	0.57	0.64	0.88	0.76
2.c.1	27 FWUCS of FWUGS made full operational	3.00	0.35	0.38	0.46	0.48
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irrigation schemes	3.00	0.01	0.01	0.01	0.01
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	0.93	1.08	1.26	1.46
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	2.36	2.83	3.51	3.69
sub-total Output 2		20.00	4.72	5.67	7.02	7.39
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	0.47	0.68	0.81	0.95
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	0.47	0.71	0.83	1.02
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	0.44	0.54	0.61	0.65
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	0.24	0.34	0.60	0.72
3.e	30 agribusinesses trained in green finance and CSA	2.00	0.24	0.34	0.40	0.44

3.f	20,000 Households provided with information on climate risk-sharing instruments	2.00	0.20	0.28	0.32	0.35
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	3.00	0.00	0.00	0.00	0.00
	sub-total Output 3	15.00	2.06	2.88	3.56	4.13
OUTPUT	Output 1	65.00	6.09	7.08	10.59	13.30
	Output 2	20.00	4.72	5.67	7.02	7.39
	Output 3	15.00	2.06	2.88	3.56	4.13
	TOTAL Output (1 + 2 + 3)	100.00	12.87	15.63	21.18	24.82

114. Annex 4 shows full details of the progress as follows: a) 4.1 progress in MEF format, b) 4.2 progress in DMF format per IA, C0 4.3 progress per MDF format and d) 4/4 4-4/6 full details of physical progress over the 3 outputs.

VIII. Assessment of the Validity of Key Assumptions and Risks

115. As discussed above, the key assumptions and risks remain valid with the addition of Covid-19.

IX. Safeguards and Gender Progress and Compliance³

IX.1. Social safeguard document preparation and submission status

IX.1.1. Social Safeguard Implementation Progress

IX.1.1.1. General:

116. The ADB approved for the preparation of the Semi-Annual Monitoring Report (SAMR) Jan to June 2021 to be combined with the SAMR Jun to Dec 2021 into a single report, and the report will be submitted to ADB by 15 Dec, 2021. Currently the report preparation is in progress about 90% completed.
117. The MRD team expressed strong concern on the lack of budget for conducting socio-economic surveys and environmental surveys in the CS05 contract. The Mission confirmed the availability of \$105,000 for surveys as part of the approved contract variation no. 10 of CS5 contract and encouraged the team to utilize the budget. The Mission asked the team to expedite completion of social safeguards due diligence by involving the GDR staff early in the process of design of road subprojects. Further allocation of resources would be considered during mid-term review mission in July 2022.

IX.1.1.2. 1.a Irrigation:

118. Two irrigation subprojects under package MOWRAM-CFAVC-TEO-CW15.1, Kraing Empil & Prey Kdouch, the DDR was resubmitted to ADB on Thursday, December 16, 2021, and the report was approved by the ADB on 4th week of Dec 2021. And it is now under the process of disclosure from PMU to ADB, see table A9.3, Annex 9.
119. Finalized the DRP of the Tboung Khmum irrigation subproject Trapeang Tros under package MOWRAM-CFAVC-TBM-CW13.1, the report was submitted to the GDR on 20 Nov 2021 and will be finalized by GDR and submitted to ADB within 3rd week of Dec 2021 for NOL, see see table A9.3, Annex 9.
120. O'kamprok DDR preparation under package MOWRAM-CFAVC-KPC-CW14.1 is of about 75% completed, it will be ready for submission to the ITP by 2nd week of February 2022 for verification. The irrigation subprojects are under construction and the Social Safeguard monitoring activities of these subprojects will be included into the Jan –Dec 2021 annual monitoring reports see table A9.3, Annex 9.

IX.1.1.3. Farm Roads

121. Full compensations payments were made to the Ahs for the road subproject under package CW17b-CFAVC-MRD-TK3-2020 (Lot 1) and the DRP was approved by the ADB and was uploaded into the ADB website on Sep 2021. Full compensations payments for the subproject were made to the Ahs on 2nd week of Dec 2021, see table A9.1, Annex 9.
122. The compensation payment for the road subproject under package CW17b-CFAVC-MRD-TK4-2020 (Lot 2) was made by 2nd week Dec 202, table A9.1, Annex 9.
123. The DDR is under the process of clarification by the Design team
124. with guidance from the CS1/PIC, the report will be resubmitted to the ADB for approval and submitted for clearance from the 3rd party and it will be reported in the SAMR Jan – Dec 2021. The DDR is under revision by consultant based on the comments from the Third Party and will be submitted to ADB.
125. The DRP preparation under package CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1) is under the process of reviewing by the GDR, it will be submitted to ADB early Dec-21.

IX.1.1.4. MAFF (ACS, PADC and Workshops)

126. The DDR for the Mechanization Workshops (not including major & minor equipment) & Supervision, Lot 1: Kampong Cham, Lot 2: Tboung Khmum, Lot 3: Kampot was uploaded into the ADB website on Jun 2021. And the construction activities of the subprojects will be reported in the Jan-Jun 2022 SAMR.
127. The DDR for the Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units lot1, lot2, lot3 and lot4. (Storage sizes 50 tone, 100 tone and 200 tone.) was uploaded into the ADB website on Jun 2021, table A9.2, Annex A9. And the construction activities of the subprojects will be reported in the Jan-Jun 2022 SAMR.
128. The DDR for the Construction of Training Building for PADC (including infrastructure design and Equipment) Lot 1: Takeo, Lot 2: Tboung Khmum and Lot 3: Kampong Cham was uploaded into the ADB website on Jun 2021, table A9.2, Annex 9. And the construction activities of the subprojects will be reported in the Jan-Jun 2022 SAMR.
129. DDR preparation Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 35 units is in progress, table A9.2, Annex 9.

IX.1.2. Progress in Project Consultation, Participation, and Information Disclosure During QR 4 2021

130. Public consultations during QR 4 2021 were conducted for the irrigation subprojects are as following:

IX.1.2.1. Irrigation

131. Six (6) public consultation meetings were conducted within the Trapeang Run irrigation subproject under contract package CFAVC-KP-TP-CW2. 63 participants were attended into the meetings, and 25 of them are female, (see table IX.1). 31 landowners and 26 non-titled landowners who have land inside the reservoir area were attended into the meeting.
132. Two public consultations were conducted for the two irrigation subprojects under contract package MOWRAM-CFAVC-TBM-CW13.1 (Tumnup Kbal Teuk and Tuol Pring Reservoirs) and the public consultations were conducted on 2nd June 2020, and on 25th Dec 2020 respectively (table IX.1).

Table IX.1: Social safeguard public consultations for Irrigation subprojects During QR 4 2021

Year	Package Number	Province	Commune	District	Subproject Name	Number of Subprojects/ Package	Command area, ha	Public consultations
1	2	3	4	5	6	7	8	9
1. Irrigation subprojects in AWP 2020								
2020	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run	1	100	Full consultation with landowners and other non-titled affected people were conducted and it was conducted with participation of 31 landowners and 26 non-titled landowners within the reservoir area. A total of six (6) public consultation meetings were conducted with 63 participants, out of which 25 were female participants.
	MOWRAM-CFAVC-TBM-CW13.1	Tbong Khmum	PREASH THEAT	Ou Raing Ov	Tumnu Kbal Teuk	3	250	1st meeting was planned on 02 June 2020 from 09:00 – 11:00 AM in at village Chief's house, located in Kbal Toeuk village, Preah Theat Commune, O' Rang Ouv district, Tbong Khmum province.
			Chikor	Tbong Khmum	Tuol Pring Reservoir		100	And 2nd meeting was conducted on 25 Dec 2020 at Chikor commune office of Tbong Khmum district. 108 persons were attended into the meeting and 39 of them are female.
			Thmor Pich	Tbong Khmum	Trapeang Tros Reservoir		350	
	MOWRAM-CFAVC-TEO-CW15.1	Takeo	Trapaing Kra Nhoung	Tram Kak	Prey Kdouch Reservoir	2	550	
			Trapaing Kra Nhoung	Tram Kak	Kraing Empil Embankment		200	
	MOWRAM-CFAVC-KPC-CW14.1	Kampong Cham	Svay Teap	Chamkaler	Pram Kumpheak	2	900	
Preach Andong			Stoeng Trong	O Kamprok	350			
MOWRAM-CFAVC-KPT-CW12.1	Kampot	Srae Khnung	Chuom Kiri	Takouch (Prey Takoch)	1	450		
TOTAL for AWP 2020						9	3,250	
2. Irrigation subprojects in AWP 2021								
2021	MOWRAM-CFAVC-TBM-CW13.2	Tbong Khmum	Chhouk	Krouch Chmar	Tbong Damrei Reservoir	2	600	
			Seda	Dambae	Kampong Raing Feeding Canal		250	
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk	3	800	

Year	Package Number	Province	Commune	District	Subproject Name	Number of Subprojects/Package	Command area, ha	Public consultations
1	2	3	4	5	6	7	8	9
			Prey Yuthkar	Koh Andet	Kwaeng Tayee		468	
			Prey Romdeng	Kirivong	Prey Romdeng Canal		510	
	MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	1	950	
	MOWRAM-CFAVC-KPT-CW12.2	Kampot	Sathpong / Trameng/Baniev	Chhouk	Trapeang Boeung	2	800	
Kandorl			Teuk Chhou	Kandorl	650			
TOTAL for AWP 2021						8	5,028	
3. Irrigation schemes in AWP 2022								
2022	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	1,400	
			Beung Nay	Prey Chhor	Teuk Cha West		1,400	
	MOWRAM-CFAVC-TBM-CW13.3	Tbong Khmum	Teuk Chrov	Dambae	Choam Taheung	2	1,500	
			Thmar Pich	Tbong Khmum	Trapaing Ampil		200	
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kampeng	Kirivong	Pou Tasuy Reservoir	6	440	
			Prey Romdeng	Tram Kak	O' Rumdoul Reservoir		210	
			Samraong	Tram Kak	Sdok Sab		300	
			Kropum Chhouk	Koh Andet	Pralay 85		850	
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650	
	Soam	Kirivong	Soam Canal	400				
MOWRAM-CFAVC-KPT-CW12.3	Kampot	Trapeang Pring	Teuk Chhou	Broweak Pong	1	70		
TOTAL for AWP 2022						11	7,420	
GRAND TOTAL						28	15,698	

IX.1.2.2. Farm Roads

133. One public consultation was conducted for the road subproject under package CW17b-CFAVC-MRD-TK3-2020 (Lot 1), and the meeting was conducted on 12th Jan 2021. 76 participants were attended into the meeting and 23 of them are female.

134. Two other public consultations were conducted on 18th Feb 2020 for the two road sub projects under contract packages CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1) and CW17c-CFAVC-MRD-

TBK-6-2020 (Lot 2), more details see table IX.2. 64 participants were attended into the meeting, and 17 of them are female.

135. During the SES survey and public consultation meetings it was observed that there is no indigenous peoples/Ethnic minority groups are living within the subproject areas.

Table IX.2: Social safeguard public consultations for Road subprojects During QR 4 2021

Table IX.3: Social	Package Name	AC Name	Province	Commune	District	Road Length (km)	Public consultations
1	2	3	4	5	6	8	8
Rural Road sub-projects of AWP 2020							
1	CW17a-CFAVC-MRD-KP-01-2020 (Lot 1)	Raksmei Samaky Amatak	Kampot	Chres	Chum Kiri	11.94	
2	CW17a-CFAVC-MRD-KP-02-2020 (Lot 2)	Kasikor Samaki Rungreung		Srae Chaeng	Chum Kiri	8.1	
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1): DBST road	Lom Pung Samaky	Takeo	Lumphong	Bati	10.01	On 12th January 2021, at 08:30 AM at Lumpong commune, Bati District Takeo Province with total of 76 participants which comprise 23 female participants.
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Sdok Sdam		Taing Yab	Prey Kabas	4.67	
5	CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1)	Dambe Rung Roeung	Tbong Khmum	DamBae	Dam Bae	9.77	1st meeting as planned on 18th February 2020, at 08:30 – 10:30 AM at Dambae Commune's Office, in Dambae Commune, Dambae district, Tbong Khmum province
6	CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2)	Kdei SangKhoem Kasekar		Toul Snoul	Krouch Chhmar	12	The 2nd meeting was conducted on 19 February 2020 at Toul Snoul Commune Office of Toul Snoul commune of Tbong Khmum district Two public consultation meetings were conducted with 64 participants, 17 females
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sombo Meanchey	Kampong Cham	Soupheas	Stueng Trang	9.88	
8	CW17d-CFAVC-MRD-KC8-02-2020 (Lot 2)	Stung Trang Senchey		Soupheas		4.72	
Rural road program in AWP 2020						71.09	
Road sub-projects planned in 2021							
9	CW17a-CFAVC-MRD-KP-01-2021	Sen Han Cham Reoun Phal	Kampot	Samrong Leu	Banteay Meas	5.31	
10	CW17a-CFAVC-MRD-KP-02-2021	Ratanak Pulrath Samaki		Damnak Sokrom	Dang Toung	6.44	
11	CW17a-CFAVC-MRD-KP-03-2021	Preykrang Meanrit		Mean Rith		6.9	
12	CW17a-CFAVC-MRD-KP-04-2021	Samaki Amatak		Srae Khnoug	Chum Kiri	3.83	

Table IX.3: Social	Package Name	AC Name	Province	Commune	District	Road Length (km)	Public consultations
1	2	3	4	5	6	8	8
13	CW17b-CFAVC-MRD-TK01-2021	Kampeng Sok Sen Sambo	Takeo	Kampeng	Kirivong	5.4	
14	CW17b-CFAVC-MRD-TK02-2021	Samaky Trapeang Kralanh		Ou Saray	Tram Kak	8.25	
15	CW17b-CFAVC-MRD-TK03-2021	Bak Sey Rik Ray		Cheang Tong	Tram Kak	5.8	
16	CW17b-CFAVC-MRD-TK04-2021	Samaki Trapeang Chak		Trapeang Chak	Tramkak	3.4	
17	CW17b-CFAVC-MRD-TK05-2021	Trapeang Srangae		Trapaing Srangae	Tramkak	4.05	
18	CW17c-CFAVC-MRD-TBK-01-2021	Sammaky Meanchey	Tbong Khmum	Chak	Ou Reang Ov	8.15	
19	CW17c-CFAVC-MRD-TBK-02-2021	Lngieng Meamchey		Lngieng	Tbong Khmum	5.5	
20	CW17c-CFAVC-MRD-TBK-03-2021	Samaki Kak		Kak	Tbong Khmum	4.9	
21	CW17c-CFAVC-MRD-TBK-04-2021	Baitong Korksrok		Kok Srok	Dombae	2.98	
22	CW17c-CFAVC-MRD-TBK-05-2021	Akphiriek Ponhea Kraek Dambae		Koang Kang	Ponhea Kraek	1.3	
23	CW17c-CFAVC-MRD-TBK-06-2021	Ponhea Kraek Rongroeng		Koang Kang	Ponhea Kraek	3.8	
24	CW17c-CFAVC-MRD-TBK-07-2021	Popel Meanchey		Popel	Ponhea Kraek	2.82	
25	CW17d-CFAVC-MRD-KC-01-2021	Akphivath Multhan Yeung		Kampong Cham	Taing Krasang	Batheay	3.93
26	CW17d-CFAVC-MRD-KC-02-2021	Akpiwat Kaksekor	So Saen		Prey Chhor	5.5	
27	CW17d-CFAVC-MRD-KPC-03-2021	Ponluk Thmey	Peam Chi Kang		Kang Meas	5.04	
28	CW17d-CFAVC-MRD-KC-04-2021	Sammaki Baray Angdong Ang	Baray		Prey Chhor	7.77	
AWP program of 2021						101.07	
Road sub-projects planned in 2022							
29	CW17b-CFAVC-MRD-TK1-2022	Sensok Toek Thla	Takeo	Trapaing Krasaing	Bati	7.33	
30	CW17b-CFAVC-MRD-TK2-2022	Phum Bey Meanchey		Kiri Chong Kaoh	Kirivong	1.5	
31	CW17b-CFAVC-MRD-TK3-2022	Phum Bey Samaky		Krapum Chhouk	Kaoh Andaet	0.55	
32	CW17b-CFAVC-MRD-TK4-2022	Champa Prey Phdav		Champa	Prey Kabas	3.8	
33	CW17b-CFAVC-MRD-TK6-2022	Rolous Meas		Thlea Prochum	Kaoh Andaet	6.28	

Table IX.3: Social	Package Name	AC Name	Province	Commune	District	Road Length (km)	Public consultations
1	2	3	4	5	6	8	8
34	CW17b-CFAVC-MRD-TK7-2022	Samaky Amatak Khvav		Khvav	Samrong	7	
35	CW17b-CFAVC-MRD-TK8-2022	Cheung Kuon Choukchey		Cheung Kuon	Samrong	4.4	
36	CW17b-CFAVC-MRD-TK9-2022	Punleu Kasikar		Boeung Tranh Khang Cheung	Samrong	7.5	
37	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey	Tbong Khmum	Dambae	DamBae	13.10	
38	CW17c-CFAVC-MRD-TBK-02-2022	Kaksekor Dambae		Tuek Chrov	DamBae	17	
39	CW17c-CFAVC-MRD-TBK-03-2022	Romdoul Dountei		Doun Tei	Ponhea Kraek	14.84	
40	CW17c-CFAVC-MRD-TBK-04-2022	Lngieng Meanchey		Lngieng	Tbong Khmum	9.65	
41	CW17d-CFAVC-MRD-KC-01-2022	Toul Preah Vihea	Kampong Cham	Sompong Chey	Cheung Prey	5.80	
42	CW17d-CFAVC-MRD-KC-02-2022	Reamea Cheung Prey		Pdau Chum		3.75	
AWP 2022 program for rural roads						79.85	
GRAND TOTAL for RURAL ROADS						252.01	

IX.1.2.3. MAFF (Acs, PADS and Workshops)

136. For the subprojects under MAFF, public consultations were conducted for the 20 AC warehouses as presented in table IX.4.

Table IX.4: Social safeguard public consultations for subprojects under MAFF (20 AC locations)

No	Briefing on Consultation carried out at each AC location	Provinces	Date of consulting
1	Stoeung Trang Senchey- AC	Kampong Cham	26 Nov, 2019 (Morning)
2	SamBou Mean Chey- AC		26 Nov, 2019 (Afternoon)
3	Akpiwat Srok Yoeung - AC		27 Nov, 2019 (Morning)
4	Akpiwat MouliThan Yoeung - AC		27 Nov, 2019 (Afternoon)
5	Ponlork Thmei - AC		28 Nov, 2019 (Morning)
6	Ratanak Pol Roth Samaki - AC	Kampot	On 27 Oct, 2020 (Morning) met with representatives of
7	PreyKraing MeanRith - AC		On 27 Oct, 2020 (Afternoon) met with representatives of
8	Kasikor Samaki Rung Roeung - AC		On 28 Oct, 2020 (morning) met with representatives of
9	Samaki Amatak - AC		On 28 Oct, 2020 (Afternoon) met with representatives of
10	Sen Han Chamrean Phal - AC	Tbong Khmum	On 29 Oct, 2020 (Morning) met with representatives of
11	Samaki Kok - AC		20 Apr, 2020 (Afternoon)
12	Pon NheKrek Rung Roeung - AC		21 Apr 2020 (Morning)
13	Samaki Dombe - AC		22 Apr 2020 (Morning)
14	Dombe Rung Roeung - AC		23 Apr 2020 (Morning)
15	Khdei SangKhoem Kasikor - AC		23 Apr 2020 (Afternoon)
16	Trapeang KraNhuong - AC		Takeo
17	Samaki Trapeang Kralanh - AC	08 Apr, 2020 (Afternoon)	

18	Kampeng Sen Sambou - AC	09 Apr, 2020 (Morning)
19	Sdok Sdom - AC	09 Apr, 2020 (Afternoon)
20	Stoeung Sla Kou - AC	10 Apr, 2020 (Morning)

IX.2. Environmental safeguard IEE preparation and submission status

IX.2.1. Environmental Due Diligence Progress During QR 4 2021

137. Progresses with the IEE preparation are as following:

IX.2.1.1. General

138. The Semi-annual safeguard monitoring report 2020 (SEMR#1) was approved by the ADB on 10 September 2021, and the report was endorsed by the PMU and was submitted to the ADB for uploading into the ADB website.
139. The Semi-annual Environmental safeguard monitoring report for January – June 2021 was prepared and was approved by the ADB on 30 Sep 2021. The report has been submitted to the PMU on 01 Oct 2021 for disclosing into the ADB website.

IX.2.1.2. Irrigation

- a) Conducting the final environmental monitoring for the Trapeang Run irrigation subproject and the final monitoring activities were done from 4-5 August 2021, during the time the completion of the construction works of the irrigation subproject, see table A10.2, Annex 10.
- b) Preparation of the IEE reports for the Pram Kumpheak and O Kamprok irrigation subprojects under contract package number MOWRAM-CFAVC-KPC-CW14.1. The report was completed 100% and was submitted to ADB for reviewing and commenting. The IEE report was updating based on the first comment of ADB, table A10.2, Annex 10.
- c) Preparation of the IEE report for the irrigation subproject under package MOWRAM-CFAVC-KPT-CW12.1, covering one irrigation subproject, Tumrup Takoch reservoir. And the draft report preparation is of about 50% completed, table A10.2, Annex 10
- d) Preparation of the IEE report for the irrigation subproject under package MOWRAM-CFAVC-KPT-CW12.1, covering one irrigation subproject, Prey Takoch reservoir. The draft report preparation is in progress, table A10.2, Annex 10.

IX.2.1.3. Farm Roads

140. The activities progresses as of reporting period for the Environmental safeguard under the MRD were the preparation of the IEE reports for the following road sub-projects under packages, CW17a-CFAVC-MRD-KP-01-2021, CW17a-CFAVC-MRD-KP-02-2021, CW17a-CFAVC-MRD-KP-03-2021, CW17a-CFAVC-MRD-KP-04-2021, CW17b-CFAVC-MRD-TK01-2021, CW17b-CFAVC-MRD-TK02-2021, CW17b-CFAVC-MRD-TK03-2021, CW17b-CFAVC-MRD-TK04-2021, CW17b-CFAVC-MRD-TK05-2021, CW17c-CFAVC-MRD-TBK-01-2021, CW17c-CFAVC-MRD-TBK-02-2021, CW17c-CFAVC-MRD-TBK-03-2021, CW17c-CFAVC-MRD-TBK-04-2021, CW17c-CFAVC-MRD-TBK-05-2021, CW17c-CFAVC-MRD-TBK-06-2021, CW17c-CFAVC-MRD-TBK-07-2021, CW17d-CFAVC-MRD-KC-01-2021, CW17d-CFAVC-MRD-KC-02-2021, CW17d-CFAVC-MRD-KPC-03-2021, CW17d-CFAVC-MRD-KC-04-2021. And the draft consolidated IEE report preparations for these road sub-projects were completed about 70%, covering road length of about 100.77 km, table A10.3, Annex 10.

IX.2.1.4. MAFF (ACs, PADSs and Workshops)

141. Conduct the Environmental Monitoring for the subprojects under MAFF including AC warehouses, training buildings for PDAC and mechanization workshops in four target provinces (Kampot, Takeo, Kampong Cham and Tboung Khmum province), table 10.1, Annex 10.

IX.2.2. Progress and Status of EMP Implementation

142. The IEE/EMP for rural road subprojects planned 2021 in four target provinces (Kampot, Takeo, Tbong Khmum and Kampong Cham) has been drafted as Master IEE/EMP, which was recommended by Project Director of MRD as well as Project Manager of MRD, see table IX.5

Table IX.5: EMP Implementation for Irrigation subproject implementation

EMP Requirement	Compliance Status			Remarks/ Reasons for Non/Partly Compliance	Issues for Further Actions
	Yes	No	Partly		
Dust from works and material transportation	√				
Human waste/waste water (construction and camp sites)			√	The construction waste was kept in improperly (on the Embankment and without proper storage and location)	Instructed to correct it in the proper way and in accordance with EMP statement. In response to this instruction, the contractor agreed to improve the human wastewater management.
Traffic accident traffic jam due to equipment transportation	√				
Soil Erosion	√				
Worker safety, health and COVID 19 prevention			√	The first aid was installed within the construction site and worker camp, but for the COVID 19 risk management and prevention was still not installed yet	There recommended that the COVID 19 risk management and prevention should be install in the construction site and worker camps in according with the EMP statement. In response to this instruction, the contractor agreed to improve the COVID 19 risk management and prevention by designing the COVID sign boards and stick it within construction and camp sites.
Sludge disposal	√				
Surface water quality	√				
Ground water quality		√		The testing of ground water quality in the construction site was not conducted yet, even though it should be kept as a baseline	Instructed to correct it in the proper way and in accordance with EMP statement. In response to this instruction, the contractor agreed to do the testing for ground water within and nearby the subproject construction
Solid waste			√	The construction waste was kept in improperly places on the Embankment and without properly storage and location	Instructed to correct it in the properly way and in accordance with EMP statement. In response to this instruction, the contractor agreed to improve the solid waste management by depositing at a proper place and adding more solid waste bins.
Transmitted diseases					

EMP Requirement	Compliance Status			Remarks/ Reasons for Non/Partly Compliance	Issues for Further Actions
	Yes	No	Partly		
	√				
EHS (for community and occupation)	√				
Pollution from fuels and black oil			√	The fuel storage is not proper: some of fuel is still leaking and the storage bin is too small.	Instructed to improve the fuel storage and in large size storage location. In response to this instruction, the contractor agreed to improve the storage fuel and black oil and enlarge the concrete flooring

IX.2.3. Progress in Project Consultation, Participation, and Information Disclosure

IX.2.3.1. Irrigation

143. During Reporting period, the public consultation meetings were held for the environmental safeguard are as following:

- For the irrigation subprojects under contract packages MOWRAM-CFAVC-KPC-CW14.1, covering two subprojects, Pram Kumpheak and O Kamprok, the consultation meetings were held from 07-09 Sep 2021 (table IX.6).
- Another public consultation was held from 15-16 Sep 2021 for the irrigation subproject package MOWRAM-CFAVC-KPT-CW12.1, covering one irrigation subproject, Takouch reservoir (table IX.6).

