



Asian Development Bank

Southeast Asia Department

28 May 2013

Ms. Nguyen Thi Xuan Thu
Vice Minister
Ministry of Agriculture and Rural Development (MARD)
Hanoi, Viet Nam
Fax No: (84 4) 3845 4319

Dear Ms. Thu:

**Subject: Loan 2283-VIE: Agriculture Science and Technology
– Loan Review Mission (8-13 May 2013)**

Enclosed is the Aide Memoire which summarizes the findings and understanding reached during the Mission. The Aide Memoire was discussed at the wrap-up meeting on 13 May 2013. Comments expressed at the meeting have been duly taken into account and have been incorporated into the Aide Memoire accordingly. We will appreciate receiving Ministry of Agriculture and Rural Development's (MARD) confirmation, and comments, if any, on the Aide Memoire by 14 June 2013.

We continue to commend MARD on the effective management of the Project. Since we are moving towards completion of the Project, we would like to request your oversight and guidance on the follow-up actions agreed upon in the Aide Memoire as summarized below.

No.	Reference in Aide Memoire	Actions to be Taken
1	Para. 19	Component 1. (Client-oriented research) – The Department of Science, Technology and Environment agreed to report to MARD the need to allocate budget to continue to monitor and assess impacts of the 125 research projects for its own utilization and for future impact evaluation of the Project by ADB.
2	Para. 23	Component 1 (Overseas Training) – The Department of Planning to monitor progress of students beyond the Project period and report to ADB in 2014 during the Project Completion Review Mission.
3	Para. 24 and 28	Component 1 (Short-term overseas Training and domestic training by the Viet Nam Academy of Agricultural Science (VAAS)) – Lessons learnt consultants to include in the final report, among other things, an evaluation of relative benefits and impacts of short-term overseas training, study tour, and post-evaluation of 54 domestic training course conducted by VAAS. Evaluation on the extent of institutionalization of good practices in the Project in future MARD activities are also to be evaluated.
4	Para. 31	Component 1 (Upgrading of Research and Laboratory Equipment) – Research institutes to monitor and evaluate the effective use of equipment, including maintenance, beyond the Project period. Mission requests that a report to ADB is given in 2014 during the Project Completion Review Mission.
5	Para. 37	Component 2 (Pro-poor Provincial Agricultural Extension Services) – The provincial project management units (PPMUs) and the National Agriculture Extension Center to monitor the use of equipment purchased by the Project

No.	Reference in Aide Memoire	Actions to be Taken
		(studio and other extension equipment in 5 provinces) and its impact beyond Project period and to report to ADB for future impact assessment.
6	Para. 53	Component 3 (Rural-Based Technical and Vocational Training) – Schools to continue its monitoring systems beyond the Project period for use in future impact assessments of the Project.
7	Para. 64	The Mission requested central project management unit (CPMU) to ensure that full liquidation of the impress account and utilize the uncommitted amount to the extent possible.
8	Para. 66	Audited Financial Statements – CPMU to (i) amend the contract with auditor to clearly indicate completion of the audit report by 31 August 2013, and (ii) push for submission, acceptance and payment of the final audit within the winding-up period.
9	Para. 68	Preparation for Project Completion Report (PCR) – CPMU to ensure that financial records are prepared to show (i) the Project's expenditures on a per year, per component, per category, per financier format, and (ii) "in-kind" contribution (salaries of staff and office accommodation costs assigned to the Project) provided by the government are prepared. The revised PCR is to be submitted to ADB in June 2013.
10	Para. 69	CPMU, PPMUs and institute project management units are encouraged to continue with the monitoring systems beyond the project period for their own use and for future ADB reviews. The copy of general baseline data and project monitoring system is to be submitted to ADB for evaluation activities one year and five years after the end of the project.

We look forward to undertaking the Project Completion Review Mission in March/April 2014. We wish to convey our sincere appreciation to you and your staff for the kind assistance extended to the Mission.

Sincerely,



Javed H. Mir
Director
Environment, Natural Resources and Agriculture Division



AIDE MEMOIRE

8–13 May 2013

Loan 2283-VIE (SF): Agriculture Science and Technology Project
- Loan Review Mission

ASIAN DEVELOPMENT BANK
Loan No. 2283-VIE (SF): Agriculture Science and Technology Project
Aide Memoire of the Loan Review Mission
(8-13 May 2013)

I. INTRODUCTION

1. From 8-13 May 2013, the Asian Development Bank (ADB) fielded a Loan Review Mission¹ to Viet Nam to review the implementation of Loan No. 2283-VIE (SF): Agriculture Science and Technology Project (The Project). The Mission conducted comprehensive discussions with the Ministry of Agriculture and Rural Development (MARD) — Central Project Management Unit (CPMU), Department of Science, Technology and Environment (DSTE), Department of Planning (DOP), and Viet Nam Academy of Agricultural Science (VAAS).

