AIDE MEMOIRE

L2968 (VIE): LOW CARBON AGRICULTURE SUPPORT PROJECT

Loan Final Review Mission Viet Nam, 8-24 June 2020

I. INTRODUCTION

1. On 12 December 2012, the Asian Development Bank (ADB) approved the provision of a loan in the amount equivalent to SDR48,170,000 (US\$74 million equivalent) to the Socialist Republic of Viet Nam for the Low Carbon Agriculture Support Project (the Project). The Loan Agreement was signed on 7 March 2013 and became effective on 5 June 2013 with the original closing date was 30 June 2019. The loan closing date then was extended to 30 June 2020 on 28 June 2019.

2. The expected impact of the Project is less agriculture-related pollution, as measured by better water quality due to reduced presence of livestock waste effluence. The expected outcome is greater uptake of climate-smart agricultural waste management practices (CSAWMP), as measured by increased use of clean biogas energy and organic bio-slurry fertilizers. To attain this outcome, the Project's original outputs are: (i) expanded use of livestock waste management infrastructure; (ii) credit lines for biogas value chains (BVC); (iii) enhanced CSAWMP technology transfer; and (iv) effective project management.

3. Implementation of the various components and sub-components is being done through the executing agency (EA) - the Ministry of Agriculture and Rural Development (MARD) that is represented by the Central Project Management Unit (CPMU) of the Agricultural Projects Management Board (APMB) and 12 implementing agencies (IAs) including provincial people's committees of the 10 participating provinces (Bac Giang, Ben Tre, Binh Dinh, Ha Tinh, Lao Cai, Nam Dinh, Phu Tho, Soc Trang, Son La, and Tien Giang) and 2 financial intermediaries (FIs) that are Vietnam Bank for Agriculture and Rural Development (VBARD) and Co-operative of Vietnam (Co-opBank).

4. The project final review mission¹ (the Mission) was conducted from 8 to 19 June 2020. After the kick-off meeting with representative of APMB and CPMU in Ha Noi on 8 June 2020, the Mission visited Binh Dinh, Phu Tho and Nam Dinh provinces from 8 to 13 June 2020. The Mission met the representatives of EA and 10 IAs to: (i) review overall project implementation; (ii) review compliance of loan covenants; (iii) review implementation status of follow-up actions agreed by the last review mission in September 2019; (iv) review actual disbursements and pending payments of ADB loan and counterpart funds; (v) resolve outstanding issues; (vi) review actual achievement of project outcome and outputs; (vii) discuss how to expedite remaining disbursements to ensure final WAs will be submitted to ADB within the normal winding-up period (by 31 October 2020); provide comments helping EA to produce the borrower's project completion report (PCR); (viii) schedule PCR mission of ADB; and (ix) carry out field visits to selected demonstrations.

5. This Aide Memoire summarizes the findings of the Mission and agreements reached for the project implementation, which were discussed at the wrap-up meeting held on 24 June 2020

¹ The Mission comprised Vu Ngoc Chau, Senior project Officer (ANR)/Mission Leader and Truong Thi Minh Hue, Project Analyst. Mr. Pham Quang Phuc (Sr. Environment Officer), Ms. Dinh Kieu Oanh (Social Development Officer), Ms. Le Thi Quynh Trang (Associate Financial Management Officer), and Ms. Tran Thuy Hai (Gender Specialist) provided the inputs on their respective areas.

in Ha Noi. The agreements recorded in this Aide Memoire are subject to the approval of higher authorities of ADB and the Government. The list of key persons met is given as Appendix 1.

II. MAIN FINDINGS AND ISSUES

A. Overall Project Implementation Progress

6. The project is being rated "on track". As of 31 May 2020, overall project implementation progress is estimated to be 88% based on weighted progress of project components (details are given in Appendix 2) against the ADB elapsed loan period of 99%. The overall cumulative spending of the project funds (including the ADB loan and counterpart funds) was \$31.412 million, which is equivalent to 84% of the total project funding requirements of \$37.596 million (details are given in Appendix 3).

7. For the ADB loan, the cumulative contract awards and disbursements were \$31.807 million and \$29.086 million, respectively, which are equivalent to 85% and 78% of the net loan amount of \$37.271 million. For 2020, the Project has awarded \$0.814 million and disbursed \$1.112 million.

8. For the counterpart funds, the cumulative disbursement of counterpart funds was \$2.969 million (equivalent to 82% of the total requirements of \$3.611 million).

B. Implementation Status of Agreed Follow-up Actions

9. There are 19 follow-up actions agreed by the last review mission in September 2019. At present, 12 actions were implemented, three (3) actions are partly implemented, two (2) actions are being implemented and two (2) actions are not yet implemented. Details are given in Appendix 4.

C. Implementation Progress by Project Component

Output 1: Expanded Use of Livestock Waste Management Infrastructure

10. **Revised Targets after the mid-term review (MTR).** The key performance indicators for this component are: (i) 65,000 small biogas plants (SBPs), 40 medium biogas plants (MBPs) and 2 large biogas plants (LBPs) and associated value chain infrastructure constructed and operating by June 2019. At least 5% of total SBPs will be constructed for ethnic minorities in project provinces; (ii) the incentive for carbon market development (ICMD) funds are fully channeled into at least 65,042 accounts of beneficiaries by June 2019; (iii) 65,000 SBP operators, 500 masons, 500 technicians, 28 engineers and 10 contractors trained by June 2019. At least 50% of those trainees on biogas use will be women; 7% of trainees on SBP construction, and 20% of those trained on biogas management and technical issues will be women; and (iv) single national biogas plant database managed effectively by 2017, including registration of both husband's and wife's names.

11. **Progress.** As of 31 May 2020, the achievement are as follows: (i) 62,083 SBPs², 83 MBPs³ and 2 LBPs⁴ were constructed of which 6,494 (10.5%) biogas plants were constructed for ethnic minorities households; (ii) the ICMD funds were channeled to 60,271 accounts of beneficiaries. The progress on construction of biogas plants by the project province is given in Appendix 5; (iii) 116,538 SBP operators (including 61,353 or 52.8% are women), 566 masons (including 29 or 5.1% are women), 1,290 technicians (including 300 or 23.3% are women), 28

² SBP has a capacity of up to 50 cubic meters.

³ MBP has a capacity of 51 – 499 cubic meters.

⁴ LBP has a capacity of above 499 cubic meters.

engineers (including 4 or 14.3% are women) and 18 contractors were trained. In total the Project has delivered 2,211 training courses; and (iv) 46,507 biogas plants financed under the Project have been recorded in the single national biogas plant database. At the mission date, the project provinces had completed all of the activities. The final data will be updated to ADB through CPMU by 15 July 2020. Details of the biogas plant training implemented by CPMU and PPMUs are given in Appendix 6.

12. The second wave of African Swine Fever (ASF) occurred in several project provinces together with Covid10 pandemic have continuously contributed to the low progress/demand for development of the biogas plans (BPs) in all project provinces.

Output 2: Credit Lines for BVCs and other climate smart agriculture waste management investments

13. **Revised Targets after MTR.** The key performance indicators for this component are: (i) 50% of credit lines will be under joint accounts and/or on behalf of women by June 2019; and (ii) At least 15,000 households raising livestock have accessed credits for BVC and other climate smart agriculture waste management investments from the participating Financial Intermediaries by June 2019.

14. **Progress.** The FIs had provided 457 sub-loans to 5 out of 10 project provinces with total amount of \$0.744 million. The Government sent official request to cancel \$30 million of loan proceeds allocated to this component on 17 December 2018 and ADB approved the cancellation on 19 December 2018. Both FIs, VBARD and Co-opBank refunded the unused advance account balances to ADB. The final implementation status of the credit lines is given in Appendix 8.

Output 3: Enhanced CSAWMP technology transfer

15. **Revised Targets after MTR.** The key performance indicators for this component are: (i) CSAWMP research strategy developed and adaptive research on at least 6 CSAWMP topics conducted by June 2019. At least 2 research topics will include gender issues; (ii) at least 7 CSAWMP demonstrations are successfully implemented and disseminated in 10 participating provinces by June 2019; and (iii) at least 7,000 farmers, 700 extension staff, and 200 researchers trained on CSAMWPs by June 2019. At least 50% of farmers and 30% of extension staff trained are women.

16. **CSAWMP Researches**. Contracts were awarded and consultants were mobilized for all packages of this component. Procurement/implementation status of each CSAWMP research package is given in Appendix 9. The research packages' results are expected to be applied for improving agriculture solid waste management, as they address the current limitations of shrimp and livestock waste treatment technologies and provide the new opportunities to private sector to gain profits if investing in agriculture with the new environmental technologies.

17. All research packages contract had physically completed on 31 March 2020, however, they were extended second time until 30 June 2020 for MARD/CPMU's evaluation and acceptance. The Mission was informed by CPMU and observed during the mission that several research packages (e.g. No.25, 27, 29) have positive impact on households' bio-physical environment, socio-economic conditions and preventing wastewater being discharge to the river from large farm. Several models have been replicated by famers. As of the mission time, the research packages have achieved 20-60% physical progress, except the package No.27 has better progress at 80%. None of research package was completed, the cumulative disbursement of research packages was only 41% against elapsed contracts period of 100%. The consultants of research packages raised their profound concern on the required report templates and payment progress/procedures guided by CPMU/APMB.

18. **CSAWMP Demonstrations**. The Mission visited a demonstration site in Binh Dinh province and found that the demonstration activities were providing useful CSAWMP solutions. The demonstrations constructed have a positive impact not only on these households' biophysical environment but also their socio-economic conditions. However, the pig farm owner raised his concerned on the quality of the generator as its output capacity is far below the designed capacity and breakdown often occurs during the operation. The profiles of visited demonstrations are given in Appendix 7 and the implementation status of each CSAWMP demonstration package is given in Appendix 10.

19. CPMU does not have sufficient capacity of research reviewing and has pointed out that lacking of the loan implementation consultant (LIC) seriously affected the quality and progress of the research and demonstrations packages.

20. **CSAWMP Information System.** The contract of equipment package for the information system (package 22) was completed. Package 23⁵ (design, monitoring, installation and technological transferring to e-library system) has not been completed even though the contract expired on 31 December 2019. CPMU has submitted request for extension to APMB on 10 January 2020 but there has been no response.

21. **Capacity building on CSAWMP.** The Project has supported 5 farmer vocational training programs (i.e. prepared syllabuses for farmer vocational training conducted by Department of Cooperatives and Rural Development of MARD) on the following topics: (i) production of biological fertilizer from cattle manure and sugarcane waste; (ii) techniques for repairing and maintaining biogas equipment; (iii) raising red worms at small scale from cattle and chicken manure; (iv) producing biological organic fertilizer from crop residue; and (v) production of organic fertilizer from pig manure. The project has also supported the Department of Cooperatives and Rural Development of MARD to produce 3 more vocational training programs on the subjects of: (i) producing biological bedding for livestock; (ii) producing animal feed from crop residue; and (iii) producing biological bedding for livestock; (ii) producing animal feed from crop residue; and (iii) producing biochar from crop residue. In total, the Project has trained 25,082 farmers (of which 12,650 or 50.4% are women), and 1,739 extension staff (of which 578 or 33.2% are women). In the last 9 months, 2,747 farmers (65% are women) were trained in Lao Cai, Nam Dinh and Tien Giang provinces. Details of the CSAWMP training implemented by CPMU and provinces are given in Appendix 11.

Output 4: Effective Project Management

22. **Revised Targets after MTR.** The key performance indicators for this component are: (i) A CPMU and 10 PPMUs established and operational with adequately skilled staff and facilities in MARD by first quarter of 2013. At least 30% of staff are women and a gender focal point will be appointed by 2014; and (ii) PPMUs with sex-disaggregated and ethnicity data collected and reported operating effectively in 10 provinces by 2015.

23. **Progress.** CPMU and 10 PPMUs were established in second quarter of 2013 and are fully staffed. 57 out of 124 staffs (equivalent to 45.97%) of the CPMU and PPMUs are women. The gender focal point was appointed since July 2016. PPMUs with sex-disaggregated and ethnicity data collected and reported is operating effectively in 7 provinces, except Son La, Nam Dinh, Soc Trang PPMUs and CPMU. LIC contract was extended lately (more than 10 months since ADB issued NOL) until 30 June 2020, however, insufficient technical support was provided as CPMU could not mobilize LIC's experts to support reviewing and monitoring research packages, and prepare PCR, GAP, and Social Safeguards final reports as required by ADB and Government. This leads to delaying completion of the project activities by the loan closing date.

⁵ The packages 23 was signed on 10 August 2017.

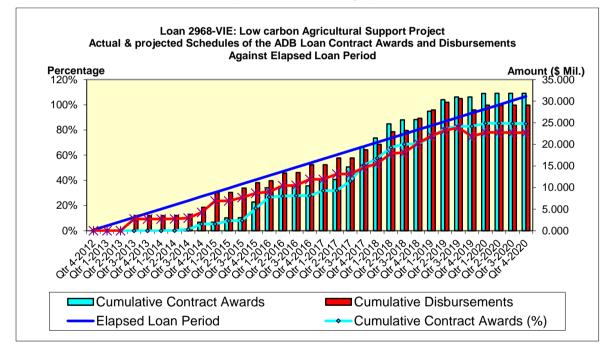
D. Project Procurement

24. **Progress.** The procurement progress remained the same with the previous review mission. The Project comprises 19 consulting services (including research packages) and 25 procurement of goods packages, all packages were awarded.

E. Project Costs and Financing

25. **ADB Loan.** CPMU and PPMUs have updated their projected schedules for contract awards and disbursements of the ADB loan. Details are given in Appendices 12 and 13. The major findings of this exercise are as follows:

- (i) Per updated cost estimates of CPMU and PPMUs, the ADB loan requirements are \$33.984 million (including \$2.163 million for the interest charge during implementation). The saving amount is about \$3.3 million;
- (ii) For 2020, CPMU and PPMUs plan to award \$0.871 million and disburse \$3.840 million; and
- (iii) Actual and projected schedules of the ADB loan contract awards and disbursements are presented on the graph below:



26. **Counterpart Funds.** For 2020, the counterpart funding requirement is VND12.311 billion and it was allocated sufficiently to CPMU and PPMUs. As of 31 May 2020, VND5.033 billion was disbursed (equivalent to 41% of the requirement). Details are given in Appendix 14.

F. Compliance with Loan Covenants

27. The Mission found 46 of 47 loan covenants complied with or being complied with. Only one loan covenant regarding implementation of the gender action plan (GAP) is being partially complied with due to the percentages of women participated in the project training and dissemination events and consultations for women-only groups are still lower than the targets. Details for the status of compliance with all loan covenants are given in Appendix 15.

G. Implementation of Environment Management

28. **Original Targets.** The project objective is to reduce pollution from agricultural waste by using CSAWMP. The project aims to support processing agricultural and rural household waste into clean energy and organic fertilizer from bio-slurry, and disseminate, strengthen, and diversify the knowledge base for the application of CSAWMP. The project aims to target environmental monitoring of at least 5% of SBPs.

29. **Progress.** Project generally has contributed to positive impacts on the environment through improving livestock waste management practices at household and community level. The support for implementation of irrigation measures and biogas safety risk reduction are integrated in the training to BP 116,538 operators conducted by CPMU and a guidebook on operating of SBP, a guidebook on constructing/installing HDPE MLBPs and a guidebook on operating HDPE MLBPs prepared by CPMU. The second semi-annual environment monitoring report, July - December 2019 was prepared and uploaded on ADB website. The monitoring equipment were purchased and handed over to the Veterinary Division and provincial functioned agencies.

30. **Issues**. During meeting with CPMU, the Mission found that all of research packages have not been completed that might impacts of the target of the reduce of pollution from agricultural waste especially the research packages of the organic fertilizer production from livestock waste and bio slurry, the water-saving pig farming technology and treatment of sludge sediment in shrimp farming. The Mission noted that to follow recommendation from project EMP, the mitigation measures from these researches are requested to be implemented to increase effectiveness of BP and reduce overload of manure and mitigate air and water pollution.

H. Implementation of Social Safeguards

31. **Original Targets.** The target of construction of SBPs for ethnic minorities (EMs) with at least 5% of SBP constructed in DMF.

32. **Progress.** As information in the internal monitoring report for the period of July – December 2020, the Mission found that the project EMDP implementation remains unchanged. Some criteria of the EMDP has not got much the progress due to some difficulties of livestock epidemic and geographic (such as: Encourage at least 30% of CSAWMP promotion participants among EMs are women). The Mission advised CPMU and PPMUs to pay more effort to pay more effort to achieve all targets in the updated EMDP.

33. **Monitoring reports:** The second semi-annual report (SEMR) of 2019 was submitted timely and being revised for disclosure at ADB's website. Following ADB requirements, the completion report on EMDP implementation needs to be prepared and submitted to ADB for review and upload before closing date of the project (30 June 2020), however, at time of the Mission, it has not been submitted yet.

I. Implementation of GAP

34. **Revised Targets after MTR:** The key gender action plan's targets (in covenant) include (i) at least 20% of those who are trained in biogas management and technical issues are women; (ii) at least 7% of those who are trained and certified as masons for the construction of small Biogas Plants are women (iii) at least 50% of those trained on utilization of biogas technology and operation and maintenance are women; (iv) at least 50% of those who are trained on farm management and waste management on farms are women; (v) at least 15% of employees trained in medium Biogas Plants and large Biogas Plants are women; (vi) at least 50% of recipients of Sub-loans from FIs will be registered under husband-wife joint accounts or on behalf of women; (vii) at least 50% of official registration of all purchased biogas units and plants under the Project will be under husband-wife joint accounts or on behalf of women; (viii) 30% of research topics related to gender issues associated with Biogas Plants; (ix) at least 30% of those selected as champions of smart-agriculture in research and dissemination of CSAWMP technology are women; (x) training materials of CSAWMP technology and methodology of dissemination will be women-friendly and at least 30% of dissemination events and consultations will involve women-only groups; (xi) a sex-disaggregated and ethnic minority data base is established as part of the Project's project performance and monitoring system established by the CPMU; (xii) 30% of staff in the CPMU and PPMUs are women and that the CPMU and each PPMU has a gender focal point; and (xiii) gender indicators are included in the overall monitoring and evaluation framework for the Project.

35. **Overall implementation**: There is a risk that GAP cannot be completed successfully at the project closing if greater effort is not made to strive for targets implementation. The GAP had a total of 18 actions including 12 quantitative performance targets. There are 7 indicators related to gender in the DMF, in which 5 indicators overlapped with GAP targets/actions and one action and one target are not included in GAP. At the final review mission, of 7 actions, 6 actions (86%) are either completed or on track and one action is partially achieved. Of 13 targets, 10 targets (77%) are achieved, and 3 targets (23%) are either partially achieved or not achieved. The updated GAP monitoring table is given as Appendix 16.

36. **Output 1**: 304 women out of 1,327 technical staffs, engineers and contractors participated in training courses on biogas management and technical issues for technical workers (22.9%, higher than target of 20%); (ii) 61,535 women among 116,538 participants received training on utilization of biogas technology and operation and maintenance (53%, higher than target of 50%);

37. **Output 2**: All 457 households received credit of sub-loans under the joint accounts of husband-wife.