Table IX.6: Public consultation meetings of Environmental safeguards,

No	Subproject Package No	Public Consultation	IEE	EMP	Remarks
1	Trapeang Run irrigation				The final environmental monitoring for civil work was conducted on 2 nd August 2021
2	MOWRAM-CFAVC-KPC-CW14.1	07-09 September 2021	100% drafting completed	100% drafting completed	The IEE report for the two irrigation subprojects (Pram Kumpheak and O Kamprok) is under updating based on ADB comment
3	MOWRAM-CFAVC-KPT-CW12.1	15-16 September 2021	50% drafting completed	50% drafting completed	For Tomnup Takoch irrigation subproject
4	CW17a-CFAVC-MRD-KP-01-2021 (Package No.5)				The IEE/EMP for rural road subprojects planned 2021 in four target provinces (Kampot, Takeo, Tbong Khmum and Kampong Cham) has been drafted as consolidated IEE/EMP, which was recommended by Project Director of MRD as well as Project Manager of MRD and agreed during the ADB review, mission..
5	CW17a-CFAVC-MRD-KP-02-2021 (Package No.9)				
6	CW17a-CFAVC-MRD-KP-03-2021(Package No.9)		70% drafting completed	70% drafting completed	
7	CW17a-CFAVC-MRD-KP-04-2021 (Package No.5)				
8	CW17b-CFAVC-MRD-TK01-2021(Package No.10)				
9	CW17b-CFAVC-MRD-TK02-2021(Package No.6)				

No	Subproject Package No	Public Consultation	IEE	EMP	Remarks
10	CW17b-CFAVC-MRD-TK03-2021(Package No.6)				
11	CW17b-CFAVC-MRD-TK04-2021(Package No.10)				
12	CW17b-CFAVC-MRD-TK05-2021(Package No.10)				
13	CW17c-CFAVC-MRD-TBK-01-2021 (Package No.7)				
14	CW17c-CFAVC-MRD-TBK-02-2021 (Package No.7)				
15	CW17c-CFAVC-MRD-TBK-03-2021 (Package No.11)				
16	CW17c-CFAVC-MRD-TBK-04-2021 (Package No.7)				
17	CW17c-CFAVC-MRD-TBK-05-2021 (Package No.11)				
18	CW17c-CFAVC-MRD-TBK-06-2021 (Package No.11)				
19	CW17c-CFAVC-MRD-TBK-07-2021 (Package No.11)				
20	CW17d-CFAVC-MRD-KC-01-2021 (Package No.12)				
21	CW17d-CFAVC-MRD-KC-02-2021 (Package No.12)				
22	CW17d-CFAVC-MRD-KPC-03-2021 (Package No.8)				
23	CW17d-CFAVC-MRD-KC-04-2021 (Package No.8)				

IX.2.3.2. MRD

144. There is no public consultation was held for the road subprojects during this reporting period, see table IX.7.

Table IX.7: Environmental Public consultations for Rural Roads Subprojects

No.	Package Name	AC Name	Province	Commune	District	Road Length (km)	Public consultation	Remarks
1	2	3	4	5	6	8	9	11
1. Plan for road subprojects planned in 2020								
1	CW17a-CFAVC-MRD-KP-01-2020 (Lot 1)	Raksmei Samaky Amatak	Kampot	Chres	Chum Kiri	11.94		
2	CW17a-CFAVC-MRD-KP-02-2020 (Lot 2)	Kasikor Samaki Rungreung		Srae Chaeng	Chum Kiri	8.1		
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1)	Lom Pung Samaky	Takeo	Lumpong	Bati	10.01		
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Sdok Sdam		Taing Yab	Prey Kabas	4.67		
5	CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1)	Dambe Rung Roeung	Tbong Khmum	Dam Bae	Dam Bae	9.77		
6	CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2)	Kdei SangKhoem Kasekar		Toul Snoul	Krouch Chhmar	12		
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sombo Meanchey	Kampong Cham	Soupeas	Stueng Trang	9.88		
8	CW17d-CFAVC-MRD-KC8-02-2020 (Lot 2)	Stung Trang Senchey		Soupeas		4.72		
Plan for rehabilitation in year 2020 of 4 Packages Road sub-projects with Length of						71.09		
2. Plan for road sub-projects planned in 2021								
9	CW17a-CFAVC-MRD-KP-01-2021	Sen Han Cham Reoun Phal	Kampot	Samrong Leu	Banteay Meas	5.31		
10	CW17a-CFAVC-MRD-KP-02-2021	Ratanak Pulrath Samaki		Damnak Sokrom	Dang Toung	6.44		
11	CW17a-CFAVC-MRD-KP-03-2021	Preykrang Meanrit		Mean Rith		6.9		
12	CW17a-CFAVC-MRD-KP-04-2021	Samaki Amatak		Srae Khnoung	Chum Kiri	3.83		
13	CW17b-CFAVC-MRD-TK01-2021	Kampeng Sok Sen Sambo	Takeo	Kampeng	Kirivong	5.4		
14	CW17b-CFAVC-MRD-TK02-2021	Samaky Trapeang Kralanh		Ou Saray	Tram Kak	8.25		
15	CW17b-CFAVC-MRD-TK03-2021	Bak Sey Rik Ray		Cheang Tong	Tram Kak	5.8		
16	CW17b-CFAVC-MRD-TK04-2021	Samaki Trapeang Chark		Trapeang Chak	Tramkak	3.4		
17	CW17b-CFAVC-MRD-TK05-2021	Trapeang Srangae		Trapaing Srangae	Tramkak	4.05		

18	CW17c-CFAVC-MRD-TBK-01-2021	Sammaky Meanchey	Tbong Khmum	Chak	Ou Reang Ov	8.15		
19	CW17c-CFAVC-MRD-TBK-02-2021	Lngieng Meanchey		Lngieng	Tbong Khmum	5.5		
20	CW17c-CFAVC-MRD-TBK-03-2021	Samaki Kak		Kak	Tbong Khmum	4.9		
21	CW17c-CFAVC-MRD-TBK-04-2021	Baitong Korksrok		Kok Srok	Dombae	2.98		
22	CW17c-CFAVC-MRD-TBK-05-2021	Akphirik Ponhea Kraek Dambae		Koang Kang	Ponhea Kraek	1.3		
23	CW17c-CFAVC-MRD-TBK-06-2021	Ponhea Kraek Rongroeung		Koang Kang	Ponhea Kraek	3.8		
24	CW17c-CFAVC-MRD-TBK-07-2021	Popel Meanchey		Popel	Ponhea Kraek	2.82		
25	CW17d-CFAVC-MRD-KC-01-2021	Akphivath Multhan Yeung	Kampong Cham	Taing Krasang	Batheay	3.93		
26	CW17d-CFAVC-MRD-KC-02-2021	Akpiwat Kaksekor		So Saen	Prey Chhor	5.5		
27	CW17d-CFAVC-MRD-KPC-03-2021	Ponluk Thmey		Peam Chi Kang	Kang Meas	5.04		
28	CW17d-CFAVC-MRD-KC-04-2021	Sammaki Baray Angdong Ang		Baray	Prey Chhor	7.77		
Plan for rehabilitation in year 2021 of 6 Packages Road sub-projects with Length of						101.07		
3. Plan for road sub-projects planned in 2022								
29	CW17b-CFAVC-MRD-TK1-2022	Sensok Toek Thla	Takeo	Trapaing Krasaing	Bati	7.33		
30	CW17b-CFAVC-MRD-TK2-2022	Phum Bey Meanchey		Kiri Chong Kaoh	Kirivong	1.5		
31	CW17b-CFAVC-MRD-TK3-2022	Phum Bey Samaky		Krapum Chhouk	Kaoh Andaet	0.55		
32	CW17b-CFAVC-MRD-TK4-2022	Champa Prey Phdav		Champa	Prey Kabas	3.8		
33	CW17b-CFAVC-MRD-TK6-2022	Rolous Meas		Thlea Prochum	Kaoh Andaet	6.28		
34	CW17b-CFAVC-MRD-TK7-2022	Samaky Amatak Khvav		Khvav	Samrong	7		
35	CW17b-CFAVC-MRD-TK8-2022	Cheung Kuon Choukchey		Cheung Kuon	Samrong	4.4		
36	CW17b-CFAVC-MRD-TK9-2022	Punleu Kasikar		Boeung Tranh Khang Cheung	Samrong	7.5		
37	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey		Tbong Khmum	Dambae	DamBae	13.10	
38	CW17c-CFAVC-MRD-TBK-02-2022	Kaksekor Dambae	Tuek Chrov		DamBae	17		
39	CW17c-CFAVC-MRD-TBK-03-2022	Romdoul Dountei	Doun Tei		Ponhea Kraek	14.84		
40	CW17c-CFAVC-MRD-TBK-04-2022	Lngieng Meanchey	Lngieng		Tbong Khmum	9.65		
41	CW17d-CFAVC-MRD-KC-01-2022	Toul Preah Vihea	Kampong Cham	Sompong Chey	Cheung Prey	5.80		
42	CW17d-CFAVC-MRD-KC-02-2022	Reamea Cheung Prey		Pdau Chum		3.75		
Plan for rehabilitation in year 2022 of 6 Packages Road sub-projects with Length of						79.85		
Total road planned to be studied within 3 years period is 48 lines and total of						252.01		

IX.3. GRM Implementation Status

145. The CFAVC project uses the existing complaint mechanisms through the local administration village chief, commune chief in Trapeang Run and as well for all subprojects.
146. There are two types of GRM, one team is for Category B established by GDR and was already established in 4 targeted provinces chaired by each provincial governor and for each PPIU assigned as member.
147. Another team of GRM is for Category C subprojects, not involved to GDR, this was actually established by subproject classified as category C. such as Trapeang Run irrigation subproject, Toul Pring and Kbal Tuek irrigation subprojects, and other two road subprojects (Phlov Lek 122, Khlong Tvea Wat Totea) - Phlov Tonle Bati and Wat Ang Andaet-Rumchek- Kraing Ampil).
148. Both category B and Category C GRM were also included in the 2020 annual monitoring report (Jan to Dec 2020) and submitted to ADB.

IX.4. Gender Action Plan Implementation

149. The Project is categorized as Effective Gender Mainstreaming. The project 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.
150. During the ADB review mission in November the Mission noted that the progress of GAP implementation is in line with the overall project progress. However, based on the feedback received from the gender focal points (GFPs) and ADB gender team, the gender team has streamlined and simplified the GAP without changes to the project.
151. Design and monitoring framework (DMF). The gender team held consultations with GFPs and select EA representatives on 4 November 2021. The gender focal at ADB informally endorsed the revised GAP (Attachment 4) but the endorsement from EA is pending
152. The Mission asked PMUs and gender consultants to implement the following: (i) conduct consultations on the revised GAP with the chair of Gender and Children Working Group, MAFF and Gender Mainstreaming Action Group of MOWRAM and MRD and submit the GAP endorsement letter to ADB by 31 December 2021; (ii) prepare a plan to specify how the project will engage Gender and Children Working Group and Women Farmers' Network in the project activities by 28 February 2022; (iii) submit the desk review of gender analysis of target value chains and propose the scope of the detailed study, if any, by 31 March 2022; (iv) integrate all activities and targets of GAP into the project performance and management system (PPMS) by 30 April 2022; (v) improve the quality of GAP progress table and data consistency by 31 May 2022; (vi) optimize the use of resources by joining other activities of the project or in collaboration with development partners ; and (vii) demonstrate capacity improvement of the participants quantitatively for any related gender trainings in the GAP progress table. The GAP progress table should be included in the overall project progress report and updated accumulatively. The Mission stressed that the bidding documents and contracts should include relevant GAP provisions for contractors to comply
153. During this reporting period several consultation meetings were organized with the ADB Gender focal points to discuss the modified GAP, proposed by the ADB. The ADB proposes to reduce the GAP target indicators from 20 to 11 and activities from 11 to 7 for the existing GAP to new GAP respectively. The new GAP is aligned with the DMF indicators, which were partly missing in the existing GAP and as well as in the ADB Operational Priorities² and in the internal data management. Another consultation is planned during November Q4 2021 to be hosted by the ADB with relevant EAs, IAs and the consultant teams. The new GAP will be applied for other ADB projects in the region such as in Myanmar and Laos PDR, it will be endorsed by the ADB Senior management. More details see Annex 11.

² All the GAP outputs and Targets for the new GAP should be directly aligned between the DMF and the GAP and as well as the ADB Operational Priorities (OPs) and internal data management.

154. The preparation of Training materials handouts to build the capacity of the provincial knowledge on gender mainstreaming, and capacity on work-plans improvements etc. The activity is referring to GAP target 16.
155. Meetings with the CS team was organized aiming to obtain knowledge and data from the project teams and aiming to plan for Social study/Gender analysis/Value Chain analysis. The concept note for the study was drafted and was shared to the TL and DTL on 15th September 2021 for reviewing and commenting. The ToR was advised to be submitted to the ADB Gender focal points for their reviews and advices. The activity is reflecting GAP target 15.
156. GAP monthly report for months of July, August and September are on track, the GFPs submitted their monthly reports within set deadlines. Usually the GFPs submit their monthly reports on the 15th of the month, and draft the GAP report is usually submitted on the 20th each month. The activity is reflecting GAP (Action 11).
157. The GAP bi-annual report Oct 2021 is under the process of preparation, this activity is reflecting to GAP action 11.

X. Compliance with Covenants During QR 4 2021

- Compliance with Policy Loan Covenants The Project complied with all Sector / Policy Covenants
- Compliance with Financial Covenants The project has been complying with the financial Covenants
- Compliance with Safeguard Covenants The project has been complying with the Safeguards Covenants
- Compliance with Other Covenants The project has been complying with the few other covenants mentioned in the loan and grant agreements

For details of the covenants are referred to Annex 12.

XI. Financial Management Action Plan

158. 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 Financial Management Plan is in progress – see Annex 13.

XII. Major Project Issues and Problems

159. AWPB 2021 was in principle approved and allowed to implement, but never officially yet signed and stamp by MEF and ADB. In addition, there is delay in introducing the AWPB 2021 to IA and PPIUs for project implementation.
160. The Ongoing Covid 19 Crisis continues to hamper implementation of activities. The lockdown of Phnom Penh and some provinces in April – May 2021 prohibited travel of staff, and any activity that required meetings. It also made ADB's supervision mission that was scheduled for April 2021 impossible, which had serious bearing on the (lack of approval) of the AWPB 2021.
161. The mobilization of international experts is challenging due to the need for a 2- week quarantine after arrival before allowing to enter Cambodia and in many countries also after the end of the assignment in their home country. As a result, many experts are working from their country of residence, which the PMU has permitted.
162. Late procurement of CS4 consultant is delaying the implementation of some activities of Output 3.
163. As mentioned in earlier progress report, the lack of CS05 DED and CS05 and CS01 capacities in the field of social safeguards have caused delays in feasibility studies and DED implementation that holds up implementation of the 1.a (irrigation) and 1.c (rural roads) subcomponents.
164. There is slow construction works progress for the PADCs, the Mechanization engineering

workshops and the warehouses at the start, and the reasons are due to several consecutive days of rainfall, which interfere in foundation works excavation and the roads to the project sites could not be accessed. However, some of the sites the construction works could progress well.

XIII. Budget for Next Year of 2022

165. Reference is made to Annex 14 for the MAFF, MOWRAM and MRD budgets for year 2022.

XIV. ADB Review Mission November 2021.

166. In the period 22 – 29 November a virtual ADB review mission was conducted. Table XIV.1 below shows the progress with the implementation of the Action Plan of this MOU.

Table XIV.1: Progress Implementation Action Plan MoU December ADB review mission

ACTION	DUE DATE	RESPONSIBLE	STATUS 31 DEC 21
Processing of the request for extension of the project completion date by 18 months to 31 March 2026 (i) Letter from MAFF to MEF (ii) MEF to ADB (iii) ADB to MEF	30 November 2021 31 December 2021 15 January 2022	PMU, MEF and ADB	<ul style="list-style-type: none"> • letter sent • Letter sent • Not due yet
Organization of Project Steering Committee meeting	31 January 2022	PMU	Scheduled for February 7, 2022
Approval of 2022 work plan and budget	15 February 2022	PMU, MEF	Not due yet
RGC Decision on IA for ponds and drip irrigation	31 January 2022	MEF	As PSC meeting
Analysis of needs for additional consultant inputs and associated budgets	15 January 2022	CS1, CS2 and CS5	In progress
Irrigation and water management infrastructure <ul style="list-style-type: none"> • Master list of the first and second batch of irrigation subprojects with climate resilience measures and detailed schedule • Completion of topographic surveys, feasibility studies, for the second batch of 10 irrigation subprojects • Confirmation of the final batch of irrigation subprojects • DED (including safeguards screening) and approvals • Contract signing for the completed schemes • Preparation of O&M plan for Trapeang Run Irrigation subproject completed • Impact assessment for Trapeang Run Irrigation subproject completed 	15 January 2022 31 March 2022 31 May 2022 30 June 2022 30 September 2022 31 December 2021 28 February 2022	CS1, CS5, and MOWRAM	In progress
Agricultural Cooperatives infrastructure <ul style="list-style-type: none"> • Invitation for bids for second batch of 35 	31 January 2022		

<ul style="list-style-type: none"> agriculture cooperatives including solar energy issued Master list of the first batch of agricultural cooperatives with climate actions and detailed schedule completed Identification of the remaining 25 ACs Master list of the second batch of agricultural cooperatives with climate actions and detailed schedule completed Invitation for bids for final batch of 25 agriculture cooperatives including solar energy issued 	<p>31 January 2022</p> <p>15 March 2022</p> <p>30 April 2022</p> <p>30 September 2022</p>	CS2, MAFF	In progress
<p>Rural connectivity infrastructure</p> <ul style="list-style-type: none"> Completed compensation payment for CW17b for Takeo province Construction of the first batch of 8 farm road subprojects completed Invitation for bids for the second batch of 20 rural road subprojects issued Quantification of COVID-19 impact on costing off farm road subprojects 	<p>31 December 2021</p> <p>30 September 2023</p> <p>28 February 2022</p> <p>31 January 2022</p>	CS1, CS5, GDR and MRD	In progress
<p>Laboratory infrastructure</p> <ul style="list-style-type: none"> Finalization of draft national standard for biofertilizer production and quality testing and manual on plant tissue culture Bidding documents for laboratory renovation, net house construction, and laboratory equipment submitted to ADB along with a status paper on laboratory renovation needs Status Paper on laboratory renovation Invitation for bids for laboratory renovation, net house, and laboratory equipment issued 	<p>31 January 2022</p> <p>31 December 2021</p> <p>31 December 2021</p> <p>1 February 2022</p>	CS2, GDA	In progress
<p>Renewable energy infrastructure</p> <p>Revised bidding document for first batch of biodigesters and compost huts submitted to ADB</p>	31 December 2021	CS2, GDAHP	14(iv)
<p>Climate-resilient varieties</p> <ul style="list-style-type: none"> Terms of reference for CS3 Package – Variety Development Consulting Firm improved Request for proposal for CS3 Package issued Policy brief to help CARDI's commercialization 	<p>31 December 2021</p> <p>1 February 2022</p> <p>30 April 2022</p>	CS2 and CARDI	In progress

program developed			
Capacity Building <ul style="list-style-type: none"> Adoption of ASEAN CSA guidelines for target crops Revised masterplan on capacity building for CSA, GAP and SRP 100 mango farmers (at least 30 women) trained on compliance with CAMGAP for tropical fruit 	31 May 2022 15 January 2022 30 June 2022	CS2, GDA PDAFF	In progress
<ul style="list-style-type: none"> Detailed training plan for FWUCs 	31 January 2022	CS2, MOWRAM	
Farm mechanization and extension Completion of solar system designs for PADCs and FMWs Training program on farm mechanization prepared	30 April 2022 31 March 2022	CS2, GDA	In progress)
Agribusiness policy and standards Approach to commercialization of SRP standards completed	31 August 2022	CS2	In progress
Climate finance and PPP Crop-centric PPP platforms and Inter-ministerial committee on PPP on target crops established Training program on green finance and CSA to financial institutions prepared	30 June 2022 31 January 2022	CS2, PMU and GDA	In progress
ICT for climate risk management Request for proposals to ICT firms issued	15 December 2021	PMU	Achieved
Procurement Updated procurement plan reviewed by the procurement review committee together with the 2022 annual work plan and budget and the revised contract awards and disbursement projections	3 December 2021	CS1 and PMU	In progress
Safeguards <ul style="list-style-type: none"> Project-specific safeguards clinic organized Semi-annual social and environmental safeguards monitoring report for July to December 2021 	28 February 2022 15 January 2022	CS1, CS5, PMUs and ADB PMU, CS1, and CS5	In progress In progress)
Gender Action Plan <ul style="list-style-type: none"> EA endorsement of updated GAP Preparation of a plan to engage Children Working Group and Network in the project activities Desk review of gender analysis of chains and proposal for the scope of the detailed study Integrate GAP activities and targets into the 	31 28 February 31 March 2022 30 April 2022	PMU and CS1 CS1 CS1 CS1 and PMU	Done In progress In progress

<ul style="list-style-type: none"> • Improve the quality of GAP progress table and • 2022 Annual work plan for GAP implementation 	31 May 2022	CS1	
	31 December 2021	CS1 and PMU	Done but still confusion about funding
Submission of APFS for 2021	30 June 2022	PMU	In progress
Updated PPMS	15 January	CS1	Achieved
Mid-term review mission	July 2022	ADB and PMU	

Annexes

Annex 1: Output 1.a Irrigation

Table A 1.1: Ia:Irrigation Implementation Progress as per 31 December 2021

Year	Package Number	Province	Commune	District	Subproject Name	Number of Subprojects/ Package	Command area, ha	Topo-survey progress	Geotechnical investigation progress	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark
1	2	3	4	5	6	7	8	9		10		11	12	13	
1. 2020 Schemes															
2020	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run	1	100	100%		100%		100%	100%	100%	Pre-impact assessment done from 27-31 Dec 2021
	MOWRAM-CFAVC-TBM-CW13.1	Tbong Khmum	PREASH THEAT	Ou Raing Ov	Tumrup Kbal Teuk	3	250	100%		100%		100%	100%	20%	
			Chikor	Tbong Khmum	Tuol Pring Reservoir		100	100%		100%	100%	100%	30%		
			Thmor Pich	Tbong Khmum	Trapeang Tros Reservoir		350	100%		100%	100%	100%			
	MOWRAM-CFAVC-TEO-CW15.1	Takeo	Trapaing Kra Nhoung	Tram Kak	Prey Kdouch Reservoir	2	550	100%		100%		100%	100%		
			Trapaing Kra Nhoung	Tram Kak	Kraing Empil Embankment		200	100%		100%	100%	100%			
	MOWRAM-CFAVC-KPC-CW14.1	Kampong Cham	Svay Teap	Chamkaler	Pram Kumpheak	2	900	100%		100%		100%	BER		
			Preach Andong	Stoeng Trong	O Kamprok		350	100%		100%	100%	BER			
	MOWRAM-CFAVC-KPT-CW12.1	Kampot	Srae Khnung	Chuom Kiri	Takouch	1	450	100%		50%		50%			
	Plan for rehabilitation in year 2020 consisting of 5 Packages covering command area of						9	3,250							
2.2021 Schemes															
2021	MOWRAM-CFAVC-TBM-CW13.2	Tbong Khmum	Chhouk	Krouch Chmar	Tbong Damrei Reservoir	2	600	83% of field data survey and 65% of the clean data received							
			Seda	Dambae	Kampong Raing Feeding Canal		250								
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk	3	800								
			Prey Yuthkar	Koh Andet	Kwaeng Tayee		468								
			Prey Romdeng	Kirivong	Prey Romdeng Canal		510								
MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	1	950									

Climate-Friendly Agribusiness Value Chains Sector Project (CFAVC)
Fourth Quarterly Progress Report: Oct. - Dec. 2021, Annual Progress Report: Jan. – Dec. 2021/Annual Report 2021

Year	Package Number	Province	Commune	District	Subproject Name	Number of Subprojects/ Package	Command area, ha	Topo-survey progress	Geotechnical investigation progress	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark			
	MOWRAM-CFAVC-KPT-CW12.2	Kampot	Sathpong/ Trameng/ Baniev	Chhouk	Trapeang Boeung	2	800											
			Kandori	Teuk Chhou	Kandori		650											
Plan for rehabilitation in year 2021 consisting of 4 Packages covering command area of						8	5028											
3. 2022 Schmes																		
2022	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	1400	83% of field data survey and 65% of the clean data received Signed contract								Under pre-selection & screening		
			Beung Nay	Prey Chhor	Teuk Cha West		1400								Under pre-selection & screening			
	MOWRAM-CFAVC-TBM-CW13.3	Tbong Khmum	Teuk Chrov	Dambae	Choam Taheung	2	1500										Under pre-selection & screening	
			Thmar Pich	Tbong Khmum	Trapaing Ampil		200								Under pre-selection & screening			
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kampeng	Kirivong	Pou Tasuy Reservoir	6	440											Under pre-selection & screening
			Prey Romdeng	Tram Kak	O' Rumdoul Reservoir		210										Under pre-selection & screening	
			Samraong	Tram Kak	Sdok Sab		300										Under pre-selection & screening	
			Kropum Chhouk	Koh Andet	Pralay 85		850										Under pre-selection & screening	
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650										Under pre-selection & screening	
	Soam	Kirivong	Soam Canal	400											Under pre-selection & screening			
MOWRAM-CFAVC-KPT-CW12.3	Kampot	Trapeang Pring	Teuk Chhou	Broweak Pong	1	70									Under pre-selection & screening			
Plan for rehabilitation in year 2022 consisting of 4 Packages covering command area of						11	7,420											
Total irrigation planned to be studied within 3 years period is 32 irrigation schemes and total of						28	15,698											

