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MOWRAM



MRD

CLIMATE-FRIENDLY AGRIBUSINESS VALUE CHAINS SECTOR PROJECT (CFAVC)

**ADB Loan No. 3661-CAM (COL)/8346-CAM (EF)
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CS1 - 001 SER: Project Implementation Consultants

**FIRST QUARTERLY PROGRESS REPORT
JANUARY – MARCH 2021**

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EXECUTIVE SUMMARY

1. In this reporting period progress with the implementation of the Climate Friendly Agribusiness Value Chain (CFAVC) Sector Project has been slow during to the fact that the condition of the 6 main constrains for a smooth implementation of the CFAVC project remain unchanged. These 6 main constraints are: 1) worsening covid-19 impact on routine operations resulting in postponement of all (large) gatherings, 2) remaining insufficient DED capacity at CS5/MRD/MOWRAM, 3) remaining Insufficient capacity to produce LARP/DDR/third party verification at CS5/CS1/GDR 4) CS2 still not able to mobilize many NKE experts for Outputs 2 and 3 also causing that the AWP 2021 has still not been approved, 5) still no formal RCG decision which department will implement the ponds/drip and 6) further delays in recruitment CS3 and CS4.
2. Main achievements of this reporting period are: a) Tender for improvement of 20 AC buildings completed and bid evaluation report prepared and submitted to PMU for review, comment and approval, b) in meeting with Dr. Srinivasan Ancha (Principal Climate Change Specialist, SEER, ADB) resolved the issue of the cost sharing for the bio-digester program, c) prepared 55 agreements (20 for 2020 and 35 for 2021) on storage management made by PDAFF and ACs in target provinces, d) prepared training program on plant tissue culture, bio-fertilizer production and quality testing, e) constructed 3 biogas plants and 3 compost huts for research and development, f) implemented Land laser levelling, with a total of 445 hectares (120 ha in Takeo, 100 ha in Kampot and 225 ha in Tboung Khmum provinces) of rice field across target province identified for conducting on-field demonstration. Further, there are two consultants (one national M&E expert, and One International M&E Expert) are mobilized during mid-March 2021 under the CS1, while there are two more national consultants are also mobilized under CS2. The CFAVC's CS1 progressed are, baseline proposal development, the proposed draft PPMS database, Outputs Tracking Database, Online Events Calendar, and Reporting System. Moreover, Layout and scope, ToR and bidding file are prepared and get approval from MoWRAM, and they are waiting to get approval from MAFF, and MEF to request quotation from survey companies; Preliminary Engineering Design (Layout, diagram flow, canal design, structure along canals dam), Preliminary concept drawing, Preliminary Bill of Quantity, Draft BOQ for Takoch and Mlech subprojects were prepared - Complete 20%; Revision of the Drawing package 2 Irrigation subprojects in Tboung Khmum province following comments from CS1 DTL -100%; DED for Package 3 in Takeo province: Drawings and BOQ being completed and sent to CS1 for review; Revision of the Drawings for Package 3 irrigation subproject in Takeo province following comments from CS1 DTL. -100%. Ongoing Detailing drawings for earthworks and typical structures in canals and dams are prepared for Pram Kumpheak and O Kamprok for package 4 in Kampong Cham province - 80%.
3. For social safeguard progress for irrigation and road subprojects, the project prepared, revised and response DDR report for Kbal Tuek and Toul Pring Subprojects, Discussion meeting with the Third party for verification of DDR Kbal Tuek and Toul Pring Subprojects based on ADB's requirement. Conducted pole pegging demarcation at Trapeang Tros irrigation subproject prior for GDR to conduct detail measurement survey (DMS), still involved with CS-1 and revised DDR reports of road package and irrigation schemes.
4. For Environmental, the Irrigation Package 3 under CS5 prepared the existing environment condition and public consultation chapter to integrate into IEE of Irrigation Package 3. Irrigation Package 4. The proposed public consultation for irrigation package 4 is postponed. Irrigation Package 2. ADB provided comment on draft IEE by 25 March 2021.
5. For the Gender mainstreaming, the third semi-annual GAP monitoring report, covering the period September 2020 – March 2021 was submitted early April 2021. A thorough revision of some of the data collection forms used by GFPs and project staff in provinces, including bi-lingual designs (English and Khmer) and it is translation of the GAP from English to Khmer and sharing with the field.

6. At the same to the above narrative progress, there is an USD 833,431 actual expenses (1.5% of its annual budget plan as of USD 56,343,840) are spent on the incremental operation costs, the consulting services, and the Civil works, which leads to the cumulative financial progress of year to date is USD 3,817,562 (6.8% of its annual budget planning) under the PMU-MAFF (Annex 13, Table 13.7), and USD 11,998 actual expenses (0.18% of its annual budget plan as of USD 6,493,933) is spent on the incremental operation costs under the MRD (Annex 13, Table 13.9).
7. Physical progress by end of first quarter 2021, the accumulative project physical progress as of reporting period is achieved 18.96%, while the progress during March 2021 is achieved 2.88%. Meanwhile, the accumulative physical progress against AWPB 2021 is reached 7.16%.

INTRODUCTION

8. The Cambodian Ministry of Agriculture, Forestry and Fisheries (MAFF) in coordination with Ministry of Water Resources and Meteorology (MOWRAM) and Ministry of Rural Development (MRD) has implemented the Asian Development Bank funded, “The Climate- Friendly Agribusiness Value Chains Sector Project (CFAVC)” aimed at addressing the low value addition, low productivity and extensive use of natural resources by improving the competitiveness of agricultural value chains in 2 provinces along the Greater Mekong Sub-region (GMS) southern economic corridor, and 2 provinces along the south coastal economic corridor. The project is focused on enhancing the climate resilience of critical agricultural infrastructure and facilitating commercialization of 4 crops, viz. 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. It finally also plans to strengthen the technical and institutional capacity for climate smart agriculture (CSA) and to create an enabling policy environment for climate-friendly agribusinesses.
9. This document is the first Quarterly Progress Report, the Project Implementation Consultants (PIC) covering the project period January – March 2021. The aim of this report is to report on the progress of the CFAVC project including all compliance requirements. This report is produced with supporting documentation from the CS2 and CS 5 consulting teams.

PROJECT DESCRIPTION

10. The CFAVC project has 3 outputs as follows:
11. **Output 1: Critical Agribusiness Value Chain Infrastructure Improved and Made Climate Resilient.** This output addresses infrastructure gaps to enhance competitiveness of the value chains of rice, maize, cassava and mango in target provinces. It involves rehabilitation and modernization of rural infrastructure to increase production and resource efficiency, reduce postharvest losses, and enhance quality and value chain links while reducing GHG emissions and increasing climate resilience. Key activities include: (i) rehabilitating irrigation and water management infrastructure (27 off-farm irrigation systems, 800 on-farm rainwater harvesting ponds, and 15 drip irrigation demonstrations) to climate-resilient condition; (ii) upgrading agricultural cooperatives’ value chain infrastructure (drying, processing and storage facilities of at least 80 cooperatives); (iii) improving the connectivity of farms to cooperatives and markets through climate-resilient farm road networks (at least 250 km); (iv) strengthening the infrastructure for agricultural quality and safety testing at National Agricultural Laboratory; and (v) promoting renewable energy (12,000 bio-digesters, and 6,000 compost huts and use of solar energy in target cooperative areas) for value chain improvement.

¹ Project Administration Manual, CFAVC, June 2018, ADB

12. The project will rehabilitate water management infrastructure through strengthening of water resources, reshaping of water conveyance irrigation and drainage systems, and upgrading design standards to withstand climate variability and projected climate changes and install drip irrigation systems to improve yields and deliver exportable mango fruit. The project will support construction of climate-proofed post-harvest units for cleaning, drying and storage at farm cooperatives. It will improve climate resilience of farm to market roads through measures such as increasing height of embankments or using concrete roads, promoting cross drainage and selecting permeable materials.
13. **Output 2: Climate Smart Agriculture and Agribusiness Promoted.** Key activities under this output include (i) deploying climate-resilient varieties; (ii) strengthening the capacity in climate-friendly production practices and technologies; and (iii) promoting farm mechanization and extension. The project will support the Cambodian Agricultural Research and Development Institute (CARDI) to produce, multiply and distribute climate resilient varieties of rice and maize and to improve weaning and acclimatization of mango and cassava germplasm. The project will train at least 40,000 farmers (of which 16,000 are women) on climate smart agriculture (CSA) practices in which 50% of them will receive training on sustainable rice platform (SRP) compliance. It will demonstrate laser land levelling to improve water use efficiency and enhance capacity of farmers' water user groups to operate, manage and maintain irrigation schemes. The project will construct and upgrade four farm mechanization workshops and four agribusiness training facilities to train farmer water user communities, women farmer networks and agricultural cooperatives in operation and maintenance of infrastructure and farm machinery.
14. **Output 3: Enabling Environment for Climate Friendly Agribusiness Enhanced.** The project will assist the Ministry of Agriculture, Forestry and Fisheries (MAFF) and the Ministry of Commerce in creating an appropriate enabling policy environment for agribusinesses. Key activities include: (i) formulating climate-friendly agribusiness policies and standards; (ii) promoting green finance and risk-sharing mechanisms; and (iii) supporting climate risk management through information and communication technologies (ICT). The project will provide support for agricultural product certification, quality and resilience standards, including Cambodia Good Agricultural Practice (CAMGAP) and organic fertilizer standards. The project will support cooperatives in becoming sustainable agribusiness ventures by linking up with the private sector and by establishing crop-centric public private partnership forums for each commodity value chain. The project will raise financial institutions' awareness on green finance and integration of environmental and climate risk screening criteria into credit application and reporting procedures. Using ICT, the project will provide weather, market and agronomic information with a view to create an enabling environment for more effective climate risk management.

PROJECT PHYSICAL PROGRESS

15. The project physical progress is assigned 90% to determine for the DMF targets covering activities from 7 to 13 (not including 10% weight covering, a) Activities 1 to 3 for the PMU, the assign weight is 5% and b) Activities 4 to 6 adhering to TA recruitment and the project safeguards requirements, the assigned weight is another 5%). Hence, the total assigned physical progress weight is 100%. However, the accumulative project physical progress as of reporting period is achieved 18.96%, while the progress during March 2021 is achieved 2.88%. Meanwhile, the accumulative physical progress against AWPB 2021 is reached 7.16%. More details on the computations of the project physical progress are presented in Annex 1.

PROJECT AREA

16. In compliance with the principle of promoting regional cooperation, integration, and trade, the CFAVC project focuses on strengthening agribusiness value chains in Kampong Cham and

Tboung Khmum provinces along the GMS southern economic corridor and Kampot and Takeo provinces along the GMS southern coastal economic corridor.

PROJECT COSTS

17. The project cost amount is of US 141.04 million and is funded by a) a \$ 90 OCR million loan from the Asian Development Bank (ADB), b) a US 30 million grant and US 10 million loan from the Climate Green Fund (CGF), c) US 7.38 million contribution from the Government of Cambodia and an equivalent of US 3.66 million contribution from the beneficiaries. Table 1 shows the distribution of the 2 loans and 1 grant totaling US 130 million.

Table 1: Budget and Funding Arrangements Loan Funds (US\$)

Activity	TOTAL Budget (US\$)	ADB Loan	CGF(US\$)	
			Loan	Grant
Irrigation and Roads	78,796,750	60,537,190	9,963,900	8,295,660
Equipment, Materials, Goods and Implementation Costs	27,543,130	16,757,700		10,785,430
Training, Workshops and Demonstrations	7,456,780			7,456,780
Warehouses and laboratory	5,762,800	5,762,800		
Biogas Plants and Compost Huts	2,854,150			2,854,150
Other infrastructure	1,44,650	1,330,600		114,050
Incremental Operating Costs	4,681,030	4,187,100		493,930
Interest and Fees	1,460,710	1,424,610	36,100	
TOTAL	130,000,000	90,000,000	10,000,000	30,000,000

CONSULTANTS ARRANGEMENTS

18. The CFAVC project set-up calls for a total of 5 Technical Service contracts as shown in Table 2.

Table 2: Consultants Service Arrangements

Consulting Services Packages		Tasks	Status
CS1	Project Implementation Consultants	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,	Prepare/Implement all capacity building/training, climate smart and agribusiness activities	Mobilized Mid-September 2019
CS3	Variety Development	Support in development of new rice and maize varieties	Being procured
CS4	Information Communication Technology Platform	ITC support for development of forecasts for weather and agricultural commodities	Being procured
CS5	Feasibility Study and Detailed Design	For Irrigation and Road projects prepare Feasibility Studies, including all social	Mobilized Early

		safeguards screening reporting, DED and tender documents	November 2019
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AWPB 2021

19. While in September 2020 the first version of the AWP 2021 was issued, on January 21st 2021, PMU-MAFF re-submitted to MEF and ADB an updated version of the AWPB 2021, for their review and endorsement as shown in Table 3 below. This updated version has a reduced budget, due to the issues with DMF output 1.b and the slow progress with the procurement of DMF activity 1.c. By end of March 2021, the RGC and ADB have not yet issued an official endorsement over the AWPB 2021.

Table 3: 2021 AWP BUDGET per DMF Output

DMF	MAFF	MOWRAM	MRD	TOTAL
1.An Irrigation subprojects	0	8,975,300	0	8,975,300
1.b ponds/drip irrigation	0	0	0	0
1.c farm roads	0	0	6,328,270	6,328,270
1.d Agricultural cooperative	6,207,270	0	0	6,085,460
1.e Laboratories	1,067,050	0	0	1,067,050
1.f Renewable energy	1,387,770	0		1,387,770
subtotal Output 1	8,671,090	8,975,300	6,328,270	23,974,660
2.a New rice/maize varieties	332,310	0	0	332,307
2.b Capacity in climate friendly practices	1,205,130	0	0	1,205,130
2.c FWUCs formatted and trained in O&M	0	204,950	0	204,950
2.d.1. PADDC	279,560	0	0	279,560
2.d.2 farm mechanization	885,350	0	0	885,350
subtotal output 2	2,702,350	204,950	0	2,907,300
3.a.1 Climate friendly agribusiness policies	211,970	0	0	211,970
3.b. GAP for tropical fruit	44,500	0	0	44,500
3.c GAP for organic fertilizer	24,100	0	0	24,100
3.d Staff trained in CSA/Green finance	62,400	0	0	62,400
3.e Agribusiness training green finance and CSA	160,100	0	0	160,000
3.f Climate-risk sharing mechanisms	25,480	0	0	25,480
3.g Supporting climate risk management ICT	542,200	0	0	542,200
subtotal output 3	1,070,750			1,070,750
Project Management (incl. social safeguards and Gender)	969,638	276,620	165,660	1,198,490

DMF	MAFF	MOWRAM	MRD	TOTAL
Consultancy Services	3,743,192	0	0	3,743,192
	4,712,830	276,620	165,660	4,939,682
TOTAL	17,157,020	9,456,870	6,493,930	33,107,820

20. Planned budgets for the AWPB 2021 for the EA and IAs are presented in Table 4, and the budget planned under different funding sources for the AWPB 2021 are shown in table 5.

Table 4: AWPB 2021 Per EA and IAs (0,000\$)

Executing Agency	Cost ('000USD)					
	Q1	Q2	Q3	Q4	Total	%
MAFF	2,089,380	5,896,120	5,330,580	3,840,940	17,157,020	51.8
MOWRAM	215,870	929,220	3,607,620	4,704,180	9,456,870	28.6
MRD	258,920	1,107,850	1,754,340	3,372,830	6,493,930	19.6
TOTAL	2,564,170	7,933,180	10,692,530	11,917,940	33,107,820	100.0

Table 5: AWPB 2021 Per Fund Source (0,000\$)

BUDGET	Cost ('000USD)					
	Q1	Q2	Q3	Q4	Total	%
ADB loan	1,829,760	5,900,110	8,036,630	9,011,690	24,777,190	74.4
GCF loan	36,450	237,690	658,670	1,002,340	1,935,150	6.0
GCF grant	512,820	1,476,660	1,710,420	1,655,190	5,355,080	16.5
RGC	104,500	203,540	183,270	149,610	651,120	2.0
Beneficiary	44,140	125,610	123,540	85,990	389,280	0.2
TOTAL	2,564,170	7,933,180	10,692,530	11,917,940	33,107,802	100.0

PROGRESS OUTPUT 1: Critical agribusiness value chain infrastructure improved and made climate resilient.

21. Under this output, it covered with four key activities including (1.a.1: 800 on-farm rainwater harvesting ponds will be dug and commissioned; 1.a.2: 15 drip irrigation demonstration units on mango farm will be installed; 1.b upgrading 80 agriculture cooperative value chain infrastructure; 1.e: strengthening infrastructure for agriculture quality and safety testing at the National Agricultural Laboratory-NAL; and 1.f: promoting renewable energy-bio digester and use of solar energy in target cooperative-for value chain improvement. During the quarter of activities implementation, main achievement of the supported output as the following²:

Output 1.a: Rehabilitation of Irrigation Schemes

22. Progress with this activity is around 19.49%, up from 10.06 % at the end of the first quarter. This total planned progress for 2021 is the 2021 AWP is around 1.81 %, which for 1550 ha out of the 15,000 ha already completed DED, 955 ha complete 80% of DED and for first

² Note: The activities 1.a.1 and 1.a.2 does not plan in 2021

schemes already completed procurement and payment of advance. Activities achieved this reporting period by CS 5 include.

Agriculture

23. Agro-socio-economic data processing and report for Mlech Irrigation Sub Project and Agro-socio-economic data processing and report for Takoch Irrigation Sub-project.

Topographical Survey

24. Topographical survey for 2021: Prepared system Layout and scope of survey works. TOR and bidding file being preparation. Got approval from MOWRAM. Prepare and submitted Request for Using Provisional Sums topo survey irrigation 2021. Waiting for approval from MAFF and MEF to request quotation from survey companies.

Preparation of Feasibility Study Reports

25. The draft FS report for Prey Kdouch (550ha) and Kraing Empil (200ha) for package 3 in Takeo province was submitted to CS1-100%. Preparing Draft engineering part of Feasibility Study Report for Pram Kumpheak and O Kamprok subprojects in Kampong Cham- 75%. Preparing feasibility study of Takoch and Mlech of Package 5 at Kampot Province: Preliminary Engineering Design (Layout, diagram flow, canal design, structure along canals dam), Preliminary concept drawing, Preliminary Bill of Quantity, Draft BOQ for Takoch and Mlech subprojects were prepared - Complete 20%

Preparation of Detailed Design Reports

26. DED Drawing of package 2 Irrigation subprojects in Tboung Khmum province were corrected following comments and printout for final submit. Revision of the Drawing package 2 Irrigation subprojects in Tboung Khmum province following comments from CS1 DTL, -100%. DED for Package 3 in Takeo province: Drawings and BOQ being completed and sent to CS1 for review. Revision of the Drawings for Package 3 irrigation subproject in Takeo province following comments from CS1 DTL. -100%. Ongoing Detailing drawings for earthworks and typical structures in canals and dams are prepared for Pram Kumpheak and O Kamprok for package 4 in Kampong Cham province- 80%

Social safeguard progress for irrigation and road subprojects.

27. Prepared, revised and response DDR report for Kbal Tuek and Toul Pring Subprojects, Discussion meeting with the Third party for verification of DDR Kbal Tuek and Toul Pring Subprojects based on ADB's requirement. Conducted pole pegging demarcation at Trapeang Tros irrigation subproject prior for GDR to conduct detail measurement survey (DMS), still involved with CS-1 and revised DDR reports of road package and irrigation schemes as comments matrix.

Environmental progress

28. Irrigation Package 3. During, this report period, CS5 prepared the existing environment condition and public consultation chapter to integrate into IEE of Irrigation Package 3. Irrigation Package 4. Due to Covid-19 outbreak, the proposed public consultation for irrigation package 4 is postponed. Irrigation Package 2. ADB provided comment on draft IEE by 25 March 2021. Reasons which have contributed to the slow progress are: a) COVID and b) waiting the approval for VO10 and Topographical survey.

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

- No activities planned in AWPB 2021 for rainwater harvesting pond awaiting RGC decision for the responsible ministry.

Output 1.b.2: 15 Drip irrigation system installed

- No activity planned in AWPB 2021 for drip irrigation awaiting RGC decision for the responsible ministry.

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

29. Progress with this activity at the end of this quarter is around 8.80 %, up from 14.05 % at the end of the quarter of 2020. This total planned progress for 2021 is around 2.52 %, including completion of DED for 71 Km and completed FSR 71 km and FSR 50% of 100 km. Activities undertaken this reporting period by CS 5 include:

Step1: Field Reconnaissance and Walkthrough

30. Conducted field reconnaissance for road sub project planning in year 2021 and organized meeting with commune leader and PDRD staffs in Kampot, Takeo, Tboung Khmum and Kampong Cham Provinces. Conducted field visit for structure inventory road subprojects planned in year 2021 in Kampot and Takeo Provinces. Updating of road selection list and maps from field reconnaissance for year 2021, after the PDRD staffs revised the road network. Map preparations for road sub projects in Kampot, Takeo, Tboung Khmum and Kampong Cham province for planned road network in 2021.

Step 2: Topo- and other Surveys

31. Topographical survey for 2021: Conducted Invitation of Expression of Interest and Quotation for Topographic survey for 2021. Prepare and submitted BER topo survey road 2021. Waiting for approval to engage survey companies for field survey. Road designer need survey data as soon as possible. If this situation continues, this will seriously affect to workplan. Traffic Volume Count Survey and Economic Analysis for 2021: Completed bidding documents for Traffic Volume Count Survey and Economic Analysis for 2021. And submission for approval to use provisional sum. Waiting for VO approval from MEF and ADB.

Step 3: Preparation of Feasibility Study Reports

32. Preparation of feasibility study report of Package-4 (Kampot) 2020 and submitted to CS1, MRD for review. Complete 100%. Preparing Description of Road Network of FSR for package 5 and package 9 road in Kampot province for 2021. Preparing Engineering Condition and Requirement of Road Network of FSR for package PK-5 to PK-12 road in Kampot, Takeo, Tboung Khmum and Kampong Cham provinces for the year 2021. Preparing Feasibility Study Report for package 5 to package 12 for all roads in 2021: - complete 50%.