38. **Output 3**: (i) 12,791 women among 25,456 farmers participated in the CSAWMP (50%, achieved the target of 50%); (ii) 578 (33.2%) women among 1,739 extension staffs trained on CSAWMP technology (target: 30%); (iii) and 127 women among 366 participants participated in the training courses on O&M of research equipment (34.7%, higher than the target of 30%); (iv) 2 out of 6 researches (packages 26 and 27) related to gender issues (33%, achieved the target of 30%).

39. **Output 4:** (i) CPMU and PPMUs have appointed gender focal points to be responsible for GAP implementation and reporting; (ii) 56 of 129 staffs of the CPMU and PPMUs are female (43.4% higher than the target of 30%); and (iii) The project conducted gender sensitivity workshops for all PPMUs staff and stakeholders with 445 participants, of which 230 are female (51.7%).

40. **Issues:** (i) The rate of female participation in the training courses on construction of SBP and MBP-LBP for workers is lower than project target (6% and 2.4%, compare to the target of 7% and 15% for SBP and MBP-LBP, respectively), because the availability of female workers in this field is small, therefore it is difficult to meet the project training target for the women participation; (ii) only 12.5% (target 30%) of dissemination and consultation events took place involving women-only groups (122 of 975 events). The reason is almost the project dissemination meetings and workshops were held in the beginning of project. In that time, Gender consultant and CPMU and PPMU gender focal point staff were not mobilized, thus lacking technical assistance for GAP monitoring and implementation.

J. Implementation of Financial Management

41. The CPMU will submit the final audited project financial statements (APFS) combining 18-month period from 1 January 2019 to 30 June 2020 (i.e. loan closing date) to ADB by 30 September 2020. This final APFS must cover all eligible project's expenditures from all funding sources (i.e. ADB, counterpart funding, etc.) and reconcile to ADB's cumulative disbursement in LFIS at project's closure. The CPMU and PPMUs are committed to resolve all management letter issues that are still pending from prior years, including the incompleteness of the documents on assistance in construction of biogas plants since 2015 and incompleteness of financial supporting documentation prior to the completion of the final . The CPMU will also work closely with the auditors to identify and timely resolve any new internal control issues that may arise in FY2019 or FY2020. Additionally, the FY2019 FIs' entity audit reports are due to ADB when available.

42. The financial management assessment action plans were not clearly mentioned in the financial management section of the project administration manual (PAM). However, some risk mitigation measures were identified during implementation and have been updated by the CPMU since the last review mission. There have been no new ADB's disbursement or financial management trainings attended by CPMU or PPMUs staff in 2020 and all other actions are completed.

K. Borrower's PCR Preparation

43. The task of preparation of the Borrower's project completion report (PCR) is included in the TOR of the Project Management Consulting Service contract (LIC contract). However, on 26 March 2020 – three months from the loan closing date, APMB submitted a request to terminate the LIC contract and recruit 5 national individual consultants to prepare the PCR. This proposal does not ensure the transparency, efficiency and quality of the LIC contract. Moreover, termination of the LIC contract to recruit individual consultants to complete the same task while the LIC Consultant does not break the Contract affects the transparency and raises concern on integrity issues. Meanwhile, ADB note from the LIC's latest proposal to carry out the mentioned task that (i) the team of experts and work schedule are reasonable and substantially in line with the original Consultant's technical proposal; (ii) the proposed budget amount for this task is within the Contract ceiling amount; and (ii) the remuneration rates for the experts are the same as those in the signed contract. Therefore, ADB suggested APMB/CPMU seek to amicably resolve issues impeding LIC from assisting CPMU to prepare the PCR and submit it to ADB by 30 June 2020.

44. At present, the Borrower's PCR has not been drafted and CPMU informed the Mission that MARD/APMB had terminated the LIC contract and will allocate counterpart fund to prepare the Borrower's PCR. However, the counterpart fund has not been allocated and plan for PCR preparation is unclear.

III. FOLLOW-UP ACTIONS

45. The agreed follow-up actions are as follows:

- MARD to immediately provide adequate counterpart funds for the Borrower's PCR preparation according to the updated implementation plan of CPMU;
- For the delayed payments, compensation should be paid to contractors in accordance with their signed contracts;
- To ensure the completion of research activities, MARD to allocate sufficient counterpart budget to complete the signed research contracts after 30 June 2020 and incorporate result in the PCR;

- APMB/CPMU to immediately resolve pending issue and complete the contract for package 23;
- In order to close the loan smoothly on time, CPMU and PPMUs must ensure that all project activities must be completed by the loan closing date (LCD), 30 June 2020. Any activities implemented after the loan closing date will not be eligible for ADB financing and shall be financed by the counterpart funds;
- Regarding payments for final audit, which could be conducted after LCD: CPMU/PPMUs
 are advised to withdraw money to an escrow account so that payment can be made to
 the auditor after the ADB loan account closing;
- For the contracts under warranty period beyond 30 June 2020: If CMPU/PPMUs wish to pay the retention money from ADB loan before warranty period ends, please request contractor(s) to submit an unconditional bank guarantee which will be effective until warranty period expires;
- The final WA shall be submitted to ADB by 31 October 2020. Then depending on the adequate of supporting document, the final WA shall be processed by 15 November 2020. If advance account has unused amount, CPMU will have to return this to ADB by 15 December 2020.
- CPMU to ensure the target of at least 5% of SBPs are monitored through necessary training for using monitoring equipment and conduct environment sampling for the constructed SBPs. The results of this sampling monitoring would be integrated in the semi-annual monitoring report, January - June 2020 to be submitted to ADB by 31 July 2020.
- CPMU to submit the completion reports on EMDP, GAP implementation to ADB for review and upload before 30 June 2020;
- CPMU to submit first draft PCR with its data to ADB by 31st December 2020. The template of PCR is given in Appendix 17;
- CPMU/PPMUs to complete the other follow-up actions agreed by the last mission that have not yet been implemented, partially implemented and being implemented. Details are given in Appendix 4; and
- ADB will field its PCR mission in March 2021.

IV. ACKNOWLEDGMENT

46. The Mission expresses its appreciation to MARD, CPMU, PPMUs and all staff and representatives of the organizations who provided their time and cooperation to the Mission.

Signed in Ha Noi on 25 June 2020 by:

Wehal

Vu Ngoc Chau Mission Leader, VRM Asian Development Bank

Attachments

Attachment 2Overall Project Physical ProgressAttachment 3Overall disbursement ratiosAttachment 4Implementation Status of Agreed Follow-up ActionsAttachment 5Biogas ConstructionAttachment 6Biogas Plant TrainingAttachment 7Profiles of DemonstrationsAttachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring TableAttachment 17PCR Standard	Attachment 1	List of persons met
Attachment 4Implementation Status of Agreed Follow-up ActionsAttachment 5Biogas ConstructionAttachment 6Biogas Plant TrainingAttachment 7Profiles of DemonstrationsAttachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 2	Overall Project Physical Progress
Attachment 5Biogas ConstructionAttachment 6Biogas Plant TrainingAttachment 7Profiles of DemonstrationsAttachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 3	Overall disbursement ratios
Attachment 6Biogas Plant TrainingAttachment 7Profiles of DemonstrationsAttachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 4	Implementation Status of Agreed Follow-up Actions
Attachment 7Profiles of DemonstrationsAttachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 5	Biogas Construction
Attachment 8Actual Outputs of Credit Lines ImplementationAttachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 6	Biogas Plant Training
Attachment 9Actual Outputs of CSAWMP ResearchesAttachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 7	Profiles of Demonstrations
Attachment 10Actual Outputs of CSAWMP DemonstrationsAttachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 8	Actual Outputs of Credit Lines Implementation
Attachment 11Actual Outputs of CSAWMP TrainingAttachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 9	Actual Outputs of CSAWMP Researches
Attachment 12ADB Contract AwardsAttachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 10	Actual Outputs of CSAWMP Demonstrations
Attachment 13ADB DisbursementsAttachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 11	Actual Outputs of CSAWMP Training
Attachment 14Counterpart FundsAttachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 12	ADB Contract Awards
Attachment 15Compliance of Loan CovenantsAttachment 16Updated Gender Action Plan Monitoring Table	Attachment 13	ADB Disbursements
Attachment 16 Updated Gender Action Plan Monitoring Table	Attachment 14	Counterpart Funds
· · · · · · · · · · · · · · · · · · ·	Attachment 15	Compliance of Loan Covenants
Attachment 17 PCR Standard	Attachment 16	Updated Gender Action Plan Monitoring Table
	Attachment 17	PCR Standard

Position **Email Account** Tel. No Name MARD Nguyễn Anh Minh **Deputy Director General - ICD** naminh.htqt@mard.gov.vn 0913037761 Pham Thanh Huyền Deputy Head – Department of Finance Thanhhuyen962000@yahoo.com 0912632918 Deputy Head - Department of Technology Science and Nguyễn Giang Thu giangthu@gmail.com 0902261339 Environment Department of Infrastructure Technique and Rural Trần Đình Dũng Development Nguyễn Thị Bình Thục Officer - Department of Science nbthuc@gmail.com 0914039198 Nguyễn Xuân Khôi **Department of Technology Science** Khoinx.khch@mard.gov.vn 0902197668 Lê Minh Tuấn Officer, Department of International Cooperation Tuanlm.htgt@mard.gov.vn 0981626888 **Agricultural Projects Management Board** Trần Văn I am Head - Consultant Management Department Pham Viêt Anh Deputy Head – Planning and Technical Department Officer - Consultant Management Department Đăng Hữu Kiên Nguyễn Thi Viêt Hà Officer - Financial Accountant Department **Central Project Management Unit** 0913247782 Nguyễn Thế Hinh **Project Director** nguyenthe.hinh@gmail.com Vũ Tiến Dũng 0913543045 **Deputy Project Director** vutiendung1972@gmail.com Nguyễn Văn Chung **Deputy Project Director** chunglcasp@gmail.com 0967891875 Dương Thi Diễm Hằng Chief Accountant duongdiemhang@gmail.com 0902149939 Nguyễn Thi Minh Hường **Planning Officer** huongng4@gmail.com 01699292871 Lương Huy Hoàng Project Officer Mr.hoang098.0@gmail.com 0986854617 Nguyễn Thi Ngọc Lan Admin Officer **Ben Tre province** Phan Thi Thu Sương Project Coordinator, PPMU Phanthusuong2000@yahoo.com 0918330169

List of Key Persons Met

Nguyễn Thị Hoàng Lan	Accountant, PPMU	hoanglan.klbentre@gmail.com	0354744014
Soc Trang province			
Lâm Minh Hòang	Project Director, PPMU	Lamhoangst68@gmail.com	0918553550
Lê Văn Quang	g Project Coordinator, PPMU <u>levanquang68@gmail.com</u>		0918573883
Võ Phú Lâm	Technical Officer, PPMU	Lamminh1975@gmail.com	0913.548.959
Tien Giang province			
Huỳnh Thanh Nông	Deputy Director, PPMU	huynhthanhnong@yahoo.com.vn	0948394945
Nguyễn Thanh Hòa	Accountant, PPMU	hoathn@gmail.com	0972.933.312
Binh Dinh province			
Huỳnh Ngọc Diệp	Deputy Director, PPMU	ngocdiepcntybd@gmail.com	0914139711
Lê Ngọc Hùng	Project Coordinator, PPMU	ngochung05@gmail.com	0907414278
Trịnh Huỳnh Ái Thơ	Accountant	Trinhtho87@gmail.com	0985828740
Lê Thành Viên	Technical Officer	Vien.lcaspbd@gmail.com	0931907369
Nam Dinh Province			
Hoang Thi To Nga	Project Director, PPMU	ngasam67@gmail.com	0918951967
Ninh Văn Hiếu	Project Deputy Director, PPMU	Hieuty13@gmail.com	0912850210
Nguyen Trong Tan	Project Coordinator, PPMU	trongtan78@gmail.com	0913472700
Lê Thị Dung	Technical Officer, PPMU	Ledungdd95@gmail.com	0943.450.096
Lê Thị Thảo	Project Officer	lethaosnnnd@gmail.com	0912333031
Đăng Ngọc Quang	Accountant, PPMU	dangngocquangsnn@gmail.com	0915.300.469
Lao Cai province			
Phạm Thị Hoa	Deputy Director, PPMU	phamhoalc@gmail.com	0919706042
Nguyễn Thị Ngọc Anh	Accountant, PPMU	Anhnn137@gmail.com	0904705590
Nguyễn Thị Khánh Hòa	Project Officer, PPMU	nguyenkhanhoa.vfu@gmail.com	0974581286
Son La Province			
Le Van Thanh	Project Director, PPMU	LeThanh969@gmail.com	0988432886

- ---

Lo Thanh Bang	Project Coordinator, PPMU	banglothanh75@gmail.com	0988432886
Cầm Ngọc Vinh	Project Officer, PPMU	camngocvinh94@gmail.com	0972653288
Phu Tho province			
Tu Anh Son	Director of DARD cum Project Director of PPMU	tusonpt@gmail.com	0989149457
Hoàng Mạnh Thông	Project Coordinator, PPMU	Hoangmanhthong84@gmail.com	0984149457
Nguyễn Thị Kim Thoa	Accountant, PPMU	Nguyenthikimthoa2434gmail.com	0375700098
Ha Tinh province			
Nguyễn Xuân Hoan	Project Director, PPMU	xuanhoansnn@gmail.com	0944667999
Đặng Danh Khánh	Officer	Danhkhanh.xda@gmail.com	0918477011
Bac Giang province			
Nguyễn Trung Kiên	Project Director, PPMU	kienqseapbg@gmail.com	0949140737
Banks			
Đỗ Nguyễn Thanh Nhung	Co-op Bank		
Nguyễn Việt Hùng	AgriBank		
Research consultants & cor	ntractors		
Vi Thế Đang	Package 29		
Phạm Viết Nguyên	Package 29		
Lê Hùng Tuấn	Package 27		
Lê Thanh Quang	Package 42		
Nguyễn Võ Linh	Package 28		
Nguyễn Văn Khoa			
Nguyễn Thành Trung			
Lê Hữu Quyên			
Nguyễn Khắc Anh	Package no. 25		

Overall Project Physical Progress (As of 31/5/2020)

Rated Disbursed Weighted Final cost **Components/Activities** Weight Amount **Progress** No. (VND mil.) Progress (VND mil.) (0 - 100) Component 1: Expanded Use of Livestock Waste Management Infrastructure Standardizing and disseminating a design package for BVC 6.0% 1 49,005 48,460 99 5.9% infrastructure 2 Strengthening the monitoring capacity of relevant agencies to 40,992 5.0% 40,315 98 4.9% hand over and monitor the constructed biogas plant Monitoring the disbursement of funds paid to Eligible 3 Beneficiaries as a financial incentive to carry out Eligible 209.628 25.5% 189,854 91 23.1% Subprojects Capacity building in designing, constructing, operating and 4 20,821 2.5% 20,089 96 2.4% monitoring biogas plants Strengthening the capacity and providing equipment for relevant 5 2,237 2,237 0.3% 100 0.3% agencies to manage national biogas database **Component 2: Credit Lines for Biogas Value Chains** Fls to provide credit lines to Eligible Beneficiaries to finance Biogas Value Chain Infrastructure and other climate smart 6 29,183 3.6% 29,183 3.6% 100.00 agriculture waste management investments which satisfy the Subproject Eligibility Criteria Component 3: Enhanced CSAWMP technology transfer Utilizing farmer-based research including using biochar and other agricultural wastes as organic fertilizers; applying other efficient low greenhouse gas emission agricultural practices 7 66,432 8.1% 103.759 12.6% 64.03 which generate bioenergy; managing waste treatments in aquaculture and other CSAWMP 13.6% 8 Developing livestock waste management models for agricultural 111,590 13.6% 111,590 100 production and greenhouse gas emission reductions Capacity building of researchers, extension staff and farmers 9 including vocational training program, training packages and 21,890 2.7% 21,890 2.7% 100 study tours on CSAWMP Establish an information system (e-library, map sets on agroecological zones and distance learning system) to disseminate 2.8% 23,150 18,964 10 82 2.3% awareness and knowledge CSAWMP 14

No.	No. Components/Activities		Weight	Disbursed Amount (VND mil.)	Rated Progress (0 - 100)	Weighted ^{App} Progress	endix 2
11	Package 46: Supply of laboratory system for testing the quality of organic fertilizer materials and products	32,138	3.9%	16,069	50	2.0%	
	Component 4: Effective project management						
12	Establish CPMU and PPMUs to be operational; Conduct a gender awareness raising workshop for PMUs, IDC	98,055	11.9%	90,211	92	11.0%	
13	Engage consultants for start-up and auditing, and to develop the PPMS, with sex- and ethnicity-disaggregated data and including gender action plan monitoring; Undertake baseline surveys in all project provinces with collection and analysis of sex- and ethnicity-disaggregated data; Prepare progress reports and submit to ADB on a regular basis		9.6%	61,920	79	7.5%	
	Total	821,221	100%	717,214	1,151	87.3%	

-

Overall Disbursement Ratios

(As of 31/5/2020)

		Project Fu	unds Required (V	ND mil.)	Actual Disbursements (VND mil.)			
No.	CPMU/ Province	ADB Loan	Counterpart Funds	Total	ADB Loan	Counterpart Funds	Total	%
*	CPMU	267,904	37,036	304,940	207,030	28,286	235,316	77%
1	Binh Dinh	58,990	5,494	64,484	57,302	4,544	61,846	96%
2	Bac Giang	78,446	4,780	83,226	66,737	3,911	70,648	85%
3	Ben Tre	31,955	2,579	34,534	30,675	2,256	32,931	95%
4	Ha Tinh	33,667	6,149	39,816	33,467	5,969	39,436	99%
5	Lao Cai	34,494	3,656	38,150	32,530	3,276	35,806	94%
6	Nam Dinh	60,859	4,829	65,688	53,999	4,199	58,198	89%
7	Phu Tho	69,258	3,987	73,245	68,243	3,699	71,942	98%
8	Soc Trang	24,971	3,849	28,820	24,492	2,953	27,445	95%
9	Son La	23,224	4,584	27,808	21,851	3,484	25,335	91%
10	Tien Giang	28,853	2,475	31,328	27,182	1,947	29,129	93%
11	VBARD	6,530	1,152	7,682	6,530	1,152	7,682	100%
12	Co-opbank	18,276	3,225	21,501	18,276	3,225	21,501	100%
*	IDC	51,115	-	51,115	11,629	-	11,629	23%
	Total in VND mil.	788,540	83,795	872,336	659,941	68,901	728,843	84%
	Total in USD mil.	33.984	3.611	37.596	28.442	2.969	31.412	84%

Implementation Status of the Agreed Follow-up Actions (As of 31/5/2020)

No	Agreed Actions	Implementation Status
1	CPMU to obtain endorsement of MARD (if required) and extend all uncompleted contracts (packages 23, 25-29, 31, 42-43 and LIC) that required the loan extension. If the contracts have not been extended by 15 October 2019 (3.5 months after approval of loan extension), CPMU should process contract termination and liquidation	Implemented Packages 23, 25-29, 31, 42-43 were extended on 1/10/2019 and LIC was extended on 24/10/2019.
2	To ensure the completion of research activities (if the contracts are extended), MARD, CPMU and ADB to hold regular meeting with research packages consultant every 3 months to update progress and timely resolve any issues/shortcomings. The first meeting will be held in mid- December 2019.	Implemented ADB, MARD and CPMU held regular meeting, while CPMU conducted regular meeting with ABMP and research packages consultant to update progress and timely resolve any issues/shortcomings.
3	CPMU to resolve the pending issues of package 22 immediately to complete the package 23 by 31 December 2019	Partially Implemented Package 22 completed by 8/1/2020, however package 23 has not been completed despite the contract already expired.
4	MARD support FIs to refund the unused advance account balances to ADB immediately	Implemented Fls refunded the unused advance account balances. Coopbank refunded 1,328,987.02 USD, Agribank refunded 1.37.107,11 USD
5	CPMU support PPMUs to prepare detail and appropriate implementation plan until the extended loan closing date to archive the project expected outputs and outcomes	Implemented CPMU guided PPMUs the year plans upon the suggestion of PPMUs accordingly.
6	CPMU to facilitate registration for the organic fertilizer products of the demonstrations enabling trading activities and improving value chain of CSAWMP activities	Implemented Package 25 has registered the organic fertilizer products of the LCASP project. In Decision No. 1933 / QD-BVTV-PB of February 25, 2019 and 1951 / QD- BVTV-PB of March 13, 2019, creating a legal basis for the transfer and trade of products from waste The contractor has transferred technology to Lao Cai, Binh Dinh and Son La provinces and the contractor has completed the co- ownership document for the results of the research on package 25 for 06 organic fertilizer products and 06 useful solutions.