Table A 1.2: Ia: Irrigation Milestones as per 31 December 2021

Year	Package Number	Province	Commune	District	Subproject Name	Number of Sub projects/ Package	Command area, ha	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate roads and adaptation	Economic Internal Rate of Return	Advance amount paid				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. 2020 Irrigation Schemes																								
2020	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run	1	100	\$0.80	20-May-20	19-Jun-20	10-Sep-20	10-Nov-20	USS	685283.09	17-Nov-20	10 Months	100%	OK	14.10%	68528.3				
	MOWRAM-CFAVC-TBM-CW13.1	Tbong Khmum	PREASH THEAT	Ou Raing Ov	Tumnuop Kbal Teuk	3	250	\$0.67	15-Mar-21	3-Apr-21	NOL from ADB 28 Jul 2021	2-Aug-21	SSN	CW13.1:USD. 2,234,441.34.	1-Sep-21				9.63%					
			Chikor	Tbong Khmum	Tuol Pring Reservoir		100	\$0.91	15-Mar-21	13-Apr-21	NOL from ADB 28 Jul 2021	2-Aug-21	SSN	CW13.1:USD.2 ,234,441.34.	1-Sep-21	10				13.98%				
			Thmor Pich	Tbong Khmum	Trapeang Tros Reservoir		350	\$0.82	15-Mar-21	13-Apr-21	NOL from ADB 28 Jul 2021	2-Aug-21	SSN		1-Sep-21	10					13.57%			
MOWRAM-CFAVC-TEO-CW15.1	Takeo	Trapaing Kra Nhoung	Tram Kak	Prey Kdouch Reservoir	2	550	\$0.91	18-Mar-21	18-Apr-21	NOL with condition 11 Aug 2021	20 Dec 2021	KBH	CW15.1: SUD. 1,392,848.85		10									

Year	Package Number	Province	Commune	District	Subproject Name	Number of Sub projects/ Package	Command area, ha	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate roads and adaptation	Economic Internal Rate of Return	Advance amount paid				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
			Trapaing Kra Nhoung	Tram Kak	Kraing Empil Embankment		200	\$1.24	18-Mar-21	18-Apr-21	NOL with condition 11 Aug 2021	20 Dec 2021	KBH	CW15.1: SUD. 1,392,848.85					13.77%					
	MOWRAM-CFAVC-KPC-CW14.1	Kampong Cham	Svay Teap	Chamkaler	Pram Kumpheak	2	900	\$0.45	18-Mar-21	18-Apr-21			KBH						11.39%					
			Preach Andong	Stoeng Trong	O Kamprok		350	\$0.91	27-Aug-21	27-Sep-21			KBH						12.92%					
	MOWRAM-CFAVC-KPT-CW12.1	Kampot	Srae Khnung	Chuom Kiri	Takouch (Prey Takoch)	1	450	\$0.92											13.77%					
Plan for rehabilitation in year 2020 consisting of 5 Packages covering command area of						9	3,250																	
2. 2021 Schemes																								
2021	MOWRAM-CFAVC-TBM-CW13.2	Tbong Khmum	Chhouk	Krouch Chmar	Tbong Damrei Reservoir	2	600																	
			Seda	Dambae	Kampong Raing Feeding Canal	250																		
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk	3	800																	
			Prey Yuthkar	Koh Andet	Kwaeng Tayee		468																	
			Prey Romdeng	Kirivong	Prey Romdeng Canal		510																	

Year	Package Number	Province	Commune	District	Subproject Name	Number of Sub projects/ Package	Command area, ha	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate roads and adaptation	Economic Internal Rate of Return	Advance amount paid		
1	2	3	4	5	6	7	8	9	14	15	16	17	18	19	20	21	22	23	24	25		
	MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	1	950															
	MOWRAM-CFAVC-KPT-CW12.2	Kampot	Sathpong/Trameng/Baniev	Chhouk	Trapeang Boeung	2	800															
			Kandorl	Teuk Chhou	Kandorl		650															
Plan for rehabilitation in year 2021 consisting of 4 Packages covering command area of						8	5028															
3.2022 Schemes																						
2022	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	1400															
			Beung Nay	Prey Chhor	Teuk Cha West		1400															
	MOWRAM-CFAVC-TBM-CW13.3	Tbong Khmum	Teuk Chrov	Dambae	Choam Taheung	2	1500															
			Thmar Pich	Tbong Khmum	Trapaing Ampil		200															
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kampeng	Kirivong	Pou Tasuy Reservoir	6	440															
			Prey Romdeng	Tram Kak	O' Rumdoul Reservoir		210															
			Samraong	Tram Kak	Sdok Sab		300															
			Kropum Chhouk	Koh Andet	Pralay 85		850															
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650															
		Soam	Kirivong	Soam Canal	400																	
MOWRAM-CFAVC-KPT-CW12.3	Kampot	Trapeang Pring	Teuk Chhou	Broweak Pong	1	70																
Plan for rehabilitation in year 2022 consisting of 4 Packages covering command area of						11	7,420															
Total irrigation planned to be studied within 3 years period is 32 irrigation schemes and total of						28	15,698															

Annex 2: Output 1.c: Rural Roads

Table A 2.1: I.c Farm Road Implementation Progress as per 31 December 2021

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Topo-survey	Traffic count survey	Geotechnical investigation	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark	
1	2	3	4	5	6	7	8	9			10		11	12	13	14	
1. 2020 Farm roads																	
1	CW17a-CFAVC-MRD-KP-01-2020 (Lot 1)	Raksmei Samaky Amatak	Kampot	Chres	Chum Kiri	2020	11.94	100%			100%		Completed 17-Mar-21	BER finalized submit to ADB 2 Nov 2021	Not yet start	Not yet start	
2	CW17a-CFAVC-MRD-KP-02-2020 (Lot 2)	Kasikor Samaki Rungreung		Srae Chaeng	Chum Kiri		8.1	100%				100%		Completed 17-Mar-21	BER finalized submit to ADB 2 Nov 2021	Not yet start	Not yet start
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1)	Lom Pung Samaky	Takeo	Lumpong	Bati		10.01	100%				100%		Completed 28-Aug-2021	BER submitted to ADB for NOL (2nd week of Jul-2021) and ADB provided NOL on 12 Oct 21.	Not yet start, compensation was made from 8-10 Dec 2021	Not yet start
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Sdok Sdam		Taing Yab	Prey Kabas		4.67	100%				100%		Completed 28-Aug-2021	BER submitted to ADB for NOL (2nd week of Jul-2021) and ADB provided NOL on 12 Oct 21.	Not yet start, compensation was made from 8-10 Dec 2021	Not yet start
5	CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1)	Dambe Rung Roeung	Tbong Khmum	DamBae	DamBae		9.77	100%				100%		Completed 5-Oct-20	BER submitted to ADB for NOL 29-Jul-21 and ADB provided NOL on 25 Oct 21.	Not yet start	Not yet start
6	CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2)	Kdei SangKhoem Kasekar		Toul Snoul	Krouch Chhmar		12	100%				100%		Completed 5-Oct-20	BER submitted to ADB for NOL 29-Jul-21 and ADB provided NOL on 12 Oct 21.	Not yet start	Not yet start
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sombo Meanchey	Kampong Cham	Soupheas	Stueng Trang		9.88	100%				100%		Completed 6-Jan-21	BER submitted to ADB for NOL 29-Jul-21 and ADB provided NOL on 12 Oct 21.	Not yet start	Not yet start
8	CW17d-CFAVC-MRD-KC8-02-2020 (Lot 2)	Stung Trang Senchey		Soupheas			4.72	100%				100%		Completed 6-Jan-21	BER submitted to ADB for NOL 29-Jul-21 and ADB provided NOL on 12 Oct 21.	Not yet start	Not yet start

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Topo-survey	Traffic count survey	Geotechnical investigation	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark		
Plan for rehabilitation in year 2020 of 4 Packages Road sub-projects with Length of							71.09											
2. 2021 Farm Roads																		
1	CW17a-CFAVC-MRD-KP-01-2021 (Package No.5)	Sen Han Cham Reoun Phal	Kampot	Samrong Leu	Banteay Meas	2021	5.31	95%	95%	95%	100%		73%			Not yet start		
2	CW17a-CFAVC-MRD-KP-02-2021 (Package No.9)	Ratanak Pulrath Samaki		Damnak Sokrom			6.44	95%	95%	95%	100%		73%				Not yet start	
3	CW17a-CFAVC-MRD-KP-03-2021(Package No.9)	Preykrang Meanrit		Mean Rith	Dang Toung		6.9	95%	95%	95%	100%		73%				Not yet start	
4	CW17a-CFAVC-MRD-KP-04-2021 (Package No.5)	Samaki Amatak		Srae Khnoung	Chum Kiri		3.83	95%	95%	95%	100%		73%				Not yet start	
5	CW17b-CFAVC-MRD-TK01-2021(Package No.10)	Kampeng Sok Sen Sambo	Takeo	Kampeng	Kirivong		5.4	95%	95%	95%	100%		73%				Not yet start	
6	CW17b-CFAVC-MRD-TK02-2021(Package No.6)	Samaky Trapeang Kralanh		Ou Saray	Tram Kak		8.25	95%	95%	95%	100%		73%				Not yet start	
7	CW17b-CFAVC-MRD-TK03-2021(Package No.6)	Bak Sey Rik Ray		Cheang Tong	Tram Kak		4.9	95%	95%	95%	100%		73%				Not yet start	
8	CW17b-CFAVC-MRD-TK04-2021(Package No.10)	Samaki Trapeang Chak		Trapeang Chak	Tramkak		3.4	95%	95%	95%	100%		73%				Not yet start	
9	CW17b-CFAVC-MRD-TK05-2021(Package No.10)	Trapeang Srangae		Trapaing Srangae	Tramkak		4.05	95%	95%	95%	100%		73%				Not yet start	
10	CW17c-CFAVC-MRD-TBK-01-2021 (Package No.7)	Sammaky Meanchey	Tbong Khmum	Chak	Ou Reang Ov		8.15	95%	95%	95%	100%		73%				Not yet start	

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Topo-survey	Traffic count survey	Geotechnical investigation	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark	
11	CW17c-CFAVC-MRD-TBK-02-2021 (Package No.7)	Lngieng Meamchey		Lngieng	Tbong Khmum		5.5	95%	95%	95%	100%		73%			Not yet start	
12	CW17c-CFAVC-MRD-TBK-03-2021 (Package No.11)	Samaki Kak		Kak	Tbong Khmum		4.9	95%	95%	95%	100%			73%			Not yet start
13	CW17c-CFAVC-MRD-TBK-04-2021 (Package No.7)	Baitong Korksrok		Kok Srok	Dombae		2.83	95%	95%	95%	100%			73%			Not yet start
14	CW17c-CFAVC-MRD-TBK-05-2021 (Package No.11)	Akphirik Ponhea Kraek Dambae		Koang Kang	Ponhea Kraek		1.45	95%	95%	95%	100%			73%			Not yet start
15	CW17c-CFAVC-MRD-TBK-06-2021 (Package No.11)	Ponhea Kraek Rongroeng		Koang Kang	Ponhea Kraek		3.8	95%	95%	95%	100%			73%			Not yet start
16	CW17c-CFAVC-MRD-TBK-07-2021 (Package No.11)	Popel Meanchey		Popel	Ponhea Kraek		2.82	95%	95%	95%	100%			73%			Not yet start
17	CW17d-CFAVC-MRD-KC-01-2021 (Package No.12)	Akphivath Multhan Yeung	Kampong Cham	Taing Krasang	Batheay		3.93	95%	95%	95%	100%		73%			Not yet start	
18	CW17d-CFAVC-MRD-KC-02-2021 (Package No.12)	Akpiwat Kaksekor		So Saen	Prey Chhor		5.5	95%	95%	95%	100%			73%			Not yet start
19	CW17d-CFAVC-MRD-KPC-03-2021 (Package No.8)	Ponluk Thmey		Peam Chi Kang	Kang Meas		4.88	95%	95%	95%	100%			73%			Not yet start
20	CW17d-CFAVC-MRD-KC-04-2021 (Package No.8)	Sammaki Baray Angdong Ang		Baray	Prey Chhor		7.77	95%	95%	95%	100%			73%			Not yet start
Plan for rehabilitation in year 2021 of 8 Packages Road sub-projects with Length of							100.01										
3.2022 Farm Roads																	

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Topo-survey	Traffic count survey	Geotechnical investigation	FS	Date of start DED	Status of DED	Tendering progress	Construction	Remark		
1	CW17b-CFAVC-MRD-TK1-2022	Sensok Toek Thla	Takeo	Trapaing Krasaing	Bati	2022	7.33									Not yet start		
2	CW17b-CFAVC-MRD-TK2-2022	Phum Bey Meanchey		Kiri Chong Kaoh	Kirivong		1.5											Not yet start
3	CW17b-CFAVC-MRD-TK3-2022	Phum Bey Samaky		Krapum Chhouk	Kaoh Andaet		0.55											Not yet start
4	CW17b-CFAVC-MRD-TK4-2022	Champa Prey Phdav		Champa	Prey Kabas		3.8											Not yet start
5	CW17b-CFAVC-MRD-TK6-2022	Rolous Meas		Thlea Prochum	Kaoh Andaet		6.28											Not yet start
6	CW17b-CFAVC-MRD-TK7-2022	Samaky Amatak Khvav		Khvav	Samrong		7											Not yet start
7	CW17b-CFAVC-MRD-TK8-2022	Cheung Kuon Choukchey		Cheung Kuon	Samrong		4.4											Not yet start
8	CW17b-CFAVC-MRD-TK9-2022	Punleu Kasikar		Boeung Tranh Khang Cheung	Samrong		7.5											Not yet start
9	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey	Tbong Khmum	Dambae	DamBae	13.10										Not yet start		
10	CW17c-CFAVC-MRD-TBK-02-2022	Kaksekor Dambae		Tuek Chrov	DamBae	17											Not yet start	
11	CW17c-CFAVC-MRD-TBK-03-2022	Romdoul Dountei		Doun Tei	Ponhea Kraek	14.84											Not yet start	
12	CW17c-CFAVC-MRD-TBK-04-2022	Lngieng Meanchey		Lngieng	Tbong Khmum	9.65											Not yet start	
13	CW17d-CFAVC-MRD-KC-01-2022	Toul Preah Vihea	Kampong Cham	Sompong Chey	Cheung Prey	5.80										Not yet start		
14	CW17d-CFAVC-MRD-KC-02-2022	Reamea Cheung Prey		Pdau Chum		3.75											Not yet start	
Plan for rehabilitation in year 2022 of 6 Packages Road sub-projects with Length of							102.5											
Total road planned							273.63											

Table A 2.2: I.c Farm Road Milestones

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. 2020 Farm Roads																								
1	CW17a-CFAVC-MRD-KP-01-2020 (Lot 1)	Raksmei Samaky Amatak	Kampot	Chres	Chum Kiri	2020	11.94	1,488,481.62	10 th Aug 2021.	9-Sep-21	Bid Evaluation Report Being prepared	Not yet done, awaiting SS clearance	Not yet finalized	1,266,929.22										
2	CW17a-CFAVC-MRD-KP-02-2020 (Lot 2)	Kasikor Samaki Rungreung		Srae Chaeng	Chum Kiri		8.1	1,046,898.43				Not yet done, awaiting SS clearance	Not yet finalized		877,375.76									
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1)	Lom Pung Samaky	Takeo	Lumpong	Bati	2020	10.01	1,325,562.03	19-Mar-21	12-May-21	BER submitted to ADB for NOL on 5 th July 2021 and ADB provided NOL on 12 Oct. 2021	Not yet done, awaiting SS clearance	Henan Water Construction Group Co., Ltd.	1,243,719.86										
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Sdok Sdam		Taing Yab	Prey Kabas		4.67	1,110,942.22				Not yet done, awaiting SS clearance	Hout Chhoeun Construction Co., Ltd.		879,298.64									

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid	
5	CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1)	Dambe Rung Roeung	Tbong Khmum	DamBae	DamBae		9.77	1,475,481.45	2-Jun-21	2-Jul-21	BER submitted to ADB for NOL 29-Jul-21, and ADB provided NOL 25 Oct 2021	Not yet done, awaiting SS clearance	Heng Sambat Co., Ltd Import Export Transportation and Construction.	1,239,711.2							
6	CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2)	Kdei SangKheom Kasekar		Toul Snoul	Krouch Chhma			12				1,586,237.67			Not yet done, awaiting SS clearance	Heng Sambat Co., Ltd Import Export Transportation and Construction.	1,444,588.37				
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sombo Meanchey	Kampong Cham	Soupeas	Stueng Trang		9.88	1,280,831.31	2-Jun-21	2-Jul-21	BER submitted to ADB for NOL 29-Jul-21, ADB provided NOL 25 Oct 2021	Not yet done, awaiting SS clearance	MTA Construction Co., Ltd.	1,103,011.81							
8	CW17d-CFAVC-MRD-KC8-02-2020 (Lot 2)	Stung Trang Senchey		Soupeas								4.72	736,328.11			Not yet done, awaiting SS clearance	MTA Construction Co., Ltd.	611,183.48			

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid		
Plan for rehabilitation in year 2020 of 4 Packages Road sub-projects with Length of							71.09							8,665,818.34								
2. 2021 Farm Roads																						
1	CW17a-CFAVC-MRD-KP-01-2021 (Package No.5)	Sen Han Cham Reoun Phal	Kampot	Samrong Leu	Banteay Meas	2021	5.31	743,400														
2	CW17a-CFAVC-MRD-KP-02-2021 (Package No.9)	Ratanak Pulrath Samaki		Damnak Sokrom			6.44	901,600														
3	CW17a-CFAVC-MRD-KP-03-2021 (Package No.9)	Preykrang Meanrit		Mean Rith	Dang Toung		6.9	924,000														
4	CW17a-CFAVC-MRD-KP-04-2021 (Package No.5)	Samaki Amatak		Srae Khnoung	Chum Kiri		3.83	536,200														
5	CW17b-CFAVC-MRD-TK01-2021 (Package No.10)	Kampeng Sok Sen Sambo	Takeo	Kampeng	Kirivong		5.4	756,000														
6	CW17b-CFAVC-MRD-TK02-2021 (Package No.6)	Samaky Trapeang Kralanh		Ou Saray	Tram Kak		8.25	1,155,000														
7	CW17b-CFAVC-MRD-TK03-2021 (Package No.6)	Bak Sey Rik Ray		Cheang Tong	Tram Kak		4.9	686,000														

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid		
8	CW17b-CFAVC-MRD-TK04-2021 (Package No.10)	Samaki Trapeang Chak		Trapeang Chak	Tramka k		3.4	476,000														
9	CW17b-CFAVC-MRD-TK05-2021 (Package No.10)	Trapeang Srangae		Trapaing Srangae	Tramka k		4.05	567,000														
10	CW17c-CFAVC-MRD-TBK-01-2021 (Package No.7)	Sammaky Meanchey	Tbong Khmum	Chak	Ou Reang Ov		8.15	1,141,000														
11	CW17c-CFAVC-MRD-TBK-02-2021 (Package No.7)	Lngieng Meamchey		Lngieng	Tbong Khmum		5.5	770,000														
12	CW17c-CFAVC-MRD-TBK-03-2021 (Package No.11)	Samaki Kak		Kak	Tbong Khmum		4.9	686,000														
13	CW17c-CFAVC-MRD-TBK-04-2021 (Package No.7)	Baitong Korksrok		Kok Srok	Dombae		2.83	396,200														
14	CW17c-CFAVC-MRD-TBK-05-2021 (Package No.11)	Akphirik Ponhea Kraek Dambae		Koang Kang	Ponhea Kraek		1.45	203,000														
15	CW17c-CFAVC-MRD-TBK-06-2021 (Package No.11)	Ponhea Kraek Rongroeu ng		Koang Kang	Ponhea Kraek		3.8	394,800														
16	CW17c-CFAVC-MRD-TBK-07-2021 (Package No.11)	Popel Meanchey		Popel	Ponhea Kraek		2.82	394,800														
17	CW17d-CFAVC-MRD-KC-01-2021 (Package No.12)	Akphivath Multhan Yeung		Kampong Cham	Taing Krasang	Batheay		3.93	550,200													
18	CW17d-CFAVC-MRD-KC-02-2021 (Package No.12)	Akpiwat Kaksekor	So Saen		Prey Chhor		5.5	770,000														

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid		
19	CW17d-CFAVC-MRD-KPC-03-2021 (Package No.8)	Ponluk Thmey		Peam Chi Kang	Kang Meas		4.88	683,200														
20	CW17d-CFAVC-MRD-KC-04-2021 (Package No.8)	Sammaki Baray Angdong Ang		Baray	Prey Chhor		7.77	1,087,800														
Plan for rehabilitation in year 2021 of 8 Packages Road sub-projects with Length of							100.01	14,001,400														
3. 2022 Farm roads																						
1	CW17b-CFAVC-MRD-TK1-2022	Sensok Toek Thla	Takeo	Trapaing Krasaing	Bati	2022	7.33	1,026,200														
2	CW17b-CFAVC-MRD-TK2-2022	Phum Bey Meanchey		Kiri Chong Kaoh	Kirivong		1.5	210,000														
3	CW17b-CFAVC-MRD-TK3-2022	Phum Bey Samaky		Krapum Chhouk	Kaoh Andaet		0.55	77,000														
4	CW17b-CFAVC-MRD-TK4-2022	Champa Prey Phdav		Champa	Prey Kabas		3.8	532,000														
5	CW17b-CFAVC-MRD-TK6-2022	Rolous Meas		Thlea Prochum	Kaoh Andaet		6.28	879,200														
6	CW17b-CFAVC-MRD-TK7-2022	Samaky Amatak Khvav		Khvav	Samrong		7	980,000														
7	CW17b-CFAVC-MRD-TK8-2022	Cheung Kuon Choukchey		Cheung Kuon	Samrong		4.4	616,000.00														
8	CW17b-CFAVC-MRD-TK9-2022	Punleu Kasikar		Boeung Tranh Khang Cheung	Samrong		7.5	1,050,000														
9	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey	Tbong Khmum	Dambae	DamBae		13.10	1,834,000.														
10	CW17c-CFAVC-MRD-TBK-02-2022	Kaksekor Dambae		Tuek Chrov	DamBae		17	2,380,000														

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid	
11	CW17c-CFAVC-MRD-TBK-03-2022	Romdoul Dountei		Doun Tei	Ponhea Kraek		14.84	2,077,600													
12	CW17c-CFAVC-MRD-TBK-04-2022	Lngieng Meanchey		Lngieng	Tbong Khmum		9.65	1,351,000													
13	CW17d-CFAVC-MRD-KC-01-2022	Toul Preah Vihea	Kampong Cham	Sompong Chey	Cheung Prey		5.80	812,000													
14	CW17d-CFAVC-MRD-KC-02-2022	Reamea Cheung Prey		Pdau Chum			3.75	525,000													
Plan for rehabilitation in year 2022 of 6 Packages Road sub-projects with Length of							102.50	14,350,000													
Total road planned to be studied within 3 years period is 42 road lines and total of							273.63	38,308,200													

Annex 3: MAFF Civil Work Annual Progress, per January – December 2021

Table A 3.1: I.d. Agricultural Cooperatives Implementation Progress per 31 December 2021

No	Package Number	Subproject Name	# Subprojects / Package	Number of subprojects	Date of start DED	Status of DED	Tendering progress	Construction	Remark
1	2	3	4	5	6	7	8	9	10
1	CW7: Construction of Mechanization Workshops (not including major & minor equipment) & Supervision, Lot 1: Kampong Cham, Lot 2: Tboung Khmum, Lot 3: Kampot	Mechanization engineering workshop	1	3	Dec-19	Completed	Completed	In progress	
2	CW3a: Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units lot1, lot2, lot3 and lot4. (Storage sizes 50 tone, 100 tone and 200 tone.)	Agricultural Cooperative Storage Units	1	20	Dec-19	Completed	Completed	In progress	
3	CW4: Construction of Training Building for PADC (including infrastructure design and Equipment). Lot 1: Takeo, Lot 2: Tboung Khmum, Lot 3: Kampong Cham	Provincial Agricultural Development Center	1	3	Dec-19	Completed	Completed	In progress	
4	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 3: Kampot, (Bio-digester sizes of 4m3, 6m3 and 8m3.)	Biodigesters and compost huts	1	500 biodigesters and 250 compost huts	Mar-20	Completed	On going	Not yet start	
	CW19b: Installation and commissioning of 750 biodigesters and 375 compost huts Lot 1: Tboung, Khmum, Lot 2: Kampong Cham, Lot 3: Takeo, Lot 4: Kampot	Biodigesters and compost huts	1	750 biodigesters and 375 compost huts	Mar-2021	Completed	Not yet started	Not yet start	
5	D1a: Demonstration and Training for Laser land levelling (500ha)	Laser land levelling	1	500 ha	Oct-21	On going	Not yet start	Not yet start	
6	CW3b1 (2021): Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 21 units in 2021. Lot 1: Kampot, 8 Units Lot 2: Takeo, 13 Units	Agricultural Cooperative Storage Units	1	21	Jun-21	Completed	On going	Not yet start	
	CW3b2 (2021): Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 14 units in 2021 Lot 1: Kampong Cham, 4 Units Lot 2: Tboung Khmum, 10 Units	Agricultural Cooperative Storage Units	1	14	Jun-21	Completed	On going	Not yet start	
	G2: Rapid Test Kits = Bio / Organic Fertilizer Laboratory (materials and equipment)	National Agricultural Lab renovation and material installation	1	1	Oct-21	On going	Not yet started	Not yet start	

No	Package Number	Subproject Name	# Subprojects / Package	Number of subprojects	Date of start DED	Status of DED	Tendering progress	Construction	Remark
	CW18: Repairing Glasshouse for Germplasm Maintenance + net house	Net house	1	1	Oct-21	On going	Not yet started	Not yet start	
6	CS4 (2020): ICT (Including: Infrastructure, Software development, training, workshops and demonstrations, consultants, office operations and support costs)								

Table A 3.2: I.d AC Milestones as per 31 December 2021

No.	Package number	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid
1	2	3	6	7	8	9	10	11	12	13	14	15	15	17
1	CW7: Construction of Mechanization Workshops (not including major & minor equipment) & Supervision, Lot 1: Kampong Cham, Lot 2: Tboung Khmum, Lot 3: Kampot	180,464.88	16-Oct-20	16-Nov-20	Submission BER for Prior 18 March 2021	PMU not yet sign contract due to waiting ADB NOL to DDR	Hout Chhoeun Construction Co., Ltd	186,530.61		120 days	29 December 2021			
2	CW3a: Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units lot1, lot2, lot3 and lot4. (Storage sizes 50 tone, 100 tone and 200 tone.)	1,743,217	19-Oct-20	18-Nov-20	Submission BER for Prior 10 May 2021	Awaiting clearance of the DDR report.	Hout Chhoeun Construction Co.,Ltd	US 1,589, 932.93		150 days	20 January 2022 (120day)			
3	CW4: Construction of Training Building for PADC (including infrastructure design and Equipment) Lot 1: Takeo Lot 2: Tboung Khmum Lot 3: Kampong Cham	268,091.40 (include contingency 10%)	26-Oct-20	26-Nov-20	Submission BER for Period 7 June 2021	waiting to receive ADB NOL from 25 Jun 2021	Hout Chhoeun Construction Co.,Ltd	US268,091.40		120 days	29 December 2021			
4	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 3: Kampot (Bio-digester sizes of 4m3, 6m3 and 8m3.)	364,009	11 Jun 2021	12 Jul 2021						183 days				
5	CW19b: Installation and commissioning of 750 biodigesters and 375 compost huts Lot 1: Tboung, Khmum, Lot 2: Kampong, Cham, Lot 3: Takeo, Lot 4: Kampot,	544,484.00												
6	D1a: Demonstration and Training for Laser land levelling, (500ha)	300,000												

No.	Package number	Estimated Amount of the Package (USD in millions)	Date of issuance of Invitation for Bids	Deadline for bid submission	Submission of BER (for prior) / Submission of BER and signed contract (for post)	Date of signing the contract	Name of the winning contractor	Contract Amount awarded	Date of start of civil works	Duration of the works or supply	Actual date of completion of civil works	Remarks on measures for climate mitigation and adaptation	Economic Internal Rate of Return	Advance amount paid
1	2	3	6	7	8	9	10	11	12	13	14	15	15	17
7	CW3b1 (2021): Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 21 units in 2021. Lot 1: Kampot, 8 Units, Lot 2: Takeo, 13 Units	2,443,781.00												
8	CW3b2 (2021): Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 14 units in 2021. Lot 1: Kampong Cham, 4 Units, Lot 2: Tboung Khmum, 10 Units	2,010,591.00												
9	G2: Rapid Test Kits = Bio / Organic Fertilizer Laboratory (materials and equipment)	1,007,722.18												
10	CW18: Repairing Glasshouse for Germplasm Maintenance + net house	769,445.00												
11	CS4 (2020): ICT (Including: Infrastructure, Software development, training, workshops and demonstrations, consultants, office operations and support costs)	1,737,401	5 Feb 2021	21 Mar 2021	The Evaluation report for EoI and shortlisted consenting firms for period 28 June 2021 was submitted	Awaiting the NOL from the ADB on 12 July 2021	The Invitation Letter to 6 Application shortlisting on 6 Dec 2021 to submit proposal							

Note: N/A = cannot be computed, because of different units.