Step 4: Preparation of Detailed Design Reports

33. Revised drawing for road package subprojects of Kampong Cham province after receiving feedback from MRD. These were already submitted to MRD for revision 1- 100%. Revised drawing package of Kampot province after receiving feedback from MRD. These were already submitted to MRD for revision 1. - 100%. Produced and prepared maps of road subprojects in Kampot, Takeo Tboung Khmum and in Kampong Cham provinces for the road network in the year 2021.

Step 5: Completion of Bidding Document

34. Completed Technical specification for Tboung Khmum, Kampong Cham and Kampot 2020. Bidding document for package 3 road subprojects in Kampong Cham Province is prepared and submitted to CS1. Preparing and Reviewing of the Bill of quantity (BOQ) for package 4 road subproject in Kampot Province.
35. Field visit to Assist MEF/GDR in identified COI and Center Line (C/L) demarcation poles pegging at Lumpong-Sdok Sdom for MRD Road Takeo province. Field visit to Assist MEF/GDR to conduct detail measurement survey (DMS) for MRD road Takeo package 1- Sdok Sdom.

36. The drafted DDR for Dambae and Tuol SNoul road subprojects in Tboung Khmum province was submitted and revised responding to comments from CS1.
37. Rural Road Package 2. On 22 January 2021, draft IEE of rural road package 2 was submitted to International Environment Specialist of CS1 for review and comment. By 15 March 2021, IEE road subproject package 2 in Tboung Khmum was approved internally by ADB. Rural Road Package 3. On 2 March 2021, draft IEE has been updated/improved by CS1 team (National and International Environment Specialist) and submitted to ADB for prior review. Rural Road Package 4. On 24-26 February 2021, public consultation for rural road package 4 was arranged in Kampot Province. Environmental Screening for rural Road in 2021. On March 2021, CS5 plan to conduct environmental screening for rural road in Tboung Khmum Province, however, due to Covid-19 outbreak, it was postponed. The implementation of the 1c. Program is delayed due to 2 reasons: a) COVID and b) waiting the approval for VO10 and Topographical survey.

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

38. AWPB 2021, additionally, the project support 35 selected ACs. During the reporting period from 1st January to 31st March 2021, main activities under output 1.b achieved as the following:
- i. Completed bidding for the 20 ACs storage/warehouses, which planned in 2020 and the bidding evaluation report (BER) prepared and submitted to the PMU on late January 2021 for reviewing, commenting and approval.
 - ii. 35 ACs Storage/warehouses, during the reporting period the drafted a design including drawings, cost estimates, and the preparation of draft bidding documents and submitted to the PMU for reviewing and for further processing.
 - iii. Worked with field assessment team to complete a Feasibility Study Report (FSR) on potential ACs selection for the project support in 2021 with total participants of 15 people (4 women). As the results, FSR on potential ACs selection for 2021 was completed definitely.
 - iv. Worked with government officials from Department of Planning & Statistics (DPS), Department of Agriculture Cooperative Promotion (DACP) and Department of Agro-Industry (DAI) to draft Business Plan for Crop Producer Groups and Crop Warehouse Business Management Committee under the umbrella of ACs. Six participants were involved into the drafting plan 2 of them are women. The results achievement from the drafting plan are as following: One sample Business Plan for Crop Producer Group was drafted, and 1 sample draft of Business plan for Crop Warehouse Business Management Committee was drafted.
 - v. 55 ACs across target provinces (20 ACs planned in 2020 and 35 ACs planned in 2021) made agreement on warehouse management and storage facilities management between ACs and PDAFF, through conducting technical meeting discussion on the contracts. The contracts allow for offering, operation, management & maintaining programs for the storages/warehouses. The contracts are supported by the CFAVC project and the PPIUs/PDAFF and ACs with total participants of 330 attending into the meeting, 132 of the participants are women. The result of agreement between PPIUs/PDAFF and ACs as detailed in table 6 below,

Table 6. Summary agreement and contracts on warehouse management by AC and PDAFF

Province		# of agreement made and # of participant attending during the meeting	
		# of Agreement	# of Participant
1	Takeo	18	143 (29% women)
2	Kampot	13	106 (45% women)
3	Kampong Cham	10	79 (20% women)

4	Tboung Khmum	14	115 (20% women)
	Total	55	330 (29 % women)

Output 1.e: Strengthening infrastructure for agricultural quality and safety testing at NAL

39. Under this activity 1.e.1: Crop product quality and safety testing laboratory equipment upgraded; 1.e.2: Upgrading Biotech-Lab Infrastructure; upgrading Biotech-Lab equipment; 1.e.3: Improvement staff competency (training and capacity building for LAB staff). During the reporting, the main achievements are as the following,

Output 1.e.1.1: Crop product quality and safety testing laboratory equipment upgraded

40. For the support activities to NAL, the project focus on laboratory supporting bio-fertilizer and organic fertilizer certification & standards and plant tissue culture. Main activities have been done as the following,

- i. Meeting with NAL Director and supporting staff to orient on AWPB 2021 implementation based on agreed AWPB 2021 focus on NAL supporting activities.
- ii. Review the workplan for the establishment of bio-fertilizer/ bio- pesticide and organic fertilizer testing laboratory and lists of chemical reagents and culture media followed AWPB 2021.
- iii. Two national consultants recruited and mobilized on 9th March 2021 as the following.
 - a. Mr. Vong Sophorn, National Consultant on National Laboratory Coordinator.
 - b. Mr. Mak Chanratana, National Consultant for Bio-fertilizer/Organic fertilizer and Pesticide production and quality testing.

Output 1. e.1.2. Upgrading Biotech-Lab Infrastructure

- i. Reviewing of an existing drawing for bio-lab infrastructure;
- ii. Drafting for the lab-room renovation and green house infrastructure;
- iii. Preparation of the work plan for the activities to upgrade the lab-infrastructure and installation of the bio-technology lab for the NAL.

Output 1. e.2. Upgrading Biotech-Lab Equipment

- i. Reviewing and validating of the existing Biotech-Lab Equipment.
- ii. Development and presentation of work plan for activities to upgrade the biotech-lab-equipment and installation.

Output 1. e.3. Improve Staff Competence (Training and Capacity Building)

41. During the reporting period, assessment and identification of multiple resources for conducting training on laboratory related topics in the region were made. Five resource centers from different institutions were contacted for specific training delivery.

- i. Development of the training content on overview of plant growth to promote microorganisms in agriculture sector and the quality control methods for commercial products of bio-fertilizer and bio-pesticide for the NAL technical staffs. The purpose of the training is for strengthening and raising awareness the capacity and knowledge for the NAL technical staffs. The training will be introduced as the on-job training course for NAL technical staffs prior to establishment of bio-fertilizer and bio-pesticide testing lab.
- ii. Revision and updating of all proposed training topics/ contents for oversea training on quality control of bio-fertilizer and bio-pesticide and plant tissue techniques.

- iii. Five training services provider were contacted as shown in Table 7, and at the meantime quotation prices for conducting the trainings are under the process of preparing and submitting by them.

Table 7. Summary list of service providers and contacts by 31th March 2021

No	Name of resource person	Contact address
1	Maejo University/Thailand Dr. Jutamas Piladee, Director of the Orchis and Ornamental Horticulture Center	inter-a@mju.ac.th , dia.mju@gmail.com jibby60@hotmail.com
2	Ms. Monthar Wongmaneeroj, Kasetsart University, Head of Central Laboratory and Greenhouse Complex/Thailand Dr. Sutkhet Nakasatoin, Dean of Faculty of Agriculture, Kasetsart University, Thailand	rdmow@ku.ac.th agrskn@ku.ac.th
3	Dr. Zakir Hossain, PhD, AIT	zakirmh@gmail.com , zakimh@ait.ac.th
4	Dr. Sokneang, Dean of Faculty of Chemical and Food Engineering at ICT/Cambodia	in@itc.edu.th
5	Dr. Surono, ICTS, Indonesia	suronotjasmad@gmail.com

Output 1. e.4. Support to achieve ISO17025 Accreditation/registration

42. During reporting period no activities were implemented awaiting for the mobilization of the technical consultant.

Output 1. e.5. Support in Business Plan to get Cost Recovery

43. During the reporting period no activities were implemented waiting for the mobilization of the technical consultant.

Output 1.f. Promoting renewable energy (bio-digester and use of solar energy) in target cooperative for value chain improvement.

44. Under this activity includes (i) installation of at least 12,000 more bio-digesters in target agricultural cooperative benefitting to at least 80,000 persons (40,000 females); (ii) supporting the construction of 6,000 compost huts, to process bio-slurry; and (iii) establish a national framework on the bio-digester quality (standard development) and harmonize biogas initiatives in a private sector friendly manner.

Output 1.f. 1. Installation of 12,000 Bio digesters

45. For the AWPB 2021, 750 bio-digesters were planned to be installed in addition to the 500 bio-digesters which were planned during 2020, hence total number of bio-digesters will be 1,250 are planned to be constructed in 2021. During the first quarter of 2021, from 1st January to 31st March 2021, main achievement as the following:

- i. No bio-digester installation activities started yet.
- ii. Conducted virtual meeting with Dr. Sam Chhom Sangha, Deputy Secretary General, MAFF Project Director, CFAVC Project Dr. Srinivasan Ancha - Principal Climate Change Specialist, SEER, ADB, Pollard Blakeley – Team Leader, CS2 Package, CFAVC Project, Cambodia, Dr. Suon Sothoeun, Mr. Phuong Dara, National Bio-Slurry Specialist, and Mr. Ngin Kosal, Director of Department of Agricultural Engineering, MAFF Project Manager, CFAVC Project, Hoeung Hun – Deputy Team Leader, CS2 Package, CFAVC, Cambodia and Phai Sok Heng – Deputy Team Leader, MAFF, CS1 Package, CFAVC, Cambodia to discuss on cost sharing arrangement between the GCF, the RGC and the Beneficiaries. As results from the virtual meeting the flat subsidy of \$150 to be provided by the GCF and another \$150

to be borne by the RGC, irrespective of the size of the bio digester and the remaining cost will be paid by the beneficiaries.

Output 1.f.2. Installation of 6,000 compost huts

46. For the AWPB 2021, 375 compost huts planned to be installed in addition to the amount of 250 compost huts, which were planned during 2020. Hence, total number of 625 compost huts will be constructed in 2021. During the first quarter of 2021, from 1st January to 31st March 2021, main achievements for the output are shown in table 8 and are described as the following:

- i. No compost hut installation started yet.
- ii. Based on the results from the virtual meeting between the ADB and the project and between the project with the GDAHP the cost sharing arrangement of the compost huts is agreed with a flat rate of \$200³ per compost hut, the remaining cost will be borne by the beneficiaries

Output 1.f.3. R&D and Capacity Building for Bio-digesters and Bio-slurry

47. During the reporting period, the main achievements are as the follows,

- i. Prepared annual workplan and budget for training and capacity building in 2021, and the Training and capacity building is consisting of 446 events.
- ii. Installation of 3 Bio-digesters, and 3 compost huts for R&D demonstration on bio-slurry in Kampong Cham, Takeo, and Kampot province. The demonstration main purposes are to introduce to the farmers, the Farmer's friend model of bio digester design and effective uses of the bio-slurry to be supported by the CFAVC project. Demonstration of the benefit of bio-digester technology such as economic benefits, health benefits, environmental benefits, and social benefits. Moreover, the application of bio-slurry will bring the following changes to improve physical structures of the soil, increased soil fertility, water-holding capacity, and enhanced activity of the micro-organisms.
- iii. Distributed experiment inputs to 75 model farmers to implement the model farmer's friendly bio-digester model demonstration. 9 key farmers were selected for conducting integrated farming system demonstration in target of provinces of Kampong Cham, Tboung Khmum Takeo, and Kampot provinces. Model and key farmers will play an important role to be as farmer training center or infusion center for transferring of technologies.
- iv. Published 256 promotion materials (training flip chart) used for bio-digester and compost hut promotion to potential farmers, such as for meeting, training, and workshop published and ready for distribution to PPIUs.
- v. Published 20 promotion and information signboards, they are ready distributed to the PPIUs and are ready to be installed in the public places for awareness-raising on the information of benefit using bio-digester and compost hut.
- vi. Published 4,000 posters for promotion and marketing of bio-digester and compost hut, the promotion materials were distributed to PPIUs for promotional activities to potential and interesting farmers to apply for bio-digester construction.
- vii. Distributed experiment inputs to 28 selected key farmers for demonstrate model farm implementations and 2 selected key farmers for conducting integrated farming systems demonstrations.

³ \$100 to be provided by the GCF and another \$100 to be provided by the RGC.

- viii. Distributed 256 promotion materials (training flip chart) of bio-digester and compost hut to PPIUs for the purpose to conduct awareness raising at community level on the benefits of bio-digester and compost hut.

Table 8. Summary achievements of bio-digester and compost hut program by end of 31st March 2021

N	Activity	Result of Q1	Remarks
1	Research and Development for Bio-digester and Compost Hut	3	Follow up the function of Bio-digester and Compost Hut.
2	Follow up the use of Bio-digester and Compost Hut	3	Follow up the use and management of Bio-digester and Compost Hut.
3	Model farmer experiment	75	Supported and distribute experiments materials of 28 families to implement the model farmer experiments in Kampong Cham and Kampot.
4	Integrated farming demonstrations	10	Supported and distribute experiments materials to 2 families to implement the integrated farming demonstrations in Kampong Cham.
5	Promotion material (Training Flip-chart)	256	Use for bio-digester and compost hut promotion to potential farmers such as meeting, training, workshop.
6	GDAHP promotion signboard	20	Standing signboard with using pillars to install the public places.
7	Poster (promotion and marketing of bio-digester and compost hut)	4000	Use for bio-digester and compost hut promotion to potential farmers.
8	Meeting with PPIUs staff	0	

PROGRESS OUTPUT 2: CLIMATE SMART AGRICULTURE AND AGRIBUSINESS PROMOTED

48. Under this output, the contract of CS2 covered with three key activities including (2.a: deployment of climate-resilient varieties; 2.b: capacity strengthening for climate-smart agriculture and technologies improved; 2.c: promotion of farm mechanization). Under this output, at least 40,000 farmers (16,000 women), received CSA training focusing on the rice, cassava, maize and mango value chains, and 50% of anticipated farmers will be received SRP compliant training. Farmers, FWUCs, agricultural cooperative boards and their members, and government officials from the Provincial Departments of Agriculture, Forestry and Fisheries (PDAFFs) will receive both formal training and on-farm demonstrations on the following,

Activity 2.a: Deployment of climate-resilient varieties.

Output 2.a.1: 3 additional climate resilient varieties of rice and maize released.

49. During the reporting period there is no activity started yet, CARDI is still waiting for signing contract with IRRI. However, CARDI reported that, the two climate resilient rice varieties (CAR16, Phkar Mealdei) and one Maize variety (CM1) so far released, and is on-field

demonstration not across target province of the project, but in most provinces, where high potential of rice cultivation such as around Tonle Sap Great Lake, and Mekong region.

Output 2.a.2.1: Land levelling of 4,000 hectares and demonstration

50. AWPB 2021, a total 500 hectares planned to conduct laser land levelling for demonstration on the efficiency use of water and nutrition managements for rice production under FWUCs, where irrigation rehabilitation schemes supported by the project across target provinces. During the reporting period, main activities achieved as summarized in table 9 and 10.

Table 9. Summary of paddy field selection for laser land leveling by 31st March 2021

N	Activity	Result of QPR 1	Remarks
1	Identify and select of 500 ha of paddy field for conducting Laser land leveling demonstration	555	<ul style="list-style-type: none"> ✓ Takeo 120 ha (2 scheme in project/1 AC, Trapaing Krahnuong). ✓ Kam Pot 100 ha (2 scheme in project, Trapaing Run and Mleak, that part of AC, Reaksmeisamaki Amatak, too). ✓ Tboung Khmum 225 ha (a scheme in project called Trapaing Tros (about 60ha) and other 3ACs, 50ha in Romdouldontei, 65ha in Samaki Kak and 50ha in Ponhea Krek Rungroeng). ✓ Kampong Cham 110 ha (Pram Kumpheak, in Kbal Hong Chas village, Lvea Leu commune, Chamkar Leu district)
2	Feedback and then data entry laser land leveling in Ha	152	<ul style="list-style-type: none"> ✓ Ta Keo province, such as, Kraing Ampil dam, Prey Kduoch Dam that both in Trapaing Krahnuong commune Tram Kak district, and Po Tasuy dam in Kirivong district.
3	Feedback and then data entry laser land leveling (out of irrigation) in Ha	232	<ul style="list-style-type: none"> ✓ Ta Keo province 14 ha (Sdok Sdam, Prey Kabas district) ✓ Tboung Khmum 218 ha (4 ACs, Kdey Sangkhoem Kaksekor, Dam Bae Rungroeng, Samaki Kak and Romduol Dountei)

Table 10. Summary data validation on land availability for laser land leveling by end of March 2021

No	Name of irrigation scheme	Remarks
1	O'kamprok scheme	Collected data (irrigated areas) benefits from the schemes and select suitable farmer's cultivation areas close to reservoir and secondary canals. The paddy field are approximately 200m from both sides of secondary canals. Depending on the size, the paddy will be selected to conducting on-field demonstration on laser land leveling.
2	Pram Kampheak scheme	
3	Pou Tatress scheme	
4	Ko Aet scheme	

Output 2. a.2.2. Conducting on-field seed demonstration

51. AWPB 2021, a total 90 on-field demonstration plots on climate resilient rice variety and 10 cassava seed demonstrations plots. During the reporting period, the main activities achieved are shown in tables 10 and 11 and are described as the following,

- i. Meet and discuss with Industrial Crop Department/GDA to arrange cassava seed demonstration at Chamkar Leu research and development, discussed with PPIUs teams in Kampong Cham, and Tboung Khmum provinces to select key farmers for conducting on-field demonstration on rice seed and cassava seed.
- ii. Prepare concept note and input requirement supporting on-field demonstration of cassava seed.

Table 11. Summary data of rice demonstration identification by 31st March 2021

N. o	Province	# of Demo			Remarks
		WS	DS	Total	
1	Takeo			24	The activities in progress and on tracking.
2	Kampot			24	The activities in progress and on tracking.
3	Kampong Cham			22	The activities in progress and on tracking.
4	Tboung Khmum			20	The activities in progress and on tracking.
	Total			90	

Table 12. Summary of Cassava demonstration by 31st March 2021

No	Province/Station	# of Demo	Remarks
1	Chamkar Leu Station	3	The activities in progress and on tracking: (1) plot preparation, (2) seed or planting materials preparation.
2	Kampong Cham	2	The activities in progress and on tracking: (1) plot preparation, (2) seed or planting materials preparation.
3	Tboung Khmum	5	The activities in progress and on tracking: (1) plot preparation, (2) seed or planting materials preparation.
	Total	10	

Activity 2.b: Strengthening capacity in climate friendly production practices and technologies

52. The activities to strengthen capacity of farmers, cooperatives, and agribusinesses on CSA and climate friendly practices. Under this activity, farmer-oriented training program on CSA, reaching at least 40,000 farmers (16,000 women), focusing on the rice, cassava, maize and mango value chains, and 50% of indicated farmers will receive technical training on SRP compliant. Youth, landless, farmers (men & women), FWUCs board and their members, AC's boards and their members, and government officials from the Provincial Departments of Agriculture, Forestry and Fisheries (PDAFFs) will receive both formal training and on-farm demonstrations activities as the following,

Output 2. b.1. Training of 40,000 Farmers in Climate-Smart Agriculture (CSA)

53. AWPB 2021, 10,000 farmers will receive training and CSA adaptation and 50% of them will receive training on SRP compliance techniques. During the reporting, the main activities achieved are as the following,
- i. Meet with GDA teams to discuss on the preparation of TOT training on SRP, CSA Business Development, Farm Mechanization and Conservation Agriculture.
 - ii. Prepared concept notes for TOT Training for SRP, CSA for national and provincial teams. Total 32 technical staff from Rice Crop Department invite to participate in the SRP training. Note that, TOT training on CSA will organize and conducted by GDA. The TOT training on SRP will be done by online contracted with IRRI Head Quarter from the Philippine. After the training, successful trainers will be awarded SRP

Authorized certification, which will allow them to provide continual TOT training on SRP to provincial teams on the same topic.

- iii. Prepared annual workplan and budget for 355 training for farmers on CSA and SRP.

Output 2. b.2. Training of 5000 farmers in CamGAP for Mango

- 54. Meet with IA-GDA Director and Plant Protection and Phytosanitary team to discuss on,
 - i. The preparation of concept notes for TOT training on Agriculture Practice (CamGAP) compliance national CamGAP standards. Total 16 staff (3 staff from each PPIUs, and 4 staff from GDA) will participate in the training. After the training, successful trainers will be awarded certificate on national CamGAP standard, that allows them to organize and conduct continual training on CamGAP standards to mango farmers.
 - ii. Prepared annual workplan and budget for 41 trainings for farmers on CamGAP related tropical fruit, especially Mango.

Output 2.b.3. Training of 5,000 farmers in farm mechanization and conservation

- 55. Meeting with Department of Agriculture Engineer and Machinery team and discuss on;
 - i. Preparing concept note for TOT training for national and provincial teams. 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.
 - ii. Prepare annual workplan and budget for training for farmers on farm mechanization and agriculture conservation. Total of 50 training events will be delivered to farmer groups and AC's members.

Output 2.b.4. Training 40,000 Farmers in Agribusiness

- 56. Meet with Department of Agriculture Cooperative Development and Promotion (DACDP)/GDA team to discuss on,
 - i. Preparing concept note for TOT training for national and provincial teams. Total 16 staff (3 from each PPIUs and 4 staff from DACDP). The successful trainers will continually organize and conduct training on the same topics to farmer groups, AC's board and their members' business development.
 - ii. 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.