No	Agreed Actions	Implementation Status
	The completed demonstration/research	·
	models that rated "satisfactorily" by	
	assigned authority may be replicated with	Not yet Implemented
	no more than one model of each type in	CPMU submitted ADB the updated
	each project province, provided that the	procurement plan, requesting additional
7	contract must be awarded by 1 January 2020 and completed by 30 June 2020. Any	packages (resulting from package 27 and 29 successful research activities),
'	activity that extends to after the loan	however CPMU has not provided any
	closing date should be financed by	proof that demonstration/model
	counterpart funds, which will be confirmed	requested for replication rated
	by an official letter of MARD (for CPMU)	"satisfactorily" by assigned authority.
	and PPCs (for PPMUs) sent to ADB prior to	
	contract awards	
8	CPMU and FIs are required to submit	Implemented
	APFS within 6 months of the year-end date CoopBank to submit the corrected 2018	Implemented
9	APFS to ADB by 4 October 2019	
	Environmental Safeguard Recommendat	ions
	PPMUs with support of trained technician	
	and masons to solve overloading capacity	Implemented
10	of SBPs, installation of sedimentation tank and promotion using bio slurry for	PPMUs organized training courses to support of trained technician and
10	and promotion using bio slurry for fertilizers; and improving quality of SBPs	support of trained technician and masons to solve overloading capacity of
	construction/operation in the flood-prone	SBPs and related issues
	areas	
		Implemented
	PPMUs, especially Tien Giang PPMU	PPMU of Tien Giang carried out regular
11	continue carrying out technical monitoring/checkup of all LBPs/MBPs in	technical monitoring/checkup of all LBPs/MBPs in operation and some
	operation and some SBPs in operation, to	SBPs in operation, to ensure safety and
	ensure salely and ellectiveness of BPS	effectiveness of BPs
	ensure safety and effectiveness of BPs	effectiveness of BPs
	CPMU to support PPMUs in environment	Not yet implemented
	CPMU to support PPMUs in environment effect monitoring, using project's	
	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and	Not yet implemented None of equipment use training conducted and no SBP environment
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi-	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi-	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies	Not yet implementedNone of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019Partly Implemented Research packages completed most activities (especially package 26 for
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP,	Not yet implementedNone of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies	None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package
12	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP, improving knowledge management for	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from
	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP, improving knowledge management for replication and expansion use of CSAWMP, i.e. package 26 for proper use of biogas from MBPs and LBPs in power	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from manure separating systems). None of
	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP, improving knowledge management for replication and expansion use of CSAWMP, i.e. package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from manure separating systems). None of research packages completed and
	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP, improving knowledge management for replication and expansion use of CSAWMP, i.e. package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from manure	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from manure separating systems). None of
	CPMU to support PPMUs in environment effect monitoring, using project's environmental monitoring equipment, and integrating analytical results in the Semi- annual Environmental Monitoring Report July-December 2019, which is in due by 31 January 2020 CPMU and the consultants of research packages to continue and speed up studies and pilot activities in application CSAWMP, improving knowledge management for replication and expansion use of CSAWMP, i.e. package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic	Not yet implemented None of equipment use training conducted and no SBP environment sampling results was integrated in semiannual monitoring report Ju-Dec 2019 Partly Implemented Research packages completed most activities (especially package 26 for proper use of biogas from MBPs and LBPs in power generator; and package 25 on organic fertilizer production from manure separating systems). None of research packages completed and disseminated as mitigation measures for

No	Agreed Actions	Implementation Status
14	Regarding implementation of the social safeguards: CPMU and CPMU continue to implement four (4) being implemented actions that agreed from the previous mission	 Being implemented PPMUs often organize event to encourage CSAWMP promotion participants among EMs PPMUs regularly organize site visits for potential ethnic minority customers in CSAWMP promotion activities/events (e.g. trainings, field trips, informal meetings, etc.) CPMU often monitors to ensure that all objectives in the EMDP achieved by the end of the project
	GAP Recommendations	
15	PPMUs continue to cooperate with Women Union (WU) and Farmer Union to conduct training courses on CSAWMP for farmers and conduct more dissemination events with women only group to ensure by the end of project, these targets will be achieved	Being implemented PPMUs often cooperate with Women Union (WU) and Farmer Union to conduct activities (training courses, dissemination events, etc) with women only group to ensure the GAP targets.
16	CPMU, Nam Dinh and Soc Trang provinces need to update the sex- disaggregated data on the participants in dissemination events	Implemented CPMU, Nam Dinh and Soc Trang provinces updated the sex- disaggregated data on the participants in dissemination events
17	PPMUs need to update the sex- disaggregated data on the participants in the training courses under the demonstration packages and report ADB in the next progress report	Implemented PPMUs updated the sex-disaggregated data on the participants in the training courses under the demonstration packages and integrated in report to ADB

No	Agreed Actions	Implementation Status
	CPMU/PPMUs to complete the other follow-up actions agreed by the last	Partially implemented
	missions that have not yet been implemented, partially implemented and being implemented.	- LIC stop mobilized the consultant, so no environment expert provide guidance on using bio-slurry and composting manure as fertilizer; nor guide and plan of using biogas produced by MBPs/LBPs
		- PPMUs improved documentation in the biogas database, and provide technical assistance for the project beneficiary households in operating SBPs and improving sanitation and safety operation of biogas plants, and solving the overloading issue of SBPs
18		- No environment consultant mobilized to support PPMUs to use environment equipment and implement sampling program, integrated with biogas inspection and in the SEMRs
		 Researchers (in package 26) completed study on proper use of power generator for LBPs/MBPs
		- No social safeguard consultant mobilized to support to conduct internally monitoring implementation of the updated EMDP activities and recommend measures to speed up its implementation
		 No more female workers participated in construction of MBPs and LBPs to achieve the GAP targets
		- PPMUs continue to cooperate with women union (WU) to conduct dissemination events with women only group
19	The next review mission of ADB to be fielded in March 2020	Lately implemented
		Due to Covid 19

Appendix 5

Actual outputs of Biogas Construction by Province

(As of 31/5/2020)

		Biogas Plants Constructe								ted			
No	Provinces	nces Small		Med	Medium		Total	%	Ethnic	%	ICMD Funds		
		3 mil	5 mil	10 mil	50 mil	Large	TOLAI	70	Minority	70	Transferred		
1	Lao Cai	2,544	1,234	0	4	0	3,782	6.1%	2,008	3.2%	3,691		
2	Son La	2,168	1,093	0	0	0	3,261	5.3%	1,892	3.0%	3,048		
3	Phu Tho	10,000	1,335	4	0	0	11,339	18.3%	496	0.8%	11,139		
4	Bac Giang	7,815	1,445	0	44	0	9,304	15.0%	922	1.5%	8,850		
5	Nam Dinh	4,910	735	0	7	2	5,654	9.1%	0	0.0%	5,654		
6	Ha Tinh	5,248	0	4	2	0	5,254	8.5%	0	0.0%	5,254		
7	Binh Dinh	8,809	929	0	8	0	9,746	15.7%	5	0.0%	9,422		
8	Tien Giang	2,785	1,555	0	2	0	4,342	7.0%	0	0.0%	4,058		
9	Ben Tre	5,675	413	0	3	0	6,091	9.8%	1	0.0%	5,859		
10	Soc Trang	2,834	471	0	5	0	3,310	5.3%	1,170	1.9%	3,296		
	Total	52,788	9,210	8	75	2	62,083	100%	6,494	10.5%	60,271		

Actual Outputs of Biogas Plant Training

(As of 31/5/2020)

			Biogas P	lant Training t	o Operators,	Masons, Tech	nnicians, Engi	neers and Co	ntractors	
No	Provinces	Opera	ators	Mas	ons	Technician	Engi	neer	Contractor	
		Total	Women	Total	Women	Total	Women	Total	Women	Contractor
*	CPMU			126	3	710	182	28	4	18
1	Lao Cai	9,322	4,898	49	4	27	7	0	0	0
2	Son La	3,259	1,260	29	0	75	11	0	0	0
3	Phu Tho	20,235	11,460	70	12	127	45	0	0	0
4	Bac Giang	17,689	8,737	19	1	43	11	0	0	0
5	Nam Dinh	11,934	6,636	0	0	70	13	0	0	0
6	Ha Tinh	13,129	8,234	126	3	56	14	0	0	0
7	Binh Dinh	9,902	4,704	28	0	62	8	0	0	0
8	Tien Giang	8,680	6,254	34	0	25	4	0	0	0
9	Ben Tre	15,903	6,913	28	5	22	3	0	0	0
10	Soc Trang	6,485	2,439	57	1	73	2	0	0	0
	Total 116,538		61,535	566	29	1,290	300	28	4	18
	Percent	age	52.8%		5.1%		23.3%		14.3%	

1. BINH DINH PROVINCE

1.1. Package 34: Supply of biogas generator and manure separating system for comprehensive management of livestock waste demonstration for Binh Dinh, Ha Tinh, Nam Dinh and Soc Trang province

Location: Thanh Phu Farm is located in the Kinh Te Village, Canh Vinh Commune, Van Canh District, Binh Dinh owned by Ms Truong Thi Anh Loan.

Status of the farm: the farm has a breeding area of about 5 hectares with a scale of 1200 sows and 2200 porkers, the farm came into operation in 2009 after more than 10 years of construction and operation of the biggest problem. The farm has encountered many years of processing livestock waste, causing serious environmental problems.

The farm was installed by two contractors of biogas generators and a separator system together with the infrastructure from the farm's counterpart fund, helping the farm to partially solve the environmental problems.

Activity and results

The average separator runs for every 1-2 days from 2 hours to 3 hours (1 hour consumes 9 Kwh of electricity) with the amount of fertilizer from 1.5 to 2 tons and is sold for 800 VND/kg.

For the system of biogas generators, at the beginning, it was relatively difficult to implement because of the unreasonable amount of gas and operation mechanism, so the amount of electricity generated was low. Currently, it has operated stably with a total output of over 38,000 kWh, helping the farm to save nearly 80 million on electricity costs. According to the calculation by the end of May 2020, with the amount of split fertilizer sold for 800 VND / kg, the farm can collect about 18-20 million VND a month to sell the fertilizer. And with the amount of electricity generated 38,000 kWh, the saving is VND 80 million, helping the farm reduce its farm operation costs.

The model has helped raise the awareness of the participants as well as the communities on environmental protection and sustainable livestock development.



1.2. Package 28

1.2.1. Model of using bio fertilizer produced from the mushrooms waste for vegetables of F1 bitter melon.

Location: Phuoc Hung Cooperatives (Fertilizer Production) and Phuoc Hiep Cooperatives Implementation time: October 5, 2019 - March 20, 2020.

Results:

With a production scale of 2 hectares in Phuoc Hiep Agricultural Cooperative, Binh Dinh province in the Winter-Spring crop of 2019, the total cost for the whole model is VND 130,655,700. The total income of the cooperative when planting 2 ha of models is VND 573,691,010. Net profit: VND 443,035,310.

Total profit (or added benefits including fertilizer sales: VND 6,800,000; Depreciation of equipment and machinery: VND 1,764,100) for Phuoc Hiep Agricultural Cooperative when participating in the model is VND 451,599,410.

Environment: The trend of carbon accumulation begins to appear. Around of 6.5 tons of mushroom growing substrate are effectively reused. 35.7 kg of nitrogen, 41.65 kg of superphosphate and 35.7 kg of potassium chloride save without use

1.2.2. Mechanization model of collection and processing of agricultural by-products for animal feed in Binh Dinh

Location: at Mr. Nguyen Van Hung's Farm, Phuoc Hung commune, Tuy Phuoc district, Binh Dinh province

The model uses a mini straw machine fitted with a combined injection system on a 45HP tractor (forming a rolling system) to collect straws combined with 4% urea spray. This process is done through the stages of spraying the inoculants into straw, after which the straw section has been compacted into ice by the combine of the harvester and collected: 50 cm diameter, 70 cm height, weight: 27-32 kg. Each bale of fresh straw is sprayed with 2 liters of solution containing 600g urea using an injection device just before it is rolled. Each piece is packed in a double layer bag (size: diameter 60 cm, height 130 cm) and tied two separate layers.

Results: The visual quality of the freshly milled straw, the amount of feed intake and the weight change of the cow were monitored for 4 months, showing that after 4 months of rearing, each cow fed raw food had 2/3 Fresh straw has a higher profit of VND 286-852 thousand / head compared to cows eating raw food with only fresh grass. The large fluctuations in profits may be due to: the mode of raising, the age, the potential for weight gain, the price of fresh grass, straw prices, the ability to supply fresh grass of the farm ... And so can confirm that, the use the spray-roll system to roll and compost fresh straw in the field and preserve it as a substitute for fresh grass for ruminants in the time of scarcity of green grass, and increase profits in livestock.



1.3 Package 29

Model in Binh Dinh: Research on the technology of using probiotics to reduce waste and develop algae groups in vannamei shrimp ponds (shrimp - algae technology) Location

The consulting agency surveyed 30 intensive white-leg shrimp farms, located in 3 coastal districts of Binh Dinh province (Hoai Nhon, Phu Cat and Tuy Phuoc) and chose Dong Minh Tinh farming facility, village Huynh Gian Bac, Phuoc Hoa commune, Tuy Phuoc district, Binh Dinh province as the place to deploy technology.

Research results

- Selected bioproducts to treat waste in shrimp farming with the composition: Bacillus subtilis ..107cfu / g; Bacillus licheniformis..107cfu / g; Bacillus megaterium ... 107cfu / g; Rhodobacter pseudomonas ...> 109cfu / ml; Large reduction of sludge compared to the control ponds; sludge does not contain toxic components such as heavy metals.

- The experimental model in Binh Dinh has an average shrimp yield of 17 tons / ha, higher than the control. Survival rates were 81.5% (pond 1) and 82.6% (a0 2). No disease occurred during culture.

- The experimental model has an IRR of 70.16% higher than the control of 66.50%, payback period of 1.46 years while the control model needs 1.52 years.

- The indicators of pH, BOD5, COD, suspended solids of the model are within the allowed limits of the regulations.

- Experimental pond wastewater meets the requirements of QCVN 02-19: 2014 / BNNPTNT. In addition, the technology in the breeding process is not infected, especially dangerous disease factors such as the white spot virus. Chemical cost reduced by VND 19 million / case (59%).

- Develop a process of intensive farming of white shrimp (Litopenaeus vannamei) applying technology to reduce waste by probiotics.



2. NAM DINH PROVINCE

2.1. Package 25.

Mr. Nguyen's farm: Nguyen Van Trinh

Address: Nghia Son commune, Nghia Hung district, Nam Dinh province Scale: 5.0 ha, including the following items:

- Pig breeding facilities: 2,800 m2 of breeding facilities: 4 rows of breeding facilities, each row of breeding facility is 650 m2.

- Biogas tank: 1,000 m3; warehouse, factory and other ancillary works.

- Scale: 2,000 porkers.

- Applied technological process: according to the guide and techniques transferred by CP.

Models implemented on the farm:

a. Separator model:

- With the support of the LCASP project, the farm was invested with a separator (of Bauer), however, due to the water-intensive farming process (30 liters/head of pig), the amount of dry matter in the waste is low, the used separators are not effective.

- Package 25 has improved the technology of fixed separators through improved design of sedimentation tanks and vibrating screens. Therefore, the separation system can work well in the condition of low dry matter content, high waste recovery efficiency.

- Designed and operated a mobile separator capable of operating within a radius of 20.0 km, which can collect solid waste for livestock farm clusters (5-10 farms).

b. Organic fertilizer production model:

- Within the scope of implementation, the bid package has proposed the technological process and registered 04 organic fertilizer products that have been recognized and allowed to be manufactured and circulated by the Ministry of Agriculture and Rural Development. Therefore, at the farm, the contractor has supported equipment (mixers, pelletizing machines, bagging machine, ...) and technology to produce the above products and reciprocal investment of the farm is the premises and production workshop (scale of 50 m2).

- Pig manure from the press is processed according to the technological process of the contractor to produce organic fertilizer. Products are sampled and evaluated to ensure quality requirements as prescribed by the Ministry of Agriculture and Rural Development. *c. Biogas wastewater treatment model:*

- Biogas wastewater treatment model is designed for storage areas, sedimentation tanks, etc., which can treat microorganisms and aeration (additional dissolved oxygen) with the following construction items: tanks container: 500 m3; treatment tank (2 tanks, each tank of 50 m3).

- Liquid waste after biogas after being treated to meet the quality requirements is used to irrigate crops in the farm area.

d. Model of raising worms and processing worm manure and worm castings:

- The model of raising earthworms with a 100 m2 cage area, pig waste after the solid waste collection process is transferred to the food storage tank. Post-treated feed is put into cages.

- The model of raising worms (Pont.) Achieved the specifications (yield of 3.0 kg/m2; obtained worm manure of 5.0 kg/m2, ... after the monitoring period of 2.0 months.

- The products of worm manure and worm castings are processed to produce organic fertilizer (solid and liquid) to meet technical requirements (approved by the Ministry of Agriculture and Rural Development for production and circulation).