Annex 4: Physical Annual Progress as a percentage per January – December 2021

Table A 4.1: Overall Project Implementation Progress MEF Format, Status: Jan through Dec 2021

ACTIVITY/Implementing Agency	Assigned Weight	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of	As of
		15/01/21	15/02/21	15/03/2021	15/04/2021	15/05/2021	15/06/2021	15/07/2021	15/08/2021	15/09/2021	15/10/2021	15/11/2021	15/12/2021	1
1 Establish project PMU & PRC	0.50%	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
2 Recruitment of Consultants	0.50%	0.60	0.63	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
3 PMU Operation	4.00%	1.10	1.18	1.26	1.34	1.42	1.50	1.58	1.66	1.74	1.82	1.90	1.90	1.90
4 Social Safeguards and Resettlement	2.00%	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.20
5 Environmental Management	2.00%	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.20
6 Gender	1.00%	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.20
7 Implementation of Output 1 - MAFF	27.00%	1.79	2.15	2.84	3.18	3.46	3.77	4.08	6.57	6.88	7.19	7.39	7.62	7.62
8 Implementation of Output 1 - MOWRAM	13.50%	1.09	1.09	1.18	1.20	1.26	1.27	1.43	1.48	1.55	1.66	1.79	1.91	1.91
9 Implementation of Output 1 - MRD	13.50%	1.11	1.53	1.64	1.74	1.82	1.82	2.02	2.07	2.34	2.79	2.84	2.91	2.91
10 Implementation of Output - Unassigned	4.50%	0.13	0.13	0.13	0.13	0.13	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
11 Implementation of Output 2 - MAFF	12.60%	1.14	1.68	2.54	2.63	4.25	4.78	3.35	3.47	4.85	5.15	4.81	4.81	4.81
12 Implementation of Output 2 - MOWRAM	5.40%	0.23	0.31	0.32	0.33	0.34	0.35	0.36	0.41	0.42	0.43	0.44	0.44	0.44
13 Implementation of Output 3 - MAFF	13.50%	1.85	2.35	2.15	2.30	2.44	2.60	2.75	2.95	3.21	3.40	3.60	3.72	3.72
TOTAL (%)	100.00%	9.84	11.89	13.57	14.40	16.70	17.70	17.20	20.28	22.69	24.16	24.52	25.08	25.08

Table A 4.2: IE Progress

Output and Activities		Assigned weight	WEIGHTED PROGRESS (%)											
			Jan	Feb	March	April	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
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	1.21	1.21	1.31	1.34	1.40	1.41	1.59	1.65	1.72	1.85	1.99	2.12
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	0.14	0.14	0.14	0.14	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	1.24	1.70	1.82	1.93	2.02	2.02	2.24	2.30	2.60	3.10	3.16	3.24
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	0.84	0.94	1.41	1.50	1.59	1.69	1.78	4.31	4.41	4.50	4.59	4.59
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory	5.00	0.75	0.96	1.17	1.38	1.53	1.69	1.84	2.00	2.15	2.31	2.36	2.36
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	5.00	0.20	0.26	0.29	0.34	0.36	0.43	0.49	0.55	0.62	0.67	0.72	0.84
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	5.00	0.19	0.24	0.28	0.32	0.35	0.39	0.42	0.44	0.47	0.51	0.54	0.68
sub-total Output 1		65.00	4.58	5.44	6.43	6.95	7.41	7.64	8.37	11.26	11.99	12.94	13.36	13.84
Output 2 – Climate-smart Agriculture and Agribusiness Promoted														
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	0.30	0.43	0.51	0.58	0.65	0.71	0.78	0.85	0.91	0.97	0.99	0.99
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness developm	5.00	0.52	0.54	0.57	0.59	0.65	0.64	0.74	0.81	0.88	0.95	0.75	0.76
2.c.1	27 FWUCS of FWUGS made full operational	3.00	0.24	0.34	0.35	0.36	0.37	0.38	0.39	0.44	0.46	0.47	0.48	0.48
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irriga	3.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	0.23	0.45	0.88	0.88	0.88	1.10	1.10	1.10	1.90	1.90	1.90	1.90
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	0.23	0.45	0.88	0.88	2.55	2.85	1.10	1.10	1.70	1.90	1.70	1.70
sub-total Output 2		20.00	1.51	2.22	3.18	3.29	5.11	5.70	4.13	4.31	5.85	6.20	5.83	5.84
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	0.47	0.51	0.55	0.60	0.64	0.68	0.72	0.76	0.81	0.86	0.91	0.95
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	0.47	0.52	0.57	0.62	0.66	0.71	0.75	0.79	0.83	0.87	0.93	1.02
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	0.44	0.86	0.48	0.50	0.52	0.54	0.56	0.64	0.61	0.63	0.65	0.65
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.40	0.60	0.66	0.72	0.72
3.e	30 agribusinesses trained in green finance and CSA	2.00	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.44
3.f	20,000 Households provided with information on climate risk-sharing instrument	2.00	0.20	0.22	0.23	0.25	0.26	0.28	0.29	0.30	0.32	0.34	0.35	0.35
3.g	Supporting Climate Risk Management through Information and Communication	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sub-total Output 3		15.00	2.06	2.62	2.39	2.56	2.71	2.88	3.05	3.28	3.56	3.78	4.00	4.13

iii	MAFF													
	Output 1	30.00	1.98	2.39	3.15	3.54	3.84	4.19	4.53	7.30	7.65	7.98	8.21	8.47
	Output 2	14.00	1.26	1.87	2.82	2.92	4.73	5.31	3.72	3.86	5.39	5.72	5.34	5.35
	Output 3	15.00	2.06	2.62	2.39	2.56	2.71	2.88	3.05	3.28	3.56	3.78	4.00	4.13
	subtotal	59.00	5.31	6.88	8.37	9.02	11.28	12.39	11.30	14.43	16.60	17.48	17.55	17.95
	MOWRAM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Output 1	15.00	1.21	1.21	1.31	1.34	1.40	1.41	1.59	1.65	1.72	1.85	1.99	2.12
	Output 2	6.00	0.25	0.35	0.36	0.37	0.38	0.39	0.40	0.46	0.47	0.48	0.49	0.49
	subtotal	21.00	1.46	1.56	1.67	1.71	1.78	1.80	1.99	2.10	2.19	2.32	2.48	2.61
	MRD	15.00	1.24	1.70	1.82	1.93	2.02	2.02	2.24	2.30	2.60	3.10	3.16	3.24
	Undecided	5.00	0.14	0.14	0.14	0.14	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	TOTAL Output (1 + 2 + 3)	100.00	8.15	10.28	12.00	12.80	15.23	16.22	15.55	18.84	21.40	22.92	23.19	23.81

Table A 4.3: DMF Progress

Output and Activities		Assigned weight	WEIGHTED PROGRESS (%)											
			Jan	Feb	March	April	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
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	1.21	1.21	1.31	1.34	1.40	1.41	1.59	1.65	1.72	1.85	1.99	2.12
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	0.14	0.14	0.14	0.14	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	1.24	1.70	1.82	1.93	2.02	2.02	2.24	2.30	2.60	3.10	3.16	3.24
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	0.84	0.94	1.41	1.50	1.59	1.69	1.78	4.31	4.41	4.50	4.59	4.59
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	5.00	0.75	0.96	1.17	1.38	1.53	1.69	1.84	2.00	2.15	2.31	2.36	2.52
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	5.00	0.20	0.26	0.29	0.34	0.36	0.43	0.49	0.55	0.62	0.67	0.72	0.84
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	5.00	0.19	0.24	0.28	0.32	0.35	0.39	0.42	0.44	0.47	0.51	0.54	0.68
sub-total Output 1		65.00	4.58	5.44	6.43	6.95	7.41	7.64	8.37	11.26	11.99	12.94	13.36	14.00
Output 2 – Climate-smart Agriculture and Agribusiness Promoted														
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	0.30	0.43	0.51	0.58	0.65	0.71	0.78	0.85	0.91	0.97	0.99	0.99
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	5.00	0.52	0.54	0.57	0.59	0.65	0.64	0.74	0.81	0.88	0.95	0.75	0.76
2.c.1	27 FWUCS of FWUGS made full operational	3.00	0.24	0.34	0.35	0.36	0.37	0.38	0.39	0.44	0.46	0.47	0.48	0.48
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irrigation schemes	3.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	0.23	0.45	0.88	0.88	0.88	1.10	1.10	1.10	1.90	1.90	1.90	1.90
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	0.23	0.45	0.88	0.88	2.55	2.85	1.10	1.10	1.70	1.90	1.70	1.70
sub-total Output 2		20.00	1.51	2.22	3.18	3.29	5.11	5.70	4.13	4.31	5.85	6.20	5.83	5.84

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	0.47	0.51	0.55	0.60	0.64	0.68	0.72	0.76	0.81	0.86	0.91	0.95
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	0.47	0.52	0.57	0.62	0.66	0.71	0.75	0.79	0.83	0.87	0.93	1.02
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	0.44	0.86	0.48	0.50	0.52	0.54	0.56	0.64	0.61	0.63	0.65	0.65
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.40	0.60	0.66	0.72	0.72
3.e	30 agribusinesses trained in green finance and CSA	2.00	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.44
3.f	20,000 Households provided with information on climate risk-sharing instruments	2.00	0.20	0.22	0.23	0.25	0.26	0.28	0.29	0.30	0.32	0.34	0.35	0.35
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	sub-total Output 3	15.00	2.06	2.62	2.39	2.56	2.71	2.88	3.05	3.28	3.56	3.78	4.00	4.13
OUTPUT	Output 1	65.00	4.58	5.44	6.43	6.95	7.41	7.64	8.37	11.26	11.99	12.94	13.36	14.00
	Output 2	20.00	1.51	2.22	3.18	3.29	5.11	5.70	4.13	4.31	5.85	6.20	5.83	5.84
	Output 3	15.00	2.06	2.62	2.39	2.56	2.71	2.88	3.05	3.28	3.56	3.78	4.00	4.13
	TOTAL Output (1 + 2 + 3)	100.00	8.15	10.28	12.00	12.80	15.23	16.22	15.55	18.84	21.40	22.92	23.19	23.96

1.0	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	TNA for LAB staff	No	1	10	0.5	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50	100.00	1.0	0.50						
		DED & Procurement	No	1	20	1	20.00	0.2	0.20	20.00	0.2	0.20	30.00	0.3	0.30	40.00	0.4	0.40	45.00	0.5	0.50	55.00	0.6	0.55	60.00	0.6	0.60	65.00	0.7	0.65	70.00	0.7	0.70	75.00	0.8	0.75	90.00	0.9	0.90						
		Implementation	No	1	60	2.5	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00				
		Training of staff	Person	100	10	0.5	10.00	10.0	0.05	12.00	12.0	0.06	14.00	14.0	0.07	15.00	15.0	0.08	16.00	16.0	0.08	17.00	17.0	0.09	18.00	18.0	0.09	19.00	19.0	0.10	20.00	20.0	0.10	21.00	21.0	0.11	22.00	22.0	0.11	23.00	23.0	0.12			
		On-the job training	Person	50	10	0.5	0.00	0.0	0.00	40.00	20.0	0.20	60.00	30.0	0.30	80.00	40.0	0.40	100.00	50.0	0.50	120.00	60.0	0.60	140.00	70.0	0.70	160.00	80.0	0.80	180.00	90.0	0.90	200.00	100.0	1.00	200.00	100.0	1.00	200.00	100.0	1.00			
		Subtotal			100	5			0.75			0.96			1.17			1.38			1.53			1.69			1.84			2.00			2.15			2.31			2.36			2.52			
1.1.1	12,000 Bio-digesters made operational benefitting 80,000 persons (50% are women)	Identification of Bio-digesters	Biodigester	12,000	10	0.5	4.75	570.0	0.02	5.33	640.0	0.03	5.75	690.0	0.03	6.29	755.0	0.03	6.92	830.0	0.03	7.46	895.0	0.04	8.08	970.0	0.04	8.71	1,045.0	0.04	9.25	1,110.0	0.05	9.90	1,188.0	0.05	10.48	1,258.0	0.05	11.07	1,328.0	0.06			
		National Policy and Standards of Biodigester and bioslurry	policy	1	10	0.5	10.00	0.1	0.05	15.00	0.2	0.08	15.00	0.2	0.08	20.00	0.2	0.10	20.00	0.2	0.10	25.00	0.3	0.13	30.00	0.3	0.15	34.00	0.3	0.17	40.00	0.4	0.20	45.00	0.5	0.23	50.00	0.5	0.25	60.00	0.6	0.30			
		DED & Tender file	document	4	10	0.5	12.50	0.5	0.06	13.75	0.6	0.07	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	16.25	0.7	0.08	17.50	0.7	0.09	20.00	0.8	0.10	20.00	0.8	0.10	20.00	0.8	0.10	25.00	1.0	0.13			
		Procurement	document	4	10	0.5	7.50	0.3	0.04	8.75	0.4	0.04	10.00	0.4	0.05	10.00	0.4	0.05	10.00	0.4	0.05	15.00	0.6	0.08	16.25	0.7	0.08	17.50	0.7	0.09	17.50	0.7	0.09	17.50	0.7	0.09	17.50	0.7	0.09	20.00	0.8	0.10			
		Construction of biodigesters	Biodigester	12,000	50	2.5	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00	0.03	3.0	0.00
		Subtotal			100	5			0.20			0.26			0.29			0.34			0.36			0.43			0.49			0.55			0.62			0.67			0.72			0.84			
1.1.2	6,000 Compost-huts made operational benefitting 20,000 persons (50% are women)	Identification of compost-huts	Compost hut	6,000	10	0.5	2.25	135.0	0.01	2.75	165.0	0.01	3.47	208.0	0.02	3.97	238.0	0.02	4.63	278.0	0.02	5.22	313.0	0.03	5.78	347.0	0.03	6.37	382.0	0.03	6.87	412.0	0.03	7.45	447.0	0.04	8.12	487.0	0.04	8.70	522.0	0.04			
		DED & Tender file	document	4	20	1	12.50	0.5	0.13	13.75	0.6	0.14	15.00	0.6	0.15	16.25	0.7	0.16	16.25	0.7	0.16	16.25	0.7	0.16	16.25	0.7	0.16	16.25	0.7	0.16	17.50	0.7	0.18	18.75	0.8	0.19	18.75	0.8	0.19	30.00	1.2	0.30			
		Procurement	document	4	10	0.5	7.50	0.3	0.04	8.75	0.4	0.04	10.00	0.4	0.05	11.25	0.5	0.06	12.50	0.5	0.06	13.75	0.6	0.07	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08	15.00	0.6	0.08
		Construction of compost huts	Compost hut	6,000	50	2.5	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Training of beneficiaries	Families	6,000	10	0.5	4.17	250.0	0.02	8.50	510.0	0.04	12.83	770.0	0.06	16.67	1,000.0	0.08	21.17	1,270.0	0.11	25.83	1,550.0	0.13	29.83	1,790.0	0.15	33.33	2,000.0	0.17	37.83	2,270.0	0.19	42.17	2,530.0	0.21	46.50	2,790.0	0.23	51.33	3,080.0	0.26			
		Subtotal			100	5			0.19			0.24			0.28			0.32			0.35			0.39			0.42			0.44			0.47			0.51			0.54			0.68			
Total for Output 1				65		64.1		4.58		5.44		6.43		6.95		7.41		7.64		8.37		11.26		11.99		12.94				13.36			14.00												

Subtotal				100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	14500	15000								
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	Identification and Initial Survey	No	4	10	0.2	25.00	1.0	0.05	50.00	2.0	0.10	75.00	3.0	0.15	75.00	3.0	0.15	75.00	3.0	0.15	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20						
		DED & Tender file	No	4	35	0.7	25.00	1.0	0.18	50.00	2.0	0.35	75.00	3.0	0.53	75.00	3.0	0.53	75.00	3.0	0.53	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70			
		Procurement	No	1	10	0.2	0.00	0.0	0.00	0.00	0.0	0.00	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20			
		Construction	No	3	40	0.8	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0				
		Training of users (50% are women)	No	4	5	0.1	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0				
		subtotal			100	2.00			0.23			0.45			0.88			0.88			0.88			1.10			1.10			1.10			1.90			1.90			1.90			
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	Identification and Initial Survey	No	4	10	0.2	25.00	1.0	0.05	50.00	2.0	0.10	75.00	3.0	0.15	75.00	3.0	0.15	75.00	3.0	0.15	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20	100.00	4.0	0.20						
		DED & Tender file	No	4	35	0.7	25.00	1.0	0.18	50.00	2.0	0.35	75.00	3.0	0.53	75.00	3.0	0.53	75.00	3.0	0.53	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70	100.00	4.0	0.70			
		Procurement	No	1	10	0.2	0.00	0.0	0.00	0.00	0.0	0.00	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20			
		Construction	No	4	40	0.8	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0				
		Training of users (50% are women)	No	4	5	0.1	0.00	0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0				
		subtotal			100	2.00			0.23			0.45			0.88			0.88			2.55			2.85			1.10			1.10			1.70			1.70			1.70			
Total for Output 2			15			20.00			1.51			2.22			3.18			3.29			5.11			5.70			4.13			4.31			5.85			6.00			5.83			5.84

Table 4.6. Output 3, CFAVC Project Implementation Progress, Status from Jan through Dec 2021

ACTIVITY	SUBACTIVITY	UNIT	DMF SCORE	OVERALL TARGET	Sub-Weight (%)	DMF weight (%)	Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress in Apr. 2021			Progress in May 2021			Progress in Jun. 2021			Progress in Jul 2021			Progress in Aug. 2021			Progress in Sept. 2021			Progress in Oct. 2021			Progress in Nov. 2021			Progress in Dec. 2021			
							Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
3.a	Good Agriculture Practice for tropical fruit endorsed	Draft of Climate Smart and Gender Responsive Agrib-policy	Policy	2	1	20	0.4	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40
		Draft CSA policy	Policy		1	20	0.4	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24	65.00	0.6	0.24
		Draft guidance manual for climate neutrality and adaption for agribusiness operation	Prakas		1	20	0.4	1.00	0.01	0.00	1.50	0.015	0.01	2.00	0.02	0.01	2.50	0.025	0.01	2.60	0.026	0.01	2.70	0.027	0.01	3.00	0.03	0.01	3.50	0.035	0.01	3.70	0.037	0.01	8.00	0.08	0.03	8.50	0.085	0.03	9.00	0.09	0.04
		Draft IDP strategy for climate friendly agribusiness			1	20	0.4	0.00	0.0	0.00	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24
		Draft PPP framework formulated	Framework		1	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	1.00	0.010	0.00	1.50	0.015	0.01	1.80	0.018	0.01	2.00	0.02	0.01	2.50	0.025	0.01	2.70	0.027	0.01	3.00	0.03	0.01	3.20	0.032	0.01	3.50	0.035	0.01	4.00	0.04	0.02
	Subtotal						100	2.00			0.44			0.51			0.55			0.60			0.64			0.68			0.72			0.76			0.81			0.86			0.91		
3.b	Good Agriculture Practice for organic fertilizer endorsed	Guidance manual for climate neutrality and adaptation standards for agribusiness operation	Strategy	2	1	20	0.4	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40
		Climate-friendly become more widely utilized with eight of largest Cambodia millers/exporters being part of alliance	Rice miller		8	15	0.3	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Standards on CamGAP tropical fruit formation	Standard		1	20	0.4	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24	70.00	0.7	0.28
		Development of standards for organic fertilizer	Standard		1	15	0.3	10.00	0.1	0.03	15.00	0.2	0.05	25.00	0.3	0.08	30.00	0.3	0.09	35.00	0.4	0.11	45.00	0.5	0.14	50.00	0.5	0.15	55.00	0.6	0.17	60.00	0.6	0.18	65.00	0.7	0.20	75.00	0.8	0.23	80.00	0.9	0.27
		Development of IDP strategies for climate friendly agribusiness	Strategy		1	5	0.1	0.00	0.0	0.00	10.00	0.1	0.01	15.00	0.2	0.02	25.00	0.3	0.03	30.00	0.3	0.03	35.00	0.4	0.04	40.00	0.4	0.04	45.00	0.5	0.05	50.00	0.5	0.05	55.00	0.6	0.06	65.00	0.7	0.07	65.00	0.7	0.07
		National standards on biodegester development	Standard		1	5	0.1	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Socialize GAP Standards for tropical fruit	No		2	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal					100	2.00			0.47			0.52			0.57			0.62			0.66			0.71			0.75			0.79			0.83			0.87			0.93			1.02	

3.c	50 Staff from financial institutions trained in CSA and green finance	Assessment TNA on CSA and Green finance	No	1	20	0.4	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40	100.00	1.0	0.40				
		Develop training material for staff training in CSA	No	1	20	0.4	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24	60.00	0.6	0.24	
		Develop training material for staff training in green finance	No	1	20	0.4	0.00	0.0	0.00	100.00	1.0	0.40	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Implementation of training on green finance in CSA	Staff	50	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Implement training in green finance	Staff	50	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Subtotal				100	2.00			0.44			0.86			0.48			0.90			0.52			0.54			0.56			0.64			0.81			0.83			0.65			0.65
3.d	30 agribusinesses trained in green finance and CSA	Assessment TNA on CSA and Green finance	TNA	1	10	0.2	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20				
		Develop training material for staff training in CSA	no	1	20	0.4	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24	60.00	0.6	0.24	
		Develop training material for staff training in green finance	no	1	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Implementation of training on green finance in CSA	Staff	30	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Implement training in green finance	Staff	30	30	0.6	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Subtotal				100	2.00			0.24			0.26			0.28			0.30			0.32			0.34			0.36			0.40			0.80			0.66			0.72			0.72
3.e	20,000 Households provided with information on climate risk-sharing instruments	Assessment of TNA on CSA and Green finance	TNA	1	10	0.2	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20				
		Develop training material for staff training in CSA	Set	1	20	0.4	10.00	0.1	0.04	15.00	0.2	0.06	20.00	0.2	0.08	25.00	0.3	0.10	30.00	0.3	0.12	35.00	0.4	0.14	40.00	0.4	0.16	45.00	0.5	0.18	50.00	0.5	0.20	55.00	0.6	0.22	60.00	0.6	0.24	60.00	0.6	0.24	
		Develop climate risk sharing mechanism instrument	Set	1	20	0.4	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Awareness raising on weather and climate risk information sharing to communities	Household	20,000	50	1	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Subtotal				100	2.00			0.24			0.26			0.28			0.30			0.32			0.34			0.36			0.38			0.40			0.42			0.44			0.44
		3.f	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	Implementation of TNA	No	1	10	0.2	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20	100.00	1.0	0.20		
Develop training material for staff training in green finance	No			1	15	0.3	0.00	0.0	0.00	5.00	0.1	0.02	10.00	0.1	0.03	15.00	0.2	0.05	20.00	0.2	0.06	25.00	0.3	0.08	30.00	0.3	0.09	34.00	0.3	0.10	40.00	0.4	0.12	45.00	0.5	0.14	50.00	0.5	0.15	50.00	0.5	0.15	
Implementation of training on green finance in CSA	Persons			20,000	75	1.5	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
Subtotal						100	2.00			0.20			0.22			0.23			0.25			0.26			0.28			0.29			0.30			0.32			0.34			0.35			0.35
3.9	sub-total Output 3	Development of ICT	No	1	55	1.65	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00				
		Purchase of equipment	No	1	20	0.6	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Installation of the center	No	1	25	0.75	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	
		Subtotal				100	3			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			
Total for Output 3				15		15.00			2.03			2.62			2.39			2.56			2.71			2.88			3.05			3.28			3.56			3.78			4.00			4.13	