Output 2.c1. Making 27 FWUC Operational

- 57. Total 18 FWUCs need to established (10 carried forward from 2020, and 8 FWUCs planned in 2021). The activities of FWUCs formulation and capacity building for FWUCs in 2021 still waiting for the approval budget in 2021. However, the formulation activities of 10 FWUCs in 2020 is in progressing. During the reporting, the main activities underpin to achieve output 2 as the following.
 - i. FWUC formulation, in average 80% of planned FWUCs been formulated.
 - ii. FWUC data collection, (6 FWUCs out of 10 FWUCs) has been 100% data collected.

Output 2.c2. 500 FWUC representative developed capacity to operate and maintain their irrigation systems

58. During the AWPB 2021, the project anticipates that 200 FWUC's representatives and number of their members developed capacity in operation and maintenance their irrigation systems. During the reporting period, the main activities of preparation training achieved 4 modules, and consisted of 27 events, indicated in table 13 below.

Table 13. Summary of FWCU's training module preparation by end of March 2021

No.	Activity Descriptions	No. Event	Participants		Remarks
			Total	%F	
1	<u>Management and Leadership training (Module 1)</u> , consisted of 9 topics such as (administrative task, bookkeeping, Irrigation service fee calculation, Leadership, Communication skills, Planning skills, Conflict resolution, Report writing, and minute taking skills).	9	3,091	30	19 FWUCs, consisted of 3,091 representatives their members trained, from this number, 2,766 trained in 2020, and 325 people trained in 2021, from this and 30% women.
2	<u>System Operation training (Module 2)</u> , consisted of 6 topics such (Role and responsibility of FWUCs, Important Operation Objectives, Overview of Irrigation system, Scheme operational implementation, Cropping calendar, Construction testing and adjustment).	6	2,130	30	Total of 2,130 FWUC's representatives trained and 30% of them are women.
3	<u>Maintenance training (Module 3)</u> , consisted of 7 topics such (registered preparation, maintenance plan and preparation, Seasonal maintenance inspection, Prepare maintenance budget, Cost recovery procedure)	7	2,394	30	Total of 2,394 people trained, 30% are women. This figure, 3,091 people trained in 2020, and 325 people trained in 2021.
4	<u>On-the job training (Module 4)</u> , consisted of 5 topics such (Bookkeeping, Minute taking, Report writing, Gate and structure operation, Structure maintenance...etc.	5	190	30	Total of 190 members and representatives attend on-the-job training, and 30 % of participants are women.
5	Other relevant trainings				
	Total	27	7,715	2,315	

PROGRESS OUTPUT 3: Enabling environment for climate smart agri-business enhanced

59. 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) formulating climate friendly agribusiness policies and standards; (ii) promoting green finance and risk sharing mechanisms; and (iii) supporting climate risk management through information and communication technologies (ICT).

Output 3.a.1 Formulation of Policy on Climate Smart and Gender-Responsive Agribusiness and PPP framework

60. As the AWPB 2021 not yet approved officially, it can only preparatory activities be implemented. During the reporting period, the main activities supporting agribusiness policy development achieved as the following,

3.a.1.1. Agribusiness Policy-

- Meeting with Department of Planning and Statistic to discuss and finalize on TOR for policy study.
- Review existing relevant documents.

3.a.1.2. Climate Smart Agriculture Policy-

- The activity does not start yet.

3.a.1.3. Agro-Industry Policy-

- Meeting with Director of Department of Agro-Industry to discuss on TOR establishment for CSA policy study.
- Review existing relevant documents.

3.a.1.4. Contract Farming inclusive Agribusiness Policy

- Meeting with Director of Department of Agro-Industry to discuss on TOR establishment for CSA policy study.
- Review existing relevant documents.

3.a.1.5. Proclamation/Prakas Supporting AC's Law

- The activity does not start yet.

3.a.1.6. PPP-Initiative Agribusiness Policy-

61. During the reporting period, the activities support to PPP initiative agribusiness policy as the following,

- i. Meeting with Department of Planning and Statistic in develop and finalized TOR for PPP study, including TOR for other 4 potential crops commodities (rice, cassava, maize, and mango).
- ii. Draft framework for PPP initiative agribusiness aligned with framework of MAFF.
- iii. Meeting with all selected ACs in target province for establishing producer group's linkage with private sector.
- iv. Draft PPP initiative agribusiness strategic plan link with agribusiness value chain.

Output 3.a.2 Standards Formation

- No activities undertaken.

Output 3.b: Endorsing good Agricultural Practices for Tropical Fruits

- No activities undertaken awaiting mobilization of expert (not due yet).

Output 3.c: Endorsing good Agricultural Practices for Organic Fertilizers

- No activities undertaken due to CS2 expert not mobilized yet (not due yet).

Output 3.d 50 Staffs from Financial Institutes trained in CSA and Green Finance

- No activities undertaken due to CS2 expert not mobilized yet.

Output 3.e: 30 Agribusinesses trained in Green Finance and CSA

- No activities undertaken due to CS2 expert not mobilized yet.

Output 3.f: 20,000 Households Trained in Climate Risk Sharing

- No activities undertaken due to CS2 expert not mobilized yet.

Output 3.g: Supporting Climate Risk Management through Information and ICT

- The CS4 tender developed and uploaded on the ADB CMS system.

PROCUREMENT AND CONTRACT MANAGEMENT

62. The CFAVC procurement plan was updated following the AWPB 2021 and was submitted to ADB to obtain their NOL.

Goods.

63. The 20 signboards for extension of Bio-digester and Compost huts were installed in the four target provinces, Thbong Khmum, Kampong Cham, Kampot, and Takeo.
64. Preparation of the technical specifications to procure two (2) Pick-up trucks for PMU-MAFF. Preparation of technical specifications to procure sixteen (16) motor cycles for MAFF.

Civil works

65. Prepared the Bid Evaluation Report (BER) and the Minutes of Procurement Review Committee (PRC) for new construction of Mechanization Engineering Workshops within the 3 target provinces, Thbong Khmum, Kampong Cham, and Kampot. The BER and the PRC's Minutes were submitted to the ADB for getting no-objection on 18 March 2021.
66. Prepared the BER and PRC minutes for new construction of the Agricultural Cooperative Storage/ warehouse 20 units in the four target provinces, Thbong Khmum, Kampong Cham, Kampot, and Takeo. The BER and PRC minutes was under reviewing by the international procurement specialist and it was submitted to MEF for review and sign.
67. Prepared the BER for new construction of Provincial Agricultural Development Center (PADC) in three target provinces, Thbong Khmum, Kampong Cham, and Takeo. The BER is under the process of reviewing by international procurement specialist. The PRC minutes is under the process of preparing and it will be submitted to MEF for reviewing soon.
68. The bidding document for installation and commissioning of 500 Bio-digester and 250 Compost huts are under process of discussion on cost sharing arrangement between the GCF, the RGC and the Beneficiaries. The PMU and IA's GDAHP were discussing on the different subsidy budget (percentage sharing and footnote) in the table 7 of the PAM. Finally, the footnote of the table in PAM was agreed that fix amount subsidies will be provided by GCF, US\$150 and RGC, US\$150 for one bio-digester, irrespective of the bio-digester size. And fixed amount of subsidy for one unit of compost to be provided by the GCF, US\$100 and by the RGC, US\$100. The remaining amount for the construction works of the bio-digester and compost huts will be paid by the beneficiaries. The bidding document for the bio-digester and compost hut was revised accordingly and was submitted to ABD for getting no-objection.

The Consulting Services

69. The EOI for recruitment of the Consulting Service Package (CS4): Information and Communication Technology (ICT) Platform for Climate Risk Management in Agribusiness Value Chains in Kampong Cham Province was posted through ADB's website/ CMS/ CSRN. Twelve consulting firms were submitted EOIs and the EOIs are under the process of evaluating for selection.
70. The proposed two candidates for mobilization of NK-5: National Green Financing Specialist, and NK-12: National Tissue Culture Development Specialist under CS2 Package, the PRC meeting and minute was held and prepared for their selection on 19 February 2021. The PRC minutes of meeting was then submitted to MEF for reviewing and approval.
71. The proposed one candidate for mobilization, NK4-National Photo-Voltaic Specialist under CS2 Package has been held the PRC meeting on 3 March 2021 to review and evaluate. The

PRC minutes of this meeting was then prepared and submitted to MEF for review and approval.

72. Regarding the matter of the insufficient DED capacities during this reporting period several meetings were conducted with the ADB, MEF, PMU, MOWRAM, MRD and CS5 and CS1 teams. One proposal is to amend the existing contract of CS5 into 3 separate contractual units for MAFF, MOWRAM and MRD, with each separate contractual management responses.
73. In this scenario it was in principle agreed to extend and hire new key and non-key experts as follows:
- i. No Extension for International Expert (04 Experts): Irrigation and TL (01), Hydrologist (01), Social Safeguard Expert (01) and Environment Safeguard Expert (01)
 - ii. Extension for International and National Key and Non-Key Experts (17 Experts)
 - International Key Expert (01): Agricultural Economic (01)
 - National Key Experts (06): Road Design Engineer/ DTL (01), Road Design Engineer (01), Agricultural Economist (01), Environmental Safeguard Expert (02), Social Safeguard and Resettlement Expert (01),
 - National Non-Key Experts (10): Agricultural Expert (01), and AutoCAD Experts (06), Assistant Road Design Engineer (01), Assistant Irrigation Engineer (01). and Social Development and Gender Expert (01)
 - iii. Hiring replacement and New National Key and Non-Key Experts (10 Experts)
 - National Key Experts (03): Irrigation Design Engineer/ DTL (01), Socio-Economist (01), and Social Safeguard and Resettlement Expert (01)
 - National Non-Key Expert (07): Hydrologist (02), Assistants Road Design Engineer (01), Irrigation Structure Design Engineer (01), AutoCAD/GIS Expert (01), Social Development and Gender Expert (01), and Procurement Expert (01)
74. The Implementing Agencies of MOWRAM and MRD shall take the responsibility and accountability for the management and completion of remaining irrigation and road subprojects and their outputs by year 2022.

Table 14. Update CFAVC MAFF Procurement Preparation Status per 31st March 2021

DMF	Civil Works	Drafter	Current Status
1.d	Construction of 20 ACs storages	CS1	Final Bid Evaluation Report (BER) was submitted to PMU MAFF 11 th February. Still waiting for BER.
1.e	Laboratory upgrade	CS1 and CS2	The activity start undertaking, expert just mobilized.
1.f.1	Bio digester program	CS1 and CS2	The bidding document is under the process of revising following the ADB comments.
1.f.2	Compost hut program	CS1 and CS2	The bidding document is under the process of revising following the ADB comments.
2.c	Construction of 3 new buildings Training, Provincial Agriculture Development Centers (PADC).	CS1	Final Bid Evaluation Report (BER) was submitted to PMU MAFF 16 th February for reviewing and approval.

2.d	Construction of new 4 Mechanization Engineering Workshops (MEW) buildings.	CS1	Bid Evaluation Report (BER) first submission to PMU MAFF, was on 28 th Jan 2021. After reviewing and comments from MEF the second submission was on 2 nd February 2021.
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SAFEGUARDS

Social Development and Gender

75. During the reporting period, some of the interventions were delayed or put on hold due to the Covid-19 situation in Cambodia, while others continued as originally planned. Annex 6 shows the progress with the implementation of the Gender Action Plan during this reporting period.
76. The third semi-annual GAP monitoring report, covering the period September 2020 – March 2021 was submitted early April 2021. In this report it is reported that:
77. Consultation with the ADB Gender Consultant at the CARM office, to simplify and verify processes going forward, including the re-introduction of the GAP into the project, covering 20 targets and 11 action points.
78. Translation of the GAP from English to Khmer and sharing with the field, as mentioned in the annual report for 2020 (see point II).
79. A mapping of all activities and how they more specifically relate to targets, aiming at streamlining future data collection, clarifying confusion and creating an overview for where to potentially strengthen data collection also for the newly established M/E section at national level.
80. A thorough revision of some of the data collection forms used by GFPs and project staff in provinces, including bi-lingual designs (English and Khmer) in order to avoid errors (previously different forms were used in each language and data then ‘extracted’ and merged into a reporting format/template).
81. A thorough revision of the Khmer version of the Stakeholder Communication Strategy and a re-translation, shared with GFPs at provincial level. Specific emphasis placed on point 2 and 5 in the Communication strategy, as these points pertain to Gender related issues.
82. Began the review of relevant documents related to the MAFF ‘Gender Mainstreaming policy and Strategic Framework in Agriculture 2016-2020’ so that is aligned to the GAP indicators in the CFAVC project. This request came from Her Excellency of MAFF, Hor Malin and is work in progress. The indicator alignment with the GAP will further be discussed with the new M/E section in CFAVC.
83. The design of a training package used to re-train the GFPs at provincial level in the new GAP, the various templates use to inform the GAP, ensuring GFPs full understanding of the reporting demands from the donor for 2021 onwards.
84. Training on the Stakeholder Communications Strategy (Annex 15, PAM) which will be followed up with a cross-checking template) to be shared with the field in April 2021, to which GFPs can report on progress on the Communications strategy. Trainings took place with all 24 GFPs from all four provinces on 31st March and 1st April 2021, due to Covid-19 restrictions via online, where the NGS and IGS hosted 2 full day trainings with a total of 18 participants (included Directors of the 4 provincial departments of Agriculture), please also see below.
85. And, as mentioned above, started up consultations with the new M/E team specifically related to potential surveys (household survey) and studies pertaining to Gender sensitive issues which will boost knowledge on progress in the CFAVC CS1 project.

86. Continuous 1 on 1 consultations with GFPs took place throughout the period, in which the NGS on a daily basis is available to answer questions, provide support and assistance to GFPs. The collaboration between the GFPs at provincial level and the consultants at national level/MAFF GMAG has improved which in turn over time will produce better and more timely data.
87. Joint missions with CS2 and CS 5 for sensitization on Gender related aspects.
88. Meeting with Her Excellency Mrs. Hor Malin, MAFF, on 10th Feb 2021, to discuss aligning of MAFF gender strategies with the GAP.
89. Meeting with His Excellency Mr. Chan Daron, MRD, for updating on CFAVC progress, on Feb 24th, 2021.
90. GFPs at provincial level are becoming better in understanding the various concepts of Gender Mainstreaming, including its analysis, policies mechanisms and M/E procedures. But it is also important to mention that it is work that will continue to demand constant support from the IGS/NGS.
91. The ISDGS/NSDGS are keen to establish more 'Peer-to-Peer' networks amongst the GFPs at provincial level, including utilizing GFPs that are showing progressive knowledge compared to less capacitated colleagues, this is a valid tool to also create *ownership* over the project amongst field based GFPs. The consultants will continue to follow up on this issue.
92. It is recommended that the newly established M/E section within the PMU calculate into its processes the slow speed at which changes take place at provincial level. This is a key experience the Gender consultants have recorded, again, due to lack of resources and know-how at provincial level.
93. COVID-19 is affecting project components and their implementations increasingly hard, if bad at national level, then likely worse at provincial level. Again, the Gender consultants are noticing substantial increases in response times on Gender related tasks.
94. The GAP template is by now in the field and will by the month of April 2021 be the first time the GFPs at provincial level will work with the tool. The Gender consultants will continue to monitor and support how it may be used, and assist on distance (online) with the continuous implementation. It is likely that this tool will not be adequately implemented for at least 2-3 months, until such time that GFPs are confident enough to use the tools distributed.
95. As with the GAP template, the distributed template for the Stakeholders Communication Strategy is likely to also take some time to be adequately used at provincial level, and will require additional support from the Gender consultants, however, all GFPs have reverted to the IGS/NGS after the training on the GAP, commenting that they have a larger understanding of how the GAP works, and the way ADB thinks about Gender.
96. GFPs request the PMU to prepare a format for requesting of trainings and budgets in the provinces, on Gender related issues.

From the GAP template, the following was observed:

97. It was discovered that in regards to un-skilled female labors in Trapeung Run, the Contractor did not live up to the numbers of unskilled female workers as well as the hiring of female skilled workers. GFPs in the provinces have been instructed to ensure this target is met, please also see target number 3, GAP,
98. The targets for Bio-digesters and compost huts are still below the set threshold, however, the Gender team is of the opinion that these numbers will pick up as the project moves forward, given that it is still in the beginning of the project cycle,

99. Cassava and rice seed demonstration did not see any female participation, however GFPs were instructed during the March/April training to follow up on this point and ensure data start to be collected,
100. GFPs from all provinces are complaining about increased workloads, lack of skills and time constraints. Many also state that locations to visit are too far away from Provincial centers, and lack adequate transportation, the IGS/NGS are reiterating it here as to bring awareness to the issue, as it will affect work and output timings during increased project cycle.

SOCIAL DUE DILIGENCE

101. Revised the Due Diligence Verification Report (DDVR) of Trapeang Run irrigation subproject Package 1, the report was submitted by MOWRAM-PMU to ADB for uploading into the website in late March 2021.
102. Reviewing and revising the DDR of TBK Irrigation subprojects (Toul Pring and Kbal Teuk) Package 3 and already resubmitted to ADB.
103. Conducted screening assessment for 5 irrigation subprojects in Takeo province (2 subprojects in 2020 of package 4 and 3 subprojects in year 2021 of package 5). Conducted impacts assessment with the GDR to classify the 5 irrigation subprojects, as well as other four subprojects in Kampot province, which currently are under the impact assessment with participation from GDR representatives to identify the category classification before decision on report to be made.
104. Clarification to Third Party's queries for Kbal Teuk irrigation scheme during field work to the site, as results the Third Party did accept the clarifications.
 - i. Reviewing and revision of the DDR for TBK road subprojects, which was submitted by CS5 (FSDD), it was submitted by CS1/PIC TL to ADB for first review.
 - ii. Coordinated with MAFF PMU on GRM focal point establishment cover the four provinces.
105. Updating of the MAFF DDR expected to be submitted to ADB for review in next quarter.
 - i. This Updated 2nd Semi-Annual monitoring report on social safeguards Jan-Mar 2021 is shown in Annex 2.
106. Activity 11: Plan and Develop the Social Safeguards Monitoring and Evaluation System. During this reporting period CS1's social safeguards specialist has continued and worked hard as shown in Table 2.1 to table 2.7 of Annex 2.

ENVIRONMENTAL DUE DILIGENCE

107. The activities related with MOWRAM for irrigation subprojects including,
 - i. Conducting the site visit to Tboung Khmum province for meeting with Preah Theat, Thmar Pich and Chhy Kor Commune councils, villagers and PIU staff to screen the environmental impacts resulting from irrigation subprojects proposal and conducted the public consultation meeting at Kbal Teuk, Toul Pring and Trapeang Tros package 2 subprojects (P2).
 - ii. Reviewing and collecting relevant data and drafting the socio-economic report for drafting the IEE and EMP for package 2 irrigation subprojects Package 2 consisting of three subprojects: Kbal Teuk, Toul Pring, and Trapeang Tros, they are located in Tboung Khmum province.
 - iii. Drafting the Initial Environmental Examination (IEE) for package 2 irrigation subproject (P2) in Tboung Khmum province. The draft report was submitted to ADB

- for reviewing and commenting, first comment from the ADB was revising and resubmitted for rechecking, and the report then got approval from ADB.
- iv. Drafting the Initial Environmental Examination (IEE) for package 3 irrigation subprojects (P3) in Takeo province. The report was submitted to ADB for reviewing and commenting, and first comments from the ADB were revising.
 - v. Working on output contribution for drafting the feasibility study for package 2 irrigation subprojects in Tboung Khmum province.
 - vi. Review and commenting the CEMP for Trapeang Run (P2) sent by contractor and sent back after reviewing and commenting for revising.
 - vii. Conducted the site visited to Trapeang Run irrigation subproject to organize meeting for the mobilization of the contractor equipment and provide awareness on the environmental and safety mitigation measures in order to implement the EMP properly.
 - viii. Join conducting public consultation meeting with CS5 team and local villagers, commune councils for package 3 Irrigation subprojects at two communes in Takeo province.
108. The activities related with the MAFF for subprojects including,
- i. Review the existing data and information for revising the IEE/EMP for AC subprojects in MAFF based on the first comments of ADB and resubmitted to ADB for rechecking and approval.
 - ii. Participation in monthly meeting with CS1 team members to review the progress work and solving the challenges issues.
 - iii. Participation in CS1 meeting on progress of IEE report, response to the comments of ADB, and the internal standard operational procedure (SOP) for CS1.
109. The activities related MRD for rural road subprojects including,
- i. Conducted site visited to Tboung Khmum province for screening and assessment for package 2 rural road subprojects (P4).
 - ii. Working on reviewing and collecting data and information related to the IEE/EMP for package 2 rural road subprojects (P4) in Tboung Khmum province for drafting IEE/EMP report, submitted for the first comment of ADB, revised and resubmitted for rechecking and then got an approval from ADB.
 - iii. Join conducting public consultation meeting with CS5 team and local villagers, commune councils for package 2 rural road subproject at two communes in Tboung Khmum province.
 - iv. Reviewing and collecting data and information related to the IEE/EMP for package 3 rural road subprojects (P3) in Kampong Cham province for drafting IEE/EMP report, submitted to ADB, revised for the first comment and then revising.
 - v. Reviewing and collecting data and information related to the IEE/EMP for package 4 rural road subprojects (P1) in Kampot province for the first drafting IEE/EMP report.
110. Over work progresses for the environmental safeguards are presented from table annex 3.1 to table annex 3.2 of Annex 3.

PPMS

111. In this reporting period the CS1 team submitted the second semi-annual PPMS report covering the period July-December 2020.
112. During this reporting period the CS1 team was allowed to mobilize the 2 experts of the proposed CFAVC M&E team, being the National M&E Expert and the International M&E Expert. The proposed Junior Database Operator is planned to be mobilized in April 2021.

113. The main task of this new M&E team will be structured the progress with the implementation of the DMF and to prepare the bi-annual PPMS monitoring reports.
114. The Online events' calendar is produced by the project's M&E expert to be stored on the Google Drive for all CSs' staff access online.
115. As a start- activity, the M&E team will implement a baseline survey for 7 of the 53 project targets which were not covered in the original PPTA survey. It is planned that this survey will be implemented in the second quarter of 2021.