2.2. Package 29

Model in Nam Dinh: Research on waste reduction technology by using tilapia to treat suspended organic matter in shrimp pond water (shrimp-tilapia technology) Location

The consulting agency cooperated with Nam Dinh Department of Fisheries to conduct a survey of 30 small-scale shrimp farms, belonging to three coastal districts of Nam Dinh (Hai Hau, Nghia Hung, Giao Thuy) and agreed to select Mr. Nguyen Luong Bang's office, address of Zone 2, Rang Dong town, Nghia Hung district as the place to deploy experimental shrimp-tilapia technology.

Research results

- Reduction of 39% of waste compared to the control model. The shrimp sludge does not contain heavy metals such as arsenic, lead, cadmium and mercury; minerals such as calcium, potassium and magnesium has content of 0.12% are equivalent to those of control ponds. The phosphorus content in the slurry is lower than the detection level. Experimental pond sludge has a total nitrogen content of 1093 mg / kg and organic carbon content of 6.58 g / kg, while those of the control pond mud are 1165 mg / kg and 6.95 g / kg respectively.

- Tilapia grow well when raised in ponds using shrimp waste. Water quality of tilapia pond meets the standard for shrimp farming. Shrimp production reached 16.81 tons / ha (pond 2) and 17.67 tons / ha (pond 1) and tilapia productivity reached 2.9 tons / ha. The control model has a shrimp productivity of 14.21 tons / ha.

- The experimental model has an internal IRR of 101.28%, higher than the control of 39.54% and payback period of 1.05 years while that of the control model is 2.26 years.

- The experimental model has less chemical costs and less disease risk, so it is more environmentally friendly. Chemical cost is reduced by VND 17 million / crop (60%). 100% of wastewater is treated and does not be discharged directly into the environment.

- Establishing the process of intensive farming of whiteleg shrimp (Litopenaeus vannamei) applying waste reduction technology by using tilapia to treat suspended organic matter.



2.3 Package 26:



2.4 Package 28: Model of producing oyster mushroom on straw substrate in Nam Dinh Location: Nhat Bang Mushroom Cooperative, Truc Thai Commune, Truc Ninh District, Nam Dinh Province

technology: Cultivating oyster mushroom on rice straw with the addition of organic nutrients replaces inorganic protein sources for high productivity and quality. Result:

Completing mushroom growing processes including oyster mushroom, these Technology Processes have been tested in laboratory conditions and at 4 field farms.

+ Improving raw material for propagating oyster mushroom: Old technology, using 100% paddy rice as a propagation medium for mushroom, new technology using 79% corn cob + 20% rice bran + 1% CaCO3 powder to save price into mushroom production.

+ Improving the growing medium: Old technology uses 94% straw + 5% rice bran + 1% CaCO3, the yield reaches 442 kg of fresh mushrooms / ton of raw materials; New technology added another substrate to straw (64% straw + 30% sawdust + 5% rice bran + 1% CaCO3), helping the yield of fresh oyster mushroom reach 619 kg of fresh mushroom / ton of raw material.

- Difference in economic efficiency of mushroom cultivation technology: (619 kg X 25,000 VND / kg) - (442 kg X25,000 VND / kg) = 4,425,000 VND / ton raw material.



Actual Outputs of Credit Lines Implementation

(As of 31/5/2020)

				Credit Li	ines Number of S	ub-loans			
No	Provinces	VBA	ARD	Соор	bank	Total			
		No. of Sub-loans	Joint Accounts	No. of Sub-loans	Joint Accounts	No. of Sub-loans	Joint Accounts	Women %	
1	Lao Cai	127	127			127	127	100%	
2	Son La					0	0		
3	Phu Tho	8	8	31	31	39	39	100%	
4	Bac Giang	83	83	119	119	202	202	100%	
5	Nam Dinh					0	0		
6	Ha Tinh					0	0		
7	Binh Dinh	16	16	55	55	71	71	100%	
8	Tien Giang	18	18			18	18	100%	
9	Ben Tre					0	0		
10	Soc Trang					0	0		
	Total	252	252	205	205	457	457	100%	

36

Actual Outputs of CSAWMP Researches (As of 31/5/2020)

Package No.	Package name	Final Cost (million VND)	Disbursed (million VND)	Pending payments (million VND)	Actual Outputs
25	Research on organic fertilizer production from livestock waste and bio slurry by value chain	26,787	10,715 (40%)	16,072	Inception report approved; Technology review report approved; Report on updated and detailed pilot site management plan approved. Technology design, production, and assessment report based on workshop and field tesing submitted MARD. The Consultant is revising and completing according to the DSTE's comments.
26	Research on biogas technology improvement and effective biogas utilization by value chain	22,097	8,839 (40%)	13,258	Inception report approved; Technology review report approved; Report on updated and detailed pilot site management plan approved; Technology design, production, and assessment report based on workshop and field tesing submitted MARD. The Consultant is revising and completing according to the DSTE's comments.
27	Research on the water-saving pig farming technology	13,326	9,994 (70%)	3,332	Inception report approved; Technology review report approved; Report on updated and detailed pilot site management plan approved; The Consultant completed the researches and submitted the research result report. The policy report was approved. The Research Completion Report was approved by MARD on 24/4/2020.
28	Research on effective utilization of crop waste by value chain	15,764	1,046 (5%)	14,718 (20%)	Inception report approved; Technology review report approved; Report on updated and detailed pilot site management plan approved; Technology design,

Package No.	Package name	Final Cost (million VND)	Disbursed (million VND)	Pending payments (million VND)	Actual Outputs
					production, and assessment report based on workshop and field tesing submitted for CPMU. CPMU is submitting MARD for approval.
29	Research on the treatment of sludge sediment in shrimp farming	15,314	8,422 (55%)	6,892 (20%)	result report. The policy report was approved. The
42	Piloting technology for special designed organo-mineral fertilizers production from livestock waste and Bio-slurry for key crops in Vietnam	3,997	2,587 (65%)	1,410 (20%)	Inception report approved; Technology review report approved; Report on updated and detailed pilot site management plan approved; The Consultant completed the researches and submitted the research result report. The policy report was approved. The Consultant is drafting a report on the completion of the bidding package.
43	Establishing comprehensive system of production and supply of microbial product for organic fertilizer production from agricultural waste and bio-slurry	3,096	0	3,096	Inception report approved; Technology review report submitted and accepted by MARD (on 21/4/2020)
	Total	100,381	41,603	58,778	

Actual Outputs of CSAWMP Demonstrations

(As of 31/5/2020)

Package No.	Package name	Provinces	Final Cost (million VND)	Disbursed (million VND)	Pending Payments (million VND)	Actual Outputs
32	Supply of manure separating systems to treat livestock waste to produce material for organic fertilizer demonstration	Bac Giang, Ben Tre, Binh Dinh, and Phu Tho	Total contract: 27.492 Lot 1: Bắc Giang: Contract price: 7.117 Lot 2: Bến Tre: Contract price: 4.983 Lot 3: Bình Định: Contract price: 3.957 Lot 4: Phú Thọ Contract price: 11.435	Lot 1: Bắc Giang: Disbursed: 100%; Lot 2: Bến Tre: Disbursed: 100%. Lot 3: Bình Định: Disbursed: 100%; Lot 4: Phú Thọ Disbursed: 100%;	0.00	Lot 1: Bắc Giang: Contract No.01/LCASP_02, date 11 July 2017; Completion date: 11 July 2018 8 systems. Lot 2: Bến Tre: Contract No.60/HD-LCASP, date 21 July 2017; Completion date: 21 July 2018; Extension by: 31/3/2019 5 systems. Lot 3: Bình Định: Contract No.001/HDKT-LCASP_04, date 18 July 2017; Completion date: 18 July 2018; Extension by: 19/9/2018 4 systems. Lot 4: Phú Thọ Contract No.1028.17/LCASP.PT- YGC, date 18 July 2017; Completion date: 18 July 2018; Extension by: 30/12/2018 13 systems. 30 separator systems have been installed and transferred to the farmers and it is in good working order
33	Supply of manure separating system to treat livestock waste to produce material for organic fertilizer demonstration	Ha Tinh, Nam Dinh, Soc Trang, Son La, and Tien Giang	Total contract: 19.760 Lot 1: Hà Tĩnh: Contract price: 2.277 Lot 2: Nam Định: Contract price: 6.274 Lot 3: Sóc Trăng Contract price: 1.427 Lot 4: Sơn La Contract price: 4,785 Lot 5: Tiền Giang Contract price: 4.996	Lot 1: Hà Tĩnh: Disbursed: 100%; Lot 2: Nam Định: Disbursed: 100%; Lot 3: Sóc Trăng Disbursed: 100%. Lot 4: Sơn La Disbursed: 100%; Lot 5: Tiền Giang Disbursed: 100%;	0.00	Lot 1: Hà Tĩnh: Contract No.01/2017/MHTD33- LCASP/HT, date 26 October 2017; Completion date 26 October 2018; Extension by: 30/12/2018 2 systems. Lot 2: Nam Định: Contract No.75/HĐKT, date 28 October 2017; Completion date 28 October 2018; 7 systems. Lot 3: Sóc Trăng: Contract No.03/ST/HĐ/LCASP, date 06 November 2017; Completion date 06 November 2018; Extension by:30/5/2019 1 system. Lot 4: Son La: Contract No.27102017, date 27 October 2017; Completion date 27 October 2018; 5 systems.

Package No.	Package name	Provinces	Final Cost (million VND)	Disbursed (million VND)	Pending Payments (million VND)	Actual Outputs
						Lot 5: Tiền Giang: Contract No.15/HĐ2017, date 07 November 2017; Completion date 07 November 2018; Extension by:31/12/2018 5 systems 20 separator systems have been installed and transferred to the farmers and it is in good working order
34	Supply of biogas generator and manure separating system for comprehensive management of livestock waste demonstration	Binh Dinh, Ha Tinh, Nam Dinh and Soc Trang	Total contract: 10.248 Lot 1: Bình Định: Contract price: 2.382 Lot 2: Hà Tĩnh: Contract price: 1.874 Lot 3: Nam Định: Contract price: 3.650 Lot 4: Sóc Trăng Contract price: 2.342	Lot 1: Bình Định: Disbursed: 100%; Lot 2: Hà Tĩnh: Disbursed: 100%; Lot 3: Nam Định: Disbursed: 100%; Lot 4: Sóc Trăng Disbursed: 100%;	0.00	Lot 1: Binh Định: Contract No. 004/HĐKT-LCASP04, date 22 May 2018; Completion date 22 May 2019; Extension by: 22/6/2019 1 system. Lot 2: Hà Tĩnh: Contract No.01/2018/MHTD34- LCASP/HT, date 24 April 2018; Completion date 28 April 2019; Extension by: 30/12/2018 1 system. Lot 3: Nam Định: Contract No.46/BQLDALCASP, date 20 April 2018; Completion date 20 April 2019 2 systems. Lot 4: Sóc Trăng: Contract No.06/ST/HĐ-LCASP, date 10 May 2018; Completion date 10 May 2019 1 system.
35	Supply of mobile manure separating system to treat livestock waste to produce material for organic fertilizer demonstration at household scale	Bac Giang, Ben Tre, Binh Dinh and Lao Cai	Total contract: 4,413 Lot 1: Bắc Giang: Contract price: 2.802 Lot 3: Bình Định: Contract price: 1.611	Lot 1: Bắc Giang: Disbursed: 100%; Lot 3: Bình Định: Disbursed: 100%;	0.00	farmers and it is in good working order Lot 1: Bắc Giang: Contract No.54/HĐKT, ate 08 June 2018; Completion date 08 June 2019 2 systems. Lot 3: Bình Định: Contract No.005/HĐKT-LCASP04, date 01 June 2018; Completion date 01 June 2019 1 systems. 02 mobilized separator systems have been installed and transferred to the farmers and it is in good working order

Package No.	Package name	Provinces	Final Cost (million VND)	Disbursed (million VND)	Pending Payments (million VND)	Actual Outputs	
36	Supply of biogas generator system for demonstration	Binh Dinh, Ha Tinh, Lao Cai, Soc Trang and Tien Giang	Total contract: 6.272 Lot 1: Bình Định: Contract price: 1,446 Lot 3: Lào Cai: Contract price: 2.896 Lot 4: SAC: Contract price: 761 Lot 5: Tiền Giang Contract price: 1.169	Lot 1: Bình Định Disbursed: 100%; Lot 3: Lào Cai: Disbursed: 100%; Lot 4: SAC: Disbursed: 100%; Lot 5: Tiền Giang Disbursed: 100%;	0.00	Lot 1: Binh Định: Contract No.002/HĐKT-LCASP-04, date 17 November 2017; Completion date 17 November 2018 1 system. Lot 3: Lào Cai: Contract No. 002/LCASP-06, date 09 November 2017; Completion date 09 November 2018; Extension by: 31/1/2019 21 systems. Lot 4: Sóc Trăng: Contract No.04/ST/HĐ/LCASP, date 06 November 2017; Completion date 06 November 2018; Extension by: 31/3/2019 1 system. Lot 5: Tiền Giang: Contract No.16/HDD2017, date 07 November 2017; Completion date 07 NOvember 2018; Extension by: 31/12/2018 2 systems. 25 generator systems have been installed and transferred to the farmers and it is in good working order	
37	Supply of utilization system for treatment of biogas digested effluent demonstration as the fertilizer of the crops	Soc Trang and Binh Dinh	Total contract: 4.124 Lot 1: Bình Định: Contract price: 1.993 Lot 2: Sóc Trăng: Contract price: 2.131	Lot 1: Bình Định: Disbursed: 100%; Lot 2: Sóc Trăng: Disbursed: 100%;	0.00	• •	
38	Supply of utilization system for treatment of cattle dung as the feedstock	Soc Trang	Total contract: 334	Disbursed: 100%;	0.00	Contract No.01/2018/HĐDVKH-ITED date 31 May 2018; Completion date 31 May 2019 4 households have been transferred the technology for rearing worms with cow dung and are doing well.	

Package No.	Package name	Provinces	Final Cost (million VND)	Disbursed (million VND)	Pending Payments (million VND)	Actual Outputs
	for red worm raising demonstration					
44	Supplying comprehensive waste management system for demonstration of manure separating to produce organic fertilizer material, fully utilization of biogas by generator, and bio-slurry treatment for crop watering in Bac Giang province	Bac Giang	Total contract: 1,965	Disbursed: 100%;	0.00	Contract No. 003/HDKT-LCASP-04, dated February 28, 2018; Date of completion: February 28, 2019. 1 system has been installed and transferred to farmers and is working well
45	Supply of utilisation system for treatment of biogas digested effluent demonstration as the fertiliser of the crops for Ha Tinh	Ha Tinh	Total contract: 1,996	Disbursed: 100%;	0.00	Contract No. 587/2019 / HĐHH / LCASP / MHTD45, June 17, 2019; Date of completion July 17, 2019. Completely installed, are technically tested to put into use.

Package No.	Package name	Provinces	Final Cost (million VND)	Disbursed (million VND)	Pending Payments (million VND)	Actual Outputs
47	Supply of farm scale biogas generator system for demonstration of Bac Giang province	Bac Giang	Total contract: 1,988	Disbursed: 100%;	0.00	Contract No. 19 / HDKT, May 14, 2019; Date of completion is before June 30, 2019; Extended by August 23, 2019 Two generator systems have been installed and transferred to the two farmers, and both are working well.
48	Supply of utilization system for treatment of biogas digested effluent demonstration as the fertilizer of the crops for Bac Giang	Bac Giang	Total contract: 1,980	Disbursed: 100%;	0.00	Contract No. 20 / HDKT, May 14, 2019; Date of completion is before June 30, 2019; Extended by August 23, 2019 1 generator system and 1 irrigation system have been installed and transferred to farmers and both are in good working order.
49	Supply of utilization system for treatment of pig waste as the feedstock for red worm raising demonstration for Bac Giang province	Bac Giang	Total contract: 1,972	Disbursed: 100%;	0.00	Contract No. 21 / HDKT, May 15, 2019; Date of completion is before June 30, 2019; Extended by August 23, 2019 01 household has been transferred technology to raise earthworms by pig manure after separation and is working very well

Actual Outputs of CSAWMP Training	
-----------------------------------	--

(As of 31/5/2020)

		rained on CSAW	/MP		
No	Provinces	Farmers		Extensi	on Staff
		Total	Women	Total	Women
0	CPMU			274	82
1	Lao Cai	1000	429	39	16
2	Son La	748	526	212	77
3	Phu Tho	3,641	1,947	305	165
4	Bac Giang	3,630	2,054	67	31
5	Nam Dinh	6,645	3,327	100	50
6	Ha Tinh	1,069	644	33	15
7	Binh Dinh	1,401	472	387	82
8	Tien Giang	3,377	1,799	0	0
9	Ben Tre	840	192	322	60
10	Soc Trang	2,731	1,260	0	0
	Total 25,082		12,650	1,739	578
Percentage			50.4%		33.2%

		ADB Loan	Cum. Con.		
No.	CPMU/ Province	Required	Awards as of	T6/ 2020	Ratio
		(VND mil.)	31/5/2020	10/ 2020	%
*	CPMU	267,904	266,538	1,366	99%
1	Binh Dinh	58,990	57,302	1,688	97%
2	Bac Giang	78,446	72,586	5,860	93%
3	Ben Tre	31,955	30,675	1,280	96%
4	Ha Tinh	33,667	33,467	200	99%
5	Lao Cai	34,494	33,428	1,066	97%
6	Nam Dinh	60,859	53,999	6,860	89%
7	Phu Tho	69,258	69,258	0	100%
8	Soc Trang	24,971	24,492	479	98%
9	Son La	23,224	21,851	1,373	94%
10	Tien Giang	28,853	28,802	50	100%
11	VBARD	6,530	6,530		
12	Co-opbank	18,276	18,276		
tal in VND mil.		737,426	717,203	20,222	97%

Overall Projected Contract Award Schedule for ADB Loan

FX (31 M 23203

0.8715252

		ADB Loan	Cumulative		
No.	CPMU/Province	Required	Disburs. As of	T6/ 2020	Ratio
		(VND mil.)	31/5/2020	10/ 2020	%
*	СРМИ	267,904	207,030	60,875	77%
1	Binh Dinh	58,990	57,302	1,688	97%
2	Bac Giang	78,446	66,737	11,709	85%
3	Ben Tre	31,955	30,675	1,280	96%
4	Ha Tinh	33,667	33,467	200	99%
5	Lao Cai	34,494	32,530	1,964	94%
6	Nam Dinh	60,859	53,999	6,860	89%
7	Phu Tho	69,258	68,243	1,015	99%
8	Soc Trang	24,971	24,492	479	98%
9	Son La	23,224	21,851	1,373	94%
10	Tien Giang	28,853	27,182	1,670	94%
11	VBARD	6,530	6,530		
12	Co-opbank	18,276	18,276		
	Total in VND mil.	737,426	648,312	89,113	88%