Annex 5: Contracts planned to be awarded - Details of Utilization of funds

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
I. MAFF								
Civil Works								
<u>CW-7/CFAVC/MAFF/2021:</u> The Construction of Mechanization Workshops (not including major & minor equipment) & Supervision - Lot 1: Kampot, Lot 2: Tbong Khmum, Lot 3: Kampong Cham-	180,464.88	186,530.61	Q3-2021	Q4-2021	ADB	NCB	NCB	Lot 1: Kampot= 62,176.87, Lot 2: Tbong Khmum= 62,176.87, Lot 3: Kampong Cham = 62,176.87
<u>CW-3a/CFAVC/MAFF/2021:</u> The Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units, lot1: Kampot, lot2: Takeo, lot3: Kampong Cham and lot4: Tbong Khum –	1,743,217.00	1,589,932.9	Q3-2021	Q1 2022	ADB	NCB	NCB	Lot1: Kampot =366,834.92, Lot2: Takeo=352,019.30, Lot3: Kampong Cham= 412,637.88, Lot4: Tbong khmum=458,440.83

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
<u>CW4/CFAVC/MAFF/2021:</u> The Construction of Training Building for PADC (including infrastructure design and Equipment) –, Lot 1: Takeo, Lot 2: Tbong Khmum and Lot 3: Kampong Cham	268,091.40	282,461.93	Q3-2021	Q4-2021	ADB	NCB	NCB	Lot1: Takeo= 94,290.68 Lot2: Tbong Khum=92,954.64, Lot3: Kampong Cham=95,186.61
<u>CW-19a/CFAVC/MAFF/2021:</u> The Supply, Installation and commissioning of 500 bio digesters and 250 compost huts* -, Lot 1: Kampot Khmum, Lot 2: Takeo, Lot 3: Kampong Cham and Lot 3: Tbong Khum	364,009.00		Q4-2021	Q4-2022	GCF	NCB	NCB	PRC-MEF is reviewing on BER report

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
<u>CW-3b1/CFAVC/MAFF/2021:</u> The Construction of Agricultural cooperative storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design <u>14 Units</u> in 2021 Lot1 (Kampong Cham) 5 Units Lot2 (Tbong Khmum) 9 Units	1,616,919				ADB	NCB	NCB	
<u>CW-3b2/CFAVC/MAFF/2021:</u> The Construction of Agricultural cooperative storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design <u>21 Units</u> in 2021 Lot 3 (Kampot) 8 Units Lot 4 (Takeo) 13Units	1,996,551				ADB	NCB	NCB	

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
CW-3b3/2022: The Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 12 units in 2022 Lot 1: Kampong Cham Lot 2: Tbong Khmum	1,717,682				ADB	NCB	NCB	
CW-3b4/2022: Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 13 units in 2022 Lot 3 Kampot Lot 4 Takeo	1,860,822				ADB	NCB	NCB	
CW-1a1/: On-farm rainfall water collection ponds Kampot province (20 Ponds)	200,000				ADB	NCB		

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
CW-1a2/: On-farm rainfall water collection ponds Thong Khmum province (20 Ponds)	200,000				ADB	NCB		
CW-1b1/: On-farm rainfall water collection ponds Kampong Cham province (20 Ponds)	200,000				ADB	NCB		
CW1b2/: On-farm rainfall water collection ponds Kampong Cham province (20 Ponds)	200,000				ADB	NCB		
CW-5/: Renovation of Agriculture Extension Building in Kampot	20,000				ADB	Shopping		
CW-11a/: Construction of 04 dryer sheds for 100-ton warehouse (4 X \$30,000)	120,000				ADB	NCB		
CW-7a/: Construction of Mechanization Workshops & Supervision for Takeo Province	62,000				ADB	Shopping		

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
CW-19b/: Installation and commissioning of 750 bio digesters and 375 compost huts* Lot 1: Tbong Khmum Lot 2: Kampong Cham Lot 3: Takeo Lot 3: Kampot	544,484				GCF	NCB		
CW-18a/: Repairing Glasshouse for Germplasm Maintenance + net house	332,310				ADB	NCB		
CW-1b1/: On-Farm Water Catchment Ponds - for 4 provinces (remaining 720)	8,524,251					NCB		
Subtotal Civil works =	<u>20,150,801.28</u>							
Goods								
D1/: Demonstration and Training for Laser land levelling (3,500ha)	1,979,592				GFC	NCB		
G-2/: Rapid Test Kits + Bio / Organic Fertilizer Laboratory (materials and equipment)	1,007,722.18				ADB	NCB		
G-5a/: Pick-up Vehicles (2 units x \$40,000)	80,000				ADB	Shopping		
G-6a/: Motorcycle (16 units x \$2,200)	35,200				ADB	Shopping		

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
G-14/: - Supply circulated cylinder dryers for the 100-ton warehouses (4 Units x US\$75,700) -Supply electrical voltage transformer set for 4 Units x \$27,000) circulated cylinder dryers	62,000				ADB	Shopping		
G4/: Equipment for mechanization workshop for 4 provinces (Tbong Khmu, Kampong Cham, Kampot, and Takeo)	656,250				ADB	NCB		
G1a/: Biotechnology (NAL) Laboratory (including tissue culture house equipment)	997,750				ADB	NCB		
G3a/: Equipment & Materials for 2 Drip Irrigations systems (includes tube wells/water source connection, solar pumps and other agricultural inputs and training)	182,460				ADB	NCB		
G7/: ICT Equipment, training, studies	3,502,131				GCF	ICB		

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
G8/: Paddy milling equipment	112,382				ADB	NCB		
G9/: 5 units Maize sellers (2 ton)	18,730				ADB	Shopping		
Subtotal Goods=	8,634,217.18							
Consulting Services		467,232						
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				GCF	SSS		
CS4- ICT (Including: Infrastructure, Software development, training, workshops and demonstrations, consultants, office operations and support costs) - CS4 (2020)	1,737,401.00				ADB	QCB		Follow up with MEF about review CEC report of Consulting Evaluation Committee on shortlisting for consulting services (June 2021) Submit Shortlisting to ADB of Consulting firm for ICT in January 2021) MEF is reviewing on CEC report for final shortlisting (Sep 2021).
Subtotal Consultancy =	4,524,416.00							
TOTAL MAFF =	33,309,434.46							

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
II. MRD								
CIVIL WORKS								
Kampot Province								
Rovieng – Chres (11.95 km) CW17a-CFAVC-MRD-KP-01-2020 (Lot 1- package-4)	1,488,481.62				ADB	NCB		<ul style="list-style-type: none"> • IEE submitted to ADB first initial review 14 June 2021. ADB NOL IEE/EMP 9-Jul-21 • Impact Assessment with GDR, 4th week of Jul 2021. Category C, DDR is being prepared bid opened 9 Sept 2021, BER being evaluated.
Kamnab - Srae Chaeng (8.12 km) CW17a-CFAVC-MRD-KP-02-2020 (Lot 2 package-4)	1,046,898.43				ADB	NCB		<ul style="list-style-type: none"> • IEE submitted to ADB first initial review 14 June 2021. • Social safeguard not yet confirmed categorization from GDR A.1.1.1. • Procurement: to be advertised 4th week of June 2021.
Subtotal Kampot Province 42.25 km =	5,640,580.06	2,535,380.05			ADB	NCB		
Takeo Province								
Phlov Lek 122 (Khlung Tvea Wat Totea)- Phlov Tonle Bati (10 km) CW17b-CFAVC-MRD-TK3-2020 (Lot 1 package-1)	1,325,562.03				ADB	NCB		<ul style="list-style-type: none"> • IEE (ADB NOL 3/11/2020) • Social safeguard Cat-B draft final DRP submitted to GDR 26 June 2021. ADB provide NOL to DRP 2nd week of Sept 21. • Procurement: bid opening 12 May 2021, BER being evaluated. BER submitted to ADB for NOL (2nd week of Jul-2021)

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
Wat Ang Andaet-Rumchek-Kraing Ampil (4.67 km) CW17b-CFAVC-MRD-TK4-2020 (Lot 2 package-1)	1,110,942.22				ADB	NCB		<ul style="list-style-type: none"> • IEE (ADB NOL 3/11/2020) • Social safeguard Cat-B draft final DRP submitted to GDR 26 June 2021. • Procurement: bid opening 12 May 2021, BER being evaluated. Same as Lot 1
Subtotal Takeo Province 79.93 km =	11,190,200.00				ADB	NCB		
Tbong Khmum province								
RN73- Khcheay- Wat Thmey (9.77 km), CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1 Package-2)	1,475,481.45				ADB	NCB		<ul style="list-style-type: none"> • IEE (ADB NOL 2/Mar/2021) • Social safeguard Cat-C draft DDR submitted to ADB 29 Mar 2021, ADB provide first comments on 9 May 2021, Third-Party provide comments on 1st June 2021, clarification being conducted follow TP findings and recommendations. The draft DDR (1st submission 4th week of Mar 21) is under revision by consultant based on the comments from ADB and ITP was re-submitted to ADB by 4th week of Aug 2021. • Procurement: bid was advertised 2nd June 2021, • Conducted pre-bid meeting on 14/Jun/21. BER submitted to ADB for NOL 29-Jul-21.

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
Ta Pao- Sangkum Meanchey (12 km) CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2 Package-2)	1,586,237.67				ADB	NCB	<ul style="list-style-type: none"> • IEE (ADB NOL 2/Mar/2021) • Social safeguard Cat-C draft DDR submitted to ADB 29 Mar 2021, ADB provide first comments on 9 May 2021, Third-Party provide comments on 1st June 2021, clarification being conducted follow TP findings and recommendations. • Procurement: bid was advertised 2nd June 2021, • Conducted pre-bid meeting on 14/Jun/21. Same as Lot 1 	
subTotal Tbong Khmum Province 105.81 KM	14,813,400.00,							
Kampong Cham Province								
Sambo-Sopheas (9.88 km) CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1 Package-3)	1,280,831.31				ADB	NCB	<ul style="list-style-type: none"> • IEE (ADB NOL 18/May/2021) • Social safeguard Cat-B, DMS survey being conducted by GDR. • Procurement: bid was advertised 2nd June 2021, • Conducted-pre bid meeting on 14 June 2021. BER submitted to ADB for NOL 29-Jul-21. 	

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
Sopheas-O'Beng (4.72 km) CW17d-CFAVC-MRD-KC8-022020 (Lot 1 Package-3)	736,328.11				ADB	NCB		<ul style="list-style-type: none"> • IEE (ADB NOL 18/May/2021) • Social safeguard Cat-B, DMS survey being conducted by GDR. • Procurement: bid was advertised 2nd June 2021, • Conducted-pre bid meeting on 14 June2021. Same as Lot 1
Sub Total Kampong Cham (46.39 km) =	6,467,759.42				ADB	NCB		
Equipment and Supplies								
Consultancy Service								
TOTAL MRD (274.36 Km)	37,349,607.18	8,665,818.34						
III. MoWRAM								
Civil Works								
CFAVC-MOWRAM-TBM-CW13.1	2,565,971.00	1,866,281.87	02 Aug 21	02 Jul 22	ADB	NCB		Kbateuk, Tuo Pring & Trapeang Tros (3)
CFAVC-MOWRAM-TEO-CW15.1	1,749,734.69	1,392,848.85			ADB	NCB		Prey Kdouch & Kraing Empil, waited for DDR Approval
CFAVC-MOWRAM-KPC-CW14.1	2,690,131.66				ADB	NCB		Pram Kompheak & Okamprok (2), DDR not submit yet
CFAVC-MOWRAM-KAM-CW12.1	2,470,100.00				ADB	NCB		Kandori and Prey Takouch (2)
CFAVC-MOWRAM-KAM-CW12.2	2,844,250				ADB	NCB		Trapeang Boeung (1)

Category /item	Amount		Contract Period		Funding Source (ADB, gov't, other donors)	Procurement/ Recruitment method		Comments
	Estimated	Actual	(dd/mm/yy)			Proposed	Actual	
			Start	End				
CFAVC-MOWRAM-TBM-CW13.2	1,964,210.00				ADB	NCB		Tbong Damrei and Kampong Raing (2)
CFAVC-MOWRAM-KPC-CW14.2	2,987,000.00				ADB	NCB		Protatres & Teuk Char East (2)
CFAVC-MOWRAM-TEO-CW15.2	2,867,160.00				ADB	NCB		Kwaeng Tayi, Chrouk 1 and Prey Rumdeng (3)
CFAVC-MOWRAM-KAM-CW12.3	1,988,310.00				ADB	NCB		Kandorl & Prawoek Pong (2)
CFAVC-MOWRAM-TBM-CW13.3	3,920,000.00				ADB	OCB		Choa Taheung & Trapeang Ampil (2)
CFAVC-MOWRAM-KPC-CW14.3	2,800,000.00				ADB	NCB		Teuk Char West (1)
CFAVC-MOWRAM-TEO.CW15.3	2,570,000.00				ADB	NCB		Potasy, O Rumdourl and Sdok Sab (3)
CFAVC-MOWRAM-TEO-CW15.4	2,850,000.00				ADB	NCB		Canal 42 and Pump, Canal 85 and Soam Canal (3)
Total =	34,266,867.35							
Equipment and supplies								
Consultancies								
Total MOWRAM								

Annex 6: Disbursement three IAs separately - Utilization of Funds per January – December 2021

Table A 6.1: PMU: MAFF

Expenditure	Disbursement during the Reporting Period (\$)						Cumulative Disbursement (\$)						Achievement (%) *
	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	46,896		-			46,896	46,896		2,985	-		49,881	0.2%
Goods (Equipment & Supplies)	-		-			-	831,282		-	-		831,282	37.0%
Capacity Development (Training, Workshops, Seminars)	-		161,131			161,131	-		477,798	-		477,798	2.0%
Consulting Services	297,828		-			297,828	2,857,268		-	-		2,857,268	33.9%
Incremental Operating Costs (Project Management)	70,146		-	25,913		96,059	533,912		-	246,054		779,966	110.1%
Subtotal	414,870	-	161,131	25,913		601,914	4,269,358	-	480,783	246,054		4,996,196	8.9%
JFPR Total						-						-	
GOVERNMENT						-						-	
OTHER DONOR						-						-	
GRAND TOTAL	414,870	-	161,131	25,913		601,914	4,269,358	-	480,783	246,054		4,996,196	8.9%

* Achievement is defined as cumulative disbursement divided by the cost estimate as in the project document.

Table A 6.2: PMU: MOWRAM

Expenditure	Disbursement during the Reporting Period (\$)						Cumulative Disbursement (\$)						Achievement (%) *
	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	383,321	78,328	64,759			526,409	435,951	87,031	71,955	-		594,937	1.4%
Goods (Equipment & Supplies)						-						-	
Capacity Development (Training, Workshops, Seminars)			1,336			1,336			41,061			41,061	13.4%
Consulting Services						-						-	
Incremental Operating Costs (Project Management)	8,586					8,586	39,824			109,890		149,714	29.8%
Subtotal	391,907	78,328	66,095	-		536,331	475,775	87,031	113,016	109,890		785,712	1.8%
JFPR Total						-						-	
GOVERNMENT						-						-	
OTHER DONOR						-						-	
						-						-	
GRAND TOTAL	391,907	78,328	66,095	-		536,331	475,775	87,031	113,016	109,890		785,712	

* Achievement is defined as cumulative disbursement divided by the cost estimate as in the project document.

Table A 6.3: PMU: MRD

Expenditure	Disbursement during October-December 2021 (\$)						Cumulative Disbursement per 31 December 2021 (\$)						Achievement (%) *
	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						-						-	
Goods (Equipment & Supplies)						-						-	
Capacity Development (Training, Workshops, Seminars)						-						-	
Consulting Services						-						-	
Incremental Operating Costs (Project Management)	9,616			5,960		15,576	74,258			45,210		119,468	0.3%
Subtotal	9,616	-	-	5,960		15,576	74,258	-	-	45,210		119,468	0.3%
JFPR Total						-						-	
GOVERNMENT						-						-	
OTHER DONOR						-						-	
						-						-	
GRAND TOTAL	9,616	-	-	5,960		15,576	74,258	-	-	45,210		119,468	0.3%

* Achievement is defined as cumulative disbursement divided by the cost estimate as in the project document.

Annex 7: Safeguards Tracking Indicators per January – December 2021

Indicator	Assessment question	Response	Rating
A. Contract Awards			
1. ENV: No works contracts are awarded before the EMP(s) cleared by ADB and any conditions of any national EIA/IEE clearance are incorporated into contract documents	For any project outputs/components with environmental impacts or risks, are there any works contracts that have been awarded by the borrower without EMP(s)* cleared by ADB and any conditions of any national EIA/IEE clearance incorporated into the bid and contract documents?	5. No. Not all contracts are awarded. Contracts under bidding do not contain EMPs cleared by ADB and/or any conditions of any national EIA/IEE [explain]. All awarded contracts included EMPs cleared by ADB and any conditions of any national EIA/IEE clearance. ----- The EMP for the ...<name of subproject>.was cleared by ADB as part of the IEE report, but not included in the Contract. The contract only made a reference to the EMP.	On Track
2. IR: No civil works contracts are awarded before final, detailed engineering design-based RP(s) are cleared by ADB	For any project outputs/components, are there any civil works contracts* that have been awarded by the borrower without ADB's clearance of final, detailed-engineering design-based RP(s)?	3. No. All contracts have been awarded after final RPs/DDR were cleared. ----- Thus far MAFF and MRD has not awarded any contract; MOWRAM only signed one after receiving clearance of the RP/DDR	On track
3. IP: No civil works contracts are awarded before final, detailed engineering design based IPP(s) are cleared by ADB.	For any project outputs/components, are there any civil works contracts* that have been awarded by the borrower without ADB's clearance of final, detailed-engineering design based IPP(s)?	1. Not applicable [explain, Cat C or FI (category A for FI excluded), or no update is required] ----- NO Indigenous People in project area	On track
B. Project Execution: Instruments			
4. ENV: Requisite national environment, health and safety clearances* and ADB environment safeguard clearances are obtained before commencement of applicable works.	For any project outputs/components with environmental impacts or risks, have the requisite national environment, health and safety clearances* and ADB environment safeguard clearances** been obtained before commencement of applicable works.	3. Yes, all clearances were obtained for all works commenced prior to or during reporting period ----- Work started in March 2021 after receiving environmental clearance	On track
5. IR: No displacement occurs before all compensations are fully paid as confirmed by corresponding reporting. *	For any project outputs/components, are there any civil works sites with involuntary resettlement impacts where access is granted to contractor(s) and economic and/or physical displacement occurs before compensations are	1. No, all compensations/entitlements have been fully paid prior to displacement as confirmed by relevant ADB-cleared reports, for all project sites with involuntary resettlement impacts. (no other option applies). [add comment] ----- Not relevant in the only project for which a contract has been awarded.	On track

Indicator	Assessment question	Response	Rating
*report definition as per OD	fully paid to affected persons and other applicable assistance delivered in line with approved RP(s)?		
C. Project Execution: Project Grievances			
6. The project has a functioning GRM and has no high-risk outstanding grievances related to implementation of safeguards.	Does the project meet both criteria below: (a) has a functioning GRM; and (b) has NO Accountability Mechanism (CRP)- eligible complaint(s) on file?	1. Yes, the project meets both criteria (functioning GRM and no CRP-eligible complaint(s) on file). [add comment]	On track
D. Project Execution: Project Safeguards Non-Compliance			
7. There are no outstanding non-compliances related to implementation of safeguards*	Does the project have any outstanding non-compliances* [can be notified by staff, external monitor, regulatory agencies, supervision consultants, borrower, or contractors]?	1. No [add comment, including if previously outstanding CAP actions have been completed]	On track
E. Project Execution: Monitoring			
8. Scheduled monitoring reports are submitted as per agreed schedule, commencing date loan effectiveness *	Is the project up-to-date with the scheduled monitoring reports?	2. Yes. Submitted, reporting up to date or is within a grace period of one month. ----- Last Social Safeguard Monitoring Report (covering Jan - Jun 2021) to submitted early August Last Environmental Safeguard Monitoring Report (covering Jan - Jun 2021) submitted on (28 July Gender 6 Semi-annual report was submitted on 20 July 2021	On track

Annex 8: Consultants' Mobilization per January – December 2021

Table A 8.1: Consultants' Mobilization for CS1 per January – December 2021

No	Experts	Firm	Expert		TOTAL INPUT (Vo1) (Months)	PREVI OUS INPUT (Months)	Spent This Reporting period			New Total (months)	NEW BALANCE (months)
			Original	Replacement			Oct 21	Nov 21	Dec 21		
A.1	International Experts										
K.1.a	Team Leader/Irrigation Management Specialist (Field)	AESA	Manfred Steidel	Willem J van Diest	14.40	6.57				6.57	7.51
K.1.b	Team Leader/Irrigation Management Specialist (Home)	AESA			3.60	1.73		0.17	0.32	2.22	1.38
K.2.a	Procurement Specialist (Home)	AESA	Marivic Competent		4.17	1.50				2.24	1.93
K.2.b	Procurement Specialist (Field)	AESA			1.83	0.65				1.66	0.17
K.3.a	Social Development and Gender Specialist (Field)	AESA	Ingrid Gray	Peter D.A. Joshi	5.60	2.80	0.32	0.33	0.09	4.20	1.40
K.3.b	Social Development and Gender Specialist (Home)	AESA			0.40	0.39				0.39	0.01
K.4.a	Social Safeguards Specialist (Field)	AESA	Monzurul Hoq		7.30	0				-	7.30
K.4.b	Social Safeguards Specialist (Home)	AESA			0.70	1.75	0.13	0.08		3.04	(2.34)
K.5.a	Environment and Climate Change Specialist (Field)	AESA	Felix Pascua		7.30	0				-	7.30
K.5.b	Environment and Climate Change Specialist (Home)	AESA			0.70	1.92	0.03	0.03		2.31	(1.61)
K.12	Monitoring & Evaluation Specialist	AESA	Ruud Corsel		2.00	1.03				1.03	0.97
N.1	PADC Operation and Management Specialist (Field)	AESA	Praful Soni		2.00	0				0	2.00
N.2.a	Mechanised Workshop Operation and (Field) Management Specialist	AESA	Paterno Borlagdan		5.84	5.20				5.2	0.64
N.2.b	Mechanised Workshop Operation and (Home) Management Specialist	AESA			0.16	0.17				0.17	-0.01
Sub-total International					56.00	23.71					

A.2	National Experts										
K-6	Deputy Team Leader/Irrigation Management Specialist	SBK	Phai Sokheng		30.00	20.32	1.00	1.00	1.00	23.32	6.68
K-7	Deputy Team Leader/Irrigation Management Specialist	SBK	Srey Heang		30.00	23.23	1.00	1.00	1.00	26.23	3.77
K-8	Deputy Team Leader/Irrigation Management Specialist	SBK	Koam Sothun	Sopha Sovannareth	30.00	13.45	0.50	0.73	0.27	14.95	15.05
K-9	Social Development and Gender Specialist	SBK	Kol Prapey		50.00	21.63	1.00	1.00	1.00	24.63	25.37
K-10	Social Safeguards Specialist	SBK	Oum Sith		60.00	23.18	1.00	1.00	1.00	26.18	33.82
K-11	Environment and Climate Change Specialist	SBK	Mao Vanchann		50.00	20.40	1.00	1.00	1.00	23.40	26.60
N-18	Monitoring & Evaluation Specialist	SBK	Prum Vothana		10.00	6.39	1.00	1.00	1.00	9.39	2.61
N-3	Procurement Specialist MAFF	SBK	Ngann Nala	Chan Sinet	18.00	11.84	1.00	1.00	1.00	14.84	3.16
N-4	Procurement Specialist MOWRAM	SBK	Sam Bora	Leng Bunnara	18.00	13.59	0.73	0.45	0.27	15.04	2.96
N-5	Procurement Specialist MRD	SBK	Leng Bunnara	Khorn Sokkhim	18.00	1.14	0.23	0.00	0.00	1.37	16.63
N-6	Financial Management Specialist PMU-MAFF	SBK	Chhuon Mao		38.00	22.18	1.00	1.00	1.00	25.18	12.82
N-7	Financial Management Specialist MAFF	SBK	Koam Rattana		38.00	22.55	1.00	1.00	1.00	25.55	12.45
N-8	Financial Management Specialist MOWRAM	SBK	Hap Chanthea	Chea Socheata	38.00	13.86	1.00	1.00	1.00	16.86	21.14
N-9	Financial Management Specialist MRD	SBK	Mao Norleak	Thoeurn Chantha	38.00	16.14	0	0	0	16.14	21.86

N-10	Water Managemen & Irrigation Engineer Kampong Cham	SBK	Keang Sovann	Vong Dara	28.50	0.00				0.00	28.50
N-11	Water Managemen & Irrigation Engineer Tbong Khmum	SBK	Heng Sockkong		28.50	11.82				14.82	13.68
N-12	Water Managemen & Irrigation Engineer Kampot	SBK	Leng Vandy	Soth Chhongheng	28.50	15.00	1.00	1.00	1.00	18.00	10.50
N-13	Water Managemen & Irrigation Engineer Takeo	SBK	Din Sovathara	Heng Sockkong	28.50	0.00	1.00	1.00	1.00	0.00	28.50
N-14	Cooperative Storage & Rural Roads Engineer Kampong Cham	SBK	Chou Vong		34.00	18.91				18.91	15.09
N-15	Cooperative Storage & Rural Roads Engineer Tbong Khmum	SBK	Vong Sophea	Chuo Vy	34.00	0.00	1.00	1.00	1.00	0.00	34.00
N-16	Cooperative Storage & Rural Roads Engineer Kampot	SBK	Bo Sarin		34.00	0.00				0.00	34.00
N-17	Cooperative Storage & Rural Roads Engineer Takeo	SBK	Khiev Sophea		34.00	15.00				18.00	16.00
	Sub-total National Experts				716.00						

Table A 8.2: Consultants' Mobilization for CS2 per January – December 2021

POSITION			EXPERT NAME		STATUS				Remark by e.Gen
			Original	Replacement	Not Mobilized	Mobilized	Resigned	Input to date	
International Consultants									
1	K-1	International Policy & Standards Advisor / Team Leader	Mr. Pollard Blakeley			√			
2	K-2	Seed Commercial zation and Intellectual Property Specialist	Mr. James Stanelle	Dr Sreekanta Sheel		√			
3	K-3	GAP, CSA and SRP Training Specialist	Mr. Matt Zimmerman			√			
4	K-4	Cooperative Agribusiness Training Specialist	Mr. Prabhakar Kasalanati		√				Expert is in the team but hasn't been mobilized yet. The expert will be mobilized as and when required by the project.
5	K-5	Green Financing Specialist	Dr. Jason Hui Hong Yapp		√				Expert is in the team but hasn't been mobilized yet. The expert will be mobilized as and when required by the project.
6	NK-1	Photo-voltaic Specialist	Mr. Syed Ishtiaque Ahmed		√				Expert is in the team but hasn't been mobilized yet. The expert will be mobilized as and when required by the project.
7	NK-2	Bio-slurry Specialist	Md. Abdul Gofran		√				Expert is in the team but hasn't been mobilized yet. The expert will be

										mobilized as and when required by the project.
8	NK-3	Bio digester Standards Specialist	Mr. Christopher Kellner			√				
National Consultants										
9	K-6	Policy & Standards Advisor	Mr. Chin Keoun	Mr. Hoeung Hun		√				
10	K-7	Bio-slurry Specialist	Mr. Pech Saloeun	Mr. Phuong Dara		√				
11	K-8	Training and Capacity Building Specialist	Mr. Pon Han			√				
12	K-9	Farmer Demonstration Specialist	Mr. Teng Theara	Mr. Heng Sophat		√				
13	K-10	Public Private Partnership Specialist	Mr. Dy Kunthea			√				
14	NK-4	Photo-voltaic Specialist	No Name			√				CV of Koet Munyphadkey proposed for this position. Do we need to submit two more CVs? Please confirm
15	NK-5	Green Financing Specialist	No name			√				CV of Mr. Lor Sokuntheary proposed for this position. Do we need to submit two more CVs? Please confirm
16	NK-6	GAP for tropical fruit (LATE)	Mr. Chan Noeng			√				Is Mr. Chan Noeng selected/rejected by ADB? According to Dr. Srin's last email, we need to submit three CVs. Do we need to submit two additional CVs as well as Mr. Chan Noeng's CV with comparison sheet or do we need to submit three new CVs?
17	NK-7	FWUC training specialist	Ms. Ly Kalyane	Mr. Soeur Sophorn		√				NOL for Soeur Sophorn received.