GRD and Website

116. Project Web-site Project website has been developed and it is started hosting from March 2021. It will be hosted and maintained by the project until the end of project life and the website could be accessed via address: www.cfavc-cam.org. Website development was done through quotations from three service providers and the lowest service provider quotation of OIT Solution (Operation Information Technology solution) was accepted and approved for USD 2,500.00 (US Dollar two thousand and five hundred only), exclusive VAT.

FINANCE

117. Disbursement on 31 March 2021 stood at a combined 3.0 % as shown in Table 15. In this reporting period the disbursed amounted to US\$ 929,118.

Table 15. Disbursement Update Status by 31 March 2021

SOURCE	TOTAL	ADVANCE	DISBURSED	TOTAL		Increase this period
	(US\$)	(US\$)	US \$	US\$	%	
ADB loan	90,000,000	908,000	3,638,621.94	4,546,621.94	5.05%	0.07%
CGF loan	10,000,000.00	0	0	0	0%	0%
CGF grant	30,000,000	340,000	658,867.49	998,867.49	3.33%	1.02%
RGC	7,380,000	24,1370	178,557.58	419,927.58	5.69%	0.04%
TOTAL	137,380,000	1,489,370	4,476,047.01	5,965,417.01	4.34%	0.27%

118. In this reporting period the Cambodia office of KPNG inspected the CFAVC project for the audit of the 2020 program implementation. The report is expected to be issued during the next reporting period.

STAFF MOBILIZATIONS

119. The COVID-19 epidemic is impacting on the implementation of the tasks of the 3 mobilized CS, i.e. CS1, CS2 and CS5. And the impact from the epidemic is international travel restriction of the project International Experts. However, in order to get technical supports from them, the PMU allows for home base working arrangement for the International Experts to assist the National Experts working through online arrangement.
120. During first quarterly report 2021, on Mar 15 2021, under CS1 two M&E Specialists, the national and International are mobilized. And under CS2, two national experts were recruited and mobilized on 9th Marc 2021, they are (1) Mr. Vong Sophorn, National Consultant on National Laboratory Coordinator and (2) Mr. Mak Chanratana, National Consultant for Bio-fertilizer/Organic fertilizer and Pesticide production and quality testing.

Constraints for Implementation

During the reporting, some implementation constraints have been occurred including,

121. Table 16 shows the main issued for implementation for the 3 TA packages

Table 16. Implementation Constraints

Constraints	CS 1	CS2	CS5	Impacts	Possible Solutions
AWPB 2021 in principle is approved, but still not officially yet approved by MEF and ADB.	x	x	x	<ul style="list-style-type: none"> ✓ Delay in orientation to IA and PPIUs for properly implementation due to COVID condition. ✓ Difficulties in organizing technical meeting by online with IAs and PPIUs. 	<ul style="list-style-type: none"> ✓ AWPB 2021, in principle approved. ✓ Possible, an orientation meeting on AWPB implement with IAs and PPIUs should organize and be conducted.
COVID-19 restricted for all activities.	x	x	x	<ul style="list-style-type: none"> ✓ Restricted to all field works, including village meeting, farmer trainings, workshops, and delay all technical working group meeting, the consultation on policies studies, policies review, and formation, all communities and identifying eligible farmers for bio-digester program in 2021. ✓ Because of COVID-19 condition, activities will move forward and will behind implementation schedule. 	<ul style="list-style-type: none"> ✓ Waiting until getting the permission from the government allowing to have mass meeting or training at all levels, ✓ technical working group meeting on policy study and formation will soon organize after getting permission to have mass gathering ✓ Farmer training on CSA, SRP, FWUCs, Business development and farm mechanization will organize soon after getting permission to have mass gathering.
Biogas and compost hut program Tender document preparation and procurement process activity of biogas plant and compost hut still slow in approval by PMU and ADB.		x		<ul style="list-style-type: none"> ✓ Delay in construction of biogas plant and compost hut for 2020, due to delay in procurement process ✓ Delay in organizing small group or village meeting/training to identifying eligible farmers who interesting in 	<ul style="list-style-type: none"> ✓ Should speed up the process of reviewing and endorsement of procurement document ✓ The village meeting and/or small group training will organize soon after getting permission

				purchasing biogas and compost hut for 2021	
PADC & MEW procurement and constructor identification. Delay in reviewing and endorsement of BER		x		✓ Delay construction for all PADCs and MEWs	✓ Should speed up the process of review and endorsement of BER
Storage/warehouse procurement and constructor identification. Delay in review and endorsement of BER		x		✓ Delay construction for all storages and solar top roof installation	✓ Should speed up the process of review and endorsement of BER
Experts' recruitment, still being slow.	x	x		✓ Most activities not started yet, due to late specialist recruitment, and waiting for the arrival of the specialists	✓ Lead firm & local firms and PMU should speed the recruitment process and mobilization

CONCLUSIONS AND RECOMMENDATIONS

122. Based on the result of the achievement during the first quarter from 1st January through 31st March 2021, the conclusion and recommendations are as follows:

- i. The project facilitation and distribution of the tasks to implement the activities with PMU, PPIUs teams are in good coordination;
- ii. An increase the DED capacity at CS5/MRD/MOWRAM is urgently required to make sure the project can be implemented within the present CFAVC project timeline.
- iii. An increase in social safeguards capacity of CS5/CS1/GDR to produce LARP/DDR/third party verification is urgently required to make sure the project can be implemented within the present CFAVC project timeline.
- iv. CS2 to urgently mobilise all so far not mobilised experts to make Outputs 2 and 3 can be implemented within the present CFAVC project plan.
- v. The RCG to make a formal decision which department will implement the ponds/drip to allow the AWP 2021 to be approved.
- vi. PMU and ADB to speed up recruitment CS3 and CS4. to make sure the concerned DMF activities can be implemented within the present project time-line

ANNEXES

Annex 1. CFAVC OVERALL PROJECT IMPLEMENTATION PROGRESS

Table 17. CFAVC OVERALL PROJECT IMPLEMENTATION PROGRESS, MEF FORMAT

ACTIVITY/Implementing Agency		Assigned Weight	Progress 31/12/20	Accumulated Physical Progress		
				15/01/21	15/02/21	15/03/21
1	Establish project PMU & PRC	0.50%	0.500%	0.50%	0.50%	0.50%
2	Recruitment of Consultants	0.50%	0.425%	0.43%	0.45%	0.45%
3	PMU Operation	4.00%	1.000%	1.12%	1.22%	1.30%
4	Social Safeguards and Resettlement	2.00%	0.032%	0.04%	0.04%	0.05%
5	Environmental Management	2.00%	0.024%	0.03%	0.03%	0.04%
6	Gender	1.00%	0.030%	0.03%	0.03%	0.04%
7	Implementation of Output 1 - MAFF	27.00%	3.196%	3.94%	4.55%	5.67%
8	Implementation of Output 1 - MOWRAM	13.50%	1.508%	2.31%	2.54%	3.63%
9	Implementation of Output 1 - MRD	13.50%	2.107%	2.43%	2.58%	3.10%
10	Implementation of Output - Unassigned	4.50%	0.207%	0.21%	0.21%	-0.21%
11	Implementation of Output 2 - MAFF	12.60%	2.293%	2.30%	2.30%	2.30%
12	Implementation of Output 2 - MOWRAM	5.40%	0.663%	0.67%	0.67%	0.69%
13	Implementation of Output 3 - MAFF	13.50%	1.395%	1.40%	1.40%	1.40%
	TOTAL	100.00%	13.38%	15.39%	16.52%	18.96%

Table 18. CFAVC OVERALL PROJECT IMPLEMENTATION PROGRESS PER IMPLEMENTING AGENCY

MAFF		Target Weight	2020		Jan-21		Feb-21		Mar-21	
Output 1 – Critical Agribusiness Value Chain Infrastructure Improved and made Climate-Resilient			Actual	Weighted	Weighted	Accumulated	Weighted	Accumulated	Weighted	Accumulated
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	15.56	2.334	0.32	2.657	0.94	3.269	1.01	4.28
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	5.00	16.00	0.800	0.15	0.953	0.00	0.800	0.00	0.80
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	4.00	9.53	0.381	0.00	0.381	0.09	0.472	0.10	0.58
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	4.00	9.25	0.370	0.00	0.370	0.13	0.497	0.13	0.63
1.f.3	40,000 people trained on biodigester and compost hut use and management (50% are women) and one (1) national standard and policy of biodigester and bio-slurry developed	2.00	0.70	0.014	0.00	0.014	0.00	0.014	0.00	0.01
sub-total Output 1		30.00		3.90		4.38		5.05	1.25	6.30
Output 2 – Climate-smart Agriculture and Agribusiness Promoted										
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	6.25	0.313	0.00	0.313	0.00	0.3133	0.00	0.31
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	5.00	16.98	0.849	0.00	0.850	0.00	0.8501	0.00	0.85
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	26.30	0.526	0.00	0.526	0.00	0.5267	0.00	0.53

2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	30.30	0.606	0.00	0.606	0.00	0.6067	0.00	0.61
	sub-total Output 2	14.00		2.294		2.296		2.297	0.00	2.30
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	19.00	0.380	0.00	0.380	0.00	0.380	0.00	0.38
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	14.50	0.290	0.00	0.290	0.00	0.290	0.00	0.29
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	11.50	0.230	0.00	0.230	0.00	0.230	0.00	0.23
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	5.40	0.108	0.00	0.108	0.00	0.108	0.00	0.11
3.e	30 agribusinesses trained in green finance and CSA	2.00	4.50	0.090	0.00	0.090	0.00	0.090	0.00	0.09
3.f	20,000 Households provided with information on climate risk-sharing instruments	2.00	4.50	0.090	0.00	0.090	0.00	0.090	0.00	0.09
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	3.00	6.90	0.207	0.00	0.207	0.00	0.207	0.00	0.21
	sub-total Output 3	15.00		1.40		1.40		1.40	0.00	1.40
OUTPUT	Output 1	30.00		3.90		4.38		5.052	1.25	6.30
	Output 2	14.00		2.29		2.30		2.297	0.00	2.30
	Output 3	15.00		1.40		1.40		1.395	0.00	1.40
TOTAL MAFF		59.00		7.59		8.07		8.74	1.25	10.00
MOWRAM				2020	Jan-21		Feb-21		Mar-21	

Output 1 – Critical Agribusiness Value Chain Infrastructure Improved and made Climate-Resilient			Actual	Weighted	Weighted	Accumulated	Weighted	Accumulated	Weighted	Accumulated
1.a	27 Irrigation and water management systems rehabilitated and made climate-friendly	15.00	10.06	1.509	0.80	2.310	1.03	2.5439079	1.09	3.63
	sub-total Output 1	15.00		1.51		2.31		2.54	1.09	3.63
Output 2 – Climate-smart Agriculture and Agribusiness Promoted										
2.c.1	27 FWUCS of FWUGS made full operational	3.00	12.10	0.363	0.00	0.365	0.01	0.369	0.01	0.38
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irrigation schemes	3.00	10.00	0.300	0.00	0.304	0.00	0.304	0.00	0.31
	sub-total Output 2	6.00		0.663		0.669		0.673	0.01	0.69
TOTAL MOWRAM		21.00		2.17		2.98		3.22	1.10	4.32
MRD			2020		Jan-21		Feb-21		Mar-21	
Output 1 – Critical Agribusiness Value Chain Infrastructure Improved and made Climate-Resilient			Actual	Weighted	Weighted	Accumulated	Weighted	Accumulated	Weighted	Accumulated
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	14.05	2.108	0.32	2.430	0.47	2.578	0.53	3.10
TOTAL MRD		15.00		2.11		2.43		2.58	0.53	3.10
UNDECIDED			2020		Jan-21		121/2021		Mar-21	
Output 1 – Critical Agribusiness Value Chain Infrastructure Improved and made Climate-Resilient			Actual	Weighted	Weighted	Accumulated	Weighted	Accumulated	Weighted	Accumulated

1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	4.13	0.207	0.00	0.207	0.00	0.207	0.00	0.21
TOTAL Output (Undecided)		5.00		0.21		0.21		0.21	0.00	0.21
OVERALL			2020		Jan-21		Feb-21		Mar-21	
			Actual	Weighted	Weighted	Accumulated	Weighted	Accumulated	Weighted	Accumulated
EI	MAFF	59.00		7.59		8.07		8.744	1.25	10.00
	MOWRAM	21.00		2.17		2.98		3.217	1.10	4.32
	MRD	15.00		2.11		2.43		2.578	0.53	3.10
	Undecided	5.00		0.21		0.21		0.207	0.00	0.21
Overall TOTAL for all		100.00		12.07		13.68		14.75	2.88	17.63

Table 19. CFAVC OVERALL PROJECT IMPLEMENTATION PROGRESS, DMF FORMAT

Output and Activities		Assigned weight	Progress 2020		Overall DMF's Cumulative Weighted Progress (%)			
			Actual	Weighted	Jan	Feb	March	Q1
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	10.06	1.509	0.80	1.03	1.09	2.92
1.b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	5.00	4.13	0.207				0.00
1.c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	15.00	14.05	2.108	0.32	0.47	0.53	1.32
1.d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	15.00	15.06	2.259	0.32	0.94	1.01	2.27
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	5.00	16.00	0.800	0.15	0.00	0.00	0.15
1.f1	12,000 Bio-digesters made operational benefitting 40,000 persons (50% are women)	4.00	7.07	0.283	0.00	0.09	0.10	0.20
1.f2	6,000 Compost-huts made operational benefitting 40,000 persons (50% are women)	4.00	7.47	0.299	0.00	0.13	0.13	0.26
1.f.3	40,000 people trained on biodigester and compost hut use and management (50% are women) and one (1) national standard and policy of biodigester and bio-slurry developed	2.00	0.70	0.014				0.00

Output and Activities		Assigned weight	Progress 2020		Overall DMF's Cumulative Weighted Progress (%)			
			Actual	Weighted	Jan	Feb	March	Q1
	sub-total Output 1	65.00		7.48	1.60	2.66	2.86	7.12
Output 2 – Climate-smart Agriculture and Agribusiness Promoted								
2.a	3 Additional climate-resilient varieties of rice and maize released	5.00	6.25	0.313	0.00	0.00	0.00	0.00
2.b	40,000 Farmers trained in Climate-smart Agriculture and agribusiness development skills	5.00	16.98	0.849	0.00	0.00	0.00	0.00
2.c.1	27 FWUCS of FWUGS made full operational	3.00	12.10	0.363	0.00	0.01	0.01	0.02
2.c.2	500 FWUCS of FWUGS developed capacity to operate and maintain their irrigation schemes	3.00	10.00	0.300	0.00	0.00	0.00	0.01
2.d.1	4 Agricultural development centers made fully operational to provide agribusiness services	2.00	26.30	0.526	0.00	0.00	0.00	0.00
2.d.2	4 Engineering workshops made fully operational to provide agribusiness services	2.00	30.30	0.606	0.00	0.00	0.00	0.00
	sub-total Output 2	20.00		2.957	0.01	0.01	0.02	0.04
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	19.00	0.380	0.00	0.00	0.00	0.00
3.b	Good Agriculture Practice for tropical fruit endorsed	2.00	14.50	0.290	0.00	0.00	0.00	0.00
3.c	Good Agriculture Practice for organic fertilizer endorsed	2.00	11.50	0.230	0.00	0.00	0.00	0.00

Output and Activities		Assigned weight	Progress 2020		Overall DMF's Cumulative Weighted Progress (%)			
			Actual	Weighted	Jan	Feb	March	Q1
3.d	50 Staff from financial institutions trained in CSA and green finance	2.00	5.40	0.108	0.00	0.00	0.00	0.00
3.e	30 agribusinesses trained in green finance and CSA	2.00	4.50	0.090	0.00	0.00	0.00	0.00
3.f	20,000 Households provided with information on climate risk-sharing instruments	2.00	4.50	0.090	0.00	0.00	0.00	0.00
3.g	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	3.00	6.90	0.207	0.00	0.00	0.00	0.00
	sub-total Output 3	15.00		1.40	0.00	0.00	0.00	0.00
OUTPUT	Output 1	65.00		7.48	1.60	2.66	2.86	7.12
	Output 2	20.00		2.96	0.01	0.01	0.02	0.04
	Output 3	15.00		1.40	0.00	0.00	0.00	0.00
TOTAL Output (1 + 2 + 3)		100.00		11.83	1.61	2.67	2.88	7.16

Table 20. CFAVC OVERAL PROJECT IMPLEMENTATION PROGRESS, OUTPUT 1

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	12	13	14	12	13	14	12	13	14
1. a	27 Irrigation and water management systems rehabilitated and made climate-friendly	Step 1A Identification of ISSs	Schemes	27	5	10.00	17.19	3.18	9.00	1.81	100.0	1.81	0.33	100	1.81	0.33	100	1.81	0.33	100	1.81	0.33
		Step 1B Feasibility Study	Schemes	27	10	10.00	6.30	2.34	9.00	12.70	20.0	2.54	0.94	25	3.17	1.18	30	3.81	1.41	25.0	3.17	1.18
		Step 2 Topographic Survey	Ha	15,000	10	4,050	3,754.50	2.50	5,333	5,628.5	5.0	281	0.19	10.0	562	0.38	10	562.85	0.38	8.3	469	0.31
		Step 3 + 4DED & Tender file	Ha	15,000	20	4,050	1,399.50	1.87	5,333	7,983.5	25.0	1,995	2.66	30	2,395	3.19	30	2,395	3.19	28.3	2,261	3.02
		Procurement & Implementation	Ha	15,000	50	2,000	50.10	0.17	5,333	7,282.9	5.0	364	1.21	7.5	546	1.82	8.0	582.63	1.94	6.8	497	1.66
		O&M	Schemes	27	5	0.00	0.00	0.00	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
		Subtotal			100			10.06					5.34			6.90			7.26			19.49
1. b	800 On-farm rainwater harvesting ponds commissioned (incl. 15 drip irrigation)	Identification of ponds	no	800	5	80	160.00	1.00	80	0.00	0.0	5.00	0.03	0.0	5.00	0.03	0.0	10.00	0.06	0.0	20	0.13
		Farm identification for drip system	no	15	5	2	4.00	1.33	8	6.00	16.66	1.00	0.33	16.66	1.00	0.33	16.66	1.00	0.33	49.99	3.00	1.00
		DED Ponds	no	800	15	80	60.00	1.13	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		DED Drip system	no	15	15	2	0.67	0.67	2	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Procurement & Implementation ponds	no	800	35	80	0.00	0.00	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020		2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021			
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
		Drip systems installation	no	15	25	80	0.00	0.00	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Subtotal			100			4.13		192.33			0.36			0.36			0.40		1.13	
1. c	At least 250 Km Farm roads upgraded to climate resilient standards to improve Connectivity to Cooperatives and Markets	Step 1A: Identification	km	250	5	67.95	68.00	1.36	100.1	100.05	10.0	10.01	0.20	15.0	15.01	0.30	15.0	15.01	0.30	13.3	13.34	0.27
		Step 1B Feasibility Study	km	250	10	67.95	37.50	1.50	100.1	130.55	25.0	32.64	1.31	30.0	39.17	1.57	35.0	45.69	1.83	30.0	39.17	1.57
		Step 2:Topographic Survey	km	250	10	67.95	71.00	2.84	100.10	97.05	1.0	0.97	0.04	7.5	7.28	0.29	9.0	8.73	0.35	5.8	5.66	0.23
		Step 3+4 DED & Tender file	km	250	20	36.5	68.75	5.50	100.10	67.85	2.5	1.70	0.14	5.0	3.39	0.27	6.0	4.07	0.33	4.5	3.05	0.24
		Procurement & Implementation	km	250	50	36.5	14.25	2.85	25.00	47.25	5.0	2.36	0.47	7.5	3.54	0.71	7.5	3.54	0.71	6.7	3.15	0.63
		O&M	km	250	5		0.00	0.00	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
		Subtotal			100			14.05					2.15			3.14			3.51			8.80
1. d	80 Agricultural cooperatives have integrated adaptation measures in postharvest infrastructural investments	Identification	No	80	5	20	20.00	1.25	35	35.00	70.0	24.50	1.53	100.0	35.00	2.19	100.0	35.00	2.19	90.0	31.50	1.97
		Site location Survey	no	80	5	20	20.00	1.25	35	35.00	70.0	24.50	1.53	25.0	8.75	0.55	30.0	10.50	0.66	41.7	14.58	0.91
		DED & Tender file	no	1	20	1	1.00	5.00	1	1.00	0.0	0.00	0.00	7.5	0.08	1.50	7.5	0.08	1.50	5.0	0.05	1.00
		Procurement	no	1	40	1	1.00	8.00	1	1.00	0.0	0.00	0.00	5.0	0.05	2.00	6.0	0.06	2.40	3.7	0.04	1.47
		Construction	No	80	25	20	0.20	0.06	35	55	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		O&M	no	80	5	20	0.00	0.00	35	55.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	Subtotal			100			15.563					3.06			6.23			6.74			16.04
1.e	Crop product quality and safety testing infrastructure in National Agriculture Laboratory upgraded	TNA for LAB staff	No	1	10	1	1.00	10.00	1	1.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00
		DED & Tender file	No	1	20	1	0.25	5.00	1	1.75	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00
		Procurement	No	1	60	1	0.00	0.00	1	2.00	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	9	10			0.00	9		0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00
		On-the job training	Person	50	10	0	0.00	0.00	0	10	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0.0	0.00
		Subtotal			100			15.00				0.00		0.00	0.00		0.00	0.00		0.00	0.00
1.f.1	12,000 Bio-digesters made operational benefitting 80,000 persons (50% are women)	Identification of Bio-digesters	Biodigester	12,000	10	500	50.04	0.42	750	1,199.9	0.0	0.00	0.00	1.5	18.00	0.01	1.5	18.00	0.01	1.0	12.00
		DED & Tender file	document	3	20	1	0.20	6.67	1	1.80	0.0	0.00	0.00	5.0	0.09	0.60	5.0	0.09	0.60	3.3	0.06
		Procurement	document	3	50	1	0.00	0.00	1	2.00	0.0	0.00	0.00	5.0	0.10	1.67	6.0	0.12	2.00	3.7	0.07
		Construction of biodigesters	Biodigester	12,000	20	500	39.96	0.33	750	1,210.04	0.2	2.90	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.1	0.97
		Subtotal			100			7.42		0.00		0.00			2.28			2.61			4.90
1.f.2	6,000 Compost-huts made operational benefitting 20,000 persons	Identification of compost-huts	Compost hut	6,000	10	250	22.50	0.38	375	602.50	0.0	0.00	0.00	7.5	45.19	0.08	1.5	9.04	0.02	3.0	18.08
		DED & Tender file	document	3	20	1	0.20	6.67	1	1.80	0.0	0.00	0.00	5.0	0.09	0.60	5.0	0.09	0.60	3.3	0.06
		Procurement	document	3	50	1	0.00	0.01	1	2.00	0.0	0.00	0.00	7.5	0.15	2.50	8.0	0.16	2.67	5.2	0.10
		Construction of compost huts	Compost hut	6,000	20	250	0.00	0.00	625	875.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
(50% are women)	Subtotal			100			7.05					0.00			3.18			3.28			6.46
1.f .3	20,000 people trained on biogas use and management (50% are women) and one (1) national standard and policy of biogas developed	Person	5,000	20	1325	441	33.28	1325	2,209.00	16.0	353	1.41	15.0	331.35	1.33	16.0	353.44	1.41	15.7	346	1.38
	Promotion and Marketing	Person	5,000	20	6000	5847	97.45	6,000	6,153.00	12.0	738	2.95	10.0	615.30	2.46	12.0	738.36	2.95	11.3	697	2.79
	Monitoring and Evaluation	Person	5,000	20	1250	318	25.44	1,250	2,182.00	10.0	218	0.87	10.0	218.20	0.00	10.0	218.20	0.87	10.0	218	0.87
	Innovation & VC improvement	Person	5,000	20	1250	528	42.24	1,250	1,972.00	12.0	236.6	0.95	10.0	197.20	0.79	12.0	236.64	0.95	11.3	223	0.89
	National Policy and Standards of Biogas and biogas	Policy	1	20	1	0	0.00	0.5	1.50	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Subtotal			100			198.41					6.19			4.58			6.19			16.95