Overall Projected Disbursement Schedule for ADB Loan

FX (31 May 202 23203

3.84057

Total CF Cumulative Disbursed CPMU/ No 2020 2021 Required Disburs. as of Ratio **Province** 31/12/2019 T1-5 Т6 QIII QIV QI QII QIII % (VND mil.) QIV * CPMU 25,260 3,026 1,500 1,250 1,250 37,036 750 1,500 1,250 1,250 76% Binh Dinh 350 4,234 310 300 300 1 5,494 83% Bac Giang 456 200 330 340 2 4,780 3,455 82% 100 3 Ben Tre 2,579 2,029 227 123 100 87% Ha Tinh 6,149 5,649 320 180 0 0 97% 4 Lao Cai 3,656 3,106 170 20 130 130 50 50 5 90% Nam Dinh 3,929 270 0 230 300 50 50 87% 6 4,829 7 Phu Tho 3,987 3,557 142 250 50 38 50 50 93% Soc Trang 3,849 2,953 0 296 300 300 8 77% Son La 0 400 400 9 4,584 3,484 300 76% 112 10 Tien Giang 2,475 1,835 100 164 164 50 50 79% 11 VBARD 0 1,152 1,152 12 Co-opbank 0 3,225 3,225 Total 63,868 5,033 1,450 1,250 83,795 2,519 3,504 3,622 1,450 1,250 82%

Overall Provision and Projection of Counterpart Funds

Total C.F Requirements for 2

Total Shortage of counterpa

Compliance of Loan Covenants (as of 31/5/2020)

No.	Schedule	Description	Remarks/Issues	Туре
1	Article 4	(a) The Borrower shall cause the FIs to carry out the Project with due diligence and efficiency and in conformity with sound applicable technical, financial, business and development practices.	Being complied with	Financials
2	Article 4	(b) In the carrying out of the Project and operation of the Project facilities, the Borrower shall perform, or cause to be performed, all the obligations set forth in Schedule 5 to this Loan Agreement and the Project Agreement.	Being complied with	Others
3	Schedule 5	The Borrower shall ensure that the Project is implemented in accordance with the detailed arrangements set forth in the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower and ADB. In the event of any discrepancy between the PAM and the Loan Agreement, the provisions of the Loan Agreement shall prevail.	Being complied with	Others
4	Article 3	The Borrower shall cause the proceeds of the Loan to be applied to the financing of expenditures on the Project in accordance with the provisions of this Loan Agreement and the Project Agreement.	Being complied with	Financials
5	Article 3	The Borrower shall enter into a Subsidiary Loan Agreement with each FI, providing inter alia for the relending of part of the proceeds of the Loan not exceeding twenty-three million two hundred and thirty-nine thousand Special Drawing Rights (SDR23,239,000) in aggregate to all FIs, the carrying out by the FIs of the Project activities described in Part 2 of paragraph 2 of Schedule 1 to the Loan Agreement, and the rights of the Borrower and ADB with respect thereto. Such Subsidiary Loan Agreements shall contain terms and conditions acceptable to ADB, and shall be without prejudice to, and without limitation on, the obligations of the Borrower under the Loan Agreement.	Complied with	Financials
6	Article 4	(a) The Borrower shall (i) maintain separate accounts and records for the Project; (ii) prepare annual financial statements for the Project in accordance with accounting principles acceptable to ADB; (iii) have such financial statements audited annually by independent auditors whose qualifications, experience and terms of reference are acceptable to ADB, in accordance with international standards for auditing or the national equivalent acceptable to ADB; (iv) as part of each such audit, have the auditors prepare a report (which includes the auditors' opinion on the use of the Loan proceeds and compliance with the financial covenants of this Loan Agreement as well as on the use of the procedures for the imprest fund and statement of expenditures) and a management letter (which sets out the deficiencies in the internal control of the Project that were identified in the course of the audit. if any); and (v) furnish to ADB, no later than 6 months after the end of each related fiscal year, copies of such audited financial statements, audit report and management letter, all in the English language, and such other information concerning these documents and the audit thereof as ADS shall from time to time reasonably request.	Being complied with	Financials

7	Article 4	(b) ADB shall disclose the annual audited financial statements for the Project within 30 days of the date of their receipt by posting them on ADB's website.	Being complied with	Financials
8	Article 4	(c) The Borrower shall enable ADB, upon ADB's request, to discuss the financial statements for the Project and the Borrower's financial affairs where they relate to the Project with the auditors appointed pursuant to subsection (a)(iii) hereinabove and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB. This is provided that such discussions shall be conducted only in the presence of an authorized officer of the Borrower, unless the Borrower shall otherwise agree.	Being complied with	Financials
9	Schedule 5	(a) Within 12 months of the date of effectiveness of the Loan Agreement, the Borrower shall submit written evidence satisfactory to ADB showing that a TSU has been established under the CPMU to undertake Project-advisory activities as described in the PAM.	Complied with	Others
10	Schedule 5	(b) The evidence to be delivered under paragraph (a) above shall: (i) provide the names of counterpart staff from the government agencies specified in the PAM who together will comprise the TSU; and (ii) provide the name of the head of the TSU, who shall be determined during Project implementation.	Complied with	Others
11	Schedule 5	(c) The Borrower shall ensure or cause CPMU to ensure that no amount is deposited into the TSU's sub-account unless and until the Borrower has complied with paragraphs (a) and (b) above and the terms of reference for each member of the TSU have been agreed with ADB. Such terms of reference shall reflect the purely technical and advisory role of the TSU and shall not include any activities related to Project management or implementation, which shall be undertaken by the Project Executing Agency and IAs only.	Complied with	Others
12	Schedule 5	The Borrower shall ensure that each Subsidiary Loan, unless otherwise agreed by ADB: (i) is denominated in Dong; (ii) has a maturity, grace period and interest rate to be determined by the Borrower in accordance with the Borrower's lending practices applicable to the onlending of funds externally borrowed by the Borrower; and (iii) is made under such other terms and conditions acceptable to ADB.	Complied with	Financials
13	Article 3	The Borrower shall cause the FIs to onlend the proceeds of the Subsidiary Loans to Eligible Beneficiaries under Subloan Agreements, under Part 2 of paragraph 2 of Schedule 1 to the Loan Agreement and in accordance with the provisions of the Loan Agreement.	Being complied with	Financials
14	Article 4	In addition to the reports and information set forth in Section 6.05 of the Loan Regulations, the Borrower shall furnish, or cause to be furnished, to ADB all such reports and information as ADB shall reasonably request concerning (a) the Eligible Beneficiaries, the Eligible Subprojects and the Subloans; and (b) the administration, operations and financial condition of each FI.	Being complied with	Financials
15	Article 4	The Borrower shall enable ADB's representatives to inspect the Project, the Goods and Works, any Eligible Beneficiary, any Eligible Subproject, and any relevant records and documents.	Being complied with	Others

	-			
16	Article 3	The proceeds of the Loan shall be allocated and withdrawn in accordance with the provisions of Schedule 3 to the Loan Agreement, as such Schedule may be amended from time to time by agreement between the Borrower and ADB.	Being complied with	Financials
17	Schedule 5	For each Biogas Value Chain Infrastructure construction project to be financed by a Subloan under Part 2 of paragraph 2 of Schedule 1 to the Loan Agreement, the Borrower shall cause the relevant FI to ensure that: (i) such Subloan is made only to Eligible Beneficiaries for Eligible Subprojects; (ii) the Biogas Plant is constructed by certified masons or contractors who will certify compliance with the relevant technical and environmental standards specified in the Subproject Eligibility Criteria; and (iii) the Subproject Eligibility Criteria is incorporated into each FI's standard loan eligibility criteria to ensure the targeted clients under the Project is reached and the Project objectives are achieved.	Being complied with	Financials
18	Article 3	Except as ADB may otherwise agree, the proceeds of the Subsidiary Loans shall be used only for making Subloans to Eligible Beneficiaries for Eligible Subprojects and shall be applied exclusively to the cost of Goods and Works and other items of expenditure required to carry out such Eligible Subprojects.	Being complied with	Financials
19	Article 4	The Borrower shall promptly take all action, including the provision of funds, facilities, services and other resources, which shall be necessary on its part to enable the FIs to perform their respective obligations under the Project Agreement, and shall not take or permit any action which would interfere with the performance of such obligations.	Being complied with	Financials
20	Schedule 5	For each medium and each large Biogas Value Chain Infrastructure construction project to be financed by a Subloan under Part 2 of paragraph 2 of Schedule 1 to the Loan Agreement, the Borrower shall prioritize construction of such plant in a CLZ (if any).	Complied with	Others
21	Schedule 5	The Borrower shall ensure that: (i) the Fls together provide counterpart financing in an amount not less than \$6,300,000 in aggregate to finance the Project activities described in Part 2 of paragraph 2 of Schedule 1 to the Loan Agreement; (ii) for each Subloan, a maximum of 85% of the original principal amount of that Subloan is financed from a Subsidiary Loan, a minimum of 15% is financed from the relevant Fl's own funds and the recipient borrower of the Subloan shall be contributed in-kind including by providing available local materials and/or labor of equivalent value; (iii) each Subloan has an interest rate as agreed by MOF and the Fl concerned as set out in the relevant Subsidiary Loan Agreement; (iv) the interest rate for each Subloan is determined based on market interest rates; and (v) each Subloan has such other terms and conditions as required in the Guidelines for Biogas Value Chains and any other terms and conditions for a Subloan, the Borrower and the Fls shall take into consideration, and hence ensure, that Eligible Beneficiaries have access to affordable financial sources for construction of Biogas Plants and the Borrower shall ensure or cause the Fls to ensure that no amendments, waivers, supplements or other modifications are made to the terms and conditions of any Subloan which would jeopardize this principle.	Being complied with	Financials

22	Article 3	Except as ADB may otherwise agree, the Borrower shall procure, or cause to be procured, the items of expenditure to be financed out of the proceeds of the Loan in accordance with the provisions of Schedule 4 to the Loan Agreement.	Being complied with	Others			
23	Article 4	(a) The Borrower shall exercise its rights under the Subsidiary Loan Agreements in such a manner as to protect the interests of the Borrower and ADB and to accomplish the purposes of the Loan.	Being complied with	Financials			
24	Article 4	(b) No rights or obligations under the Subsidiary Loan Agreements shall be assigned, amended, abrogated or waived without the prior concurrence of ADB.					
		Withdrawals from the Loan Account in respect of Goods, Works and Consulting Services shall be made only on account of expenditures relating to:					
25	Article 3	(a) Goods which are produced in and supplied from, and Works and Consulting Services which are supplied from such member countries of ADB as shall have been specified by ADS from time to time as eligible sources for procurement; and	Being complied with	Others			
		(b) Goods, Works and Consulting Services which meet such other eligibility requirements as shall have been specified by ADB from time to time.	Being complied with				
26	Schedule 5	The Borrower shall allocate a fund to Eligible Beneficiaries as a financial incentive to carry out Eligible Subprojects and supporting carbon market development. Such allocation shall be done in accordance with the PAM.	Being complied with	Others			
27	Schedule 5	In respect of an Eligible Subproject, the Borrower shall ensure or cause the CPMU, PPMUs and Fls to ensure that allocated funds are not credited to the accounts of the relevant Eligible Beneficiaries until the PPMU associated with that Eligible Subproject has confirmed to the relevant Fl and ADB following due investigation and physical inspection and such certifications as required under paragraph 4(ii) above, that such Eligible Subproject and certification has complied with all technical, engineering, construction, environmental and other requirements and safeguards set out in the Subproject Eligibility Criteria.	Being complied with	Others			
28	Schedule 5	The Borrower shall ensure or cause the CPMU, PPMUs and Fls to ensure that the Subproject Eligibility Criteria is not amended, supplemented, waived, deferred or otherwise modified in any way without the prior consent of ADB.	Being complied with	Others			
29	Schedule 5	The Borrower shall ensure that the portfolio of Subloans shall be accounted for and reported separately by the FIs in such form and at such frequency as may be required by ADB.	Being complied with	Financials			
30	Schedule 5	The Borrower shall immediately notify ADB if at any time it receives information from an FI that: (i) the percentage of non-performing Subloans financed by that FI is likely to exceed 5% of the aggregate outstanding amount of all Subloans financed by that FI at that time; and (ii) the percentage of non-performing Subloans financed by that FI is likely to exceed 10% of the aggregate outstanding amount of all Subloans financed by that FI at that time (the "NPL Limit"). If, at any time, it receives information from an FI that the NPL Limit has been exceeded, until further notice given by ADB, the Borrower shall immediately cease processing any current or pending withdrawal applications for Subsidiary Loans to that FI and shall temporarily suspend all further disbursements under Subsidiary Loans to that FI	Being complied with	Financials			

	-		-	
31	Schedule 5	The Borrower shall ensure or cause the FIs to ensure that none of the Subprojects involve any environmental, involuntary resettlement impacts or impacts on indigenous peoples or ethnic minority groups which can be categorized as Category A, all within the meaning of the Safeguard Policy Statement.	Being complied with	Safeguards
32	Schedule 5	The Borrower shall ensure that: (i) the Project does not have any involuntary resettlement impacts within the meaning of the Safeguard Policy Statement; and (ii) the site selected for any Subproject shall be situated on land already owned by the Eligible Beneficiary thereby ensuring that the Subproject will not entail any land acquisition. In the event that the Project does have any such involuntary resettlement impacts, the Borrower shall take all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and with the Safeguard Policy Statement.	Being complied with	Safeguards
33	Schedule 5	The Borrower shall ensure or cause the Fls to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Eligible Subproject and all Project facilities comply with: (i) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (ii) the Environmental Safeguards; (iii) the EARF; and (iv) all measures and requirements set forth in the respective IEE and EMP and any corrective or preventative actions set forth in a Environmental Monitoring Report.	Being complied with	Safeguards
34	Schedule 5	The Borrower shall ensure or cause the FIs to ensure that the preparation, design, construction, implementation and operation of each Eligible Subproject complies with (i) all applicable laws and regulations of the Borrower relating to ethnic minorities; (ii) the Indigenous Peoples Safeguards; and (iii) all measures and requirements set forth in the EMDP, and any corrective or preventative actions set forth in an Environmental Monitoring Report.	Being complied with	Safeguards
35	Schedule 5	The Borrower shall ensure that the EMDP prepared for the Project and agreed with ADB is updated and fully implemented in a timely manner, and that adequate resources are allocated for this purpose.	Being complied with	Safeguards
		The Borrower shall do the following or cause the FIs to do the following:		
		(a) submit semi-annual Environmental Monitoring Reports to ADB;	Being complied with	
36	Schedule 5	(b) if any unanticipated environmental and/or social risks and impacts arise during Eligible Subproject implementation promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and	Being complied with	Safeguards
		(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EARF and any EMP or EMDP promptly after becoming aware of the breach.	Being complied with	
37	Schedule 5	The Borrower shall cause the Project Executing Agency to ensure that: (i) the contracts for relevant Works contain provisions prohibiting use of child: labor and differentiation in wages between male and female workers for work of equal value, in accordance with the relevant laws and regulations of the Borrower; (ii) such contracts also include mandatory provisions on health, sanitation and appropriate working conditions; and (iii) contractors and their workers observe local protocols concerning acceptable behavior towards the local population.	Being complied with	Social

38	Schedule 5	The Borrower shall ensure that the gender action plan prepared for the Project and agreed with ADB is fully implemented in a timely manner and that adequate resources are allocated for this purpose. The gender action plan for the Project ensures that (i) at least 20% of those who are trained in biogas management and technical issues are women; (ii) at least 20% of those who are trained and certified as masons for the construction of small Biogas Plants are women and at least 80% of these women shall find employment; (iii) at least 50% of those trained on utilization of biogas technology and operation and maintenance are women; (iv) at least 50% of those who are trained on farm management and waste management on farms are women; (v) at least 30% of employees trained in medium Biogas Plants and large Biogas Plants are women; (vi) at least 50% of recipients of Subloans from FIs will be registered under husband-wife joint accounts or on behalf of women; (vii) at least 50% of official registration of all purchased biogas units and plants under the Project will be under husband-wife joint accounts or on behalf of women; (viii) 30% of research topics undertaken under Part 3 of paragraph 2 of Schedule 1 to the Loan Agreement relate to gender issues associated with Biogas Plants; (ix) at least 40% of those selected as champions of smart-agriculture in research and consultations will involve women-only groups; (xi) a sex-disaggregated and ethnic minority data base is established as part of the Project's project performance and monitoring system established by the CPMU; (xii) 30% of staff in the CPMU and PPMUs are women and that the CPMU and each PPMU has a gender focal point; and (xiii) gender indicators are included in the overall monitoring and evaluation framework for the Project.	(i) Being complied with (ii) Partially complied with (iii) Being complied with (iv) Partially complied with (v) Partially complied with (vi) Complied with (vii) Complied with (viii) Complied with (ix) Partially complied with (x) Partially complied with (x) Partially complied with (xi) Complied with (xi) Complied with (xii) Complied with (xiii) Complied with	Social
39	Schedule 5	The Borrower shall ensure that in all Project Provinces, information dissemination, education and mass -communication activities are carried out in a timely manner to promote the replication of biogas technology application and utilization.	Being complied with	Social
40	Schedule 5	The Borrower shall ensure or cause the FIs to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the Safeguard Policy Statement.	Being complied with	Others
41	Schedule 5	The Borrower shall comply with, and shall cause the Project Executing Agency, the TSU and each IA to comply with ADB's Anticorruption Policy (1998, as amended to date). The Borrower: (i) acknowledges that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (ii) agrees to cooperate with, and to cause the Project Executing Agency, the TSU and each IA to cooperate fully with any such investigation and extend all necessary assistance, including providing access to all relevant books and records, as may be necessary for satisfactory completion of such investigation and shall allow, and cause the Project Executing Agency, the TSU and each IA to allow, ADB to investigate any violation or potential violation of these undertakings.	Being complied with	Others

42	Schedule 5	Without limiting the generality of the preceding paragraphs, the Borrower shall: (i) ensure that the Project Executing Agency and each IA conduct periodic inspections on the contractors' activities related to fund withdrawals and settlements; and (ii) ensure and cause the Project Executing Agency and each IA to ensure that all bidding documents and contracts financed by ADB in connection with the Project include anticorruption provisions acceptable to ADB including provisions specifying the right of ADB to audit and examine the records and accounts of the contractors, suppliers, consultants, and other service providers as they relate to the Project.	Being complied with	Others
43	Schedule 5	If the Borrower or ADB is or becomes aware or has a reasonable suspicion that any member of the Project Executing Agency, TSU or any IA has engaged in corrupt or fraudulent practices (as defined in ADB's Anticorruption Policy (1998 as amended to date)) under or in connection with the Project or the Loan, the Borrower shall take such timely and appropriate action satisfactory to ADB to investigate and/or remedy the situation, including in the case of corrupt or fraudulent practices of an FI, demanding immediate repayment or otherwise recovering any portion of the relevant Subsidiary Loan, with such repayment or recovery to be promptly paid to ADB in prepayment of the Loan. If the Borrower does not undertake investigative and/or remedial action to the satisfaction of ADB, without prejudice to any other rights contained in this Loan Agreement, ADB may declare the relevant FI ineligible, either indefinitely or for a stated period, to be considered as a provider of financial intermediary loans or any other financial instruments for future ADB projects.	Being complied with	Others
44	Schedule 5	In addition to these requirements, to deter corruption and increase transparency, the Borrower shall create a Project website within 5 months of the Effective Date, accessible by the general public, to disclose various information concerning the Project including general information about the Project, public procurements related to the Project, Project progress and contact details in English and Vietnamese languages. The website shall also provide a link to ADB's Integrity Unit (http://www.adb.org/Integrity/complaint.asp) for reporting to ADB any grievances or allegations of corrupt practices arising out of the Project and Project activities. For each contract, the website shall include information on, among others, the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted, amount of contract awarded, and the list of goods/services, including consulting services, procured. The Borrower shall cause the Project Executing Agency to permit any bidder to request an explanation as to why a bid was unsuccessful and either the Project Executing Agency shall respond within 20 working days. The website will be updated promptly and regularly after each award of contract, (ii) each submission of the semi-annual Environmental Monitoring Report to ADB. In addition to the web-based disclosure, stakeholders, which include civil society and non-governmental organizations, shall be provided by the Borrower with detailed information on procurement on public notice boards in their respective areas.	Being complied with	Others