2. The Mission reviewed the (i) implementation of the four components and assessed the Project's achievement in terms of performance targets in the Design and Monitoring Framework; (ii) progress of the documentation of the lessons learned from the Project; (iii) liquidation of the imprest account advance; (iv) draft project completion report; and (v) Borrower's compliance with the loan covenants. The Mission concluded with a wrap-up meeting on 13 May 2013 in Hanoi, chaired by Mr. Nguyen Huu Khuong, Director General of APMB and attended by staff of MARD and representatives of other government agencies/organizations/stakeholders. A list of persons met and those present at the wrap-up meeting is shown in Appendix 1.

3. This Aide Memoire records the findings and agreements reached between representatives of the Government and the Mission. Agreements reflected herein are subject to approval by higher authorities of the Government and ADB. The Government's confirmation of the Aide Memoire is requested by 5 June 2013.

II. BACKGROUND

4. ADB approved the Loan on 11 December 2006 for SDR20.198 million (US\$30 million equivalent) from ADB's Special Funds resources. The Loan Agreement became effective on 13 June 2007.

5. The Project aims to strengthen the national agriculture science and technology (AST) system in Viet Nam, thereby contributing to the sustainable and equitable growth of the agriculture sector and ultimately to reduce rural poverty. The Project addresses critical issues involved in AST development, including the low level of linkages among key AST areas (agricultural research, extension, and training), and the gap in the capacity of physical and human resources for the national AST system. The Project contributes to the resolution of these issues and increase the effectiveness and relevance of AST activities for clients, to receive benefits of improved AST, and promote on-farm and off-farm sustainable use of natural resources. Inclusion of the three key AST areas under the Project as part of the integrated national system is vital if the full potential of AST development is to be realized. The Project has four components, namely: (i) client-oriented agricultural research and capacity strengthening; (ii) grassroots agricultural extension improvement; (iii) rural-based technical and vocational training; and (iv) project management.

¹ The Mission comprised of Dr. Sununtar Setboonsarng (Mission Leader), and Eileen Quisumbing-Battung (Project Analyst).

6. On 10 December 2010, ADB approved the Government's request to extend the loan from 30 June 2012 to 30 June 2013 to allow: (i) some Ph.D. candidates to complete their studies before the proposed loan closing date; (ii) more time for transferring research results into the extension and preparation of about 30 training programs and curriculum revision so that the project impact would be maximized; and (iii) extract lessons in adoption of market mechanism in financing research and extension systems for public sector management. This is the only extension under the Project.

7. Commensurate with the extension of the Loan, a number of consultants under the Project have been extended to support Project completion and additional consultants have been added to complete specific tasks in 2012. These changes received a no objection from ADB on 26 July 2011. The last review mission of the Project was fielded in September 2012.

III. MISSION FINDINGS

A. Overall Progress

8. As of 30 April 2013, the EA estimated overall physical progress of the Project at about 98.7% against the elapsed time of 97.2% since loan effectiveness (Appendix 2). Despite the start-up difficulties faced during the first 1.5 years, the Project was able to make up for lost time and achieved all of its outputs, outcomes, and even the impacts effectively. With the gain from exchange rate, the loan amount increased from \$30 million to about \$31.099 million, allowing for expanded scope of activities and exceeding the original target outputs in some components, particularly on research and equipment support. Implementation progress for each component is as follows: Component 1: Client-oriented agricultural research and capacity strengthening, 98.5%; Component 2: Grassroots agricultural extension improvement, 100%; Component 3: Rural-based technical and vocational training, 98.2%; and Component 4: Project management, 98%.

9. The Project is approaching its final month with no implementation problems. Significantly, the Project has achieved all outputs, outcomes, and importantly it has achieved all targets as stated in the impact indicators even before the Project closing. In general, impacts of a project take years to materialize but the favorable circumstance surrounding this Project and its early achievements of outputs and outcomes have contributed positively to bring about early impact achievements. The Project impact statement in the Design and Monitoring Framework (DMF) is: sustainable and equitable agricultural growth achieved. The first DMF impact indicator envisaged that the Project would contribute to increased aggregate value added and exports of the agriculture sector at about 3.0-3.2% and 12.3-14.3% respectively per annum during 2006–2010. The assessment shows that the current aggregate value added and export of agriculture sector has increased at about 3.8% and 14.8 percent per annum respectively for the same period. The second DMF impact indicator envisaged rural poverty to decline below the 45% level of 2003. Assessment shows that rural poverty incidence has declined to 15.9% in 2011.