Table 21. CFAVC OVERAL PROJECT IMPLEMENTATION PROGRESS, OUTPUT 2

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	12	13	14	12	13	14	12	13	14
2.a	3 Additional climate-resilient varieties of rice and maize released	Development of new rice varieties	Varieties	2	30	1.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Development of new maize varieties	Variety	1	10	1.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Multiplication of existed rice varieties production of FS rice for PRD, PMD and CAR 16	Seeds	2	10	1.00	1.00	5.00	1.00	1.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Multiplication of maize seed (CM1) varieties	Seeds	1	10	1.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Distribution of rice seeds for demonstration seed production (PRD, PMD) for WS and CAR 16 for DS	Seeds	160	10	40.00	38.40	2.40	40.00	41.60	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Distribution of maize for seed production	Seeds	3	10	1.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Training of farmer group on BMP (240 courses)	Persons	10,000	5	2500.00	0.00	0.00	2,500	5,000	0.00	0.00	0.00	0.0	0.00	0.00	10.00	500.00	0.25	3.33	166.67	0.08

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	Training of farmer group on rice seed produciton (120 courses)	Persons	4,000	5	100 0.00	0.00	0.00	1,00 0	2,000	0.0 0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Field day (120 events)	events	6,000	10	150 0.00	0.00	0.00	1,50 0	3,000	0.0 0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Site identification for Cassava seeds demonstration	Demo	40	5	0.00	0.00	0.00	10.0 0	10	100	10	1.25	100	10.00	1.25	100. 00	10.00	1.25	100. 00	10.0 0	1.25
	Laser Land Leveling (LLL)	Demo/h a	4,000	5	0.00	0.00	0.00	500	500	30. 00	150	0.19	50.00	250	0.31	50.0 0	250.0 0	0.31	43.3 3	216. 67	0.27
	sub total			100			7.40					1.44			1.56			1.81			1.60
2.b	Training of TOT-Trainers	Persons	80	3	80.0 0	0.00	0.00	0.00	80.00	0.0 0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drafting of training material for climate smart agriculture	set	1	2	1.00	1.00		1.00	1.00	5.0 0	0.05	0.10	10.0	0.10	0.20	10.0 0	0.10	0.20	8.33	0.08	0.17
	Implementatio n of comprehensive Needs assessment	set	4	2	1.00	2.50		4.00	2.50	5.0 0	0.13	0.06	10.0	0.25	0.13	12.0 0	0.30	0.15	9.00	0.23	0.11
	Drafting of training material for agribusiness development	set	1	3	1.00	1.00	3.00	1.00	1.00	5.0 0	0.05	0.15	10.0	0.10	0.30	12.0 0	0.12	0.36	9.00	0.09	0.27

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	Farmers trained on CAMGAP standards	Persons	10,000	15	1,500	1,600	2.40	3,000	2,900	5.00	145	0.22	10.0	290	0.44	10.00	290.00	0.44	8.33	241.67	0.36
	Farmers trained on CSA	Persons	10,000	25	2,500	1,100	2.75	3,000	4,400	5.00	220	0.55	10.0	440	1.10	10.00	440.00	1.10	8.33	366.67	0.92
	Farmers trained on SRP	Persons	10,000	20	2,000	1,375	2.75	3,000	3,625	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Farm mechanization and agriculture conservation	Persons	10,000	15	250	1,833	2.75	3,000	1,416	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Agriculture Cooperative (board members)	Persons	10,000	15	250	53.33	0.08	3,000	3,196	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	subtotal			100			16.98					1.08			2.16			2.25			1.83
2.c.1	27 FWUCS of FWUGS made operational																				
	Preparation of training materials	set	1	2.5	1.00	0.20	0.50	0.00	0.80	0.00	0.00	0.00	5.0	0.04	0.10	5.00	0.04	0.10	3.33	0.03	0.07
	Initial meeting with local authorities	meeting	27	5	10.00	14.04	2.60	9.00	4.96	100	4.96	0.92	100.0	4.96	0.92	100.00	4.96	0.92	100.00	4.96	0.92
	Village meeting	meeting	54	10	10.00	10.80	2.00	9.00	8.20	100	8.20	1.52	100.0	8.20	1.52	100.00	8.20	1.52	100.00	8.20	1.52
	Screening potential candidates FWUC committee	FWUC	27	10	10.00	5.40	2.00	9.00	13.60	40.00	5.44	2.01	90.0	12.24	4.53	92.00	12.51	4.63	74.00	10.06	3.73
	Candidate selection	FWUC	27	10	10.00	5.40	2.00	9.00	13.60	40.00	5.44	2.01	90.0	12.24	4.53	92.00	12.51	4.63	74.00	10.06	3.73

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	Village representation election	FWUC	27	10	10	2.70	1.00	9.00	16.30	0.00	0.00	0.00	90.0	14.67	5.43	92.00	15.00	5.55	60.67	9.89	3.66
	FWUC committee election	FWUC	27	15	10	0.00	0.00	9.00	19.00	0.00	0.00	0.00	10.0	1.90	1.06	95.00	18.05	10.03	35.00	6.65	3.69
	FWUC formation	FWUC	27	25	10	0.00	0.00	9.00	19.00	0.00	0.00	0.00	10.0	1.90	1.76	10.00	1.90	1.76	6.67	1.27	1.17
	Registration	FWUC	27	12.5	10	0.00	0.00	9.00	19.00	0.00	0.00	0.00	0.0	0.00	0.00	12.00	2.28	1.06	4.00	0.76	0.35
	subtotal			100			10.1					6.47			19.85			30.20			18.84
2.c.2	500 FWUCS of FWUGS, developed capacity to operate and maintain their irrigation schemes	Preparation of training material on operation	set	1	10	1.00	0.00	0.00	1.00	100	1.00	10.00	100.0	1.00	10.00	100.00	1.00	10.00	100.00	1.00	10.00
		Preparation of training material on maintenance	set	1	10	1.00	0.70	7.00	0.30	100	0.30	3.00	100.0	0.30	3.00	100.00	0.30	3.00	100.00	0.30	3.00
		Trained FWUCs of FWUGs on schemes management	Persons	500	70	0.00	0.00	130	108	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Application of MEF budget	no	27	10	0.00	4.05	19.00	14.95	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		subtotal		100			8.5					13.00			13.00			13.00			13.00
2.d.1	4 Agricultural development centers made fully	Identification and Initial Survey	No	4	10	3.00	4.00	0.00	0.00	2.50	0.00	0.00	5.0	0.00	0.00	5.00	0.00	0.00	4.17	0.00	0.00
		DED & Tender file	No	3	35	1.00	0.86	1.00	1.14	5.00	0.06	0.67	7.5	0.09	1.00	7.50	0.09	1.00	6.67	0.08	0.89

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
<i>operational to provide agribusiness services</i>	Procurement	No	3	10	1.00	1.89	6.30	1.00	0.11	10.00	0.01	0.04	7.5	0.01	0.03	7.50	0.01	0.03	8.33	0.01	0.03
	Construction	No	3	40	3.00	0.00	0.00	1.00	4.00	2.50	0.10	1.33	5.0	0.20	2.67	6.00	0.24	3.20	4.50	0.18	2.40
	Training of users (50% are women)	No	4	5			0.00	0.00	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
	subtotal			100			26.3					2.04			3.69			4.23			3.32
2.d. 2	4 Engineering workshops made fully operational to provide agribusiness services																				
	Identification and Initial Survey	No	4	10	1.00	4.00	10.00	1.00	1.00	10.00	0.10	0.25	7.5	0.08	0.19	10.00	0.10	0.25	9.17	0.09	0.23
	DED & Tender file	No	3	35	1.00	1.00	11.70	1.00	1.00	2.50	0.02	0.29	5.0	0.05	0.58	5.00	0.05	0.58	4.17	0.04	0.48
	Procurement	No	3	10	1.00	2.55	8.50	1.00	0.00	10.00	0.00	0.00	7.5	0.00	0.00	10.00	0.00	0.00	9.17	0.00	0.00
	Construction	No	3	40	0.00	0.00	0.00	4.00	4.00	2.50	0.10	1.33	5.0	0.20	2.67	5.00	0.20	2.67	4.17	0.17	2.22
	Training of users (50% are women)	No	4	5	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	7.5	0.00	0.00	7.50	0.00	0.00	6.67	0.00	0.00
	subtotal			100			30.2					1.87			3.44			3.50			2.94

Table 22. CFAVC OVERAL PROJECT IMPLEMENTATION PROGRESS, OUTPUT 3

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	12	13	14	12	13	14	12	13	14
3.a	Good Agriculture Practice for tropical fruit endorsed	Agribusiness policy development)	No	3	25	1	0.08	2.80	1.0	1.9	0.0	0.00	0.00	0.0	0.00	0.00	10.0	0.19	1.60	10.0	0.19	1.60
		Contract farming policy development _as a component of agribusiness policy	No	1	25	0.5	0.05	5.30	0.5	0.9	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Development proclamation to support	No	1	25	0.5	0.07	6.90	0.5	0.9	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Develop/formulated a PPP framework	No	1	25	0.5	0.04	4.00	0.5	1.0	0.0	0.00	0.00	0.0	0.00	0.00	10.0	0.10	2.40	10.0	0.10	2.40
		Subtotal			100			19.00				0.00	0.00		0.00	0.00			4.00			4.00
3.b	Good Agriculture Practice for organic fertilizer endorsed	Guidance manual for climate neutrality and adaptation standards for agribusiness operation	No	1	20	0.5	0.04	4.00	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Climate-friendly become more widely utilized with eight of largest Cambodia millers/exporters	No	1	20	0.5	0.05	5.00	0.5	1.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	being part of alliance																				
	Standards on CamGAP tropical fruit formation	No	1	20	0.5	0.05	4.50	0.5	1.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Development of standards for organic fertilizer	No	1	20	0.5	0.01	1.00	0.0	0.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Development of IDP strategies for climate friendly agribusiness	No	1																		
	National standards on biogas development	No	1																		
	Socialize GAP Standards for tropical fruit	No	2	20	0.5	0.00	0.00	0.0	0.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Subtotal			100			14.50				0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00
3.c	Assessment TNA on CSA and Green finance	No	1	20	0.5	0.03	3.00	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Develop training material for staff training in CSA	No	1	20	0.5	0.03	3.00	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Develop training material for staff training in green finance	No	1	20	0.5	0.04	3.50	0.5	1.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020		2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021			
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
		Imlementation of training on green finance inCSA	Staff	50	20	0.5	0.50	1.00	0.0	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Implementation training in green finance	Staff	50	20	0.5	0.50	1.00	0.0	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Subtotal			100		0.00	11.50				0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00
3.d	30 agribusinesses trained in green finance and CSA	Assessment TNA on CSA and Green finance	Assessment	1	10	0.5	0.01	0.90	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Develop training material for staff training in CSA	set	1	20	0.5	0.04	4.40	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Develop training material for staff training in green finance	set	1	20	0.5	0.00	0.10	15.0	15.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Implementation of training on green finance in CSA	Staff	30	20	0.5	0.00	0.00	15.0	15.5	0	0.00	0.00	0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Implement training in green finance	Staff	30	30	0.5	0.00	0.00	15.0	15.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Subtotal			100			5.40					0.00			0.00			0.00			0.00
3.e	20,000 Households provided with information on climate risk-	Assessment of TNA on CSA and Green finance	Assessment	1	10	1	0.03	2.50	1.0	2.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00

ACTIVITY		SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
						Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
							Nr	Physical %														
3.f	sharing instruments	Develop training material for staff training in CSA	Set	1	20	0.5	0.02	2.00	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Develop climate risk sharing mechanism /instrument	Set	1	20	0.5	0.00	0.00	1.0	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.000
		Awareness raising on weather and climate risk information sharing to communities	Household	20,000	50	0.5	0.00	0.00	10.0	10.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Subtotal			100			4.50					0.00		0.00	0.00		0.00	0.00		0.00	0.00
3.f	Supporting Climate Risk Management through Information and Communication Technologies (ICT)	Implementation of TNA	No	1	10	1	0.03	3.00	1.0	2.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Develop training material for staff training in green finance	No	1	15	0.5	0.02	1.50	0.5	1.0	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Implementation of training on green finance in CSA	Persons	20,000	75	0	0.00	0.00	50,000	50,000	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
		Subtotal			100	0.5	0.00	4.50		0.5			0.00			0.00			0.00			0.00
3.9	sub-total Output 3	Development of ICT	No	1	55	1	0.07	6.93	0.3	1.2	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00

ACTIVITY	SUBACTIVITY	UNIT	OVERALL TARGET	Sub- Weight	AWP 2020			2021		Progress Jan 2021			Progress Feb 2021			Progress Mar 2021			Progress Q1 2021		
					Plan	Realisation		AWP	Workplan	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)	Current Progress %	Actual progress	Weighted Progress (%)
						Nr	Physical %														
	Purchase of equipment	No	1	25	1	0.00	0.00	0.5	1.5	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Installation of the center	No	1	20	1	0.00	0.00	0.3	1.3	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
	Subtotal			100			6.93					0.00			0.00			0.00			0.00

Annex 2. Social Safeguard Progress for Irrigation and Farm Road subprojects

Table 23. Social Safeguard progress for MRD Road Subprojects

No	Province	Agricultural Cooperation (AC)	Road Length by Subproject	Total Length Province	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	Takeo	1. Lumpong Kasikam Samaky AC,	(10.00 km),	14.67	FSR completed and submitted to ADB by PMU	N/A	N/A	involved with GDR on LARP
		2. Sdok Sdom AC	(4.67 km)					
2	Kampong Cham	3. Sambo Meanchey AC	AC (9.882 km),	14.603	FSR completed and submitted to ADB by PMU	N/A	N/A	involved with GDR on LARP
		4. Stueng Trang Senchey AC	4.721					
3	Tboung Khmum	5. Dambae Rungroeung AC	(9.74km),	21.74	FSR completed and submitted to ADB by PMU	N/A	N/A	DDR 90%
		6. Kdey Song Khuem Kaksekor AC	(12.0km)					
4	Kampot	7. Raksmei Samaky Amatak AC	(11.948km)	20.052	FSR completed and submitted to ADB by PMU	N/A	N/A	N/A
		8. Kasekor Samaki Rung Roeung	(8.104km)					
Total			71.07 km					

A. Lumpong Kasikam Samaky and Sdok Sdom Subprojects in Takeo Province.

123. During the impact screening assessment with representatives from GDR/MEF, MRD/PMU, PPIU and consultants' groups, this package was classified as Category B for IR and the RP is required. The kick off meeting is held with IRC and PRSC and representatives from MRD/PUM and PPIU at Takeo province, on 25 December 2020. The Meaningful Public Consultation is conducted on 12th January 2021 for both two subprojects and the DMS is carried out on 18 Jan 2021 and finished in Late February 2021, the DMS data is currently under the processing of GDR team, and CS1 International Social Safeguards Specialist will draft the basic resettlement plan.

B. DamBae Rungroeung and Kdey SongKhuem Kaksekor

124. Subprojects in Tboung Khmum Province and Sambo Meanchey and Steung Trang Senchey Subprojects in Kampong Cham Province. Impacts assessments for the road subprojects in these two provinces are conducted by GDR/MEF, MRD/PMU, and PPIU on 21st December 2020. Tboung Khmum road subprojects are classified as Category C. One DDR will cover two subprojects for TBK and it will be ready by 3rd week of March 2021 to submit to ADB. There is no any indigenous people (IP) living at the project area.

C. Raksmei Samaky Amatak and Kasekor Samaki Rung Roeung Subprojects in Kampot Province.

125. The impacts assessment with participation from GDR representative will be conducted in early April 2021, then the DDR or LARP will be accordingly prepared in accordance with LARF, which addressed all the steps and procedures.

Table 24. The year 2020 Irrigation subprojects under output 1 are as followings

No	Subproject Name	Command area, ha	Provinces	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	TRAPEANG RUN	100	Kampot	May 2020	Jul 2020	N/A	Feb 2021
2	TAKOCH (Prey Takoch-Prawoek Pong)	459		N/A			
3	MLECH	800					
4	Prey Kdouch Reservoir	550	Takeo	Impact assessment is under processing currently with GDR			
5	Kraing Empil Embankment	200					
6	TUMNUB KBAAL TEUK	250	Tboung Khmum	Jan 2021	Feb 2021	Under ADB review	
7	TOUL PRING RESERVOIR	100					
8	TRAPAING TROS RESERVOIR	350		Expected to be submitted to ADB by GDR in early Jun 2021			
9	Pram Kumpheak	635	Kampong Cham	Impact assessment has not yet been conducted with GDR, but site screening had been done			
10	O Kamprok	320					

D. Trapeang Run Subproject under Kampot province.

126. There are three vulnerable AHs here in this subproject and are already compensated in 3rd week of January 2021 through communes' authority under MOWRAM-PIU arrangement. The confirmation letter on land transaction for this subproject had been signed by H.E Minister of MOWAM on 23rd November 2020. Another confirmed letter issued by communes' authority to all 30 AHs on responsibility for other expenses during the process of land transaction, The Commune Grievance Redress Focal-Points has been established on 3rd December 2020 and MAFF PMU has sent letters to each PIU (MOWAM-PIU and MRD-PIU) for PGRC establishment. This GRM will cover the whole 4 provinces on both environmental and social safeguards. MAFF PMU received assignment nominated letter from MRD-PIU on 14 December 2020 and from MOWRAM PIU on 2nd March 2021, and recently MAFF PMU is preparing 4 letters to send to 4 provincial governors on PGRC-establishment. For the corrective action plan (CAP) of Trapeang Run is fully completed.

127. CS1/PIC Social Safeguards Specialist has monitored the civil work following the NOL issued on 28 October 2020 subject to: Procurement of works (do not start work in areas, where there is voluntary land donation activity until ADB receives and clears the third-party validation report on such donation).

E. Toul Pring and Kbal Tuek Subprojects under Tboung Khmum province.

128. Toul Pring has no AH, whereas Kbal Tuek has 3 AHs. Toul Pring and Kbal Tuek are classified as Category C during the impacts assessments on 24 November 2020 and are confirmed with GDR during the virtual meeting on 15 December 2020. One DDR has been prepared in accordance with LARF covering two irrigation schemes (Toul Pring and Kbal Tuek) with 3 AHs (no AH at Toul Pring, 3 AHs at Kbal Tuek), which involved no land

acquisition, no secondary structure and no cropping to be affected/donated. Only some trees to be donated and identified under the DDR. No IP is found to be living at the project area. Toul Pring Commune Grievance Redress Committee (CGRC) has been established on 7th December 2020 and for Kbal Tuek on 4th March 2021. The final DDR is already submitted to ADB for first review on 2 February 2021 and return from ADB on 16 February 2021 with comments (Track Changes), and the revised DDR will be resubmitted to ADB for final review on 15 March 2021. For the Third Party has finished the field work since 2nd week of February 2021, expected to have validation report before end of 3rd week in March 2021.

F. Trapeang Tross Subproject under Tboung Khmum province

129. Some AHs have accessed to the crops inside the reservoir. The project has been categorized as Category B and plans are made to conduct full census, socio economic survey, preparation of inventory of losses, execution of information, consultation and disclosure and preparation of Resettlement Plan (RP), to be done by GDR W/G. The kick off meeting with the PRSC, GDR and line ministries representatives is conducted on 10 February 2021 and the pegging with demarcation are carried out since 24 February 2021 and spent the budget of USD 634.75.

G. Prey Kdouch Reservoir and Kraing Empil Embankment subprojects under Takeo province

130. An impact assessment will be conducted with representatives from GDR/MEF, MOWRAM/PMU and PPIU and Consultants teams, the category classification will be identified during that impact screening with participation from GDR, if there is no IR impact then the DDR will be required, the proposed impact screening assessment is expected to be conducted in April 2021.

H. TAKOCH (Prey Takoch-Prawoek Pong) and MLECH subprojects in Kampot Province and Pram Kumpheak and O Kamprok subprojects in Kampong Cham province.

131. These 4 irrigation schemes have not yet been visited by the CS5 (FSDD) SSS, but these are under the planning of 3rd month of 2021.