45	Schedule 5	The Borrower shall and shall ensure that the Project Executing Agency and each IA complies with: (i) ADB's policy relating to Enhancing the Asian Development Bank's Role in Combating Money Laundering and the Financing of Terrorism (2003); and (ii) applicable laws and regulations of the Borrower on combating money laundering and financing of terrorism and that Loan proceeds are not used, directly or indirectly, in money laundering or financing of terrorism.	Being complied with	Others
46	Schedule 5	The Borrower shall ensure that each FI formulates and implements internal control procedures, including customer due diligence procedures, to prevent violation of paragraph 26 above.	Being complied with	Others
47	Schedule 5	The Borrower shall and shall ensure that each FI promptly informs the Borrower and ADB if there is any violation or potential violation of paragraph 26 above. In the event that ADB informs an FI of its concern that there has been such an alleged violation, that FI shall: (i) cooperate in good faith with ADB and its representatives so that ADB can determine whether such a violation has occurred; (ii) respond promptly and in reasonable detail to any query from ADB; and (iii) furnish documentary support for such response upon ADB's request.	Being complied with	Others

Table 1: GENDER ACTION PLAN (GAP) MONITORING TABLE

Project: Loan 2968-VIE: Low Carbon Agricultural Support Project

Date of update: 10/6/2020

Project Outputs	Proposed targets / Actions			Actual Achieve	ment		Issues / Challenge
1. Expanded livestock waste management	1. T1 : At least 20% of those who are trained in biogas management and technical issues are women.	The project co	ment and techn			eer, contractors in ants, of which 304	
infrastructure			Total	Women	% Women		
		CPMU	756	186	24.6		
		Lao Cai	27	7	25.9		
		Son La	75	11	14.7		
		Phu Tho	127	45	35.4		
		Bac Giang	43	11	25.6		
		Nam Dinh	70	13	18.6		
		Ha Tinh	56	14	25.0		
		Binh Dinh	53	8	12.9		
		Tien Giang	25	4	16.0		
		Ben Tre	22	3	13.6		
		Soc Trang	73	2	2.7		
		Total	1,327	304	22.9		

Project Outputs	Proposed targets / Actions			Actual Ac	hievement			Issues / Challenge
	2• T2. At least 50% of trainees on biogas use will be women.	Achieved: The project condu 116,584 participal				ngs at home on biogants (52.8%).	gas use for	
		Provinces	Total	Wo	men	% Women		
		Lao Cai	9,32	2	4,898	52.5%		
		Son La	3,25		1,242	38.1%		
		Phu Tho	20,23		11,460	56.6%		
		Bac Giang	17,68	9	8,737	49.4%		
		Nam Dinh	11,93		6,636	55.6%		
		Ha Tinh Binh Dinh	<u>13,12</u> 9,90		8,234 4,704	<u>62.7%</u> 47.5%		
		Tien Giang	<u> </u>		6,254	72.1%		
		Ben Tre	15,90		6,913	43.5%		
		Soc Trang	6,53		2,452	37.5%		
		Total	116,584	- 6	61,548	52.8%		
	3• T3. At least 20% of trainees on SBP construction issues will be women. (<i>Adjusted 7% in MTR</i>	Partially achieved PPMUs conducted participants includ	d training co		nstruction of	f small Biogas Plan	ts with 440	Mason of Biogas Plants (BP) are usually professional and skillful masons and get further
	(Adjusted 7% in MTR mission)	CPMU/ PPMU	Total	Women	% Womer	2		training on BPs, it is a
	,	Lao Cai	49	4	8.			high skilled job but not a
		Son La	29		0.			full-time job, so it is
		Phu Tho	70	12	17.			difficult for women to
		Bac Giang	19	1	5.	3		get trained and become
		Nam Dinh	-	-	0.	0		masons.
		Ha Tinh	126	3	2.	4		
		Binh Dinh	28	-	0.	0		
		Tien Giang	34	-	0.			
		Ben Tre	28	5	17.			
		Soc Trang	57	1	1.			
		Total	440	26		6		

2.Credit lines for biogas value chains 5. T5 recipio under accou wome 6. T6. the pu plants	counts or on behalf of	including 3 won • Achieved: There are 457	nen (2.4%		ruction of MBPs and LB of credit recipients are women.		The number of female engineers, and contractors' representatives is small, and hence it is difficult to meet the project training target of the women participation The households have to obtain the authorized
for biogas value chains recipie under accou wome 6• T6. the pu plants	ipients will be registered ler husband-wife joint counts or on behalf of	There are 457 husband-wife jo				e registered under	
6• T6 . the pu plants	men.	PPMU					papers from their
the pu plants			Total	Husband-wife or	% Husband-wife or		spouses and certified
the pu plants				women	women		by the Commune
the pu plants		Lao Cai	127	127	100		People's Committees to
the pu plants		Phu Thọ	39	39	100		register the accounts
the pu plants		Bac Giang	202	202	100		under their names.
the pu plants		Binh Dinh	71	71	100		
the pu plants		Tien Giang	18	18	100		
the pu plants		Total	457	457	100		
	F6 . Official registration of all purchased biogas units and nts under the project be assisted. At least 50% of th will be under band-wife joint accounts or behalf of women		r husband Total 127 39 202 71 18	d-wife joint account Husband-wife or women 127 39 202 71 18	ents and 100% of cre s or on behalf of women % Husband-wife or women 100 100 100 100 100		
			457	457	100		

Project Outputs	Proposed targets / Actions	Actual Achievement	Issues / Challenge
3.Enhanced CSAWMP technology transfer	7• A1. Gender sensitive research strategy prepared.	• Achieved: Research strategy to direct project research activities on CSAWMP was developed in 2015. This research strategy analyzed existing technologies on agricultural wastes and by-products for reducing environmental pollution and creating revenue to farmers in the 10 project provinces ¹ and proposed value chains pilot and demonstration models for of agricultural wastes. ²	
	8. A2. Training materials of CSAWMP technology and methodology of dissemination are women friendly (avoiding gender stereo types and using appropriate illustrations).	• Achieved: The training materials of CSAWMP technology using pictures and appropriate illustrations, so women can easily understand and apply into practice ³ .	
	9• T7. At least 50% of dissemination events and consultation will involve women- only groups (e.g. event will be carried out through commune women union's meetings). <i>Adjusted 30% in MTR mission</i>	975 dissemination meetings and workshops have been organized including 122 meetings and workshops are for women-only group. Total of participants is 43,788 participants including 20,773 women (47.4%).	

¹ Part 3.2.1. Rice husk briquette and Improved cook stove (page 11)

² Part 5.1: Biogas technology related models: need to overcome the limitations in environmental treatment and 5.4 : Utilization of fertilizer compressed machine for treating livestock environment and Collection of livestock waste for producing bio-organic fertilizer (page 18).

Interview Ms. Nguyen Thi Anh – Head of Thuc Anh livestock farm – Ha Thanh commune, Phu Tho town, Phu Tho province. Her household participated in the package 32 on Supply of manure separating systems to treat livestock waste to produce material for organic fertilizer demonstration and project supported the automatic irrigation system. This model has saved time in getting water and protecting the environment as well as the health of her family and workers. ³ Ms. Le Thi Chung – Y Son commune (Ha Hoa district, Phu Tho province) attended 2 training courses (biogas use and farm management and waste management on farm) and Ms. Vu Thi Lien – Nghia Tan commune (Nghia Hung district, Nam Dinh province) attended training courses on biogas use, they said that training material was very well presentation and easy to follow.

Project Outputs	Proposed targets / Actions		Actual	Achievement			Issues / Challenge
	10• T8. 30% of research project topics (21 project research topics) relate to gender issues/ dimensions of biogas plants such as improved cooking stove, improved or household water heating system, women friendly post-harvest processing tools/ equipment that use biogas fuel.	are 2 research researches ha Package 27: th reducing the a saving time fo Package 26: t animal waste th	/MP researches have been hes related to gender is we designed activities relevent of this package amount of water in livest r women and men in cleat he result of this package to create a free gas source for women and men in contain family health.	sues. (Packag ated to gende will help farme ock (by not w ning the barns will help loca e for cooking,	e 26 and pack r issues. ers in reducing in vashing barn, b s ⁵ ; I people in the e avoid deforesta	age 27) ⁴ : These nvestment costs, athing pigs) and effectively use of tion for fuelwood	
	11. T9. Women account for at	Achieved:					
	least 50% of those who are trained on farm management		nducted training courses	s on CSAWM	P for 25,456 fa	armers including	
	and waste management on	PPMU	Total of participants	Women	% Women		
	farms.	Lao Cai	1,000	429	43%		
	(Moved from Output 1 to	Son La	748	526	70%		
	output 3)	Phu Tho	3,641	1,947	53%		
		Bac Giang	3,630	2,054	57%		
		Nam Dinh	6,645	3,327	50%		
		Ha Tinh	1,069	644	60%		
		Binh Dinh	1,401	472	34%		
		Tien Giang	3,377	1,799	53%		
		Ben Tre Soc Trang	840 3,105	<u>192</u> 1,401	23% 45%		
		Total	25,456	12,791	45% 50%		

⁴ Package 26 (Research on biogas technology improvement and effective biogas utilization by value chain) and Package 27 (Research on the water-saving pig farming technology).

⁵ Interview Mr. To Hien Thanh (Danh Thuong village, Danh Thang commune, Hiep Hoa district, Bac Giang province) who participated in the Package 26, he received the support by project to construct the barn from 6/2018. Now he is raising 80 pigs in a newly barn, and he saves money from hiring workers, his wife and children to save time in cleaning the barn (4 hours per day).

Project Outputs	Proposed targets / Actions		Actual A	Achievement			Issues / Challenge
	12• T10. Select and train at least 40% women as champions of smart-agriculture in research	Achieved: 1,739 participants CSAWMP technolo					
	and dissemination of CSAWMP technology.	CPMU/ PPMU	Total of Extension staff	Women	% Women	p	
	Adjusted 30% in MTR mission	CPMU	274	82	29.9		
		Lao Cai	39	16	41.0		
		Son La	212	77	36.3		
		Phu Tho	305	165	54.1		
		Bac Giang	67	31	46.3		
		Nam Dinh	100	50	50.0		
		Ha Tinh	33	15	45.5		
		Binh Dinh	387	82	21.2		
		Tien Giang	0	0	0.0		
		Ben Tre	322	60	18.6		
		Soc Trang	0	0	0.0		
		Total	1,739	578	33.2		
participating institutions tra in O&M of research equip	employment contract) and remuneration support for	diem and deliver Achieved. Package 14 was av	ffs participated in ToT ed the certificate. warded to contractor, th emented in 2018 with).	ne training cou	irses on O&M of	fresearch	
I.Effective project nanagement	15. A4. Project management support CPMU and each PPMU will have a focal point/person for gender and ethnic minority issues.	The gender focal p	PPMU assigned a foca point was appointed in staff of 10 provinces)				

Project Outputs	Proposed targets / Actions		Issues / Challenge				
	16. A5. Gender sensitivity workshops at provincial, district, and commune levels will be carried out for all project staff, contractors, agricultural extension and veterinary staff and participating association steering committee as part of the project orientation.	Achieved: The project con minority for pro participants, of w 129 (100%) staff					
	17• A6. Develop and update sex-disaggregated and ethnic minority data as part of project M&E and reporting system.	disaggregat (ii) A database	ed and ethnicity d of biogas plants v	ata collection. vas transferred ir	nto a database n	emplates for sex- nonitoring software lisaggregated data.	
		and will be u	pualeu as biogas	construction pro	gress with sex-t	ilsayyieyaleu uala.	
	18• T12. 30% of CPMU and PPMU staff are women.		/U and 10 PPML			r of 2013. 56 out of	
		Achieved: A CPN	/U and 10 PPML				
		Achieved: A CPM 129 staff are wom	/IU and 10 PPML en (43.4%).	Js established in	second quarte		
		Achieved: A CPM 129 staff are wom Provinces	AU and 10 PPMU en (43.4%). Total	Us established in Women	second quarte		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai	AU and 10 PPMU en (43.4%). Total 23	Us established in Women 14	second quarte		
		Achieved: A CPM 129 staff are wom Provinces CPMU	/U and 10 PPML en (43.4%). Total 23 11	Us established in Women 14	% women 60.87 36.36		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La	/U and 10 PPML en (43.4%). Total 23 11 5	Us established in Women 14 4 1	% women 60.87 36.36 20.00		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho	AU and 10 PPML en (43.4%). Total 23 11 5 14	Us established in Women 14 4 1 6	% women 60.87 36.36 20.00 42.86		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho Bac Giang	IU and 10 PPML en (43.4%). Total 23 11 5 14 10	Us established in Women 14 4 1 6 5	% women 60.87 36.36 20.00 42.86 50.00		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho Bac Giang Nam Dinh	/U and 10 PPML en (43.4%). Total 23 11 5 14 10 15 10 10	Us established in Women 14 4 1 6 5 5 5	% women 60.87 36.36 20.00 42.86 50.00 33.33		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho Bac Giang Nam Dinh Ha Tinh	/U and 10 PPML en (43.4%). Total 23 11 5 14 10 15 10	Js established in Women 14 4 1 6 5 5 5 4	% women 60.87 36.36 20.00 42.86 50.00 33.33 40.00		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho Bac Giang Nam Dinh Ha Tinh Binh Dinh	/U and 10 PPML en (43.4%). Total 23 11 5 14 10 15 10 10	Js established in Women 14 4 1 6 5 5 4 3	% women 60.87 36.36 20.00 42.86 50.00 33.33 40.00 30.00		
		Achieved: A CPM 129 staff are wom Provinces CPMU Lao Cai Son La Phu Tho Bac Giang Nam Dinh Ha Tinh Binh Dinh Tien Giang	/U and 10 PPML en (43.4%). Total 23 11 5 14 10 15 10 10 7	Us established in Women 14 4 1 6 5 5 4 3 4	second quarte % women 60.87 36.36 20.00 42.86 50.00 33.33 40.00 30.00 57.14		

Table 2: Gender related indicators in DMF

Outputs	Performance Indicators and Targets	Project Achievements
Outcome: Greater uptake of CSAWMP	Daily workload of women and children is reduced by 1.8–2 hours, on average	Achieved: 62,039 SBPs were constructed by project, this help the women and children reduced the daily workload about 2 hours (collecting firewood, cooking, and taking care of livestock) ⁶ .
Output 1: Expanded use of livestock waste management infrastructure	Single national biogas plant database managed effectively by 2017, including registration of both husband's and wife's names	Partially achieved.48,118 biogas plants under the Project have been recorded in the database with 18,520 biogas plants recorded under the wife's name.The profiles for the of biogas plant registration including registration of both husband's and wife's names. But the national biogas plant database system is only registered for wife's name or husband's name

⁶ Interview Ms. Dang Thi Van - Ban Suoi khem, Phieng Luong commune, Moc Chau district, Son La province. She said "Thanks to the biogas plant supported by the Project, the family has fully utilized the gas to avoid environmental pollution, minimizing the amount of firewood that no longer cuts down the forest. The volume of waste water is collected neatly for irrigation purposes, saving fertilizer costs"



This template is for projects, excluding financial intermediation loans.