10. Project outcome which is 'National system of agriculture science and technology strengthen' is also achieved. Client-oriented AST system has improved with linkages between research and extension strengthened through effective introduction of market mechanism in granting research funds to pro-poor research. Multiple extension services are now in place involving various service providers participating in extension activities through bidding mechanism. Significantly, the Project has contributed effectively to strengthen the national science and technology research, development and extension system for the agriculture sector of Viet Nam, leading to more equitable and sustainable growth. Competitive bidding process for awarding research and extension contracts has been effectively introduced, resulting in

improved public expenditure management on agriculture research and extension. Outputs of more than 50% of research projects are appropriate for the poor remote regions and are now further tested for extension. The bottom-up, participatory approach in extension activities has been effectively implemented by the PPMUs resulting in the Project achieving high outreach to impoverished marginal regions, although gender mainstreaming could be further strengthened. Capacity building for vocational schools and colleges has effectively strengthened human resources for implementing the national plans. Training of research staff, including overseas degree and non-degree programs, short-term domestic training courses and study tours have contributed to the strengthening of technical and management capacity and have facilitated networking among researchers. Additional information on progress of each component is reported under each output in the Aide Memoire and is also summarized in Appendix 3.

11. Given the Project's pioneering and successful roles in implementing new public expenditure management for research and extension activities, leading to improved linkages between research and extension for the poor, the Project would have even more significant impact if these tested mechanisms are institutionalized in the national research and extension systems. The success of this Project is of interest of not only in Viet Nam but is of great interest to international development community. Given the increased global awareness on climate change affecting agriculture sector and the need to increase investment in research and extension to prepare the sector to improve its resilience while enhancing low carbon agricultural growth, it is expected that the successful experience in this project can be documented as knowledge products from Viet Nam to be shared with international development community in various regional and global forums. Since January 2013, consultants have been fielded to review and extract lessons on key factors to success under this Project and to synthesize them as knowledge products. This review mission devoted significant time to provide guidance and supervision to the consultants to ensure that quality knowledge products will be produced.

B. Progress of Components

1. Component 1: Client-Oriented Agricultural Research and Capacity Strengthening

12. **Client-Oriented Research Programs (Sub Component 1).** The Project promotes agricultural research programs and timely application of research results' to clients' practical uses. Research proposals focusing on knowledge, information, and technologies relevant to the agro ecological regions serviced by regional research institutes are funded under the Project.

13. As of 30 April 2013, all 125 research projects (100%) and 70 extended models of research result of research projects have been completed.

14. The Research Project Review Council of MARD reviewed and evaluated all the projects. Thirty of 120 research projects (24.4%) were evaluated as excellent (91-100 points); 90 (73.2%) were evaluated as good (76-90 points) and only 5 research projects (4%) were considered satisfactory (65-75 points). Forty percent of research projects were headed by female researchers. It is noted that all research projects headed by female researchers received excellent and good score. Out of 79 projects applicable for extension to farmers, 70 projects were selected for farmer-managed on-farm trials for further extension. The 70 projects include 10 research projects on livestock, 4 on forestry, 2 on environment, 1 on fishery, 2 on integrated livestock and crop. The remaining were on fruit trees, organic fertilizers, silkworms and pest management. All 70 projects were assessed excellent and good, in which 17 model was excellent (24%) and 53 models with good (76%).

15. As of 30 April 2013, 6,538 households have participated in the research projects, 52% of which were female-headed households and 38% were ethnic minority households. A total of 22,659 farmers and 1,216 extension staff have participated in training courses conducted as part of the research projects. Forty-eight percent of the participants in training were women farmers. Of the 125 research projects, about 38% address environmental issues, safe food production and climate change mitigation and adaptation, focusing on topics including: soil erosion control, land reclamation, agro-chemical management, biodiversity conservation, organic farming and VietGAP.

16. The research outputs include recommendation of a total of new 197 varieties of crop and livestock. Productivity improved between 10%-15% compared to control (current varieties of crop and livestock). The research projects also recommended new 245 production practices and implemented 291 demonstration models. Productivity improvement of the new production practices increased from 10-25% compared to control (current technologies and methods). Estimates of improvements in net profits range from 10%-25%, with some increased by 50%-70% compared to control.

17. Data on impacts of the adoption of research results on household income are available for 95 research projects. Household income increased by 21-25% for 50 projects (60%), by 15-20% for 22 projects, and by 10-14% for 21 projects (22%).