Table 25. Year 2020 MAFF subprojects (AC Warehouses Planned in 2020 and their Sizes)

No .	Description s	Total numbers	2020 Plan	Subproject sizes			ADB Submissio n	1st ADB Comme nt	2nd Com ment	Appr oval Date
				Length, m	Width, m	Height , m				
1	200 tones	12	3	25	18	12.304	These are in one report, expected to be submitted in early April 2021 to ADB.			
2	100 tones	44	12	18	13.5	9.256				
3	50 tones	24	5	25	18	12.304				
	Total	80	20							

Table 26. Design Dimension of the PDC and Engineering Shop

No.	Description s	Length, m	Width, m	Height, m	Provinces				ADB Submission	1st ADB Comment	2nd Comment	Approval Date
					KP C	T B K	T K	K P				

1	PADC	18.85	15.85	6.766	1	1	1	0	These are in one report, expected to be submitted in early April 2021 to ADB.
2	Engineering workshop	15	12	8.1	1	1	0	1	

Table 27. Bio-digester and Compos Huts

No	Subproject	Amount (Project Life)	Province	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	Bio-digester	12,000	4 provinces	These are in one report, expected to be submitted in early April 2021 to ADB			
2	Compos Huts	6,000	4 provinces				

132. The above subprojects in Table 3, Table 4 and Table 5 are under MAFF supports as described above are Bio-digesters and compost huts, Agricultural Cooperative storage/warehouses, these subprojects will not induce any involuntary resettlement impacts on private assets and are not required any compensation or donation. The selection criteria for these subprojects, which are stipulated in PAM are described as following,

133. The selection criteria for the AC warehouses,

- i. The cooperative must be registered for more than a year and is able to access loans.
- ii. The cooperative stores seed and/or is trading or has a business plan (that includes O&M) to develop a trading agribusiness with potential downstream value chain linkages.
- iii. It should have at least 1,000 m2 land available or planning to buy similar area.
- iv. It should have a reserve fund, with preference to those reinvesting at least 10% above the minimum legal requirement of 20% gross profit (the minimum stipulated in the Law on Agricultural Cooperatives 2013) into the reserve fund.
- v. The cooperative should have strong commitment to implement climate change measures to reduce vulnerability to impact climate change and reduce carbon footprint of its operations through promoting bioenergy (bio-digesters), renewable energy (e.g., solar roofs) and improving energy efficiency.
- vi. It should have strong commitment of cooperative management team and approved by at least 2/3 of members as detailed in Article 43 on the Law of Agricultural Cooperatives 21. However, the 2/3 majority will be for all members and not just those attending general meetings.
- vii. The cooperative should develop a realistic and technically viable O&M plan for post-harvest and renewable energy infrastructure at the cooperative.
- viii. There is full social and gender inclusion within its membership; 22 and
- ix. The area under cooperative primarily grows rice, maize and/or cassava.

134. The selection criteria for households eligible for a bio-digester,

- i. Commune members, who are located within the catchment area of those agricultural cooperatives supported by the project.
- ii. Households having at least 15 kg manure available daily and a maximum of 150 kg per day.
- iii. Commitment to adopt climate smart and good agricultural practices such as composting, mulching, organic agriculture, climate resilient varieties.

- iv. Preference to female headed households and those committing to a realistic and technically viable O&M plan.
 - v. Preference to households with presence of respiratory related illnesses due to air pollution or those households at risk that use biomass for cooking.
 - vi. Preference to households with capacity to contribute funds either by having own funds or taking loans. and
 - vii. Commitment to use bio-slurry as a fertilizer substitute.
 - viii. LARF para 30 on cassava drying and storage facility: Implementation arrangements for the cassava drying facility are through an agricultural cooperative that will purchase its own land if needed under a private commercial transaction with a willing seller independent of the CFAVCP and using the cooperatives own resources. Subproject selection criteria preclude any involuntary land acquisition for this type of subproject.
 - ix. LARF para 32 on both the drip irrigation and crop storage unit subprojects are deemed category C in relation to land acquisition as outlined in the subproject feasibility reports, and no further safeguard action required.
 - x. In PAM, Page 69 (Para 8) under No. (iii) It should have at least 1,000 m2 land available or planning to buy similar area.
135. Actually, the land size of each selected AC land area to be provided the storage unit is bigger than the required size as mentioned in the LARF and owned by AC with the land ownership. Therefore, it is classified as Category C as mentioned in LARF para 32 for both Involuntary Resettlement and Indigenous People.
136. These above subprojects under MAFF components are classified as category C for IR and IP, due to the screening process with CS Teams (CS2 and CS1), MAFF-PMU and PDA-PPIU of all 4 targeted provinces and conducted the field visits to all Agricultural Cooperatives selected areas of the year 2020 plan and checked all land locations to make sure that those land belonged to the ACs. The CS1 social safeguards specialist also presented in the kick off meeting chaired by IRC president at Tboung Khmum and also presented at MEF among IRC and GDR.

Table 28. Drip Irrigation System

No	Subproject	Amount (Project Life)	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	Drip Irrigation systems	15 systems	N/A	N/A	N/A	N/A

137. For drip irrigations will not impact on private properties and no compensation or donation is required due to the selection criteria applied were:
- i. Must be a smallholder and not an absentee farmer;
 - ii. Must have a land title, or equivalent;
 - iii. Has marketing contacts that require Grade A fruit or has the potential of gaining such contracts;
 - iv. Must grow the Keo Romeat mango variety or other climate resilient varieties that are amenable to floral manipulation and have market potential
 - v. Has access to the water or water is available for a borehole and pond construction (if of sufficient size or replenishment to satisfy the water demands of irrigating mango);
 - vi. Is willing to work with the project and accepts the technical innovation of drip irrigation and solar pumping;
 - vii. Commits not to sell or transfer the land to a third party during the life of the project, to achieve capital gain and;

- viii. Has no objection for his or her farm to be used as a training and demonstration location for the duration of the project.

138. LARF para 31. With regards to drip irrigation, a selected small holder will receive drip irrigation infrastructure installed on his/her own land in exchange for allowing the technology to be tested and act as a working example for demonstration purposes. The smallholder will receive the infrastructure free of charge and no land is acquired by the project, the land remains the property of the smallholder and there is no disruption to orchard operations.
139. LARF para 32. Both the drip irrigation and crop storage subprojects are deemed category C in relation to land acquisition as outlined in the subproject feasibility reports, and no further safeguard action required.

Table 29. On-Farm RWHP

No	Subproject	Amount (Project Life)	Provinces	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	On-farm Rainwater harvesting ponds	800	4 provinces	N/A			

140. For the social safeguards of the RWHP will be selected, whenever the owner has land certificate or relevance document that have equivalence value, with contract we will also enclose with the copy of land title or certificate of equivalence document.

Annex 3. Environmental Monitoring progress

Table 30. Irrigation Subprojects

No.	No. Package	Descriptions	IEE/EMP, % progress	CEMP, % progress	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	2	3	4	5	6	7	8	9
		I. Kampot						
1	P1	Trapeang Run Reservoir	100% completed	100% completed	submitted			approved
2	P5	Takoch (Prey Takoch)						
3		Mlech Reservoir						
4	P9	Trapeang Boeung Reservoir						
5		Kandori Canal						
	P15	Pawoek Pong Reservoir						
		II. Takeo						
6	P3	Prey Kdouch Reservoir	100% completed	100% completed	submitted	26/0321		
7		Kraing Empil Reservoir	100% completed	100% completed	submitted	26/0321		
8	P7	Chrouk1 + Phlov Touk Feeding Canal						
9		Kwaeng Tayi Feeding Canal						
10		Prey Rumdeng Canal						
11	P12	Sdok Sab Reservoir						
12		O' Rumdoul Reservoir						
13	P13	Pralay 85						
14		Canal 42						
15		Pralay So Hang						
16	P14	Pou Tasuy Reservoir						
17		Soam Canal						
		III. Kampong Cham						
18	P4	Pram Kumpheak Reservoir						
19		O Kamprok Feeding Canal						
20	P8	Ko Aet Reservoir						
21		Po Tatress Reservoir						
22	P10	Teuk Cha Reservoir						
23		O Chrey Dam						

		IV. Tbong Khmum						
24	P2	Kbal Teuk Reservoir	100% completed	100% completed	submitted			approved
25		Toul Pring Reservoir	100% completed	100% completed	submitted			approved
26		Trapeang Tros Reservoir	100% completed	100% completed	submitted			approved
27	P6	Tbong Damrey Reservoir						
28		Kampong Raing Feeding Canal						
29	P11	Choam Taheung (FWUC)						
30		Trapaing Ampil						

Table 31. Road subprojects

No.	No. Package	Descriptions	IEE/EMP, % progress	CEMP, % progress	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
		I. Kampot						
1	P1	Raksmei Samaky Amatak	95% drafted	95% drafted				
2		Kasekor Samaki Rung Roeung	95% drafted	95% drafted				
3	P5	Samaki Amatak						
4		Sen Han Cham Reoun Phal						
5	P9	Ratanak Pulrath Samaki						
6		Preykrang Meanrit						
7	P13	XX						
8		XX						
9	P17	XX						
10		XX						
		II. Takeo						
11	P2	Lumpong Kasikam Samaky	100% completed	100% completed	submitted			approved
12		Sdok Sdom	100% completed	100% completed	submitted			approved
13	P6	Samaky Trapeang Kralanh						
14		Bak Sey Rik Ray						
15	P10	Tra Peang Sra Nge						
16		Samaky Tra Peang Chork						
17		Kampeng Sok Sen						

No.	No. Package	Descriptions	IEE/EMP, % progress	CEMP, % progress	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
		Sambo						
18	P14	XX						
19		XX						
20	P18	XX						
21		XX						
		III. Kampong Cham						
22	P3	Sambo Meanchey	100% completed	100% completed	submitted	22/03/21		
23		Stueng Trang Senchey	100% completed	100% completed	submitted	22/03/21		
24	P8	Sammakybaray Angdong Ang						
25		Ponluk Thmey						
26	P12	Akphiwat Moulthanyoeung						
27		Akphiwat Kaksekor						
28	P16	XX						
29		XX						
30	P20	XX						
31		XX						
		IV. Tbong Khmum						
32	P4	Dambae Rungroeun	100% completed	100% completed	submitted			approved
33		Kdey SongKhuem Kaksekor	100% completed	100% completed	submitted			approved
34	P7	Sammaky Meanchey						
35		Lngieng Meamchey						
36		Baitong Korksrok						
37	P11	Samaky Kak						
38		Porpel Meanchey						
39		Arkpirak Ponhear Krek Dambae						
40		Ponhea Kraek Rung Roeung						
41	P15	XX						
42		XX						
43	P19	XX						
44		XX						

Annex 4. Progress of CS5 Team (FS and DED for Irrigation and Road Subprojects)

Table 32. Social Safeguard progress for MRD Road Subprojects

No	Province	Agricultural Cooperation (AC)	Road Length by Subproject	Total Length Province	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	Takeo	Lumpung Kasikam Samaky AC,	(10.00 km),					
		Sdok Sdom AC	(4.67 km)					
2	Kampong Cham	Sambo Meanchey AC	AC (9.882 km),					
		Stueng Trang Senchey AC	4.721					
3	Tboung Khmum	Dambae Rungroeung AC	(9.74km),					
		Kdey Song Khuem Kaksekor AC	(12.0km)					
4	Kampot	Raksmey Samaky Amatak AC	(11.948km)					
		Kasekor Samaki Rung Roeung	(8.104km)					
Total			71.07 km					

Table 33. The year 2020 Irrigation subprojects under output 1 are as followings

No	Subproject Name	Command area, ha	Province	ADB Submission	1st ADB Comment	2nd Comment	Approval Date
1	TRAPEANG RUN	100	Kampot				
2	TAKOCH (Prey Takoch-Prawoek Pong)	459					
3	MLECH	800					
4	Prey Kdouch Reservoir	550	Takeo				
5	Kraing Empil Embankment	200					
6	TUMNUB KBAAL TEUK	250	Tboung Khmum				
7	TOUL PRING RESERVOIR	100					
8	TRAPAING TROS RESERVOIR	350					
9	Pram Kumpheak	635	Kampong Cham				
10	O Kamprok	320					

Annex 5. Next Quarterly Activities and Budget Workplan (April – June 2021)

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
	CS1, PIC							
	Conduct Baseline Survey			x	x	x	26,000	
	Recruit Junior Database Operator			x			16,000	
	Produce Monthly report			x	x	x	0	
	Produce quarterly report.					x	0	
	Conduct monthly meeting			x	x	x	0	
	Assist in conduction of PSC meeting					x	500	
	Develop PPMS						0	
	CS1, Gender							
	N/A							Waiting to get response from PPIUs
	CS1, Social Safeguard Progress for Irrigation, Agricultural and road subprojects							
A	To identify the categories classification of all the remaining subprojects with GDR representatives To finish one DDR for Takeo 2 irrigation subprojects Get the DMS data for Tboung Khmum 1 irrigation subproject from GDR Start new DMS for Kampot 1 irrigation subproject led by GDR Set the alignment pegging for 2 irrigation subprojects, 1 in	Oum Sith CS1/PIC Social Safeguards Specialist	MoWRAM	The activities plan for 1 st point and also the 5th point in Column 2 will be carried out within this month The training on	The four points will be carried out in May		1,500	Estimated budget will be proposed for pegging and demarcation for two Category B subprojects of the irrigation

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
	Takeo and another one in Kampot to reconfirm the category classification, this will require some budget			social safeguards will be carried out in late April 2021 (this training will be provided to all related PPIU of the four provinces, but two provinces will be first provided				
B	To identify the categories classification of all the remaining subprojects with GDR representatives	Oum Sith	MAFF	Will be carried out within this month				
C	To finish the LARP of Takeo 2 road subprojects To identify the categories classification of all the remaining subprojects with GDR representatives	CS1/PIC Social Safeguards Specialist	MRD	The second point in column 2 will be carried out within this month		the first point will be carried out by this month		
	CS1, Environmental and Climate Change							

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
	Continue to work on the revising IEE/EMP report for irrigation subprojects (P3) (Prey Kdouch and Kraing Empil) in Takeo province once received the second comments of ADB.	Mao Vanchann, ENV-CC/CS1	MoWRAM		x			First comments from ADB
	Working on the first drafting IEE/EMP report for irrigation subprojects (P4, P5 and P6) in Kampot, Takeo and Kampong Cham.	Mao Vanchann, ENV-CC/CS1	MoWRAM			x		
	Conduct the environmental monitoring and public consultation meeting for irrigation subprojects	Mao Vanchann, ENV-CC/CS1	MoWRAM		x	x		
	Continue to work on the revising IEE/EMP report for subprojects in MAFF once received the second comments of ADB.	Mao Vanchann, ENV-CC/CS1	MAFF			x		Depending on receiving the comment from ADB
	Conduct the Zoom training on Environmental Assessment and Review Framework (EARF) Procedures for Screening and Assessing the Environmental Impacts (IEE).	Mao Vanchann, ENV-CC/CS1	MAFF	x				The proposal of training was submitted for an approval
	Conduct the environmental monitoring and public consultation meeting for	Mao Vanchann, ENV-CC/CS1	MAFF					It will conduct during the subproject

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
	irrigation subprojects.							implementation
	Continue to work on the revising IEE/EMP report for rural road subprojects (P3) in Kampong Cham province	Mao Vanchann, ENV-CC/CS1	MRD	x				First comments from ADB
	Continue to work on the finalized IEE/EMP report for rural road subprojects (P1) in Kampot province	Mao Vanchann, ENV-CC/CS1	MRD		x			
	Working on the first drafting IEE/EMP report for rural road subprojects (P5, P6, P7 and P8) in Kampot, Takeo, Kampong Cham and Tboung Khmum province.	Mao Vanchann, ENV-CC/CS1	MRD			x		
	Conduct the environmental monitoring and public consultation meeting for irrigation subprojects.	Mao Vanchann, ENV-CC/CS1	MRD					It will conduct during the subproject implementation
	CS2							
1	Output 1: Critical agribusiness value chain infrastructure improved and made climate resilient.							
2	Activity # 1.e: Strengthening infrastructure for agriculture quality and safety testing at NAL			x	x	x		
3	Sub-Act # 1: Lab-renovation and green house	Vong Sophorn		x	x	x	80,800	

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
		Mak Chanratana						
4	Sub-Act # 2: Laboratory reconfiguration & equipment assessment	Vong Sophorn Mak Chanratana					9,000	
5	Sub-Act # 2: Staff training	Vong Sophorn		x	x		69,300	
6	Activity 1.f: Renewable energy for value chain improvement							
7	Sub-Act # 2: Small group training, village meeting to promote biogas plant and compost hut	Phuong Dara BS Specialist/ PPIU		x	x	x	31,850	
8	Output 2: Climate Smart Agriculture and Agribusiness Promoted							
9	Activity 2.1: Deploying climate resilient varieties							
10	Sub-Act # 1: On-farm adaptive trial and demonstration preparation	CARDI/PPIUs	90	x	x	x	8,100	If annual budget officially approved and CARDI signed contract with IRRI
	Sub-Act # Strengthening Capacity in Climate Friendly							
	TOT training on CSR, CSA for GDA and PPIUs staff on CSA and CSA for rice, Cassava, and Maize	GDA	2	x	x		62,000	If annual budget officially approved
	Farmer training on CSA, SRP	PPIUs	20	x	x	x	30,000	If annual budget

1	2	3	4	5	6	7	8	0
Code Number	Names of Outputs/Activities/ Sub-Activities)	Responsible staff name	Unit	Planned Narrative (X)			Budget planned (USD)	Others
				April	May	June		
	on rice, cassava and maize							officially approved
	TOT training for GDA and PPIUs staff on CamGAP	GDA	1	x	x		8000	If annual budget officially approved
	Training for farmers on CSA, SRP, and CamGAP	PPIUs	20	x	x	x	10,000	If annual budget officially approved
	TOT training for GDA staff and PPIUs teams on BDS, Farm Mechanization	GDA	5	x	x		50,000	If annual budget officially approved
	Training for farmers Coop on BDS and farmer groups on farm mechanization and conservation agriculture	PPIUs/GDA	10	x	x	x	15,000	If annual budget officially approved
	Output 3: Enabling environment for climate smart agri-business enhanced							
	Activity 1: Policy and standards development							
	Technical meeting on policies study and formation (PPP-initiative agribusiness policy, Agribusiness policy, CSA policy, Contract farming inclusive agribusiness policy, national policy and standards of bio-digester	DPS/MAFF	3	x	x	x	31,000	If annual budget officially approved
	Hiring consultant for policies study and drafting	DPS/MAFF		x	x	x	70,000	If annual budget officially approved and procurement endorsed by ADB

Annex 6. OVERVIEW GENDER ACTIVITIES of CS1 Social Development and Gender Consultants of Annual Workplan 2021

Table 34. OVERVIEW GENDER ACTIVITIES of CS1 Social Development and Gender Consultants of Annual Workplan 2021

GENDER OBJECTIVE	Indicators from PAM	ACTIVITIES	
		2020	2021
Output 1: Critical agribusiness value chain infrastructure improved and made climate resilient			
1.1 Ensure critical agribusiness value chain infrastructure is responsive to the needs of women and men	1.1.1 (i) Women are 40% of participants– aggregate basis	Still mapping out woman needs for the various value chain infrastructures	Will engage in detailed discussions with FWN and PIUS to agree on the woman needs and discuss with the design engineers
	A1.1.1 (ii) At least 50,000 females benefiting from rehabilitated climate resilient irrigation and water management systems	No specific activities implemented	Develop quantitative measuring system together with new M&E team
1.2 Enhance income generating opportunities for women	1.2.1 At least 25% of workdays created will be filled by women disaggregated by skilled/unskilled and type of work	Civil works only started in 1 scheme	Will be implemented in all CS contracts
	1.2.2 At least 30% women FWUC members developed capacity to operate and maintain irrigation schemes.	FWUC formation only started in 4 irrigation schemes	Will implement in all 2021 schemes
1.3 Increase the uptake of bio digesters	1.3.1 At least 40,000 women (or 50% of total beneficiaries) are beneficiaries of bio digesters and compost huts installed	Woman were prioritized in selection of beneficiaries	Will continue
	1.3.2 Number and percentage of women active agents	No specific activities implemented	Agents will be identified
Output 2: Climate smart agriculture and agribusiness promoted			
2.1 Strengthen women farmers’ (individual and	2.1.1 Number and % of women farmers involved in selection of crop varieties	No specific activities implemented	

member of cooperatives) involvement along climate- friendly agribusiness value chains	2.1.2(1) Women are 40% of total participants (aggregate basis) or at least 16,000 women farmers are trained in CSA and agribusiness development skills (Woman were prioritized in selection of beneficiaries	Will continue
	2.1.2 (2): (i) Number and percentage of women farmers trained in each event; over the baseline (baseline: 0).	Woman were prioritized in selection of beneficiaries	Will continue
	2.1.2 (2) (ii) women represent 40% of increased labor pool of individuals who can operate agricultural machinery	No workshop construction yet	
	2.1.3 (i) Number and type of activities conducted;	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
	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	Woman were prioritized in selection of beneficiaries	Will continue
	2.1.4 Practical solutions identified and integrated in the project.	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
2.2 Ensure female staff benefit from capacity-building activities related to climate- friendly agribusiness value chains	2.2.1 25% at national level and 20% at local levels women participants (aggregate basis)	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
Output 3: Enabling environment for climate friendly agribusiness enhanced			
3.1 Institutionalize gender mainstreaming in the climate- friendly agribusiness value chains sector	3.1.1 Report prepared with clear recommendations based on detailed gender analysis of the 4 value chains.	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
	3.1.2 Key recommendations from gender analysis of 4 targeted value chains integrated in the Agribusiness Policy.	No activities undertaken yet	Will be undertaken preferably with Gender assessment study

	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.	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
	3.1.4 MAFF GCPSU, the sub- national Gender Focal Points (Province, District, Commune), the AC and the WFN are aware of the GAP activities	No activities undertaken yet	Will be undertaken preferably with Gender assessment study
3.2 Enhance access to green finance for women involved in agribusiness value chains	3.2.1 (i) Number and type of activities conducted;	No activities undertaken awaiting CS2 expert	Awaiting CS2 consultant to be mobilized
	3.2.1 (ii) types of communication channels and materials used;	No activities undertaken awaiting CS2 expert	Awaiting CS2 consultant to be mobilized
	3.2.1 (iii) 15 female staff in financial institutions trained in CSA lending and green finance (or 30% of total staff trained are women);	No activities undertaken awaiting CS2 expert	Awaiting CS2 consultant to be mobilized
	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;	No activities undertaken awaiting CS2 expert	Awaiting CS2 consultant to be mobilized
	3.2.1 (v) 20,000 women provided with information on climate risk sharing instruments.	No activities undertaken awaiting CS2 expert	Awaiting CS2 consultant to be mobilized
PMU MANAGEMENT	PMU to appoint safeguards officer to be responsible and accountable for gender	Provincial gender officers trained in Initial workshop in July	Will continue
	Annual work plans to implement GAP prepared	Done	Will be completed

	Gender consultants (national and international) to be recruited	National fielded October 2019, International January 2020	Fielded
	Gender consultants (national and international) building capacity of GCPS, gender focal points and PMU staff in gender analysis	In process	Will continue
	Sex disaggregated data collected and analysed	In process	Will be completed
	Regular monitoring and reporting on GAP implementation	In process	Will continue

Table 35. Budget estimate of CS1 Social Development and Gender Consultants of Annual Workplan 2021

List of the training Expenditure for GFP at the local level on Gender Mainstreaming and Child Protection and Development in Agriculture Ministry: MAFF

Province: Kampot

No.	Description	Unit	Quantity	Price	Number of days / nights	Total Price (USD)
I	Training expense					
	Snacks	Person	15	\$1.00	1	\$15.00
	Travel cost for farmer	Person	15	\$2.50	1	\$37.50
	Rent shelter a micro chair	Set	1	\$50.00	1	\$50.00
	Banner, Paper A0, Marker Pen	Set	1	\$56.00	1	\$56.00
	Copy documentation	Person	15	\$1.00	1	\$15.00
	Sub Total					\$173.50
II	Payment for staff missions					
	Provincial Project Implementation Unit (PPIU)	Person	3	\$14.00	1	\$52.00

	Commune authority	Person	1	\$14.00	1	\$14.00
Sub Total						\$66.00
Total per course						\$239.50
III	Gender mainstreaming in areas such as agriculture, Bio-digester compost huts, field day demonstrations and gender mainstreaming for WFN ACs (4 Province)					
	ACs/ WFN (year 2021 total 55 ACs in 4 provinces)	course	55	\$239.50	4	\$52,690.00

Remark: This cost estimate is only for MAFF. MOWRAM has their own budget while MRD is via a bidding process.