Legend

black text without brackets = mandatory standard wording
{black text within brackets} = {optional standard wording}
red text = instructions for writer
green text = sample wording
blue text = hyperlinked text

Project Number: {XXXX} {Loan} Number: {XXXX} {Month Year}

Completion Report

{List all reported loan and grant numbers, including cofinancing.}

{Short Country Name}: {Project Title}

{Include appropriate disclosure note. Refer to the <u>Disclosure Notes for Board Documents (Access</u> to Information Policy).}

Asian Development Bank

CURRENCY EQUIVALENTS

	Curre	ncy unit	- {c	urrency nam	e in lowercase (Symbol)}
<mark>{Symbol</mark> }1.00 \$1.00	= =	At Apprais ({day month \${ } {Symbol		At Project ({day mon \${ } {Symbol_	t Completion th year}) }

ABBREVIATIONS

{AAA}	_	{spell out (capitalize only proper names)}
{BBB}	-	{spell out}
{CCC}	-	{spell out}

WEIGHTS AND MEASURES

{If three or fewer units are to be defined, no need to create this section; instead, include them in the abbreviations list.}

-	{Definition 1}
_	{Definition 2}
_	{Definition 3}
_	{Definition 4}
	-

GLOSSARY

{Term 1}	_	{Definition 1}
{Term 2}	-	{Definition 2}
{Term 3}	_	{Definition 3}

NOTE{S}

- (i) The fiscal year (FY) of the Government of {name of borrower} {and its agencies} ends on {day month}. "FY" before a calendar year denotes the year in which the fiscal year ends, e.g., FY2018 ends on {day month} 2018. {Delete this note if FYs are not referred to in the text.}
- (ii) In this report, "\$" refers to United States dollars {If a second \$ currency is referred to in the text, e.g., NZ\$ or S\$, add: unless otherwise stated}. {In the text, use "\$" for United States dollars and the appropriate modifier, e.g., NZ\$ or S\$, for other currencies that use the "\$" sign.}

{For documents that are the shared responsibility of two or more departments or vice-presidents' groups, all responsible vice-presidents, directors general, and directors should be listed, in alphabetical order.}

alphaboliour ordor.j	
Vice-President ¹	{Full name}, {Group}
Director General	{Full name}, {Department}
Director ²	{Full name}, {Division or Resident Mission, Department}
Team leader	{Full name}, {Position, Division or Resident Mission, Department} ^(a)
Team member{s} ³	{Full name}, {Position, Division or Resident Mission, Department}
	{Full name}, {Position, Division or Resident Mission, Department}
	{Full name}, {Position, Division or Resident Mission, Department}
	{Full name}, {Position, Division or Resident Mission, Department}

^(a) {For HQ staff outposted to a resident mission, provide the staff's division in the author box and indicate in a footnote: Outposted to the {Name of Resident Mission}.}

{If a department or office is mentioned more than once in the author box, spell it out on first reference followed by the acronym in parentheses. The acronym may be used for all subsequent references to that department or office. If a department or office is mentioned only once, spell it out and do not use the acronym.}

{This disclaimer should be at the bottom of this page.}

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian

¹ {For departments reporting directly to the Board or the President, delete the "Vice-President" line.}

² {Insert sector director and/or country director, depending on who took primary responsibility for supervising project processing. If supervision was shared, both may be given. For reports that have been prepared under the leadership of the director as the team leader, place the director's name and designation on the "Team leader" line and remove the "Director" line.}

³ {List team members' names alphabetically by surname. The list of contributors should include only members of staff. It should not list consultants. If a member of the team has moved to another department before finalization of the document, the list of contributors should give his or her affiliation at the time the work was performed.}

Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

CONTENTS

		Page
BASIC	C DATA	#
{MAP	}	#
Ι.	PROJECT DESCRIPTION	1
П.	DESIGN AND IMPLEMENTATION	1
	A. Project Design and Formulation	1
	B. Project Outputs	1
	C. Project Costs and Financing	2
	D. Disbursements E. Project Schedule	2 2
	E. Project Schedule F. Implementation Arrangements	2
	G. {Technical Assistance}	2
	H. Consultant Recruitment and Procurement	3
	I. {Gender Equity}	2 3 3 3 3
	J. {Safeguards} K. Monitoring and Reporting	3
III.		4
	A. Relevance B. Effectiveness	4 4
	C. Efficiency	4
	D. Sustainability	5
	E. Development Impact	5
	F. Performance of the Borrower and the Executing Agency	6
	G. {Performance of Cofinanciers}H. Performance of the Asian Development Bank	6 6
	I. Overall Assessment	6
IV.	ISSUES, LESSONS, AND RECOMMENDATIONS	7
	A. Issues and Lessons	7
	B. Recommendations	8
APPE	NDIXES	
1.	Design and Monitoring Framework	9
2.	Project Cost at Appraisal and Actual	10
3.	Project Cost by Financier	11
4.	Disbursement of ADB Loan and Grant Proceeds	14
5.	Contract Awards of ADB Loan and Grant Proceeds	15
6.	{Chronology of Main Events}	16
7.	Status of Compliance with Loan Covenants	17
8.	{Insert Appendix Title}	18

BASIC DATA

A. Loan Identification

- 1. Country
- 2. Loan number and financing source
- 3. Project title
- 4. Borrower
- 5. Executing agency
- 6. Amount of loan
- 7. Financing modality

B. Loan Data

- 1. Appraisal
 - Date started
 - Date completed
- 2. Loan negotiations
 - Date started
 - Date completed
- 3. Date of Board approval
- 4. Date of loan agreement
- 5. Date of loan effectiveness
 - In loan agreement
 Actual
 - Number of extensions
- 6. Project completion date¹
 - Appraisal
 - Actual
- 7. Loan closing date²
 - In loan agreement
 - Actual
 - Number of extensions
- 8. Financial closing date³
 - Actual
- 9. Terms of loan

10.

- Interest rate
- Maturity (number of years)
- Grace period (number of years)
- Terms of relending (if any)
- Interest rate
- Maturity (number of years)
- Grace period (number of years)
- Second-step borrower

¹ {The project completion date is the date on which the project is considered physically completed. The date precedes the loan closing date (normally 6 months before).}

² {The loan closing date is the date on which ADB may terminate the right of the borrower to make withdrawals from the loan account as specified in the loan agreement (ADB. 2005. Loan Closing Dates. Project Administration Instructions. PAI 4.04. Manila.).}

³ {The financial closing date is the date on which all project-related financial transactions financed from the loan account are finalized and the respective loan account is closed in ADB's books.}

11. **Disbursements**

Dates a.

Initial Disbursement	Final Disbursement	Time Interval
{day month year}	{day month year}	{#} months
Effective Date	Actual Closing Date	Time Interval
{day month year}	{day month year}	{#} months

Amount (\$ {give multiplier, i.e., '000 or million}) b.

		Increased	Canceled	Last		
	Original	during	during	Revised	Amount	Undisbursed
	Allocation	Implementation	Implementation	Allocation	Disbursed	Balance
Category	(1)	(2)	(3)	(4=1+2–3)	(5)	(6 = 4–5)

Total

- Local costs (financed) {applicable to projects approved before 15 March 2006) 12.

 - Amount (\$)Percent of local costs
 - Percent of total costs

C. **Project Data**

1. Project cost (\${'000} {million})

Cost	Appraisal Estimate	Actual
Foreign exchange cost		
Local currency cost		
Total		

2. Financing plan (\${'000} {million})

Cost	Appraisal Estimate	Actual	
Implementation cost			
Borrower financed			
ADB financed			
Other external financing			
Total implementation cost			
Interest during construction costs			
Borrower financed			
ADB financed			
Other external financing			
Total interest during construction cost			

Cost breakdown by project component (\${'000} {million}) 3.

Component	Appraisal Estimate	Actual

Total

4. Project schedule

Item	Appraisal Estimate	Actual
Date of contract with consultants ^a		
Completion of engineering designs		
Civil works contract		
Date of award		
Completion of work		
Equipment and supplies		
Dates		
First procurement		
Last procurement		
Completion of equipment installation		
Start of operations		
Completion of tests and commissioning		
Beginning of start-up		
Other milestones ^b		
^a If more than one, show dates for each contract.		
^b Show key events not listed above, particularly for p	rojects with elements not involving co	onstruction or supply o

materials and equipment.

5. Project performance report ratings

	Ratings	
Implementation Period	{Development Objectives}	{Implementation Progress}
From {day month year} to {day month year}		
From {day month year} to {day month year}		
From {day month year} to {day month year}		
From {day month year} to {day month year}		
From {day month year} to {day month year}	{delete rows not required}	
	Single Project Rating	
From {day month year} to {day month year}		
From {day month year} to {day month year}		
{After 2011, only one rating is available.}		

D. Data on Asian Development Bank Missions

		No. of	No. of	Specialization
Name of Mission ^a	Date	Persons	Person-Days	of Members ^b

Project completion review

Note: {Insert notes as needed.}

^a {Include identification, fact-finding, preappraisal, appraisal, project or program inception, review, special loan administration, disbursement, project or program review mission. If more than one of each type of mission, number consecutively as review mission 1, 2, etc.}

^b {May use reference letters in table, e.g., a = engineer, b = financial analyst, c = counsel, d = economist, e = procurement consultant or specialist, f = control officer, g = programs officer.}

{In the basic data sheet, if the borrowing currency is not in United States dollars, indicate both United States dollars and the original borrowing currency (including SDR) and the exchange rate used.}

{Read and delete:

- (i) **Template owner:** Procurement, Portfolio and Financial Management Department.
- (ii) This template is for project loans and grants, excluding financial intermediation loans. For guidelines on preparing project completion reports, refer to the project administration instructions on project completion report for sovereign operations. For guidelines on evaluation methodologies and ratings, refer to the <u>Guidelines for the Evaluation of Public Sector Operations</u> circulated by the Independent Evaluation Department.
- (iii) **Page limit:** The main text should not exceed 15 pages but can be up to 18 pages for a completion report combining the multitranche financing facility (MFF) and its final tranche.
- (iv) **SEC editing:** Required for main text. Appendixes should only include essential information to support the main text. Appendixes are not edited.

I. PROJECT DESCRIPTION

1. {Briefly describe the project's impacts, outcomes, and outputs; and the rationale for undertaking the project.}

II. DESIGN AND IMPLEMENTATION

2. {Provide the implementation status and fact-based findings on how the originally envisaged output targets and intended project design were achieved and whether due diligence was properly implemented. Cross-refer to the report and recommendation of the President (RRP). Use the results of the eOps project performance management system and project performance report as appropriate. Discuss any problems or issues that arose as identified in back-to-office reports and project procurement-related reviews (PPRRs)¹ of the Office of Anticorruption and Integrity (OAI).}

A. Project Design and Formulation

3. {Discuss the relevance of the project in terms of consistency with ADB's country strategy and relevant sector framework, the country's development objectives, soundness of the design, adequacy of the formulation process (including the extent of stakeholder participation and level of ownership generated), and adequacy of choosing the modality. Describe briefly the preparation for the project and any changes in the project design during implementation, and discuss how the change enhanced project design relevance. Discuss project design relevance at appraisal and at completion.}

B. Project Outputs

4. {Describe the envisaged outputs and their achievements of the targets at completion according to indicators described in the design and monitoring framework (DMF) in Appendix 1. If output targets were not achieved, provide reasons for the nonachievements. If the DMF was changed during implementation, describe the original DMF and give reasons for the deviation. Any major changes in the project scope during project implementation should be elaborated.²}

¹ {PPRRs assess an executing agency's internal controls; identify irregularities and instances of noncompliance in procurement and financial management; and inspect project assets and/or outputs. When evaluating the design and implementation of the project, PPRR findings and recommendations should be taken into account, especially in the Performance of the Borrower and the Executing Agency, Consultant Recruitment and Procurement, and Project Outputs sections of the main text; and the Disbursement of ADB Loans and Grants in Appendix 2. ADB. <u>Reports of Project Procurement-Related Reviews (PPRR)</u>.}

² {Major changes are defined in ADB. 2015. <u>Change in Loan and/or Grant Funded Projects</u>. Project Administration Instructions. PAI 5.02. Manila.}

C. Project Costs and Financing

5. Discuss project costs, explain significant overruns or underruns (Appendix 2), and for projects approved before 15 March 2006, discuss any major shifts between foreign and local costs. State the reasons for the cost changes (design inadequacy, external factors, delays, etc.), the amounts canceled, and the reasons for any cancellations during implementation. All cost category variances in (i) absolute and percentage terms and (ii) tabular form should be stated together with the narrative explanation for such variances.}

6. {Describe the original financing plan and state the actual allocation of loans and grants by financier (Appendix 3). Describe what components were financed by which financiers and state the reasons if there was a gap between the financing plan and actual results. If there is a reallocation of loans and grants, state the reasons of the reallocation.}

D. Disbursements

7. {Assess whether the original disbursement projections at the time of project effectiveness were realistic (Appendix 4). If there is a significant gap between the projection and the actual disbursements, analyze the reasons for the gap. Assess any delays and corrective actions taken by the borrower, executing agency, and ADB. If used, assess (i) the usefulness of the advance fund³ and statement of expenditure procedures on implementation; (ii) the experience of the executing agency or ADB; and (iii) any material issues or findings (from review missions, audit reports, etc.) during implementation.}

E. Project Schedule

8. {State the expected and actual project completion date. If there is a gap, state the reasons for the gap. If an extension of project completion was approved, explain the rationale and agreements made to extend the loan closing date. If there is a large gap between project completion and financial closing, state the reasons for the gap.}

F. Implementation Arrangements

9. {Discuss the key features of the project's implementation arrangements as designed at appraisal and any major changes in the arrangements caused by changes in the project. Assess the adequacy of implementation arrangements to deliver project outputs and achieve the outcome. Discuss any risks and mitigating measures adopted by the project.}

G. {Technical Assistance}

10. {For any transaction technical assistance (TA) used for the preparation of the project, describe how the transaction TA contributed to achieving the performance targets of the project. In this case, the TA completion report $(TCR)^4$ and TA ratings are not needed.}

11. {For any attached transaction TA that was approved with the project but did not result in a project, a TCR should be prepared as an appendix of the PCR. In this case, the PCR should describe the TA's key achievements and the TCR ratings in the PCR main text. When PCR Board

³ {The advance fund was previously referred to as the imprest fund.}

⁴ {The <u>TCR template</u> may be downloaded from the <u>Board Documents: Templates and Guidelines</u> section of the Office of the Secretary's website.}

circulation is requested, the Office of the Secretary (SEC) should also be informed that a TCR is appended to the PCR. This will ensure that the TCR is recorded in SEC's database and that it is noted in SEC's circulation memo to the Board.}

H. Consultant Recruitment and Procurement

12. {Discuss arrangements for consultant recruitment, packaging, and agreed procedure under the procurement plan. Describe any significant problems and deviation from the originally approved procurement plan, including the causes of disagreements between the borrower or the executing agency and ADB on consultant selection; and the problems encountered with packaging contracts, preparing tender documents, and evaluating bids (state how the differences or problems were resolved).}

13. {Assess whether the original contract award projections were realistic (Appendix 5). Briefly summarize the contract processing and implementation milestones for all contracts signed in the project and state if the project experienced significant delays in contract processing or implementation, including issues with suppliers or contractors. If there is a significant gap between the projection and the actual contract awards, analyze the reasons for the gap.}

14. {If any of the consultants, contractors, or suppliers used by the borrower, the executing agency, or ADB (including finance by an associated TA) failed to perform well, or vice versa, describe these instances and estimate their negative or positive effects on the quality of the project outputs, schedule, or costs.}

I. {Gender Equity}

15. {For projects classified *gender equity as a theme* and *effective gender mainstreaming*, describe the gender action plan and how it was implemented adequately during the implementation.}

J. {Safeguards}

16. {Summarize action plan(s) and frameworks that were approved at appraisal and describe how they were implemented, including adequacy of monitoring. If there were safeguard-related issues during implementation, including environmental, involuntary resettlement, and indigenous people, describe the issues and measures taken. If any safeguards corrective action plans were prepared during the project implementation, summarize the plans and describe the measures taken. If there are remaining or unresolved safeguard-related issues, describe the follow-up actions in the recommendations section.}

K. Monitoring and Reporting

17. {Indicate the status of compliance with all general and special covenants (Appendix 7). If covenant compliance was delayed or breached, discuss the reasons and impact, whether the covenant was realistic, and the corrective action or measures employed. Discuss the impact of partial compliance or noncompliance of covenants on project performance. Indicate if any covenant has been modified, suspended, or waived; and the justification for such actions.}

18. {Describe the monitoring and reporting arrangements for the project and review the compliance with these requirements. The reporting requirements include reporting in the DMF.

Special attention needs to be paid to the baseline survey and the end-of-project survey, if these were mandated by the RRP or the project administration manual.}

19. {Briefly describe and evaluate the financial management arrangements of the borrower, the executing agency, and the implementing agency with emphasis on the timeliness and quality of audited project financial statements and audited entity financial statements. Describe any issues and follow-up actions identified in audit management letters, and discuss any weaknesses noted in performance and institutional arrangements, including any finding during review missions. Indicate whether the assessment of the executing and/or implementing agency's financial management capabilities at fact-finding was reasonable.}

III. EVALUATION OF PERFORMANCE

{Assess the performance of operations by evaluation criteria and provide ratings.}

A. Relevance

20. {Assess the relevance of project design at appraisal and completion (para. 3). Assess the appropriateness of choosing the modality. If the scope was changed, assess the appropriateness of the original project design. Assess the appropriateness of the DMF. If the DMF was changed, provide the reasons for the changes and assess the appropriateness of the original DMF. If there is a significant cost-overrun or significant delay of the completion because of weak project design, provide the reasons, including an assessment of unforeseeable and foreseeable features. Assess innovative features, demonstration values, and transformational effects of the project.}

21. {Provide rating on relevance and explain the justifications for the rating.}

B. Effectiveness

22. {Assess the extent to which the project achieved its outcome, in particular specifying the achievement of outcome indicator targets. If the outcome is not fully achieved, discuss the reasons for underachievement. If data for outcome indicators are not available, collect supplementary data and assess achievements of the outcome.}

23. {Assess the extent to which the project achieved output targets to assess the extent to which the outcomes were attributable to the project's interventions. If the project did not achieve the outputs, sum up the reasons for underachievement referring to para. 3 in which the detailed explanations were made.}

24. {If the project included safeguard measures and was classified *gender equity as a theme* or *effective gender mainstreaming*, evaluate their implementation and effectiveness.}

25. {Provide rating on effectiveness and explain the justifications for the rating.}

C. Efficiency

26. {Assess the efficiency of investment by recalculating the economic internal rates of return (EIRRs) and conducting its sensitivity analysis or assessing other cost-effectiveness measures if an EIRR is not available.⁵ Provide methodologies and justifications for the economic calculations in an appendix. The recalculated EIRRs should be compared with the EIRRs calculated in the

⁵ ADB. 2017. *Guidelines for the Economic Analysis of Projects*. Manila.