18	NK-8	Agricultural Machinery O&M Training specialist	No Name		√				CV of Mr. Srey Bun Doeun proposed for this position. We haven't received any feedback on this.
19	NK-9	Laboratory commercialization specialist	No Name		√				
20	NK-10	ISO 17025 accreditation specialist	No Name		√				
21	NK-11	Bio-fertilizer and Organic Fertilizer Testing Specialist	Mr. Mak Chan Ratana			√			NOL for Mr. Mak Chan Ratana received.
22	NK-12	Tissue Culture Development Specialist	Mr. Chhon Yan Vary		√				
23	NK-13	GMO and Phytotoxin Analysis Specialist	No Name		√				
24	NK-14	National Laboratory Coordinator	Mr. Vong Sophorn			√			NOL for Mr. Vong Sophorn received.

Table A 8.3: Consultants' Mobilization for CS5 per January – December 2021

No	Name	Position (As in Tech 6)	Nationality	Firm	Time Input in Person/Month-Home/Field	Previous Input (months)	Input during Reporting Period (Months)			Total Utilized input up to Sep-21	Balance Available By Sep-21, MM
							Oct -21	Nov -21	Dec -21		
KEY EXPERTS - INTERNATIONAL											
01	Mr.Dinesh Kumar Shrestha	Irrigation Design Engineer And Team (Deputy) Leader	Nepalese	RDC	20.00	13.23	0.27	0.45		13.95	6.05
02	Dr. Martin Mautner Markhof	Agriculture Economist	Austrian	RDC	7.00	4.34		0.07		4.41	2.59
Total -Key Experts -International					27.00		0.27	0.52	-		8.64
NON-KEY EXPERTS -INTERNATIONAL											
1	K D W Nandalal	Hydrologist	Sri Lankan	RDC	2.00	0.73				0.73	1.27
2	Tissa Ariyaratna	Social Safeguards Specialist	Sri Lankan	RDC	2.00	0.28	0.14			0.42	1.58
3	Anusha Priyanthi Kasige	Environmental Safeguards Specialist	Sri Lankan	RDC	2.00	0.09				0.09	1.91
Total -Non-Key Experts -International					6.00						4.76
EXPERT- Reporting to MOWRAM											
1	Mr. UCH Chanvuthy	Irrigation Design Engineer/DTL	Cambodia	CAM-CSTR	12.00	0.00				0.00	12.00
2	Mr. KLEY Kimsot	Agriculture Economic	Cambodia	CAM-CSTR	9.55	5.55				5.55	4.00
3	Ms. SAO Sambathmorakath	Envirl Safeguards Spec	Cambodia	CAM-CSTR	11.21	8.03		0.41		8.44	2.77
4	Mr.Oeung Chantha	Hydrologist	Cambodia	CAM-CSTR	4.00	0.00				0.00	4.00
5	Ms. DIN Chakriya/Nhoem Sunday	AutoCAD Specialist - 3	Cambodia	CAM-CSTR	19.00	9.00		1.00		10.00	9.00

6	Mr.Tean Meas	AutoCAD Specialist -7	Cambodia	CAM-CSTR	19.00	9.00		1.00		10.00	9.00
7	Mr. Lorn Sokly	AutoCAD Specialist -8	Cambodia	CAM-CSTR	19.00	9.00		1.00		10.00	9.00
8	Mr. Heng Leang Chhay	AutoCAD/GIS Specialist	Cambodia	CAM-CSTR	11.00	0.00				0.00	11.00
9	Mr. KONG Naosundaya	Asst.Irrigation Design Engineer 1	Cambodia	CAM-CSTR	8.00	8.00				8.00	-
	Mr. KONG Naosundaya	Asst.Irrigation Design Engineer 1			12.00	1.00	1.00	1.00		3.00	9.00
10	Ou Sokhavong	Irrigation Strcture Design Engineer	Cambodia	CAM-CSTR	6.00	0.00				0.00	6.00
11	Ms. Khieu Bunroeub	Social Development and Gender Safeguard Specilaist	Cambodia	CAM-CSTR	4.00	0.00				0.00	4.00
12	Mr. Kan Vibal	Social Safeguards Specialist and resettlement	Cambodia	CAM-CSTR	6.00	0.00				0.00	6.00
13	Mr. Leng Bunnara	Procurement Specialist	Cambodia	CAM-CSTR	4.00	0.00				0.00	4.00
Total - Experts National_MOWRAM					144.76		1.0	4.41	0.00		89.77
EXPERT- Reporting to MRD											

Annex 9: Social Safeguard Work Progress as of Reporting Period

Table A 9.1: Farm Roads

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status
1	2	3	4	5	6	7	8		10	11	11'	13	12'		14	15	
1. Plan for Project Feasibility study and Detailed Engineering Design in 2020																	
1	CW17a-CFAVC-MRD-KP-01-2020	Rovieng - Chres	11.94	Kampot	Chres	Chum Kiri	4th week of Jul, 2021	C		Impact assessment with GDR was conducted 4th week of Jul, 2021							
2	CW17a-CFAVC-MRD-KP-02-2020	Kamnab - Srae Chaeng	8.12		Srae Chaeng	Chum Kiri	4th week of Jul, 2021	C									
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1)	Phlov Lek 122 (Khlung Tvea Wat Totea)-Phlov Tonle Bati	10.01	Takeo	Lumpong	Bati	4th week of Aug, 2020	C	18 Jan, 2021	ADB provide NOL to DRP 2nd week of Sept 21.		Yes		Full compensations payments were made to the Ahs on 2nd week of Dec 2021	1st week of Jul, 2021	The DRP was approved by the ADB and was uploaded into the ADB website on Sept 2021	

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status	
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Wat Ang Andaet-Rumchek-Kraing Ampil	4.67		Taing Yab	Prey Kabas	4th week of Aug, 2020	C	18 Jan, 2021			Yes			Compensation payment was made by 2 nd week Dec 2021	1st week of Jul, 2021	2nd week of Sept 2021	2nd week of December 2021
5	CW17c-CFAVC-MRD-TBK-5-2020	RN73- Khcheay-Wat Thmey	9.77	Tboung Khmum	DamBae	DamBae	3rd week of Dec, 2020	C	12 Aug 2020	The DDR is under the process of clarification by the Design team CS5 with guidance from the CS1/PIC,	Yes		Under review		4 week of Mar, 2021		The	
6	CW17c-CFAVC-MRD-TBK-6-2020	Ta Pao-Sangkum Meanchey	12		Toul Snoul	Krouch Chhmar	3rd week of Dec, 2020	C	12 Aug 2020		Yes		Under review		4 week of Mar, 2021			
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sambo-Sopheas	9.88	Kampong Cham	Sopheas	Stueng Trang	3rd week of Dec, 2020	C	2nd week of Jun, 2021	DRP preparation, Under the review by the GDR/will submit to ADB early Dec-21			Under review		4th week of Oct 2021			
8	CW17d-CFAVC-MRD-	Sopheas-O'Beng	4.72		Sopheas		3rd week of Dec, 2020	C	2nd week of	DRP preparation		Under review		4th week of Oct 2021		Will be submitted to		

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status	
	KC8-02-2020 (Lot 2)								Jun, 2021								the ADB early Dec 21	
Plan for rehabilitation in 2020 covering road length of			71.09															
2. Plan for Project Feasibility study and Design in 2021																		
9	CW17a-CFAVC-MRD-KP-01-2021	National road No 33-Wat Damnak Trayeung	5.31	Kampot		Banteay Meas											FSR to PMU	
10	CW17a-CFAVC-MRD-KP-02-2021	Wat Sovan Cholsar-O'Kandoal	6.44			Dang Toung												FSR to PMU
11	CW17a-CFAVC-MRD-KP-03-2021	Trapeang Chhuk-Spean Damnak Sokrom	6.9															FSR to PMU
12	CW17a-CFAVC-MRD-KP-04-2021	NR No.41-Prey Khleay- Phum Doung	3.83			Chum Kiri												FSR to PMU
13	CW17b-CFAVC-MRD-TK01-2021	Chi Moreas-Tapao	5.4	Takeo		Kirivong											FSR to PMU	
14	CW17b-CFAVC-MRD-TK02-2021	Phlov Lek 132 - Phum Ang Trao - Phum Steung	8.25			Samrong												FSR to PMU
15	CW17b-CFAVC-MRD-TK03-2021	NR No. 3- Trao Aem- Phum Steung	4.9			Tram Kak												FSR to PMU
16	CW17b-CFAVC-MRD-TK04-2021	NR No. 3- Trapeang Chak	3.4															FSR to PMU

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status	
17	CW17b-CFAVC-MRD-TK05-2021	Ang Thnoat Khang Lech-Trapeang Srang	4.05			Tram Kak											FSR to PMU	
18	CW17c-CFAVC-MRD-TBK-01-2021	Plov Wat Chroul- Chakar Ko- Kbal Thnal	8.15	Tboung Khmum		Ou Reang Ov											FSR to PMU	
19	CW17c-CFAVC-MRD-TBK-02-2021	NR No.73-Phum Smounh	5.5			Tboung Khmum												FSR to PMU
20	CW17c-CFAVC-MRD-TBK-03-2021	Wat Ang keng-Phum Samreuy	4.9			Dombae												FSR to PMU
	CW17c-CFAVC-MRD-TBK-04-2021	NR No.73- Kok Srok	2.830															FSR to PMU
	CW17c-CFAVC-MRD-TBK-05-2021	Phlov Phum Popel	1.450															
	CW17c-CFAVC-MRD-TBK-06-2021	NR No.7 - Andoung Chrung	3.800															
	CW17c-CFAVC-MRD-TBK-07-2021																	
21	CW17d-CFAVC-MRD-KC-01-2021	Phaav- Sdok Thom	3.93	Kampong Cham														
22	CW17d-CFAVC-MRD-KC-02-2021	Trapeang Thnoat- Sek Yum	5.5															
23	CW17d-CFAVC-MRD-KPC-03-2021	Phum Damnak Chrey	4.880															
24	CW17d-CFAVC-MRD-KC-04-2021	National road No.7- Prey	7.77															

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status	
		Rumdeng-Trapeang Bei																
	Plan for rehabilitation in 2021 covering road length of		100.01															
	3. Plan for Project Feasibility study and Design in 2022																	
36	CW17b-CFAVC-MRD-TK1-2022	Wat Angrun-Slar Mo-Trapeang Krasaing-Phum Kodoul	7.33	Takeo														
37	CW17b-CFAVC-MRD-TK2-2022	(I) NR No 2-Chrouy Slaeng, (II) Phlov Sahakum Samaki, (III) Phum dang Het-Wat Champa	5.85															
	CW17b-CFAVC-MRD-TK6-2022	Thlra Prachum-Khlong Tvea wat Tralach	6.28															
	CW17b-CFAVC-MRD-TK7-2022	NR No. 2- Phum Kvav	7															
	CW17b-CFAVC-MRD-TK8-2022	Salakhum Cheung Koun-Phum Cheung Koun-Tumnup Ang Chang Er	4.4															
	CW17b-CFAVC-MRD-TK9-2022	Khlong Tvear Wat Ang Roka-Srae Tasok	7.5															
	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey-Chrey Phluk	13.1		Tbong Khmum													

No.	Package Name	Subproject Names / Description	Length (KM)	Province	Commune	District	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	Status of LARP/DDR Preparation	DDR	LARP	Third Party	GDR/MEF Submission Date	Compensation payment ADB Submission Date	ADB NOL Date	Current status	
	CW17c-CFAVC-MRD-TBK-02-2022	Unknown, to be confirmed by PDRD	17															
	CW17c-CFAVC-MRD-TBK-03-2022	Unknown, to be confirmed by PDRD	14.84															
	CW17c-CFAVC-MRD-TBK-04-2022	NR No.73-Phum Smounh	9.65															
	CW17d-CFAVC-MRD-KC-01-2022	Sandaek- Kuma	5.8	Kampong Chhnang														
	CW17d-CFAVC-MRD-KC-02-2022	Rovieng-Chheuteal- Skun	3.75															
	Plan for rehabilitation in 2020 covering road length of		102.5															
	Total road planned to be studied within 3 years period is 48 lines and total of		273.63															

Table A 9.2: MAFF Subprojects

No.	Package number	Province	Districts	Communes	Subproject Names	Number of Subprojects / Package	Impact Assessment with GDR, Progress	IP Category	IP Category	Status of LARP/ DDR Safeguards	DDR	Third party	ADB Submission Date	ADB NOL Date	Status of IPP Safeguards	Remarks
	2							10	12	11					13	
1	CW7				Construction of Mechanization Workshops (not including major & minor equipment) & Supervision, Lot 1: Kampong Cham, Lot 2: Tboung Khmum, Lot 3: Kampot			C	No IP at Subproject Area	DDR preparation completed	Yes			The DDR was uploaded into the ADB website on Jun 2021.	N/A	The SS monitoring activities will be reported in the SEMR Jan-Jun 2022.
1	CW3a				Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units lot1, lot2, lot3 and lot4. (Storage sizes 50 tone, 100 tone and 200 tone.)			C	No IP at Subproject Area	DDR preparation completed	Yes			The DDR was uploaded into the ADB website on Aug 2021.	N/A	The SS monitoring activities will be reported in the SEMR Jan-Jun 2022.
1	CW4				Construction of Training Building for PADC (including infrastructure design and Equipment) Lot 1: Takeo Lot 2: Tboung Khmum Lot 3: Kampong Cham			C	No IP at Subproject Area	DDR preparation completed	Yes			The DDR was uploaded into the ADB website on Jun 2021.	N/A	The SS monitoring activities will be reported in the SEMR Jan-Jun 2022.
1	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 3: Kampot (Bio-digester sizes of 4m3, 6m3 and 8m3.)			C	No IP at Subproject Area	DDR preparation completed					N/A	
	CW3b1 & CE3b2				Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 35 units			C	No IP at Subproject Area	DDR preparation is in progress	Yes					
	CS4				(2020): ICT (Including: Infrastructure, Software development, training, workshops and demonstrations, consultants, office operations and support costs)			C							N/A	

Table A 9.3: Irrigation Subprojects

Year	Package Names	Province	Commune	District	Subproject Name	Number of Subprojects / Package	Command area, ha	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	DDR	LARP	Third Party	GDR /MEF Submission Date	ADB Submission Date	ADB NOL Date	Current Status
1	2	3	4	5	6	7	8	9	10	11	12	13	13'		14	15	
1. Plan for Project Feasibility study and Detailed Engineering Design in 2020																	
2020	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run 1	1	100		C	DMS/SES was done on 9 Jul 2020	100%		Yes		NOL and in ADB website	NOL and in ADB website	Final assessment will be carried out by the SS PIC team after the defect liability period by 3 rd week of Jan 2022 and will be reported into the SSMR Jan-Jun 2022, after final impact assessment on completion of civil works.
	MOWRAM-CFAVC-TBM-CW13.1	Tbong Khmum	PREASH THEAT	Ou Raing Ov	Tumnup Kbal Teuk	3	250	4th week of Nov, 2020	C		100%		Yes		3rd week of Aug, 2021	The DDR was uploaded into the ADB website on July 2021	Under the monitoring and will be included in the Jan to Dec 2021 Annual Monitoring report
			Chikor	Tbong Khmum	Tuol Pring Reservoir		100	4th week of Nov, 2020	C	IOL & SES Survey, FSDD-CS5 were done in Dec 2021	100%	Yes					
			Thmor Pich	Tbong Khmum	Trapeang Tros Reservoir		350	4th week of Nov, 2020	CB	2 nd week of Feb, 2021	100%	Yes	20 Nov 2021	3rd week of Nov, 2021	3 rd week Dec 2021	Reviewed by National social safeguards specialist	
	MOWRAM-CFAVC-TEO-CW15.1	Takeo	Trapaing Kra Nhoung	Tram Kak	Prey Kdouch Reservoir	2	550	3rd week of Mar, 2021	C	100%	100%		Yes		Dec 16 2021 ³	The DDR was approved the NOL on 4 th week Dec 2021 & will be uploaded into the ADB website	
			Trapaing Kra Nhoung	Tram Kak	Kraing Empil Embankment		200	3rd week of Mar, 2021	C	100%	100%		Yes		Dec 16 2021 ⁴		

³ First submission date was on 19 Aug 2021, second submission date was on 28 Nov 2021 and third submission date was on 16 Dec 2021.

⁴ First submission date was on 19 Aug 2021, second submission date was on 28 Nov 2021 and third submission date was on 16 Dec 2021

Year	Package Names	Province	Commune	District	Subproject Name	Number of Subprojects / Package	Command area, ha	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	DDR	LARP	Third Party	GDR /MEF Submission Date	ADB Submission Date	ADB NOL Date	Current Status
1	2	3	4	5	6	7	8	9	10	11	12	13	13'	14	15		
	MOWRAM-CFAVC-KPC-CW14.1	Kampong Cham	Svay Teap	Chamkaler	Pram Kumpheak	2	900	2nd week of June, 2021	C	65%	80%		4 th Week Dec 2021	2nd week of Dec, 2021			Submission
			Preach Andong	Stoeng Trong	O Kamprok		350	2nd week of June, 2021	C	65%	80%		4 th Week Dec 2021	2nd week of Dec, 2021		Submission	
	MOWRAM-CFAVC-KPT-CW12.1	Kampot	Srae Khnung	Chuom Kiri	Takouch (Prey Takoch)	1	450	2nd week of Apr, 2021		50%	30%						Impact Assessment screening
Plan for rehabilitation in year 2020 consisting of 5 Packages covering command area of						9	3,250										
2. Plan for Project Feasibility study and Design in 2021																	
2021	MOWRAM-CFAVC-TBM-CW13.2	Tboung Khmum	Chhouk	Krouch Chmar	Tbong Damrei Reservoir	2	600				10%						
			Seda	Dambae	Kampong Raing Feeding Canal		250			10%	???						
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk	3	800	3rd week of Mar, 2021	C		Yes		Yes				
			Prey Yuthkar	Koh Andet	Kwaeng Tayee		468	3rd week of Mar, 2021	C		Yes		Yes				
			Prey Romdeng	Kirivong	Prey Romdeng Canal		510	3rd week of Mar, 2021	C		Yes		Yes				
	MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	1	950										
MOWRAM-CFAVC-KPT-CW12.2	Kampot	Sathpong/Trameng/Baniev	Chhouk	Trapeang Boeung	2	800	2nd week of Apr, 2021										
		Kandorl	Teuk Chhou	Kandorl		650	2nd week of Apr, 2021										
Plan for rehabilitation in year 2021 consisting of 4 Packages covering command area of						9	5028										
3. Plan for Project Feasibility study and Design in 2022																	
2022	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	1400				15%	??					
			Beung Nay	Prey Chhor	Teuk Cha West		1400			15%	??						

Year	Package Names	Province	Commune	District	Subproject Name	Number of Subprojects / Package	Command area, ha	Impact Assessment with GDR, Progress	IR Category	Survey (DMS/SES/RCS)	DDR	LARP	Third Party	GDR /MEF Submission Date	ADB Submission Date	ADB NOL Date	Current Status		
1	2	3	4	5	6	7	8	9	10	11	12	13	13'	14	15				
1	MOWRAM-CFAVC-TBM-CW13.3	Tboung Khmum	Teuk Chrov	Dambae	Choam Taheung	2	1500												
			Thmar Pich	Tbong Khmum	Trapaing Ampil		200												
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kampeng	Kirivong	Pou Tasuy Reservoir	6	440												
			Prey Romdeng	Tram Kak	O' Rumdoul Reservoir		210												
			Samraong	Tram Kak	Sdok Sab		300												
			Kropum Chhouk	Koh Andet	Pralay 85		850												
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650												
			Soam	Kirivong	Soam Canal		400												
	MOWRAM-CFAVC-KPT-CW12.3	Kampot	Trapeang Pring	Teuk Chhou	Broweak Pong	1	70												
	Plan for rehabilitation in year 2022 consisting of 4 Packages covering command area of						11	7,420											
Total irrigation planned to be studied within 3 years period is 32 irrigation schemes and total of						28	15,698												

Annex 10: Environmental Safeguard Work Progress as of Reporting Period

Table A 10.1: MAFF Subprojects

Year	Package number	Province	Districts	Communes	Subproject names	Number of subproject package	Environmental Safeguards Categorization	Status of Env. Safeguards	Status of IEE	ADB Submission Date	ADB NOL Date
	2						8	9			
1	CW7:				Construction of Mechanization Workshops (not including major & minor equipment) & Supervision, Lot 1: Kampong Cham, Lot 2: Tboung Khmum, Lot 3: Kampot		B		IEE is Completed		NOL
1	CW3a:				Construction of Agricultural Cooperative Storage Units including: Cooperative store manager, Basic infrastructure for cooperative and infrastructure design, 20 units lot1, lot2, lot3 and lot4. (Storage sizes 50 tone, 100 tone and 200 tone.)		B		IEE is Completed		NOL
1	CW4:				Construction of Training Building for PADC (including infrastructure design and Equipment) Lot 1: Takeo Lot 2: Tboung Khmum Lot 3: Kampong Cham		B		IEE is Completed		NOL
1	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 3: Kampot (Bio-digester sizes of 4m3, 6m3 and 8m3.)		B		IEE is Completed		NOL

	CS4 (2020):			ICT (Including: Infrastructure, Software development, training, workshops and demonstrations, consultants, office operations and support costs)		B	IEE is Completed		NOL
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Table A 10.2: Irrigation Subprojects

Year	Package Number	Province	Commune	District	Subproject Name	Number of Subprojects/Package	Command area, ha	Environmental Safeguards Categorization	Status of Env. Safeguards	Status of IEE	First Date ADB Submission	Date ADB NOL
1	2	3	4	5	6	7	8	8'	9'	9	10	11
1. Plan for Project Feasibility study and Detailed Engineering Design in 2020												
2020	CFAVC-KP-TP-CW2	Kampot	Tani	Angkor Chey	Trapeang Run	1	100	B	100%	The final environmental monitoring was conducted on 4-5 August 2021 for completed construction	10-Jun-20	21-Jul-20
	MOWRAM-CFAVC-TBM-CW13.1	Tboung Khmum	PREASH THEAT	Ou Raing Ov	Tumnuh Kbal Teuk	3	250	B	0%		4-Nov-20	11-Feb-21
			Chikor	Tboung Khmum	Tuol Pring Reservoir		100	B	100%		4-Nov-20	11-Feb-21
			Thmor Pich	Tboung Khmum	Trapeang Tros Reservoir		350	B	100%		4-Nov-20	11-Feb-21
	MOWRAM-CFAVC-TEO-CW15.1	Takeo	Tropaing Kra Nhoung	Tram Kak	Prey Kdouch Reservoir	2	550	B	100%		16-Mar-21	25-Jun-21
			Tropaing Kra Nhoung	Tram Kak	Kraing Empil Embankment		200	B	100%		16-Mar-21	
MOWRAM-CFAVC-KPC-CW14.1	Kampong Cham	Svay Teap	Chamkaler	Pram Kumpheak	2	900	B	100%	Second revised and submitted to ADB for rechecking	15 Dec 2021		
		Preach Andong	Stoeng Trong	O Kamprok		350	B	100%	Second revised and submitted to ADB for rechecking	15 Dec 2021		
MOWRAM-CFAVC-KPT-CW12.1	Kampot	Srae Khnung	Chuom Kiri	Takouch (Prey Takoch)	1	450	B	45%	70% drafting completed			
Plan for rehabilitation in year 2020 consisting of 5 Packages covering command area of						9	3,250					
2. Plan for Project Feasibility study and Design in 2021												
2021	MOWRAM-CFAVC-TBM-CW13.2	Tboung Khmum	Chhouk	Krouch Chmar	Tboung Damrei Reservoir	2	600	B		Consolidated IEE is 15%		
			Seda	Dambae	Kampong Raing Feeding Canal		250	B		Consolidated IEE is 15%		
	MOWRAM-CFAVC-TEO-CW15.2	Takeo	Phnom Den	Kirivong	Chrouk1 + Phlov Touk	3	800	B		Consolidated IEE is 15%		
			Prey Yuthkar	Koh Andet	Kwaeng Tayee		468	B		Consolidated IEE is 15%		
			Prey Romdeng	Kirivong	Prey Romdeng Canal		510	B		Consolidated IEE is 15%		
	MOWRAM-CFAVC-KPC-CW14.2	Kampong Cham	Cheung Prey	Batheay	Pou Tatress	1	950	B		Consolidated IEE is 15%		
MOWRAM-CFAVC-KPT-CW12.2	Kampot	Sathpong/ Trameng/ Baniev	Chhouk	Trapeang Boeung	2	800	B		Consolidated IEE is 15%			
		Kandorl	Teuk Chhou	Kandorl		650						
Plan for rehabilitation in year 2021 consisting of 4 Packages covering command area of						8	5028					