Annex 7. List of CS2 training course and topics proposed for bio-fertilizer and bio-pesticide

Table 36. List of CS2 training course and topics proposed for bio-fertilizer and bio-pesticide

No.	Course content	Remark
1	Isolation, Characterization, Identification and Preservation of microbial strains	
1.1	Isolation technique	Soil, part of plants and seeds
1.2	Biochemical characterization	Colony morphology, size, colour, shape, gum production and growth pattern
1.3	Molecular identification	
1.4	Preservation and storage technique of microbial strains	Short and long terms storage
2	Bioassays for Plant Growth Promoting Traits	
2.1	Solubilization of insoluble phosphate potassium and Zinc	
2.2	Nitrogen fixation	
2.3	Thiosulfate Oxidation	
2.4	Production of IAA, cytokinin, gibberellic acid, vitamins	
2.5	ACC Deaminase activity	
2.6	Siderophore Production	
2.7	Production of organic acid	
2.8	Pathogen inhibition	
2.9	Lytic enzyme production	
2.1	Early plant growth promoting trials	In vivo and in vitro conditions
2.11	Root colonization assays	
3	Mass production and formulation of microbial strains	
3.1	Mass production technique	Production of liquid bio-fertilizer in 5l bio-reactor fermentation
3.2	Type of formulation and formulation technique	1. Organic carrier materials (peat, soil, charcoal, lignite etc.) 2. Synthetic carrier materials (alginate, chitosan, arabic gum etc.)
4	Quality control of microbial products	
4.1	Quantification techniques of specific microbial inoculants	
4.2	Enumeration of microbial strains	1. Plate count 2. Selective plate count 3. Indirect ELISA

		4. Immunoblotting
		5. Sandwich ELISA
		6. Quantitative real-time PCR
4.3	Standardized specification of microbial products	
5	Guideline for quality assurance and control of microbial products	

Annex 8. List of CS1's expert mobilization and input by end of March 2021

Table 37. List of CS1's expert mobilization and input by end of March 2021

					Input Utilization (MM)							Balance Available
No:	Name	Position (As in Tech 6)	Nationality	Firm		Time Input in Person/Month-Home/Field (From Tech 6)	Jan-21	Feb-21	Mar-21	Total Utilized input up to Dec-20	MM	
1) INTERNATIONAL - KEY EXPERTS												
K-1	Dr. Willem J Van Diest	Project Management & Rural Infrastructure Specialist/Team Leader	NL	AESA	F	14.40	1.00	1.00		6.57	7.83	
					H	3.60			0.26	1.86	1.74	
K-2	Ms. Marivic Competente	Procurement Specialist	PHL	AESA	F	4.17				0.65	3.52	
					H	1.83	0.15			1.50	0.33	
K-3	Peter Deppak Aravinda Josh	Social Development and Gender Specialist	AUS	AESA	F	5.60	0.19	0.18	0.26	2.01	3.59	
					H	0.40				0.39	0.01	
K-4	Mr. Monzurul Hoq	Social Safeguards Specialist	BGD	AESA	F	7.30				-	7.30	
					H	0.70	0.35	0.07	0.06	1.16	(0.46)	
K-5	Mr. Felix Pascua	Environment and Climate Change Specialist	PHL	AESA	F	7.30				-	7.30	
					H	0.70	0.35	0.18	0.26	1.64	(0.94)	
Total - International Key Expert						46.00				15.78	30.22	
2) INTERNATIONAL - NONE KEY EXPERTS												
N-1	Mr. Praful Soni	PADC Operation and Management Specialist	PAK	AESA	F	2.00				0	2.00	
					H					0	0	

N-2	Mr. Paterno Borlagdan	Mechanised Workshop Operation and Management Specialist	PHL	AESA	F	5.84				5.2	0.64
					H	0.16				0.17	-0.01
N-3	Mr. Ruud Corssel	International Monitoring & Evaluation Specialist		AESA		2.00			0.34	0.34	1.66
Total - International None Key Expert						10.00				5.71	4.29
3) NATIONAL - KEY EXPERT											
K-6	Mr. Phai Sokheng	Project Manangement & Rural Infrastructure Specialist/Deputy Team Leader (MAFF)	CAM	SBK		30.00	1.00	1.00	1.00	14.32	15.68
K-7	Mr. Srey Heang	Project Manangement & Rural Infrastructure Specialist/Deputy Team Leader (MOWRAM)	CAM	SBK		30.00	1.00	1.00	1.00	17.23	12.77
K-8	Mr. Sopha Sovannareth	Project Manangement & Rural Infrastructure Specialist/Deputy Team Leader (MRD)	CAM	SBK		30.00	1.00	1.00	1.00	9.00	21.00
K-9	Mrs. Kol Prapey	Social Development and Gender Specialist	CAM	SBK		50.00	1.00	1.00	1.00	15.63	34.37
K-10	Mr. Oum Sith	Social Safeguards Specialist	CAM	SBK		60.00	1.00	1.00	1.00	17.18	42.82
K-11	Mr. Mao Vanchann	Environment and Climate Change Specialist	CAM	SBK		50.00	1.00	1.00	0.95	14.40	35.60
Total - National Key Expert						262.00				88.76	173.24
4) NATIONAL - NONE KEY EXPERT											
N-3	Mr. Sam Bora	Procurement Specialist MAFF	CAM	SBK		18.00				7.93	10.07
N-4	Mr. Leng Bunnara	Procurement Specialist MOWRAM	CAM	SBK		18.00	0.86	0.55	0.73	10.41	7.59
N-5	Ms. Korn Sokhim	Procurement Specialist MRD	CAM	SBK		18.00				0.00	18.00

N-6	Mr. CHHUON Mao	Financial Management Specialist PMU-MAFF	CAM	SBK		38.00	1.00	1.00	1.00	16.18	21.82
N-7	Mr. Koam Rattana	Financial Management Specialist MAFF	CAM	SBK		38.00	1.00	1.00	1.00	16.55	21.45
N-8	Ms. Chea Socheata	Financial Management Specialist MOWRAM	CAM	SBK		38.00	1.00	1.00	1.00	7.86	30.14
N-9	Mr. Thoeurn Chantha	Financial Management Specialist MRD	CAM	SBK		38.00	1.00	0.55	0.36	14.46	23.54
N-10	Kheang Sovann	Water Managemen & Irrigation Engineer Kampong Cham	CAM	SBK		28.50				0.00	28.50
N-11	Mr. Heng Sokkong	Water Managemen & Irrigation Engineer Tboung Khmum	CAM	SBK		28.50	1.00	1.00	1.00	5.82	22.68
N-12	Mr. Soth Chhongheng	Water Managemen & Irrigation Engineer Kampot	CAM	SBK		28.50	1.00	1.00	1.00	9.00	19.50
N-13	Mr. Din Sovathara	Water Managemen & Irrigation Engineer Takeo	CAM	SBK		28.50				0.00	28.50
N-14	Mr. Chou Vong	Cooperative Storage & Rural Roads Engineer Kampong Cham	CAM	SBK		34.00	1.00	1.00	1.00	15.91	18.09
N-15	Mr. Vong Sophea	Cooperative Storage & Rural Roads Engineer Tboung Khmum	CAM	SBK		34.00				0.00	34.00
N-16	Mr. Bo Sarin	Cooperative Storage & Rural Roads Engineer Kampot	CAM	SBK		34.00				0.00	34.00
N-17	Chou Vy	Cooperative Storage & Rural Roads Engineer Takeo	CAM	SBK		34.00	1.00	1.00	1.00	9.00	25.00
N-18	Mr. Prum Vothana	National Monitoring & Evaluation Specialist	CAM	SBK		12.00			1.00	1.00	11.00
	Total- NONE Key Expert- National Expert					468.00				114.12	343.81

Annex 9. List of CS2's expert mobilization and input by end of March 2021

Table 38. List of CS2's expert mobilization and input by end of March 2021

POSITION			EXPERT NAME		STATUS				Remarks
			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 Commercialization 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

POSITION			EXPERT NAME		STATUS				Remarks
			Original	Replacement	Not Mobilized	Mobilized	Resigned	Input to date	
									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			√			

POSITION			EXPERT NAME		STATUS				Remarks
			Original	Replacement	Not Mobilized	Mobilized	Resigned	Input to date	
14	NK-4	Photo-voltaic Specialist	No Name		√				CV of Koet Munyphadkey proposed for this position.
15	NK-5	Green Financing Specialist	No name		√				CV of Mr. Lor Sokuntheary proposed for this position.
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.
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 but so far no 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.

POSITION			EXPERT NAME		STATUS				Remarks
			Original	Replacement	Not Mobilized	Mobilized	Resigned	Input to date	
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.

Annex 10. CS5 Inputs during First quarter 2021

Table 39. CS5 Inputs during First quarter 2021

					Input Utilization (MM)					
					2021					Balance Available
No:	Name	Position (As in Tech 6)	Nationality	Firm	Time Input in Person/Month- Home/Field (Original Contract)	Jan-21	Feb-21	Mar-21	Total Utilized input up to Mar-21	MM
KEY EXPERTS -INTERNATIONAL										
01	Mr.Dinesh Kumar Shrestha	Irrigation Design Engineer And Team (Deputy) Leader	Nepalese	RDC	20.00	0.27	0.32	0.41	11.82	8.18
02	Dr. Martin Mautner Markhof	Agriculture Economist	Austrian	RDC	5.00	0.09	0.09	0.05	4.34	0.66
NON-KEY EXPERT- INTERNATIONAL										
08	Mr. K D W Nandalal	Hydrologist	Sri Lankan	RDC	2.00				0.73	1.27
09	Mr. Tissa Ariyaratne	Social Safegurad Specialist	Sri Lankan	RDC	2.00				0.14	1.86
10	Ms. Anusha Kasige	Environmental Specialist	Sri Lankan	RDC	2.00				0.09	1.91
Total -Key Experts -International Experts					31.00	0.36	0.41	0.46	17.12	13.88
KEY EXPERT- NATIONAL										
03	Mr. KHIN Toda	IE/DTL	Cambodia	CAM- CSTR	20.00	1.00	1.00	1.00	16.86	3.14
04	Mr. KLEY Kimsot	Agriculture Ecomonic	Cambodia	CAM- CSTR	6.00				5.55	0.45
05	Ms. SAO Sambathmorakath	Envirl Safeguards Spec	Cambodia	CAM- CSTR	10.00	0.50	0.50	0.50	7.21	2.79

06	Mr. VIN Sa/Mr.Sam Sothearo	Road Design Engineer	Cambodia	CAM-CSTR	20.00	1.00	1.00	1.00	15.73	1.27
07	Mr. Oum Sith/Mr. Phouv Narin	Resettlement Specialist	Cambodia	CAM-CSTR	6.00	0.18			8.50	0.50
NON-KEY EXPERT-NATIONAL										
11	Mr. Chhit Kimhor	Hydrologist	Cambodia	CAM-CSTR	4.00				3.13	0.87
12	Mr. HY Sopheap	Agriculturalist	Cambodia	CAM-CSTR	6.00	0.23	0.45	0.23	5.19	0.81
13	Mr. Chhoun Sovannara	AutoCAD Specialist - 1	Cambodia	CAM-CSTR	10.50				14.00	1.50
14	Mr. MAO Phearun	AutoCAD Specialist - 2	Cambodia	CAM-CSTR	10.50				12.27	3.73
15	Ms. DIN Chakriya/Nhoem Sunday	AutoCAD Specialist - 3	Cambodia	CAM-CSTR	10.50	1.00	1.00	1.00	8.00	2.50
16	Mr. KHEIV Sengsoksamnang	AutoCAD Specialist - 4	Cambodia	CAM-CSTR	10.50				0.00	0.00
17	Ms. HEP Sreyleak	Social Develop& Gender	Cambodia	CAM-CSTR	4.00				0.00	4.00
18	Mr.Roeum Sophanna/Mr. Choun Serey Manith	Procurement Specialist	Cambodia	CAM-CSTR	4.00				2.82	1.18
Total -Key Experts -National Experts					122.00	3.91	3.95	3.73	99.26	22.74
PROVISIONAL SUMS										
19	Mr.Im Daro	AutoCAD Specialist	Cambodia	CAM-CSTR		1.00	1.00	1.00	8.86	1.14
20	Mr.Samoeun Keo	AutoCAD Specialist	Cambodia	CAM-CSTR		1.00	1.00	1.00	8.55	1.45
21	Mr.Tean Meas	AutoCAD Specialist	Cambodia	CAM-CSTR		1.00	1.00	1.00	8.00	2.00
22	Mr. Lorn Sokly	AutoCAD Specialist	Cambodia	CAM-CSTR		1.00	1.00	1.00	8.00	2.00
24	Mr. KONG Naosundaya	Asst.Irrigation Design Engineer	Cambodia	CAM-CSTR		1.00	1.00	1.00	8.00	4.00

25	Mr. HEM Motha/Lom Odom	Asst.Road Design Engineer	Cambodia	CAM-CSTR		1.00	1.00	1.00	7.22	4.78
26	Mr. Sean Sitha	Asst.Environment Safeguards	Cambodia	CAM-CSTR		0.50	0.55	0.50	2.60	7.40
27	Mr. Bun San	Asst.Social Safeguards	Cambodia	CAM-CSTR		0.73	1.00	0.59	3.37	6.63
Total- Key Expert- National Expert						7.23	7.55	7.09	54.60	29.40

Annex 11. CS2's Planned activities for next quarter

Table 40. CS2's Planned activities for next quarter

No	Activities & events	Date (DD/MM/2021)	Total participants				
			Province names	Implementers names	Total	Female	Marks
1	1 Orientation meeting on annual workplan and budget to PPIUs	Apr	PMU	CS2/PMU	50	30%	If annual budget officially approved
2	Re-design Lab-room renovation including re-assessment of biotech-lab equipment and biotech-lab infrastructure, organize technical training for lab staff	Apr, May, Jun	GDA/NAL	Specialist/NAL staff			If annual budget officially approved
3	4 training events deliver to FWUCs boards and their members Continuing FWUCs establishment	Apr, May, Jun	TAK, KPT, KPC, TBK	FWUC Specialist	120	30%	If annual budget officially approved
4	8 TOT training to GDA staff, and PPIUs staff on SRP, CSA, CamGAP, BDS, FM	Apr, May	GDA	GDA	80	30%	If annual budget officially approved
5	20 training events to farmers on CSA, SRP, CamGAP, FM&CA, and BDS for farmers groups and AC's board and their members	Apr, May, Jun	TAK, KPT, KPC, TBK	NTC Specialist/ PPIUs	500	30%	If annual budget officially approved
6	20 training events on biogas plant and compost hut program to beneficiaries	Apr, May, Jun	TAK, KPT, KPC, TBK	PPIUs	500	30%	If annual budget officially approved
7	3 technical meeting on policies study and formation (PPP-initiative agribusiness policy, Agribusiness policy, CSA policy, Contract farming inclusive agribusiness policy, national policy and standards of bio-digester	Apr, May, Jun	MAFF	PPP Specialist/ DTL	30	30%	If annual budget officially approved
8	1 Conduct crop centric forum	Apr, May, Jun	TAK, KPT,	Dy Kunthea	50	30%	If annual budget officially

	Conduct feasibility study on potential ACs for the project support in 2022		KPC, TBK	PPP Specialist	200	30%	approved
9	10 demos on cassava seed preparation 90 demos on rice seed preparation	Apr, May, Jun	KPC, TBK TAK, KPT, KPC, TBK	Heng Sophat FD Specialist			

Annex 12. Financial Report January -March 2021

Table 41.Consolidated Financial Report

CFAVC-Climate-Friendly Agribusiness Value Chains Sector Project				
ADB Loan Numbers: L 3661-CAM (COL), L8346-CAM(EF), Grant No. 0579-CAM(EF)				
Quarterly Financial Report for the quarter endin				31/Mar/2021
Content:				
	CONSOLIDATED			
1.	Tables: Sumary of Disbursement by Sources of Fund of PMUs			
2.	Summary of Expenditures by PMUs:			
	ANNEX:			
3.	Summary of Expenditures of PUM-MAFF			
	3.1	Statement of Expenditure by category		
	3.2	Statement of Expenditures by Accounts		
	3.3	Stament of Uses of Fund		
	3.4	Statement of Comparison of Budget and Actual Expenditure		
4.	Summary of Expenditures of PMU-MOWRAM			
	4.1	Statement of Expenditure by category		
	4.2	Statement of Expenditures by Accounts		
	4.3	Stament of Uses of Fund		
	4.4	Statement of Comparison of Budget and Actual Expenditure		
5.	Summary of Expenditures of PMU-MRD			
	5.1	Statement of Expenditure by category		
	5.2	Statement of Expenditures by Accounts		
	5.3	Stament of Uses of Fund		
	5.4	Statement of Comparison of Budget and Actual Expenditure		

Table 42. Summary of Disbursement by sources of Fund of PMU

I. Tables: Summary of Disbursement by Sources of Fund of PMUs

Table 9: Disbursement ADB Loan Nr. 3661-CAM

For the period ending:

31/Mar/2021

No.	Expenditure Item	Total Amount Allocated for ADB Financing		Disbursement (\$)			Total Disbursement (\$)
		Category	Subcategory	PMU-MAFF	PIU-MOWRAM	PIU-MRD	
1	Civil Works	67,630,590.00					-
1A	Irrigation and Roads		60,537,190.00	-			-
1B	Warehouses and Laboratory		5,762,800.00	-			-
1C	Other Infrastructure		1,330,600.00	-			-
2	Equipment, Material, Goods, and Project Implementation Services	16,757,700.00		3,313,297			3,313,297
3	Incremental Operating Costs	4,187,100.00		270,982	-	54,343.42	325,325
4	Interest Charges	1,424,610.00					-
	Advance			360,000	448,000	100,000	908,000
	Total	90,000,000		3,944,279	448,000	154,343	4,546,622
							5.1%

Table 43. Disbursement of GCF Loan 8346-CAM

Table 10: Disbursement GCF Loan 8346-CAM							
For the period ending:							31/Mar/2021
No.	Expenditure Item	Total Amount Allocated for GCF Financing	Disbursement (\$)			Total Disbursement (\$)	
			PMU-MAFF	PMU-MOWRAM	PMU-MRD		
1	Civil Works	9,963,900.00				-	
2	Irrigation and Roads	36,100.00				-	
	Advance					-	

	Total	10,000,000.00	-	-	-	-	
						0.0%	

Table 44. Disbursement of Grant No. 0579-CAM

Table 11: Disbursement Grant No. 0579-CAM

For the period ending:

31/Mar/2021

No.	Expenditure Item	Total Amount Allocated for GCF Financing		Disbursement (\$)			Total Disbursement (\$)
		Category	Subcategory	PMU-MAFF	PMU-MOWRAM	PMU-MRD	
1	Civil Works	11,263,860.00					-
1A	Irrigation and Roads		8,295,660.00				-
1B	Warehouses and Laboratory		114,050.00				-
1C	Biogas Plants and Compost Huts		2,854,150.00				-
2	Equipment, Studies, Surveys, and Project Implementation Services	10,785,430.00					-
3	Training, Workshops and Demonstration	7,456,780.00		306,867	-		306,867
4	Incremental Operating Costs	493,930.00			352,000		352,000
	Advance			340,000			340,000
Total		30,000,000		646,867	352,000	-	998,867

3.3%

Table 45. Disbursement of RGC

Disbursement RGC

For the period ending:

31/Mar/2021

No.	Expenditure Item	Total Amount Allocated for RGC Financing		Disbursement (\$)			Total Disbursement (\$)
		Category	Subcategory	PMU-MAFF	PMU-MOWRAM	PMU-MRD	
1	Civil Works						-
1A	Irrigation and Roads						-