RRP. If there is a discrepancy between the EIRRs, analyze the reasons for the discrepancy.⁶ For program loans, efficiency of investment is not usually assessed.}

27. {Assess process efficiency, including delay in completion and cost overrun (if the EIRR is recalculated, cost overrun and project delay are normally incorporated in the calculation. Thus, an assessment of the EIRR is more important than the assessment of the process efficiency). If there is significant cost overrun or a significant delay in completion, provide the reasons (do not repeat the reasons mentioned in the Relevance section). If delay in completion or cost overrun was counted as a negative point in the Relevance section because of weak project design, the same should not be counted as a negative point in this section to avoid double counting.}

28. {Provide rating on efficiency and explain the justifications for the rating.}

D. Sustainability

29. {Assess the likelihood of sustainability of the project outcome financially. If the project is generating revenues, the financial internal rates of return (FIRRs) should be calculated and compared with the weighted average cost of capital. Provide methodologies and justifications for the financial calculations in an appendix. The recalculated FIRRs should be compared with the FIRRs calculated in the RRP. If there is a discrepancy between the FIRRs, analyze the reasons for the discrepancy.}

30. {Assess the financial sustainability of revenue and nonrevenue projects from viewpoints of financial capacity of the agency involved, prospects for demands for service or products, cost-recovery mechanism, and the availability of resources for the operation and maintenance of the project output.}

31. {Assess the likelihood of sustainability of project outputs and outcomes technically, institutionally, and environmentally. If the project introduced remedial measures to improve sustainability, describe the measures and assess the expected effects on improving sustainability. If the project is not likely to achieve the output and outcome targets in the future, describe the risks of nonachievements and propose remedial measures to improve sustainability.}

32. {Provide rating on sustainability and explain the justifications for the rating.}

E. Development Impact

33. {Provide a general assessment of significant poverty, institutional, economic, environmental, social, and other impacts (positive and negative, whether intended or not) generated during project implementation, subject to data availability. Assess the project's benefits to the stakeholders via interviews, statistics, and surveys (if baseline or benchmark data are available). Discuss the attribution to the project. If the DMF adopted impact indicators, assess the achievement of the targets.⁷}

34. {If the RRP includes an appendix on the contribution to the ADB results framework, describe indicators and targets in the RRP and assess the achievements.}

⁶ {If the RRP adopted 12% for the threshold of economic viability, the PCR needs to use the same 12% for the threshold for its consistency for the calculation, although the guideline changed the threshold from 12% to 9%.}

⁷ {Projects approved before 1 July 2015 have impact indicators with baseline and target values in the DMF.}

35. {Provide rating on development impact and explain the justifications for the rating.}

F. Performance of the Borrower and the Executing Agency

36. {Focus on the adequacy of ownership and assumption of responsibility by all participating government entities during the project cycle. Summarize the performance of the borrower and the executing agency in ensuring the quality of project preparation, meeting loan effectiveness requirements, implementing project activities, providing support to the project, ensuring adequacy and timeliness of counterpart funding, preparing the financial management arrangement, and ensuring project sustainability. Assess compliance with loan covenants, safeguard requirements, and other fiduciary requirements. If OAI conducted a PPRR, take PPRR findings and recommendations into account.}

37. {Rate the performance of the borrower and the executing agency as *highly satisfactory*, *satisfactory*, *less than satisfactory*, or *unsatisfactory*.}

G. {Performance of Cofinanciers}

38. {Omit this section if there are no major cofinancing partners involved. A rating of cofinanciers' involvement is not mandatory. If the collaboration was limited, the evaluation of the cofinanciers' role may also be limited. No assessment is expected to describe cofinancing partners as such collaborations are not documented, and an assessment would therefore be difficult.}

39. {Assess the overall performance of cofinanciers from project preparation to its completion. State the type of services (including training) provided by the cofinanciers and assess whether the assistance was adequate and timely. Review encountered problems related to the cofinanciers during project implementation (e.g., approvals, disbursements, procurement, safeguards, and monitoring) and assess whether the cofinanciers acted promptly. Assess the working relationship with cofinanciers that facilitated achievements of project objectives.}

H. Performance of the Asian Development Bank

40. {Assess the overall performance of ADB from project preparation to its completion. Assess the adequacy of contributions during the project preparation stage; adequacy of support to signing and effectiveness of loans and/or grants; quality and timeliness of support to the project; adequacy of supervision during implementation (including fielding of review missions); and collaborative relationship with the executing and/or implementing agency, cofinanciers, and development partners. Rate the performance of ADB as *highly satisfactory, satisfactory, less than satisfactory*, or *unsatisfactory*.}

I. Overall Assessment

41. {Provide ratings for each indicator with brief reasons. If a weakness is counted in one criterion, the same weakness should not be counted in another criterion. Provide an overall project rating of *highly successful, successful, less than successful,* or *unsuccessful.*}

Overall Ratings					
Criteria	Rating				
Relevance	{Highly relevant} {Relevant} {Less than relevant} {Irrelevant}				
Effectiveness	{Highly effective} {Effective} {Less than effective} {Ineffective}				
Efficiency	{Highly efficient} {Efficient} {Less than efficient} {Inefficient}				
Sustainability	{Most likely sustainable} {Likely sustainable} {Less than likely sustainable} {Unlikely sustainable}				
Overall Assessment	{Highly successful} {Successful} {Less than successful} {Unsuccessful}				
Development impact	{Highly satisfactory} {Satisfactory} {Less than satisfactory} {Unsatisfactory}				
Borrower and executing agency	{Highly satisfactory} {Satisfactory} {Less than satisfactory} {Unsatisfactory}				
Performance of ADB	Highly satisfactory {Satisfactory {Less than satisfactory {Unsatisfactory}				
ADB = Asian Development Bank	ι.				

Source: Asian Development Bank.

42. {In the case of a facility completion report for an MFF, provide ratings for the final tranche and the facility. The ratings for the facility completion report are provided based on overall achievements for all tranches, taking account of the achievements of the DMF in the MFF for the effectiveness rating.}

Overall Ratings						
Rating						
Tranche 1	Tranche 2	Tranche {#}	Final Tranche	MFF		
			Rating	Rating		

ADB = Asian Development Bank, MFF = multitranche financing facility. Source: Asian Development Bank.

IV. ISSUES, LESSONS, AND RECOMMENDATIONS

{This chapter is to learn from the experience of operations and contribute to improving the design and performance of ongoing and future ADB-financed projects. Analyses in this chapter should be based on those described in the former chapters. To enrich analyses for this chapter, meetings with stakeholders such as project users and beneficiaries may be useful.}

A. Issues and Lessons

43. {Describe project-related issues that remain unsolved or are crucial for the sustainability of the project.}

44. {Describe all major lessons learned from the project. These lessons need to be based on the successes or problems described in the former chapters. In this chapter, analyze how the successes were achieved or why the encountered problems were not avoided, and discuss how the lessons can be applied to future projects.}

45. {In case a PPRR was conducted, state the remaining issue and highlight the resolved issue as a lesson.}

46. {Describe the pilot testing of an innovative approach that was taken in the project and assess the results of the approach. Assess the potential for future projects as a best practice, based on lessons learned from the project experience.}

B. Recommendations

47. {State project-specific and general recommendations that may affect other projects or may be generally applicable to ADB practices. Recommendations should be as specific as possible and should be based on project findings and experience, which should be cross-referenced using paragraph numbers. Include the name of the entity or person responsible for taking action, for the time frame, and for monitoring and reporting compliance. Recommendations should include the following:}

48. **{Future monitoring}.** {Describe aspects of project operation (technical, financial, personnel, management, sustainability, post-completion monitoring, etc.) that require monitoring, and recommend monitoring tools (specific reports by the borrower or the executing agency, missions, consultants, etc.) and, at least initially, time intervals for project review.}

49. **{Covenants}.** {Recommend if the covenants in the loan and project agreements should be maintained in their existing form. Indicate the specific period to maintain such covenants or whether any should be changed or waived, identifying covenants to be changed or waived and the substance or wording of any change recommended.}

50. **Further action or follow-up**. {Indicate actions that may be needed to complete project implementation, support its initial operation, achieve project benefits, or ensure its sustainability of outcomes. Indicate any additional assistance under new financing arrangements required to substantially improve the project's performance and sustainability.}

51. **Timing of the project performance evaluation report**. {Indicate the appropriate timing for preparing the project performance evaluation report (PPER), given that the Independent Evaluation Department may opt to prepare the PPER at a later stage. In exceptional cases (e.g., where some works have still to be completed or where supplemental assistance may be proposed, or to allow some time for operations to settle down), the PPER is not to be undertaken before a certain date. Give reasons for proposing deferment.}

DESIGN AND MONITORING FRAMEWORK

{If the design and monitoring framework (DMF) was revised during implementation, use the revised DMF. If the original DMF is relevant for the assessment, provide the original and revised DMF. If the project framework in the RRP was produced before February 2005, "goal" has been replaced by "impact" and "purpose" by "outcome."}

{In case of a facility completion report for a multitranche financing facility, describe the DMF for the facility and the final tranche.}

Design Summary	Performance Indicators and Targets	Project Achievements
Impact		
-		
Outcome		
Outputs		
-		

Source: Asian Development Bank.

PROJECT COST AT APPRAISAL AND ACTUAL

(\$'000)

{If the appraisal cost was revised during implementation, insert a column for the revised cost and explain how it was changed in the footnote (e.g., supplementary loan approval)}

	Ap		Actual			
	Foreign	Local		Foreign	Local	
Item	Exchange	Currency	Total Cost	Exchange	Currency	Total Cost
A. {Item 1}						
1. {Component A.1}						
a. {Subcomponent A.1.a}						
i. {Point A.1.a.i}	0.00	0.00	0.00	0.00	0.00	0.00
ii. {Point A.1.a.ii}	0.00	0.00	0.00	0.00	0.00	0.00
b. {Subcomponent A.1.b}						
2. {Component A.2}	0.00	0.00	0.00	0.00	0.00	0.00
3. {Component A.3}						
a. {Subcomponent A.3.a}	0.00	0.00	0.00	0.00	0.00	0.00
b. {Subcomponent A.3.b}	0.00	0.00	0.00	0.00	0.00	0.00
4. {Component A.4}	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal (A)	0.00	0.00	0.00	0.00	0.00	0.00
3. {Item 2}						
1. {Component B.1}	0.00	0.00	0.00	0.00	0.00	0.00
2. {Component B.2}						
a. {Subcomponent B.2.a}	0.00	0.00	0.00	0.00	0.00	0.00
b. {Subcomponent B.2.b}	0.00	0.00	0.00	0.00	0.00	0.00
3. {Component B.3}	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal (B)	0.00	0.00	0.00	0.00	0.00	0.00
C. {Item 3}						
1. {Component C.1}	0.00	0.00	0.00	0.00	0.00	0.00
2. {Component C.2}	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal (C)	0.00	0.00	0.00	0.00	0.00	0.00
Total (A+B+C)	0.00	0.00	0.00	0.00	0.00	0.00

{Define symbols and abbreviations, e.g., ... = not available.}

{Notes:

1. Refer to Appendix 4C of ADB's Loan Disbursement Handbook (2017, as amended from time to time) for further guidance on the proper presentation of local taxes and duties financing in the detailed cost estimates by financier table and allocation table in the loan or grant agreement.

2. In-kind contributions, if any, should be shown as a separate category or subcategory within the detailed cost estimates table and supported by a footnote reference within the table describing such contributions as being provided "in kind."

3. Environment and social mitigation includes all costs associated with implementing safeguards, gender, and social dimension action plans.

4. The estimated cost of the audits of project financial statements should be identified by a footnote, i.e., "Includes estimated audit fees of {insert amount} for the audit of the annual project financial statements for {20XX–20XX} to be financed from {government resources} {ADB {loan} {grant} resources}."

5. Footnotes are not needed for the detailed cost estimate tables if the necessary information has been provided in a footnote to the summary cost estimates or summary financing plan tables.}

Source: {Asian Development Bank estimates.}

PROJECT COST BY FINANCIER

{This table should identify the types of expenditure included in the overall project cost. Investment costs should be broken down by primary expenditure category and by financier. This will be project-specific. Recurrent costs may or may not be included in the overall project costs as this will also be project-specific. The amounts and percentages should correlate directly to the allocation table. The sum of physical and price contingencies should be shown as "Unallocated" in the allocation table. Tables for the multitranche financing facility and the final tranche are needed for facility completion reports.}

		Finan	cier 1	Finar	ncier 2	Finan	cier {#}	Tota	tal Cost ^a
			% of Cost		% of Cost		% of Cost		Taxes and
		Amount	Category	Amount	Category	Amount	Category	Amount	Duties
Item	n	{A}	{A/D}	{B}	{B/D}	{C}	{C/D}	{D}	{E}
Α.	Investment Costs								
	 Turnkey contract 	0	0.00%	0	0.00%	0	0.00%	0	(
	2. Civil works	0	0.00%	0	0.00%	0	0.00%	0	(
	Mechanical and equipment	0	0.00%	0	0.00%	0	0.00%	0	(
	Environment and social mitigation	0	0.00%	0	0.00%	0	0.00%	0	(
	5. Consultants								
	 a. Project management 	0	0.00%	0	0.00%	0	0.00%	0	(
	 b. Capacity development 	0	0.00%	0	0.00%	0	0.00%	0	(
	Subtotal (A)	0	0.00%	0	0.00%	0	0.00%	0	(
В.	Recurrent Costs								
	1 Salaries	0	0.00%	0	0.00%	0	0.00%	0	(
	2 Accommodation	0	0.00%	0	0.00%	0	0.00%	0	(
	3 Equipment operation and	0	0.00%	0	0.00%	0	0.00%	0	(
	maintenance								
	Subtotal (B)	0	0.00%	0	0.00%	0	0.00%	0	(
	Total Base Cost (A+B)	0	0.00%	0	0.00%	0	0.00%	0	(
C.	Contingencies	0	0.00%	0	0.00%	0	0.00%	0	(
D.	Financial Charges During	0	0.00%	0	0.00%	0	0.00%	0	(
	Implementation								
	Total Project Cost (A+B+C+D)	0	0.00%	0	0.00%	0	0.00%	0	(
	% Total Project Cost		X% {i.e.,		X% {i.e.,		X% {i.e.,		100%
	-		Financier		Financier		Financier		
			1's share in		2's share		{#}'s share		
			project		in project		in project		
			cost}		cost}		cost}		

Table A3.1: Project Cost at Appraisal by Financier

{Note{s}:

1. Numbers may not sum precisely because of rounding.

2. Refer to Appendix 4C of ADB's Loan Disbursement Handbook (2017, as amended from time to time) for further guidance on the proper presentation of local taxes and duties financing in the detailed cost estimates by financier table and allocation table in the loan or grant agreement.

- ._ Appendix 3
- 3. In-kind contributions, if any, should be shown as a separate category or subcategory within the detailed cost estimates table and supported by a footnote reference within the table describing such contributions as being provided "in kind."
- 4. Environment and social mitigation includes all costs associated with implementing safeguards, gender, and social dimension action plans.
- 5. The estimated cost of the audits of project financial statements should be identified by a footnote, i.e., "Includes estimated audit fees of {insert amount} for the audit of the annual project financial statements for {20XX–20XX} to be financed from {government resources} {ADB {loan} {grant} resources}."
- 6. Footnotes are not needed for the detailed cost estimates tables if the necessary information has been provided in a footnote to the summary cost estimates or summary financing plan tables.}
- ^a Local taxes and duties should be broken down into the expenditure categories. ADB may finance local taxes and duties following the <u>Operations Manual on Cost</u> <u>Sharing and Eligibility of Expenditures for ADB Financing</u> and the related <u>Staff Instruction on Business Processes for Cost Sharing and Eligibility of Expenditures</u> <u>for ADB Financing</u>.

Source{s}: {Indicate source(s)}.

		Finan	cier 1	Fina	Incier 2	Finar	ncier {#}	Total Cost ^a	
			% of Cost		% of Cost		% of Cost		Taxes and
		Amount	Category	Amount	Category	Amount	Category	Amount	Duties
ltem	n	{A}	{A/D}	{B}	{B/D}	{C}	{C/D}	{D}	{E}
Α.	Investment Costs								
	1. Turnkey contract	0	0.00%	0	0.00%	0	0.00%	0	0
	2. Civil works	0	0.00%	0	0.00%	0	0.00%	0	0
	Mechanical and equipment	0	0.00%	0	0.00%	0	0.00%	0	0
	4. Environment and social mitigation	0	0.00%	0	0.00%	0	0.00%	0	0
	5. Consultants								
	a. Project management	0	0.00%	0	0.00%	0	0.00%	0	0
	b. Capacity development	0	0.00%	0	0.00%	0	0.00%	0	0
	Subtotal (A)	Ō	0.00%	Ō	0.00%	Ō	0.00%	Ō	0
В.	Recurrent Costs	-		-		-		-	-
	1 Salaries	0	0.00%	0	0.00%	0	0.00%	0	0
	2 Accommodation	Õ	0.00%	Õ	0.00%	Õ	0.00%	Õ	0
	3 Equipment operation and	0 0	0.00%	0 0	0.00%	Õ	0.00%	Ő	0
	maintenance	Ū.	0.0070	U U	0.0070	Ū.	010070	U U	Ū
	Subtotal (B)	0	0.00%	0	0.00%	0	0.00%	0	0
	Total Base Cost (A+B)	Õ	0.00%	Õ	0.00%	Õ	0.00%	Õ	0
C.	Contingencies	Ő	0.00%	ŏ	0.00%	ŏ	0.00%	Õ	ő
D.	Financial Charges During	Ő	0.00%	Õ	0.00%	Õ	0.00%	Õ	0
υ.	Implementation	Ū	0.0070	Ū	0.0070	Ū	0.0070	Ū	Ŭ
	Total Project Cost (A+B+C+D)	0	0.00%	0	0.00%	0	0.00%	0	0
	% Total Project Cost	Ū	X% {i.e.,	Ū	X% {i.e.,	Ū	X% {i.e.,	Ū	100%
			Financier 1's		Financier 2's		Financier		1007
			share in		share in		{#}'s share in		
			project cost}		project cost}		project cost}		

Table A3.2: Project Cost at Completion by Financier

{Note{s}:

1. Numbers may not sum precisely because of rounding.

2. Refer to Appendix 4C of ADB's Loan Disbursement Handbook (2017, as amended from time to time) for further guidance on the proper presentation of local taxes and duties financing in the detailed cost estimates by financier table and allocation table in the loan or grant agreement.

3. In-kind contributions, if any, should be shown as a separate category or subcategory within the detailed cost estimates table and supported by a footnote reference within the table describing such contributions as being provided "in kind."

4. Environment and social mitigation includes all costs associated with implementing safeguards, gender, and social dimension action plans.

5. The estimated cost of the audits of project financial statements should be identified by a footnote, i.e., "Includes estimated audit fees of {insert amount} for the audit of the annual project financial statements for {20XX–20XX} to be financed from {government resources} {ADB {loan} {grant} resources}."

6. Footnotes are not needed for the detailed cost estimates tables if the necessary information has been provided in a footnote to the summary cost estimates or summary financing plan tables.}

^a Local taxes and duties should be broken down into the expenditure categories. ADB may finance local taxes and duties following the <u>Operations Manual on Cost</u> <u>Sharing and Eligibility of Expenditures for ADB Financing</u> and the related <u>Staff Instruction on Business Processes for Cost Sharing and Eligibility of Expenditures</u> for ADB Financing.}

Source{s}: {Indicate source(s)}.

DISBURSEMENT OF ADB LOAN AND GRANT PROCEEDS

{In case of a facility completion report for a multitranche financing facility, only the table for the final tranche is needed.}

Table 4.1: Annual and Cumulative Disbursement of ADB Loan Proceeds^a

		(\$ million)			
	Annual Dis	sbursement	Cumulative D	isbursement	
	Amount (\$ million)	% of Total	Amount (\$ million)	% of Total	
	· · · ·		· · · · · ·		
Total	00.00	100.0%			
ADB = Asian De	evelopment Bank.				
	oursements to advance acc	counts.}			
Source: Asian F	Development Bank.				

Figure 4.1: Projection and Cumulative Disbursement of ADB Loan Proceeds (\$ million)

{The figure needs to include a disbursement projection in the project administration manual at the time of approval and actual cumulative disbursement. List the projection changes, if any, including date, month, year, and the reason (i.e., major change in scope, project extension, etc.).}

CONTRACT AWARDS OF ADB LOAN AND GRANT PROCEEDS

{In case of a facility completion report for a multitranche financing facility, only the table for the final tranche is needed.}

Table 5.1: Annual and Cumulative Contract Awards of ADB Loan Proceeds

	Annual Con	tract Awards	Cumulative Co	ative Contract Awards		
	Amount		Amount			
Year ^a	(\$ million)	% of Total	(\$ million)	% of Total		
Total	00.00	100.0%				
Total	evelopment Bank.	100.0%				
	contract signing dates.}					
	contract signing dates.					

Figure 5.1: Projection and Cumulative Contract Awards of ADB Loan Proceeds (\$ million)

{The figure needs to include a contract awards projection in the project administration manual at the time of approval and actual cumulative contract awards. List the projection changes, if any, including date, month, year; and the reasons, such as major changes in scope or project extensions.}

{CHRONOLOGY OF MAIN EVENTS} {This appendix is suggested when the project is complex and had a long implementation period.}

Date

Event

Source: Asian Development Bank.

STATUS OF COMPLIANCE WITH LOAN COVENANTS {Loan covenants in the loan agreement do not require OSEC editing.}

	Reference in Loan	
Covenant	Agreement	Status of Compliance

{INSERT APPENDIX TITLE}