2022	MOWRAM-CFAVC-KPC-CW14.3	Kampong Cham	Krouch	Prey Chhor	Teuk Cha East	2	1400				
			Beung Nay	Prey Chhor	Teuk Cha West		1400				
	MOWRAM-CFAVC-TBM-CW13.3	Tboung Khmum	Teuk Chrov	Dambae	Choam Taheung	2	1500				
			Thmar Pich	Tboung Khmum	Trapaing Ampil		200				
	MOWRAM-CFAVC-TEO-CW15.3	Takeo	Kampeng	Kirivong	Pou Tasuy Reservoir	6	440				
			Prey Romdeng	Tram Kak	O' Rumdoul Reservoir		210				
			Samraong	Tram Kak	Sdok Sab		300				
			Kropum Chhouk	Koh Andet	Pralay 85		850				
			Rominh	Koh Andet	Pralay 42 (pumping Station)		650				
	Soam	Kirivong	Soam Canal	400							
	MOWRAM-CFAVC-KPT-CW12.3	Kampot	Trapeang Pring	Teuk Chhou	Broweak Pong	1	70				
Plan for rehabilitation in year 2022 consisting of 4 Packages covering command area of						11	7,420				
Total irrigation planned to be studied within 3 years period is 32 irrigation schemes and total of						28	15,698				

Table A 10.3: Farm Road Subprojects

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Environ-mental Safeguards Catego-rization	Status of Env. Safe-guards	Status of IEE	First Date ADB Submission	Date ADB NOL
1	2	3	4	5	6	7	8	8'			10	11
1. Plan for road sub-projects planned in 2020												
1	CW17a-CFAVC-MRD-KP-01-2020 (Lot 1)	Raksmei Samaky Amatak	Kampot	Chres	Chum Kiri	2020	11.94	B		ADB NOL 9-Jul-21	02 June 2021	09 Jul 2021
2	CW17a-CFAVC-MRD-KP-02-2020 (Lot 2)	Kasikor Samaki Rungreung		Srae Chaeng	Chum Kiri		8.1				02 June 2021	09 Jul 2021
3	CW17b-CFAVC-MRD-TK3-2020 (Lot 1)	Lom Pung Samaky	Takeo	Lumpong	Bati		10.01	B		ADB NOL 3-Nov-20	20 Jul 2020	03 Nov 2020
4	CW17b-CFAVC-MRD-TK4-2020 (Lot 2)	Sdok Sdam		Taing Yab	Prey Kabas		4.67				20 Jul 2020	03 Nov 2020
5	CW17c-CFAVC-MRD-TBK-5-2020 (Lot 1)	Dambe Rung Roeung	Tboung Khmum	Dam Bae	Dam Bae		9.77	B		ADB NOL 2 Mar 2021	26 Jan 2021	13 May 2021
6	CW17c-CFAVC-MRD-TBK-6-2020 (Lot 2)	Kdei Sangkhoem Kasekar		Toul Snoul	Krouch Chhmar		12				26 Jan 2021	13 May 2021
7	CW17d-CFAVC-MRD-KC7-01-2020 (Lot 1)	Sombo Meanchey	Kampong Cham	Soupheas	Stueng Trang		9.88	B		ADB NOL IEE 18-May-21	02 May 2021	18 May 2021
8	CW17d-CFAVC-MRD-KC8-02-2020 (Lot 2)	Stung Trang Senchey		Soupheas	Trang		4.72				02 May 2021	18 May 2021
Plan for rehabilitation in year 2020 of 4 Packages Road sub-projects with Lenght of							71.09					
2. Plan for road sub-projects planned in 2021												
9	CW17a-CFAVC-MRD-KP-01-2021	Sen Han Cham Reoun Phal	Kampot	Samrong Leu	Banteay Meas	2021	5.31	B		70% drafting completed		
10	CW17a-CFAVC-MRD-KP-02-2021	Ratanak Pulrath Samaki		Damnak Sokrom	Dang Toung		6.44	B		70% drafting completed		
11	CW17a-CFAVC-MRD-KP-03-2021	Preykrang Meanrit		Mean Rith			6.9	B		70% drafting completed		
12	CW17a-CFAVC-MRD-KP-04-2021	Samaki Amatak		Srae Khnoung	Chum Kiri		3.83	B		70% drafting completed		

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Environ-mental Safeguards Catego-rization	Status of Env. Safe-guards	Status of IEE	First Date ADB Submission	Date ADB NOL
13	CW17b-CFAVC-MRD-TK01-2021	Kampeng Sok Sen Sambo	Takeo	Kampeng	Kirivong		5.4	B		70% drafting completed		
14	CW17b-CFAVC-MRD-TK02-2021	Samaky Trapeang Kralanh		Ou Saray	Tram Kak		8.25	B		70% drafting completed		
15	CW17b-CFAVC-MRD-TK03-2021	Bak Sey Rik Ray		Cheang Tong	Tram Kak		4.9	B		70% drafting consolidated IEE completed		
16	CW17b-CFAVC-MRD-TK04-2021	Samaki Trapeang Chark		Trapeang Chak	Tramkak		3.4	B		70% drafting consolidated IEE completed		
17	CW17b-CFAVC-MRD-TK05-2021	Trapeang Srangae		Trapaing Srangae	Tramkak		4.05	B		70% drafting consolidated IEE completed		
18	CW17c-CFAVC-MRD-TBK-01-2021	Sammaky Meanchey	Tboung Khmum	Chak	Ou Reang Ov		8.15	B		70% drafting consolidated IEE completed		
19	CW17c-CFAVC-MRD-TBK-02-2021	Lngieng Meamchey		Lngieng	Tboung Khmum		5.5	B		70% drafting consolidated IEE completed		
20	CW17c-CFAVC-MRD-TBK-03-2021	Samaki Kak		Kak	Tboung Khmum		4.9	B		70% drafting consolidated IEE completed		
21	CW17c-CFAVC-MRD-TBK-04-2021	Baitong Korksrok		Kok Srok	Dombae		2.830	B		70% drafting consolidated IEE completed		
22	CW17c-CFAVC-MRD-TBK-05-2021	Akphirik Ponhea Kraek Dambae		Koang Kang	Ponhea Kraek		1.450	B		70% drafting consolidated IEE completed		
23	CW17c-CFAVC-MRD-TBK-06-2021	Ponhea Kraek Rongroeng	Koang Kang	Ponhea Kraek	3.8	B		70% drafting consolidated IEE completed				

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Environ-mental Safeguards Catego-rization	Status of Env. Safe-guards	Status of IEE	First Date ADB Submission	Date ADB NOL
24	CW17c-CFAVC-MRD-TBK-07-2021	Popel Meanchey		Popel	Ponhea Kraek		2.82	B		70% drafting consolidated IEE completed		
25	CW17d-CFAVC-MRD-KC-01-2021	Akphivath Multhan Yeung	Kampong Cham	Taing Krasang	Batheay		3.93	B		70% drafting consolidated IEE completed		
26	CW17d-CFAVC-MRD-KC-02-2021	Akpiwat Kaksekor		So Saen	Prey Chhor		5.5	B		70% drafting consolidated IEE completed		
27	CW17d-CFAVC-MRD-KPC-03-2021	Ponluk Thmey		Peam Chi Kang	Kang Meas		4.880	B		70% drafting consolidated IEE completed		
28	CW17d-CFAVC-MRD-KC-04-2021	Sammaki Baray Angdong Ang		Baray	Prey Chhor		7.77	B		70% drafting consolidated IEE completed		
Plan for rehabilitation in year 2021 of 6 Packages Road sub-projects with Length of							101.01					
3. Plan for road sub-projects planned in 2022												
29	CW17b-CFAVC-MRD-TK1-2022	Sensok Toek Thla	Takeo	Trapaing Krasaing	Bati	2022	7.33					
30	CW17b-CFAVC-MRD-TK2-2022	Phum Bey Meanchey		Kiri Chong Kaoh	Kirivong		1.5					
31	CW17b-CFAVC-MRD-TK3-2022	Phum Bey Samaky		Krapum Chhouk	Kaoh Andaet		0.55					
32	CW17b-CFAVC-MRD-TK4-2022	Champa Prey Phdav		Champa	Prey Kabas		3.8					
33	CW17b-CFAVC-MRD-TK6-2022	Rolous Meas		Thlea Prochum	Kaoh Andaet		6.28					
34	CW17b-CFAVC-MRD-TK7-2022	Samaky Amatak Khvav		Khvav	Samrong		7					
35	CW17b-CFAVC-MRD-TK8-2022	Cheung Kuon Choukchey		Cheung Kuon	Samrong		4.4					

No.	Package Name	AC Name	Province	Commune	District	Ranking Priority (Year)	Road Length (km)	Environ-mental Safeguards Catego-rization	Status of Env. Safe-guards	Status of IEE	First Date ADB Submission	Date ADB NOL
36	CW17b-CFAVC-MRD-TK9-2022	Punleu Kasikar		Boeung Tranh Khang Cheung	Samrong		7.5					
37	CW17c-CFAVC-MRD-TBK-01-2022	Seda Meanchey		Dambae	DamBae		13.10					
38	CW17c-CFAVC-MRD-TBK-02-2022	Kaksekor Dambae	Tboung Khmum	Tuek Chrov	DamBae		17					
39	CW17c-CFAVC-MRD-TBK-03-2022	Romdoul Dountei		Doun Tei	Ponhea Kraek		14.84					
40	CW17c-CFAVC-MRD-TBK-04-2022	Lngieng Meanchey		Lngieng	Tboung Khmum		9.65					
41	CW17d-CFAVC-MRD-KC-01-2022	Toul Preah Vihea	Kampong Cham	Sompong Chey	Cheung Prey		5.80					
42	CW17d-CFAVC-MRD-KC-02-2022	Reamea Cheung Prey		Pdau Chum			3.75					
Plan for rehabilitation in year 2022 of 6 Packages Road sub-projects with Length of							102.50					
Total road planned to be studied within 3 years period is 48 lines and total of							273.63					

Annex 11: Gender Action Plan (Gap) Monitoring Table per January – December 2021

Project Title: Climate Friendly Agribusiness Value Chain Sector Project (CFAVC)

Country: Cambodia

Project No.: 48409-002

Type of Project (Loan/Grant/TA): 3616

Approval and Timeline: June 2018 to 2024

Gender Category: EGM

Mission Leader: Srinivasan Ancha

Project Impact: Agricultural Competitiveness Improved

Project Outcome: Productive and resource-efficient agribusiness value chain developed in the project areas.

Gender Action Plan (GAP Activities, Indicators and Targets, Timeframe and Responsibility)	Progress to date (as of July 2021) (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		
<p>(i) Women are 40% of participants—involve women and <i>Women Farmers Network (WFN) actively participate in each individual event for all consultation, planning activities related to improvement and climate resiliency of critical infrastructure supported by the project.</i></p> <p>Target 1: On track</p>	<p>In September 2021, CS2 component with PPIU and GFS conducted:</p> <ul style="list-style-type: none"> • Monthly meeting to update the progress of project implementation and next month's planning with involved ACs and WFN and extension workers with total of 18 participants (2 Females or 11%) • Organized a coordination and monitoring meeting to extend the marketing and coordination mechanism in providing information to relevant partners in the Takeo province with total of 22 participants (5 females or 23%). • Worked with 22 TWGs (CS2, DACP, DAI, PPIU) to assess strong ACs and private sectors linked to cassava crop production chain and cassava crop product market business, collect all information for preparing slide presentations from 	<ul style="list-style-type: none"> • It is observed the figures are more than the set target due to use the existing list. • No budget for provided gender training and waiting for ADBs approval on the Pilot practical training.

ACs, DAI, DACP, DIC and private sector to process of Cassava consultation forum at provincial level- arrangement in KPC and collect inputs for preparing annual budget plan and work plan for years 2022 link to PPP sector as a part of CS2 under CFAVC project. **In sum total 108 participants (49 females or 45%). (Please see table below)**

Description of activities	# Participants		
	Total	F	%
Worked with 7 TWGs (CS2, DACP, DAI, PPIU) to assess strong ACs and private sectors linked to cassava crop production chain and cassava crop product market business.	61	31	51%
Worked with 7 TWGs (CS2, PPIU) to collect all information for preparing slide presentations from ACs, DAI, DACP, DIC and private sector to process of Cassava consultation forum at provincial level-arrangement in KPC.	17	10	59%
Worked with 8 TWGs (CS2, PPIU) to collect inputs for preparing annual budget plan and work plan for year's 2022 link to PPP sector as a part of CS2 under CFAVC project.	30	8	27%
In sum total	108	49	45%

- In September 2021, GFPs representing each provincial department (PDOAFF, PDOWRAM, PDORD) and ACs/WFNs were involved in meetings with the team at national level, incl. to update the progress activities of ACs, challenges, and prepare the planning link for the agribusiness value chain implemented by PPIU/PDAFF (GFP) with a total of **30 participants (21 females/63%)**.

Province	Numbers of participants	Activity
Kampot	8 (female 6 / 75%)	•Participate in the meeting to review the progress of

			ACs/WFNs, challenges and further directions.				
	Takeo		•No activities				
	Tbong Khmum	22(F 15 /68 %)	•Awareness dissemination to promote and encourage women ACs to participate in events for consultation, planning and raising the needs and challenges of women in ACs at Trea commune, Krouch Chhmar district,				
	Kampong Charm		No activities				
<p>(ii) At least 50,000 females benefiting from rehabilitated climate resilient irrigation and water management systems</p> <p>Target 2: On track</p>	<p>• The storages of selected AC for 2020 across started with construction work from 15 - 30 August 2021 in difference place to be completed by 30 December 2021. In September, a total of 45 workers (12 unskilled workers) with 12 females (4 from the company and 8 from villages) were hired, equal to 27%.</p>						
Province	Total worker	females unskilled workers	% Unskilled females' workers	worker from company (days)	Females' worker from company (days)	workers from village	Females' workers from village
TK	11	3	27%	11	3	0	0
KP	13	3	23%	1	0	12	3
KC	11	3	27%	3	0	8	3
TB	10	3	30%	4	1	6	2
In sum total	45	12	27%	19	4	26	8

1.2.1 At least 25% of workdays created will be filled by women disaggregated by skilled/unskilled and type of work related to infrastructure construction/ rehabilitation as well as operation and maintenance.

Target 3: On track

- The construct storages of selected AC for 2020 across started construction by Huot Chhoeun Co.,Ltd.,the action plan(s) were designated as being accountable for specific objectives and activities for Gender and women participation. The contractor is responsible for ensuring that women participation is monitored to meet the contract requiring at least 25% of all workdays to be filled by women.
- All of GFP in the target province follow up the contractor and encourage women in villages commune to work with the construction of the 4 warehouses at ACs warehouse and training building construction with total of 1241 workdays were offered in September. Of these, skilled workers did 615 working days, 619 were done by unskilled workers, and females equated for 330 working days, which equals 27%, the worker from company were done 683 day and workers from villages 775 days. Thus, the target for unskilled female workers more than to the Project target of 25%.

Province	workdays	skilled workers (days)	unskilled workers (days)	females unskilled workers (days)	% Unskilled females workers	worker from compar (days)	workers from village
TK	187	119	68	51	27%	187	0
KP	403	310	93	93	23%	62	341
KC	341	93	248	93	27%	93	248
TB	310	93	210	93	30%	124	186
In sum total	1241	615	619	330	27%	466	775

- Tasks and activities performed by women and men:

- The New construction was started in 01. August 2021 by contractor HOUT CHHOUENG CONSTRUCTION Co., Ltd. in Snor Village, Sangkat Rokar khnung, Daun keo city, Takeo Province.

	<p>Men: Operating machines, general measurements, making of formwork, casting of concrete, steel bending, wiring, transporting of heavy work (incl. with use of machines).</p> <p>Women: Small and light work such as wiring, curing water, mixing cement, cleaning of sites and cooking.</p> <p>No “child labor” is hired by the contractor since the project start.</p> <ul style="list-style-type: none"> • Unskilled men and women receive equal pay for same work and fair payment. For example, women earned in amounts of 35,000 riels to 40,000 riels per day, while men received the same amounts per day inclusive, without food, provided by the contractor. • Women un-skill workers in communities were encouraged to work in the construction side. 	
<p>1.2.2 Provide skills enhancement for women in infrastructure related construction/rehabilitation (e.g., masonry skills for bio-digesters construction), and operation and maintenance (e.g., small-scale irrigation schemes)</p> <p>Action 1: On track</p>	<ul style="list-style-type: none"> • CS2 component courses of TOT training on quality control construction techniques and extension methods of bio digester and bio-slurry for PDAFF & extension workers in Kampot with total 38 participants (10 females or 26%). 	
<p>1.2.2 At least 30% women FWUC members developed capacity to operate and maintain irrigation schemes.</p> <p>Target 4: On track</p>	<ul style="list-style-type: none"> • CS2 with GFPs establish 26 FWUCs and made full operation; and strengthening capacity building to FWUCs representatives in Trapaing Run and Prey Kduoch irrigation system in Kampot was completed in 8 steps or 80% completion in Tbong Khmum (Tuol Pring, Trapaing Tros, and Ta Kem) fully completed FUWUCs establishment in cooperation with the DFWUC, organized an event and handing over the stamps officially usage with total 41 participants (11 females or 27%). 	<ul style="list-style-type: none"> • The participants of FWUCs used the existing list so the target under 3 % of the target project set and female in the FWUC have many core work activities. • FWUC establishment stow in progress due to slow in irrigation system rehabilitation
<p>1.3.1 As part of the promotion campaigns about bio digesters and other renewable energy solutions, raise awareness among</p>	<ul style="list-style-type: none"> • In September 2021, CS2 component conducted: • 90 Keys farmers were follow-up on Rice seed demonstration (types: CAR16, Phka Mealdey, Phka and Romduol) with total 38 farmers (19 Female or 50 %) in 4 target provinces. 	<ul style="list-style-type: none"> • The number of field work increased slightly, but is still affected due to COVID-19. • Training on plant issue culture development, bio fertilizer and bio pesticide production and

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).

Action 2: On track

- 10 keys farmers on cassava seed plots are processing in step planting were demonstration and follow-up with total **8 farmers (4 female or 40 %)** in 2 target provinces (KCM&TBK)
- In sum total, 90 keys farmers' Rice seed demonstrations and 10 cassava plots with a total of **46 farmers (23 female or 45%%)**.
- Organized 1 model farmers training and exchange visit in Kep province, focused on technical aspect of bio-slurry use and management and compost making and sharing the success experiences of growing vegetable on shelter in adaptation of climate change, compost making for model farmers in target provinces with total of 41 participants (8 females or 20%).
- CS2 and PPIUs conducted 6 times coaching with 90 groups of field coaching and mention on promotion and marketing in Tbong Khmum, Takeo, and Kampong Cham with total 951 farmers (369 female or 39%) on promoting bio digester and compost hut program.
- Gender Focal Points (GFPs) , CS2 and PPIU conducted training and study tour for exchange field visited on Bio-digester and Compose Huts and use of bio digester and compose Huts to ACs and WFN , meet every month (also for September 2021), for attending project meetings and follow up with ACs/WFNs and construction sites to oversee the project implementation and raising the demonstration experiments of model farmers, demonstrate a diversified farming system using short-term compost on vegetable crops, Bio-digester and compost Huts and monitor women's participation and record/report on gender issues with a total of **450 participants (184 females/41%)**.

Province	Numbers of participants	Activity
Kampot	38(F 9 / 24 %)	•On 24-27 August 2021, CS2 specialist cooperated PPIUs Project staff and GFP conducted 2 training on Bio-digester and Compose Huts to

quality testing delay (still in process of contacting with local resource provider)

- Construction of the Bio-digester is slow, the buyers are not confident.

		15 (F 5 / 33 %)	ACs and WFN at PDAFF with total 38 participants (9 females or 24%).
		40(F9 / 23 %)	<ul style="list-style-type: none"> •On 09-10 September 2021, GFPs conducted 2 selecting and checked farmers' locations for demonstration of mixed agriculture, Bio-digester and composting of environmental production of the project in Banteay Meas and Chumkiry district Kampot province. •On 10 September 2021 participate in the training of model farmers and study tour for exchange field visited on the use of bio digester and compose Huts, vegetable growing techniques, growing vegetables on the shelter and compost production method at Sangkum Mith Hotel, Kep Province
		40(F9 / 23 %)	<ul style="list-style-type: none"> • On 14-17 September 2021, participate in outreach workshop and reflect on the benefits of construction Bio digester and compost Huts at the Sangkum Mith Hotel, Kep province.
		In sum total 133 (F32/ 24%)	
	Takeo	11 (F6 / 55 %)	<ul style="list-style-type: none"> •2 times conducted introduction of vegetable growing techniques, demonstrated the effectiveness of compost and vegetables on the shelf and following up the growth of vegetables in mixed agriculture.
		8 (F5/ 63%)	

		141 (F49/ 35%) 28 (F16/ 57%) In sum total 188(F 76 /40%)	<ul style="list-style-type: none"> • 2 times follow up the planting of vegetables on the shelter, 8 participants, 5 females. •Conducted 15 disseminations of Bio-digesters and compost Huts in the field and at the home of the farmers. •16 interested buyers, 12 interested in building Bio-digester and compose Huts. 	
	Tbong Khmum	62 (F37/ 60 %)	<ul style="list-style-type: none"> •On September 2, 2021, conducted raise awareness and promoted the Bio-digester compose and Huts and gender mainstreaming integration in the agricultural sector with distributed a copy of the Bio-digester leaflet handed over to each village chief for further dissemination to the beneficiary in Damnak Beng , Po , Meas and Tuol Tonsong village, Ampil Tapok commune, Oreang district. 	
	Kampong Charm	67 (F 39 / 58%)	<ul style="list-style-type: none"> •Participated in training of farmers' schools on sustainable rice in Sambo Meanchey ACs /Chealair Akphivat ACs and Baray Andong Ang ACs, and follow up Cassava Seed Demonstration in Sambo Meanchey and Stung Trang Sen Chey Communities. 	
1.3.1 At least 40,000 women (or 50% of total beneficiaries) are beneficiaries of bio digesters and	<ul style="list-style-type: none"> • In September 2021, no bio digester and compost hut construction and installation activities started yet. In this case the total of 160 new clients across target provinces was identified for bio digester and 124 new eligible clients across 		<ul style="list-style-type: none"> • Followed up the bid reviewing and evaluation report submitted to ADB. • The progress of bio digester and compost hut program tender and procurement process still pending and need time to review 	

<p>compost huts installed (baseline: 5,721 women).</p> <p>Target 5: On track with below target figures</p>	<p>target provinces identified compost hut construction and installation.</p> <ul style="list-style-type: none"> • CS2 component courses of TOT training on quality control construction techniques and extension methods of bio digester and bio-slurry for PDAFF & extension workers in Kampot with total 38 participants (10 females or 26%). • In September 2021, the GFPs in Takeo province conducted Training awareness on the benefits of Bio-digester and compost Huts to model farmers and agency with total 14 participants (4 female or 29%). 	<p>bidding evaluation report before submitting to ADB for NOL</p> <ul style="list-style-type: none"> • COVID-19 spread out in the target commune. The GFPs at local and provincial level will continue to push for the target. The Gender team notice better performance and understanding of project modalities from GFPs. • Vegetable growing techniques on the shelves limited with a low market price. • Slow construction, customers are not confident.
<p>1.3.2 Number and percentage of women active agents <i>in the promotion of campaigns on the use of renewable energy solutions.</i></p> <p>Target 6: Target not met yet</p>	<ul style="list-style-type: none"> • CS2 and PPIU with GFPs conducted: <ul style="list-style-type: none"> e) Dissemination/reflection workshops on benefits bio digester, bio-slurry and identifying new potentials farmers who are eligible for bio digester and compost hut program and marketing of the bio-digester and bio-slurry activities organized in Svay Rieng province with total 39 participations (6 female or 15%) f) 10 courses of training to extension officers/workers for bio digester and bio-slurry in Tbong Khmun are 3 courses, Takeo are 4 courses and Kampot are 3 courses on extension methodology with total 114 participants (33 female or 30%). g) 7 courses of small group or village meeting to identifying interest clients in Kampong Cham, Tbong Khmum and Kampot with 149 participants (73 females or 49%). In sum total 302 participants (112 female or 37 %). 	<ul style="list-style-type: none"> • The CADRI contract with IRRI and ADB slow progress
<p>Output 2: Climate smart agriculture and agribusiness promoted</p>		
<p>2.1.1 Number and % of women farmers involved <i>in selection and multiplication of climate resilient</i></p>	<ul style="list-style-type: none"> • 119 females or 65% out of 184 participants were introduced to the crop care techniques. Model farming and mixed farming systems demonstrated the effectiveness of vegetable composting and selection of multiplication crops with adaptation to the climate, roofing of vegetables, covering crops 	<ul style="list-style-type: none"> • Women stated they were busy with their house work and kids. • Vegetable growing techniques on the shelf are still limited and offers low market prices. • COVID-19 spread out in the target commune.

<p><i>crops varieties and building on their local knowledge in this area.</i></p> <p>Target 7: Target not met yet</p>	and continuing growing and expanding vegetables planting for implementation in the community.		
	Province	Numbers of participants	Activity
	Kampot		No activities implemented
	Takeo	22 (F18/82 %)	<ul style="list-style-type: none"> •1 model farmer demonstrate mixed farming systems and demonstrates the effect of vegetable compost Huts on the shelf with selected climate resistant vegetable varieties, vegetable roofing and Climate Resistant Crop Coverings, harvested and income and Continuing Planting
		86 (F 64/74 %)	<ul style="list-style-type: none"> •16 selected fields show the production of 16 Romduol varieties for demonstration to the participants • Tagged the field show, introduced the techniques of purification, cutting, mixing, weeding to the farmers.
	26 (F 20 /77 %)		
	In sum total 134 (F 102 or 76 %)		
Tbong Khmum	30(F 5 /17 %)	<ul style="list-style-type: none"> •2 Training on SRP farmers' demonstration school on sustainable rice production SRP in 	
	20 (F 12/ 60 %)	h)Kork Srok village, Kork Srok commune, Tambor district.	
	In sum total 50(F 17or 34%)	i) Trapeang Sra Nge village, Kork Srok commune, Tambor district.	
Kampong Charm		No activities	
<p>For 2.1.2 (1): Women are 40% of total participants (<i>aggregate basis</i>) or at least 16,000 women farmers</p>	<ul style="list-style-type: none"> • The activities are pending approval of the Annual Work Plan 2021 by ADB and MEF. 		