1B	Warehouses and Laboratory						-
1C	Biogas Plants and Compost Huts						-
2	Equipment, Material, Goods, and Project Implementation Services						-
3	Incremental Operating Costs			106,248	37,530	34,780	178,558
4	Interest Charges						-
	Advance			150,000	40,000	51,370	241,370
	Total	7,380,000.00		256,248	77,530	86,150	419,928

5.7%

Table 46. Overall Summary

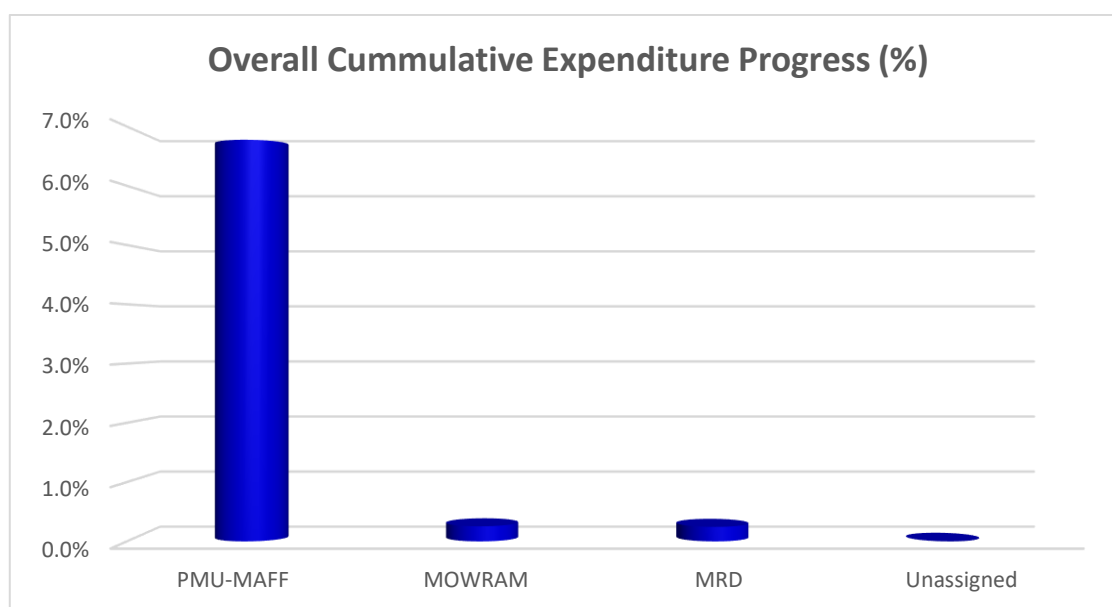
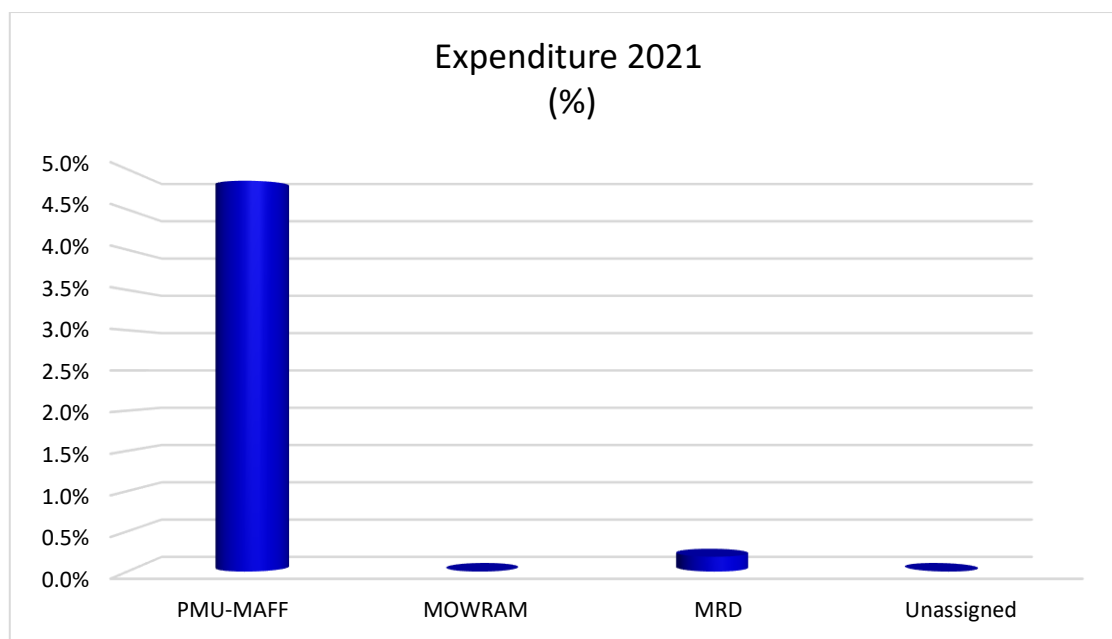
Overall Summary:	
Total Allocation	137,380,000
Total Advance	1,489,370
Disbursement	4,476,047
Total Disbursement	5,965,417
Overall %	4.3%

Table 47. Summary of Expenditure by PMU

2. SUMMARY OF EXPENDITURES BY PMUs:

For the period ending: 31/Mar/2021

EAs/ IAs	Budget (Allocation)	2021 Annual Budget	Year to date Expenditures	Accumulative Expenditures	Overall Expenditures Rate %	
			31/Mar/2021	31/Mar/2021	2021	Overall
PMU-MAFF	56,343,840	17,157,020	833,431.3	3,817,562.1	4.9%	6.8%
MOWRAM	44,181,130	9,456,870.0	-	112,590.0	0.0%	0.3%
MRD	36,341,680	6,493,932.7	11,998.3	89,123.4	0.2%	0.2%
Unassigned	513,350	-	-	-	0.0%	0.0%
TOTAL	137,380,000	33,107,823	845,430	4,019,276	2.6%	2.9%

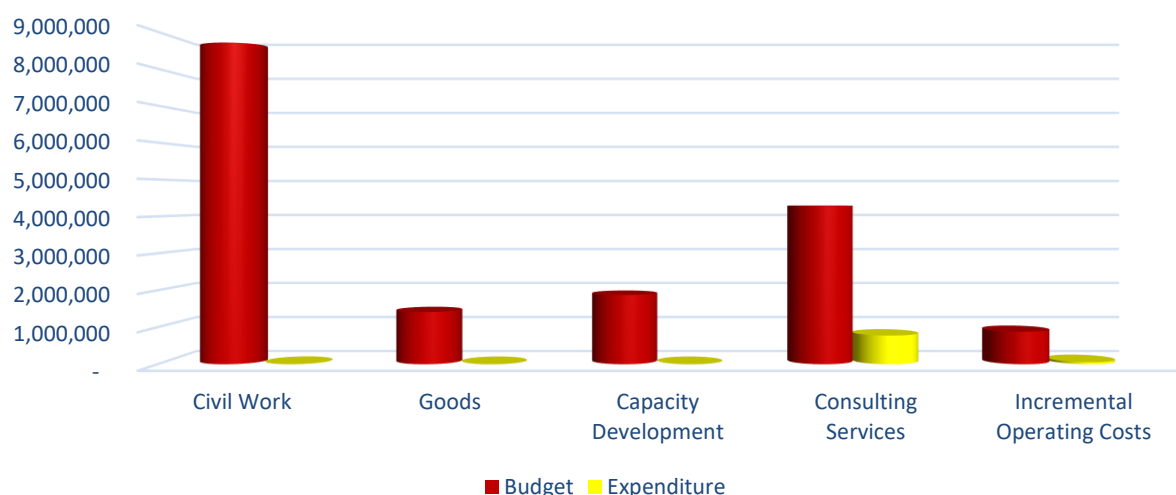


EA: PMU-MAFF										
2. Statement of Expenditure by Accounts										
Report for the Quarter Ending:									31/Mar/2021	
Cumulative Since Effectiveness Date										
Expense		ADB-L3661	L-8346	G-0579	RGC	TOTAL				
6 · Expense/ Project Expenditures										
61 · Investment Costs										
6101 · Civil Works										
610140 · Biogas Plants and Compost Huts		0.00		2,985.00	0.00	2,985.00				
Total 6101 · Civil Works		0.00		2,985.00	0.00	2,985.00				
6102 · Equipment										
610220 · Office Equipment		196,418.00		0.00	0.00	0.00				
Total 6102 · Equipment		196,418.00		0.00	0.00	0.00				
6103 · Vehicles										
610300 · Vehicles – 4 Wheels Drive		556,750.00		0.00	0.00	0.00				
610310 · Motorcycles		78,114.00		0.00	0.00	0.00				
Total 6103 · Vehicles		634,864.00		0.00	0.00	0.00				
6106 · Training, Workshops & Demos										
610600 · Training, Workshops & Demos		0.00		306,867.49	0.00	306,867.49				
Total 6106 · Training, Workshops & Demos		0.00		306,867.49	0.00	306,867.49				
6109 · Consulting Services										
610900 · PIC - FS & Detailed Engineering		646,958.40		0.00	0.00	0.00				
610910 · PIC - Capacity Building and CSA		655,482.26		0.00	0.00	0.00				
610920 · PIC - Project Management		789,767.22		0.00	0.00	0.00				
Total 6109 · Consulting Services		2,092,207.88		0.00	0.00	0.00				
6110 · Incremental Operating Cost										
61100 · Project Staff										
611001 · Project Staff-PMU		15,980.00		0.00	49,230.00	49,230.00				
611002 · Project Staff-GDA		5,350.00		0.00	32,400.00	32,400.00				
611003 · Project Staff-GDAHP		1,960.00		0.00	19,440.00	19,440.00				
611004 · Project Staff-CARDI		2,080.00		0.00	19,440.00	19,440.00				
611005 · Project Staff-PPIU-KPT		8,585.00		0.00	18,605.00	18,605.00				
611006 · Project Staff-PPIU-TAK		8,445.00		0.00	18,605.00	18,605.00				
611007 · Project Staff-PPIU-KCM		8,545.00		0.00	15,905.00	15,905.00				
611008 · Project Staff-PPIU-TBK		8,380.00		0.00	18,605.00	18,605.00				
Total 61100 · Project Staff		59,325.00		0.00	192,230.00	192,230.00				
61120 · Office Operations & Support										
611200 · Vehicle Fuel		27,447.52		0.00	0.00	0.00				
611201 · Vehicle maintenance		3,711.01		0.00	0.00	0.00				
611202 · Vehicle rental		30,000.00		0.00	0.00	0.00				
611203 · Per Diem & Travel costs		141,734.28		0.00	0.00	0.00				
611204 · Office & Reproduction Suppl		16,733.29		0.00	0.00	0.00				
611205 · Office maintenance & Utilitie		7,847.50		0.00	0.00	0.00				
611206 · Communications fees		8,536.00		0.00	0.00	0.00				
611207 · Photocopy & Printing		884.00		0.00	0.00	0.00				
611208 · Ads. Charges		3,175.00		0.00	0.00	0.00				
611209 · Translation fees		432.00		0.00	0.00	0.00				
611210 · Bank Charges		35.00		0.00	0.00	0.00				
611211 · Meeting/ Workshop/ Semina		33,455.80		0.00	0.00	0.00				
611213 · General Meeting		4,402.03		0.00	0.00	0.00				
611214 · Annual Road Tax Fees		0.00		0.00	5,921.29	5,921.29				
611215 · Contractual Staff fee-PMU-M		28,150.00		0.00	0.00	0.00				
611216 · Contractual Staff fee-PPIU-TA		5,050.00		0.00	0.00	0.00				
611217 · Contractual Staff fee-PPIU-KF		5,050.00		0.00	0.00	0.00				
611218 · Contractual Staff fee-PPIU-KC		5,050.00		0.00	0.00	0.00				
611219 · Contractual Staff fee-PPIU-TE		5,050.00		0.00	0.00	0.00				
Total 61120 · Office Operations & Support		326,743.43		0.00	5,921.29	332,664.72				
Total 6110 · Incremental Operating Cost		386,068.43		0.00	198,151.29	584,219.72				
Total 61 · Investment Costs		3,309,558.31		309,852.49	198,151.29	3,817,562.09				
Total 6 · Expense/ Project Expenditures		3,309,558.31		309,852.49	198,151.29	3,817,562.09				

EA: PMU-MAFF					
3. Statement of Uses of Fund					
Cummulative since Effectiveness Date					
Report for the Quarter Ending:					31/Mar/2021
	L-3661	L-8346	G-0579	RGC	TOTAL
1. Received					
Received from ADB L3661	850,086.67				850,086.67
Received from ADB L8346					-
Received from ADB G0579			340,000.00		340,000.00
Received from RGC Contribution				256,247.58	256,247.58
Received from ADB L3661-Direct Payment	3,221,602.83				3,221,602.83
Received from ADB L8346-Direct Payment					-
Received from ADB G0579-Direct Payment					-
					-
Total Received	4,071,689.50	-	340,000.00	256,247.58	4,667,937.08
2. Uses of Fund					
1. Civil Work	-		2,985.00		2,985.00
2. Equipment	196,418.00				196,418.00
3. Vehicles	634,864.00				634,864.00
4. Materails & Supplies	-				-
5. Studies & Surveys	-				-
6. Training, Workshop & Demonstration	-		306,867.49		306,867.49
7. Policies & Standards	-				-
8. Monitoring & Evaluation	-				-
9. Consulting Services	2,092,207.88				2,092,207.88
10. Incremental Operating costs	386,068.43			198,151.29	584,219.72
Interest Charges During Implementation	-	-	-	-	-
Total Uses of Fund	3,309,558.31	-	309,852.49	198,151.29	3,817,562.09
3. Closing Cash Balance					
CASH IN BANK	205,380.34	-	1,068.49	58,096.29	264,545.12
PETTY CASH FUND	1,000.00	-	-	-	1,000.00
Total Closing Cash Balance	206,380.34	-	1,068.49	58,096.29	265,545.12
4. Financing Plan vs Uses of Fund					
Financiers	Financing Plan	Expenditures	Expenditure Rate %	Disbursement	Disbursement Rate %
L-3661		3,309,558.31		4,071,689.50	
L-8346		-		-	
G-0579		309,852.49		340,000.00	
RGC		198,151.29		256,247.58	
TOTAL	56,343,840	3,817,562	6.8%	4,667,937	8.3%

EA: PMU-MAFF				
4. Statement of Comparison of Budget and Actual Expenditure				
For the Quarter Ending:				31/Mar/2021
Description	Period from 01 January 2021 to 31 March 2021			Budget Vs Actual Expenditures (%)
	Budget	Actual	Diff.	
	US\$	US\$	US\$	
Civil Work	8,704,494	2,985	8,701,509	0.0%
Goods	1,412,950	-	1,412,950	0.0%
Capacity Development	1,874,225	-	1,874,225	0.0%
Consulting Services	4,285,393	776,232	3,509,161	18.1%
Incremental Operating Costs	879,956	54,214	825,742	6.2%
	17,157,017	833,431	16,323,586	4.9%

Comparison of Budget Vs Actual Expenditure 2021



Statement of budget vs actual expense: For the Quarter Ending: 31/Mar/21									
Description	Period from 1 January 2021 to 31 December 2021			31-Dec-20			Cumulative as at 31 December 2021		
	Budget	Actual	Diff	Budget	Actual	Diff	Budget	Actual	Diff
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
Investment									
Civil Work	8,704,494	2,985	(8,701,509)	3,246,180	-	(3,246,180)	11,950,674	2,985	(11,947,689)
Goods	1,412,950	-	(1,412,950)	1,088,550	831,282	(257,268)	2,501,500	831,282	(1,670,218)
Capacity Development	1,874,225	-	(1,874,225)	1,270,210	306,867	(963,343)	3,144,435	306,867	(2,837,568)
Consulting Services	4,285,393	776,232	(3,509,161)	3,816,750	1,315,976	(2,500,774)	8,102,143	2,092,208	(6,009,935)
Incremental Operating Costs	879,956	54,214	(825,742)	450,960	530,005	84,045	1,330,916	584,220	(746,696)
	17,157,017	833,431	(16,323,586)	9,872,650	2,984,131	(6,888,519)	27,029,667	3,817,562	(23,212,105)
Reconciled: Correct									

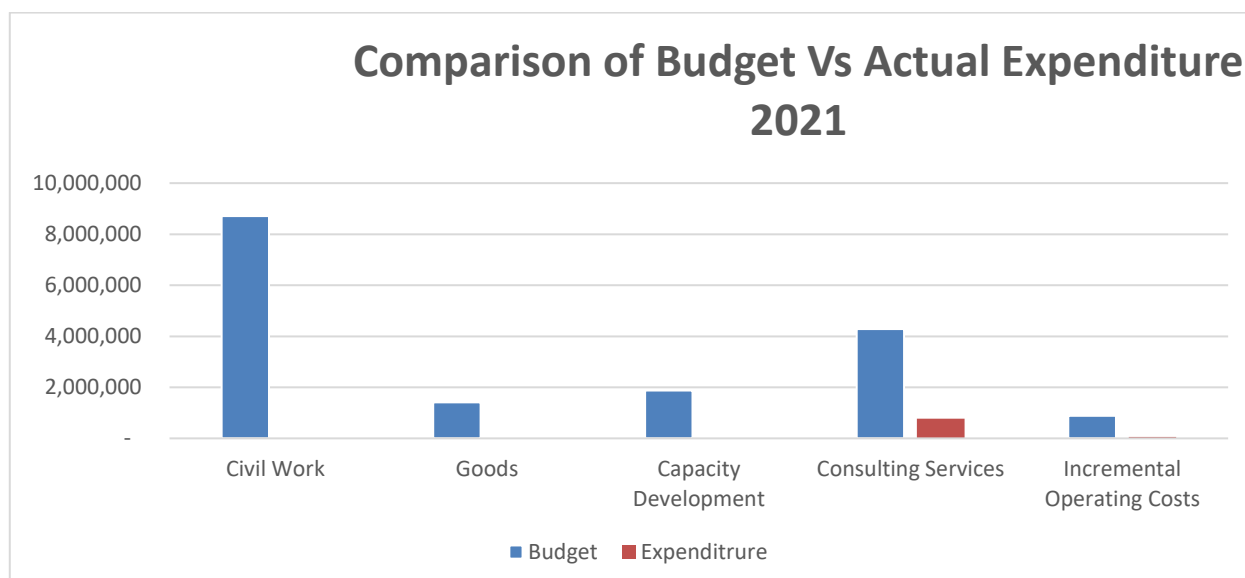


Table 48. Statement of comparison of Budget and Actual expenditure, Q5 2021-MRD

Statement of Comparison of Budget and Actual Expenditure				
For the Quarter Ending	31/Mar/2021			
Decription	Year to date			Budget & Accutual Exp.,
	Budget	Actual	Diff.	
	US\$	US\$	US\$	(%)
1. Civil Work	6,328,273.01	-	6,328,273	0%
2. Equipment	0	-	-	0
3. Vehicles	0	-	-	0%
4. Materails & Supplies	0	-	-	0%
5. Studies & Surveys	0	-	-	0%
6. Training, Workshop & Demonstration	0	-	-	0%
7. Policies & Standards	0	-	-	0%
8. Monitoring & Evaluation	0	-	-	0%
9. Consulting Services	0	-	-	0%
10. Incremental Operating costs	142,224.00	11,998	130,226	8%
Salary supplementary allowance	23,436.00	-	23,436	0%
	6,493,933	11,998	6,481,935	0%

PMR 1: Project Monitoring Report: Uses of Funds By Category for the Quarter Ending: 31/Mar/2021								
(Quarterly Report in USD)								
Category	Budget (Allocation) US\$	Committed US\$	Actual Previous Exp. US\$	Actual Expenditures			Balance US\$	Expenditures Rate %
				Current 1Q 2021	Year to date 1Q 2021	Cumulative to date 1Q 2021		
	(1)	(2)	(3)	(4)	(5)	(6)=(3)+(4)	(7)=(1)-(2)-(6)	(8) = (6)/(1)
A. Investment Costs								
1. Civil Work	37,349,607	-		-	-	-	37,349,607	0.0%
2. Equipment					-	-	-	0.0%
3. Vehicles					-	-	-	0.0%
4. Materials & Supplies					-	-	-	0.0%
5. Studies & Surveys					-	-	-	0.0%
6. Training, Workshop & Demonstration					-	-	-	0.0%
7. Policies & Standards					-	-	-	0.0%
8. Monitoring & Evaluation					-	-	-	0.0%
9. Consulting Services					-	-	-	0.0%
10. Incremental Operating costs			77,125.15	11,998.27	11,998.27	89,123.42	(89,123)	#DIV/0!
Total Investment Costs (A)	37,349,607	-	77,125.15	11,998.27	11,998.27	89,123.42	37,260,483.75	0.2%
B. Contingencies								
1. Physical						-	-	#DIV/0!
2. Price	-			-	-	-	-	#DIV/0!
Total Cc	-	-	-	-	-	-	-	#DIV/0!
C. Financial								
1. Interest Charges During Implementation						-	-	#DIV/0!
Total Fi	-	-	-	-	-	-	-	#DIV/0!
GRAND	37,349,607	-	77,125	11,998	11,998	89,123	37,260,484	0.2%
EA/IA: MRD								

Summary of Fund Balances

Cummulative since Effectiveness Date

Report for the Quarter Ending: 31/Mar/2021					
	L-3661	L-8346	G-0579	RGC	TOTAL
Received					
Received	100,000.00			51,370.00	151,370.00
Total Received	100,000.00	-	-	51,370.00	151,370.00
Disbursed					
Disbursed	54,343.42			34,780.00	89,123.42
Total Disbursed	54,343.42	-	-	34,780.00	89,123.42
Fund Balances	45,656.58	-	-	16,590.00	62,246.58

Financing Plan vs Disbursement					
	Financiers	Financing Plan	Disbursed	Disbursement Rate %	Remarks
	L-3661		54,343.42	#DIV/0!	
	L-8346		-	#DIV/0!	
	G-0579		-	#DIV/0!	
	RGC		34,780.00	#DIV/0!	
TOTAL		-	89,123.42	#DIV/0!	