<p>are trained in CSA and agribusiness development skills and agricultural extension and technical capacity-building activities including those related to climate change adaptation and mitigation</p> <p>Target 8:</p>		
<p>For 2.1.2 (3): Women are 40% of total participants (<i>aggregate basis</i>) or at least 16,000 women farmers are trained on management (including leadership, negotiation) and business skills trainings.</p> <p>Target 9:</p>	<p>a)The activities are pending approval of the Annual Work Plan 2021 by ADB and MEF.</p>	
<p>For 2.1.2 (2): (i) Number and percentage of women farmers trained in each event (trainings on how to operate and maintain a range of agricultural machinery.</p> <p>Target 10: On track</p>	<ul style="list-style-type: none"> On 06 to 10 September 2021, CS2 component conducted TOT on O&M Agricultural Machinery with total 9 (1 female or 11 %), and TOT on ACs Marketing Principles with total 10 (4 female or 4 %). In sum total 31 participants (6 female or 19 %) is in the 3 TOTs of the 4 target provinces at the provincial level. 	<ul style="list-style-type: none"> Women are less involved due to being busy with their housework and the percentage of women in the ACs committees are lower than the existing list.
<p>For 2.1.2 (2): (ii) women represent 40% of increased labor pool of individuals who can operate agricultural machinery over the baseline (baseline: 0).</p> <p>Target 11:</p>	<ul style="list-style-type: none"> The activities under 2.1.2 are pending approval of the Annual Work Plan 2021 by MEF 	
<p>2.1.3 (i) Number and type of activities conducted <i>to strengthen linkages between women-led</i></p>	<ul style="list-style-type: none"> The activities post phone for next month 	<ul style="list-style-type: none">

<p><i>and/or owned farms/enterprises* and agribusiness industry</i></p> <p>*For support provided to cooperatives: preferential support will be given to agricultural cooperatives with a majority of female members.</p> <p>Target 12: On track</p>		
<p>2.1.3 (ii) at least 8,000 women farmers (or 50% of total women farmers trained) are SRP compliant with direct links to millers and exporters</p> <p>Target 13: On track</p>	<ul style="list-style-type: none"> • In September 2021, CS2 component and PPIU conducted Training on SRP to farmers as following: <ul style="list-style-type: none"> j) 120 farmers trained on SRP compliant in Takeo province with total 79 females or 66% k) 120 farmers trained on SRP compliant in Kampot province (74 females or 62%). In sum total 240 farmers (153 females or 64%) • In September 2021, GFP in: <ul style="list-style-type: none"> l) Tbong Khmum conducted 2 training to famers at field school demonstration on SRP sustainable rice production to the green ACs at Kork Srok village, Kork Srok commune, Tambor district with total 30 participants (5 females or 17%) and training on SRP rice production in Trapeang Sra Nge village, Kork Srok commune, Tambor district with total 20 farmers (12 females or 60%). In total 50 participants (17 female or 34%) m) Takeo province conducted 6 training on SRP to farmers with total 180 farmers (118 female or 66%). In sum total 230 farmers (135 Females or 59%). 	<ul style="list-style-type: none"> • The TOT training has been delayed due to COVID-19 in the communities and Less than 10 persons allowed to join in the meeting, training and others activities.
<p>2.1.4 Practical solutions identified and integrated in the project to address burden of household and care work for women farmers, especially female headed households, which prevents them to</p>	<ul style="list-style-type: none"> • The activities are pending approval of the Annual Work Plan 2021 by ADB and MEF. 	<p>2.1.4 Is gaining increasing momentum from high-ranking officials at both capital as well as provincial levels, pushing the agenda forward.</p> <ul style="list-style-type: none"> • The progress of policies study and formulation is pending due to slow progress in

<p>increasingly participate and move up along the value chains.</p> <p>Action 3:</p>		<p>TOR reviewing and comments back from the ADB.</p>
<p>2.2.1. 25% at national level and 20% at local levels women participants (aggregate basis) <i>in capacity building with regard to climate-friendly agribusiness value chains – women staff should be prioritized for training</i></p> <p>Target 14: Ongoing</p>	<ul style="list-style-type: none"> • In July 2021, CS2 components conducted TOT training to PPIU staff with different topics as the following: <ul style="list-style-type: none"> n) 8 TOT training on SRP to 16 PPIU staff of target province. o) 4 TOT training on Farm Machinery to 28 PPIU staff of target province p) 6 TOT training on CamGAP to 12 PPIU staff of target province q) 4 TOT training on Business Skills Development to 40 PPIU staff. In sum total 96 staff's participants (24 female or 25%) is in the 4 TOTs of the 4 target provinces at the provincial level. • CS2 component conducted TOT on ACs Leadership and Management with total 12 (1 female or 8 %) at the provincial level. 	<ul style="list-style-type: none"> • Female participants in the TOT less than target set due to using the existing list.
<p>Output 3: Enabling environment for climate friendly agribusiness enhanced</p>		
<p>3.1.1 Report prepared with clear recommendations based on detailed gender analysis of the 4 value chains.</p> <p>Target 15: Ongoing</p>	<ul style="list-style-type: none"> • In progress, established by: • Monthly GAP monitoring reports from the field (starting March 2021, every month). • Bi-annual, quarter, Gender specific report, based on meetings and consultations with GFPs, IGS/NGS, specialists, other Ministerial anchors and beneficiaries, in particular ACs and WFNs. • In September 16-17, 2021, NGS joint mission for public consultation meeting with safe guard , Environment and social development and gender and commune council, villagers and PIU for Taock irrigation subproject at Srae Knong commune, Kampot with total 24 participnats (9 female or 37.50%) from 4 villages Prey Khmaom , Prey Yay, Doung, and Tdolk Youl villages ,Srey Knong commune Chum Kiry district, Kampot province. 	<ul style="list-style-type: none"> • To be implemented throughout 2021 onwards

	<ul style="list-style-type: none"> On 20 September 2021, NGS, CS1 team (safe guard , Environment and social development and gender) joint contractor kick-off meeting for storages support selected AC for 2020 with total 9 participants (2 female or 22%). 	
<p>3.1.2 Key recommendations from gender analysis of 4 targeted value chains integrated in the Agribusiness Policy</p> <p>Action 4: Ongoing</p>	<ul style="list-style-type: none"> Strategic Development plan, MAFF, 2019-2023 and the Gender Mainstreaming Policy and Strategic Framework in Agriculture, 2016-2020 MAFF and Review of the Agriculture, Forestry and Fisheries Report 2020 and implementation direction for 2021, are to be updated to reflect latest knowledge, activities and output of the Gender related work in the CFAVC, including relevant best practices and recommendations. New GAP recommendation has further been discussed with ADB Manila and ADB Cambodia, as well as DTL and translation in Khmer language. 	<ul style="list-style-type: none"> The work has started in February 2021, with the kind assistance and decision-making from Her Excellency Mrs. Hor Malin (MAFF) and Her Excellency Mrs. Chan Phaloeun (MAFF), tentatively to finish in August 2021, pending COVID-19 issues. The work is planned to be followed up in September 2021. Waiting for ADB reply comment and approval for GAP implementation at all relevant.
<p>3.1.3. Number of sessions provided on gender equality in climate-friendly agribusiness value chains; target groups; number of people trained disaggregated by sex.</p> <p>- Integrate a session on gender equality in climate-friendly agribusiness value chains (based on gender analysis report mentioned above) into the training and awareness raising activities for relevant project stakeholders (i.e., relevant departments in MAFF, agricultural extension agents, local leaders and government officials, GCPSU and Gender Focal Points, and WFN). Target 16: Ongoing</p>	<ul style="list-style-type: none"> The IGS/ NGS with the PIC/PMU prepares: <ul style="list-style-type: none"> The proposal for the Gender pilot trainings due to the Covid-19 disruption, using remote and online tools, for Gender Mainstreaming and Child Protection and development in agriculture at local level with: <ol style="list-style-type: none"> List of ACs to be pilot tested. Tentative schedule for a 1-day training. Materials needed for the pilot tests and Budget and cost estimate for tests. <ul style="list-style-type: none"> Gender questionnaire Training Needs Assessments (TNA) checklist for GFPs and PPIU staff, ACs /WFN beneficiaries and construction follow up with translation from English to Khmer. Draft guidelines for the Gender Action Plan (GAP) Implementation (A Gender Responsive Approach to Climate- Smart Agriculture). Draft Gender Training Handout Draft Gender Training Manual 	<ul style="list-style-type: none"> The proposed workplan and budget have been sent to the TL for submission to ADB for review and approval. Waiting for budgets implementations at community level.
<p>3.1.4 MAFF GCPSU, the sub-national Gender Focal Points</p>	<ul style="list-style-type: none"> GFPs/ ACs/ WFNs in the 4 target provinces are well aware about Gender related to GAP and the actively involved in 	<ul style="list-style-type: none"> GFPs from all provinces are complaining about increased workloads, lack of skills,

<p>(Province, District, Commune), the AC and the WFN are well aware of the GAP activities by actively involve them as key partners in project implementation and monitoring, especially for the GAP activities.</p> <p>Action 5: Ongoing</p>	<p>trainings for Gender Mainstreaming, Child Protection and development of the Gender Responsive Approach to Climate-Smart Agriculture. Further to this, the GFPs must have increased skill knowledge and attitude on the common GAP communications strategy.</p> <ul style="list-style-type: none"> On September 3, 2021, PPIU staff and GFP conducted raising awareness disseminated on gender mainstreaming and child protection to farmers in Trea commune, Krouch Chhmar district with a total 22 participants (15 females or 68%). 	<p>knowledge and abilities for implementing the work and raise issues with time constraints.</p> <ul style="list-style-type: none"> Many also state that locations to visit are too far away from Provincial centers, and lack adequate transportation.
<p>3.2.1. (i) Number and type of activities conducted on raising 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>Target 17: Not yet implemented, only just launched</p>	<ul style="list-style-type: none"> CS 2 (NK-5 – Green Financing Specialist) appointed, and is awaiting approval from the PRC (MAFF) on 20th February 2021 	
<p>3.2.1 (ii) types of communication channels and materials used to raise awareness about existing credit facilities, green financing including crop insurance and required formalities to access to these</p> <p>Action 6: Not yet implemented</p>		Nothing to report
<p>3.2.1 (iii) 15 female staff in financial institutions trained in CSA lending</p>		Nothing to report

and green finance (or 30% of total staff trained are women)		
Target 18: Not yet implemented		
3.2.1 (iv) 10 or 30% of total privately-owned enterprises trained women-led and/or owned enterprises trained on green finance and CSA		Nothing to report
Target 19: Not yet implemented		
3.2.1 (iii) 20,000 women provided with information on climate risk sharing instruments		Nothing to report
Target 20: Not yet implemented		
Project management gender related activities		
PMU to appoint safeguards officer to be also responsible and accountable for gender, who will closely liaise with representatives from the MAFF GCPSU at national level and from WFN, Agricultural Cooperatives and gender focal points at provincial levels.	<ul style="list-style-type: none"> • A PMU Safeguard officer responsible for Gender is appointed who liaise with GFPs and other relevant staff in the provinces 	
Action 7: Ongoing		
Prepare annual work plans to implement the activities of the GAP.	<ul style="list-style-type: none"> • NGS/IGS have made workplan for 2021 GAP and this plan is listed in the Annual Report 2020, as table 1. 	
Action 8: Ongoing		
Gender consultants (national and international) to be recruited and build capacity of the GCPSU and gender focal points and PMU staff	<ul style="list-style-type: none"> • Ongoing, the NGS and IGS are mobilized, both present in Cambodia. Several activities to be implemented in 2021 onwards; 1. Monthly, Bi-annual and annual reports, 	<ul style="list-style-type: none"> • Due to COVID pandemic meeting / training will work online or zoom to make sure that all GFP be able and confident with their work and GAP set.

- a) It is suggested that the project accelerate the construction of a bio-digester Compose Huts, provide a demonstration of mango cultivation by drip irrigation system, provide laser tillage of farmland before the rains, and provide financial equipment for timely demonstration of rice seed production.
- b) Drought makes it difficult to implement rice shows (Tram Kak and Bati districts Takeo province)

<p>in gender analysis and mainstreaming, and support GAP implementation, monitoring and reporting.</p> <p>Action 9: Ongoing</p>	<ol style="list-style-type: none"> 2. Support to newly established M/E unit (from March 2021), 3. Gender and Value Chain analysis study/survey. Concept note final by the gender team and discussed with PIC/PMU. Concept note will form basis for ToR. 4. Consultations, trainings, stakeholder meetings etc., 5. Comprehensive Communications strategy to be built, and implemented in all four targets provinces, 6. Ensuring Gender Mainstreaming policy frameworks reflect work from the project including consultations with key Governmental anchors, decision-makers etc. 7. Prepare annually work plans and budget plan to implement the GAP activities, 8. Build capacity of the gender focal points, the PMU and provincial implementing unit staff as well as the MAFF GCPSU, in gender analysis and mainstreaming, and support GAP implementation, monitoring and reporting 9. Invite and encourage GFPs at province-level from MAFF, MOWRAM, MRD to attend training /workshops for capacity building and training of trainers; 	
<p>Collect and analyze data disaggregated by sex where relevant and integrate gender sensitive indicators (from DMF and GAP) in the PPMS.</p> <p>Action 10: Ongoing</p>	<ul style="list-style-type: none"> • DMF and PPMS to be improved with new M/E system, data collection, including forms used. A separate meeting with the new M&E team in CFAVCS took place in May in order to start to establish M&E modalities with specific focus on Gender. Follow-up meetings with M&E took place in June and July. This is work in progress and will continue in the coming months until a satisfactory level at central level is met, after which further trainings/upgrades can take place at provincial level with GFPs. 	
<p>Ensure regular monitoring and reporting (at least semi-annually to ADB) on the progress of GAP implementation.</p> <p>Action 11:</p>	<ol style="list-style-type: none"> 1. Establish monthly GAP reports 2. Collect data and summary the target and activities that GFPs implement, from all 4-target province. 3. Follow and support GFPs to implement the modalities of the GAP 	

Annex 12: Compliance with Covenants per January – December 2021

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	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

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
							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.
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	Second Financial Audit for the year 2020 was conducted in March 2021. Report has been submitted to ADB in June 2021.
		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	Being Complied with	Being complied. Separate accounts established. 1st annual audited project financial statement reports for FY 2018 submitted in June 2020.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					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.		
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 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.	Being complied with	Progress reports have been submitted every quarter
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.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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	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.	Comply	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.	Comply	Agreed
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	Comply	Agreed.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					transactions and securing a debt maturing not more than one year after its date.		
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.	Comply	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.	Comply	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	Issues on ponds were raised and discussed in the PSC conducted on 28 Jan2020. Minutes of meeting will be forwarded to the Minister of MAFF for further actions. Still no decision.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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	
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 2021 (draft) submitted to the ADB for their re-review.
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.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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.
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	1st annual audited project financial statement reports for FY 2018 issued in June 2020
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.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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	
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	1st annual audited project financial statement reports for FY 2018 deferred for submission in June 2020.
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	Being Complied	Being complied. Separate accounts established. 1st annual audited

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					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		project financial statements report for FY 2018 submitted in June 2020.
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	1st annual audited project financial statements report for 1 Oct 2018 to 31 Dec 2019 submitted in Jun 2020.
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
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	Being Complied	Confirmed.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					other than those set out in this Grant Agreement.		
	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 2021 are the arrangements still not sure how this Fourth-party verification will be arranged. There are no category A

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
							subprojects included in the project.
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	Being complied with	There are no category A subprojects included in the project.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					Monitoring Report. The Borrower shall ensure that no Subproject categorized as Category A under the SPS is financed 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; 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.	Being Complied	First invitation for bids for civil works have been issued in April 2020.

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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	Was issued in September 2020
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 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	Being Complied	

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
					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	First gender orientation meeting was conducted in July 2020
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 (As per 30.06.2020)	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	

No	Covenant	Loan Agreement Reference				Compliance Status (As per 30.06.2020)	Remarks/Issues
		Product	Schedule	Para No.	Description		
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	
	Others						
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	

Annex 13: Financial Management Plan per January – December 2021

Weakness	Mitigation Action	Responsibility	Timeframe	Status per Jan. – Dec. 2021
<ul style="list-style-type: none"> • Coordination among PMU of MAFF as EA and IAs: PDAFF, PDWRAM, PDRD, and others 	<ul style="list-style-type: none"> • Clear roles and responsibilities are detailed in PAM. • EA and IAs are well informed about their roles and responsibilities by ADB and PIC. 	EA/PMU/MEF	One month after Loan Negotiation.	Done
<ul style="list-style-type: none"> • Limited capacity of the project staff at the PMU/PPIU on budget execution, accounting, reporting and auditing. 	<ul style="list-style-type: none"> • Four national Financial Management Specialists will be recruited to provide financial management support to the PMU. In collaboration with CARM, they will train accountants of EA/IA on budget execution, accounting, reporting, and auditing. • Training on project management, financial management, SOP and project fund flows shall be provided to the project staff in EA and IAs. • Training on ADB disbursement procedures, including online training, will be made available to EA and IA staff; and project staff will be encouraged to undertake the training to help ensure efficient disbursement and fiduciary control. 	MAFF / PMU / PIC	Starting 3 months from project effectiveness and will be a continuing activity to ensure staff are updated of the latest good practice.	Done <ul style="list-style-type: none"> • Ongoing twice per year, refresher training • Ongoing twice per year, refresher training.
<ul style="list-style-type: none"> • Safeguard of vehicles, motorcycles, equipment for workshops, laboratory, and solar power 	<ul style="list-style-type: none"> • Inventory List must be set up with accountability. • A sound inventory management is required via trainings for IAs. 	PMU/PIC	3 months from the mobilization of the PIC.	Done Done
<ul style="list-style-type: none"> • Most proposed IAs/PPIUs do not have accounting system to record financial transactions and prepare the required financial reports. 	<ul style="list-style-type: none"> • The accounting system shall be setup and training will be provided for the project accountants at PPIUs/IAs 	PMU/PIC	3 months from the mobilization of the PIC.	Done

Weakness	Mitigation Action	Responsibility	Timeframe	Status per Jan. – Dec. 2021
<ul style="list-style-type: none"> Limited capacity in internal audit. Quality of both internal and external audit reports remains a concern. 	<ul style="list-style-type: none"> MEF will ensure that each IA will include qualified accountants and auditors, and ensure that the project is subject to internal audit to ensure that the Internal Audit Unit of each IA carries out regular reviews of the internal control processes. Regular training on audit will be provided. 	MEF/ADB	By end of Year 1.	<ul style="list-style-type: none"> MEF recruits external auditor on annual basis MEF conducts Audit training to the project staffs on Annual basis
<ul style="list-style-type: none"> Delays and incomplete submission of the unaudited annual project financial statements 	<ul style="list-style-type: none"> EA and IAs staff will be trained in preparing and submitting quality reports of annual project financial statements on a timely basis. MEF to update the TOR for auditors and explore potential participation of supreme audit institution to further improve quality. 	MEF/ADB	By the 9th month from the project effectiveness.	<ul style="list-style-type: none"> MEF or ADB conducts ad hoc trainings on specific topic for project financial staff annually, Done MEF does update annually

ADB=Asian Development Bank; EA = executing agency; IA= implementing agency; MAFF = Ministry of Agriculture, Forestry and Fisheries; MEF = Ministry of Economy and Finance; MOWRAM = Ministry of Water Resources and Meteorology; PIC = project implementation consultants; PDAFF = Provincial Department of Agriculture, Forestry and Fisheries; PDWRAM = Provincial Department of Water Resources and Meteorology; PDRD = Provincial Department of Rural Development; PMU= project management unit; PPIU = provincial project management implementation unit; TOR = terms of reference.

Annex 14: Annual Budget Planning for 2022

Table A 14.1: MAFF's Annual Budget Planning for 2022

Cost (000's US\$)

	Q1	Q2	Q3	Q4	Total
I. INVESTMENT COSTS					
OUTPUT 1: Activity 1.2: Upgrading agriculture cooperative value chain infrastructure (drying, processing, and storage facilities) /					
12 X COOPERATIVE CASSAVA STORAGE (200 TON CAPACITY) - 3 in 2020, 5 units in 2021 / 8.1.2A 12 X					
44 X COOPERATIVE GRAIN STORAGE UNITS (100 TON CAPACITY) - 12 units in 2020, 20 units in 2021 / 9.1.2A 44 X					
24 X RICE SEED STORAGE UNITS (50 TON CAPACITY) - 5 units in 2020, 10 units in 2021 / 10. 1.2A 24 X					
TRAINING BUILDINGS FOR PADCS /A (3 in 2021) / 11.1.3					
MECHANISATION WORKSHOPS FOR KAMPOT, TBONG KHMUM & KAMPONG CHAM 12.1.3					
OUTPUT 1: Activity 1.4: Strengthening infrastructure for agricultural quality and safety testing at the National Agriculture Laboratory (NAL) /					
NAL BIOTECHNICAL LABORATORY SUPPORT					
OUTPUT 1: Project Activity 1.5: Promoting renewable energy (biogas digester and use of solar energy in target cooperatives) for value chain improvement					
RENEWABLE ENERGY FOR VALUE CHAIN IMPROVEMENT					
OUTPUT 2					
OUTPUT 2: Project Activity 2.1: Deploying climate resilient varieties					
POLICY DEVELOPMENT, STANDARDS & RESILIENT VARIETIES					
OUTPUT 2: Project Activity 2.2: Strengthening capacity in climate friendly					
CAPACITY STRENGTHENING FOR CSA, AGRIBUSINESS & MECHANISATION					

	Q1	Q2	Q3	Q4	Total
OUTPUT 3: Enabling environment for climate smart agribusiness enhanced					
OUTPUT 3; Project Activity 3.1: Policy Development and Standard					
POLICY DEVELOPMENT, STANDARDS & RESILIENT VARIETIES					
OUTPUT3: Activity 3.2: Promoting green finance and risk sharing mechanism					
OUTPUT3: Activity 3.3: Supporting climate risk management through Information and Communication Technologies (ICT)					
GREEN FINANCE FOR CSA & AGRIBUSINESS					
II. Vehicles (Pick-Up)					
Motorcycles					
Total PICK-UPS AND OTORCYCLES					
III. RECURRENT COSTS /					
PROJECT MANAGEMENT UNIT					
PROJECT TECHNICAL SUPPORT					
TOTAL (MAFF)					

Table A 14.2: MOWRAM's Annual Budget Planning for 2022

Proc. Code	Task Description	Q1	Q2	Q3	Q4	Total
	I. INVESTMENT COSTS on CIVIL WORKs					
	DT_1: Kampot Province Irrigation Sub-projects					
	TRAPEANG RUN IRRIGATION SUBPROJECT (Carry from 2020)					
CW2	MLECH IRRIGATION SUBPROJECT (Carry from 2020)					
CW12-A	PREY TAKOUCH IRRIGATION SUBPROJECT (Carry from 2020)					
CW12-B	TRAPEANG BOEUNG RESERVOIR					
CW12-D	KANDAL IRRIGATION SYSTEM					
CW12-E						
	DT_1: Takeo Province Irrigation Sub-projects					
	PREY KDOUCH IRRIGATION SUBPROJECT (Carry from 2020)					
CW15-A	KRAIN AMPIL IRRIGATION SUBPROJECT (Carry from 2020)					
CW15-B	CHROUK1 & PLOV TOUK CANAL					
CW15-G	KWAENG TAYI CANAL					
CW15-H	PREY RUMDENG CANAL					
CW15-J						
	DT_1: Tbong Khmum Province Irrigation Sub-projects					
	KBAL TOEUK IRRIGATION SUBPROJECT (Carry from 2020)					
CW13-A	TOUL PRING IRRIGATION SUBPROJECT (Carry from 2020)					
CW13-B	TRAPEANG TROSS IRRIGATION SUBPROJECT (Carry from 2020)					
CW13-C	TBONG DAMREI RESERVOIR					
CW13-F	KAMPONG RAING FEEDING CANAL					
CW13-G						
	DT_1: Kampong Cham Province Irrigation Sub-projects					
	PRAM KOMPHEAK IRRIGATION SUBPROJECT (Carry from 2020)					
CW14-A	O'KAMPROK IRRIGATION SUBPROJECT (Carry from 2020)					

CW14-B		POU TATRESS RESERVOIR					
CW14-D		KOU EURTH RESERVOIR					
CW14-E							
		Subtotal construction					
PMO		19 FWUC Capacity Building (9 Fwuc and 10 Fwuc carry from 2020)					
		TOTAL CIVIL WORKS (in 2021, construction + FWUCs)					
		2. PMU Staff - MOWRAM					
Govt		A. Project Management Staff - supplementary payments					
Govt		B. Other PMU Costs					
IOC		C. Other Vehicles for Provincial Offices					
		Subtotal for Operation Costs 0					
		Grant Total of MOWRAM Budget 2021					

Table A 14.3: MRD's Annual Budget Planning for 2022

Task Description	Q1	Q2	Q3	Q4	Total
I. INVESTMENT COSTS					
OUPUT 1: Critical agribusiness value chain infrastructure improved and made climate resilient					
1- CIVIL WORKS* (Improving connectivity to cooperatives and markets through climate resilient farm road networks)					
a- Road construction in DBST at Takeo province 14.67 Km					
b- Road construction in DBST at Tboung Khum province 21.83 Km					
c- Road construction in DBST at Kampong Cham province 14.30 Km					
d- Road construction in DBST at Kampot province 20.10 Km					
a- Road construction in DBST at Kampot province 40.99 Km					
b- Road construction in DBST at Takeo province 17.45 Km					
c- Road construction in DBST at Kampong Cham province 13.35 Km					
d- Road construction in DBST at Tboung Khmom province 26.63 Km					
Total Civil Works CW17					
2. PROJECT MANAGEMENT UNIT					
TOTAL FOR MRD					

Note: * Civil works budget will be revised after detailed designs