18. The scale of livestock production covers an area of 1,271ha, with 384 cattle. Other product outputs include 100 tons of organic fertilizers and improved preservation method for 1 million poultry eggs. A total of 6,557 households participated in the replication model, with 45% of ethnic minority households. A total of 20,281 participants were trained on new technologies which were outputs of research models, 53.9% were women and 40.9% were ethnic minorities.

19. Since impact of agriculture research normally take years to materialize and since the Project will be closed on 30 June 2013, CPMU in collaboration with DSTE established a comprehensive database of baseline and monitoring systems of all 125 research projects for future use beyond AST project period. DSTE has agreed to report to MARD for the need to allocate budget to continue to monitor and assess impacts of the 125 research projects for its own utilization and for future impact evaluation of the Project by ADB. In particular the impacts of the 125 research projects are to be reported to ADB in 2014 for the Project Completion Review Mission, one year after Project completion.

20. The Project has successfully scaled-up improved linkages between research and extension and has achieved pro-poor outputs, leading to equitable growth in Viet Nam. The use of clear criteria for research project selection and the open call for research proposal was effectively implemented leading to nationwide participation of researchers, particularly young researchers. This model of research management should be show-cased and be institutionalized by MARD and other ministries in Viet Nam. There is a need, however, to recognize that this model of research selection and implementation may be more appropriate for applied research and particularly for on-farm trial research in remote area, it may not be appropriate for use in other forms of agriculture research such as basic research and long-term research of large size.

21. **Training of Research Staff (Sub-component 2).** The subcomponent addresses the shortage of qualified research staff by providing short-term on-the-job training and postgraduate and postdoctoral study programs for the staff of agricultural research institutes and other institutions of the national AST system. The on-the-job training will enable staff to more

effectively utilize existing laboratory equipment and facilities and that procured under the Project, and improve their knowledge and skills to manage sophisticated facilities.

22. **Overseas Training.** The Project target to support 55 candidates to attend post graduate programs overseas has been exceeded with 57 candidates sent for overseas training (04 Post-Doctoral, 18 PhDs, 35 Masters). There were savings on tuition fees which were used to support candidates beginning training courses in 2011. Of the 57 candidates, 32 Masters Degree candidates, 3 Doctoral Degree candidate and 4 Post-Doctoral candidates have completed their programs and have returned to their respective institutes to apply the new knowledge gained in their studies. Two candidates for PhD degrees have withdrawn, one for health reasons and the other due to language difficulties and both have returned to work in their institutes.

23. Despite the extension of the Project, 17 students will still not complete their studies by June 2013. DOP reported that 2 Masters Degree and 11 Doctoral Degree students cannot complete their training program before loan closing date on 30 June 2013. One PhD student is proposing to extend his course to the end of 2014. To ensure the success of the overseas training programs and significant contribution to MARD, DOP re-evaluated the proposals of the candidates and requested universities specifying learning status of candidates and funds supporting them to complete the courses. Currently the students have been granted an extension to complete the research program at the end of 2013. One PhD student who went to Germany in 2008 returned to Viet Nam without reporting to the Project and didn't return to work in his research institute. In effect, he has violated the agreement he signed with the Government of Viet Nam. The Mission recommended DOP to further consult the Project Steering Committee to decide on appropriate action for this case. The Mission clarified once again that ADB loan proceeds will not finance expenditures for students who will not complete their courses by the loan closing date. The Mission is pleased that DOP and CPMU have approached all universities to ensure that the students will be completing the education as soon as possible and that the final payment by the Project to the universities be processed by 20 May 2013. The Mission requested DOP to monitor progress of students beyond the Project period and report to ADB in 2014 during the Project Completion Review Mission.

24. **Short-term overseas training.** The Project organized additional activities under the sub-component: (i) one study visit to Korea on research management and agricultural extension with 11 participants from research institutes, (ii) 2 short-term training courses on organic cultivation and climate change in Taiwan in 2011 with 60 participants from research institutes and Departments under MARD, of which 20 participants were women (33%), and (iii) 1 short-term training course in Nebraska University, USA on climate change in 2012 with 10 participants. In addition, 29 staffs from 10 research institutes, 10 schools, MARD, APMB, CPMU participated in the study-tour in Malaysia on agricultural technology transformation in March 2013, of which 07 staffs were women (24.17%). Since there is a high demand for short-term overseas training and study tour, the Mission requested during the last review mission that evaluation of relative benefits and impacts of short-term overseas training and study tour be carried out by the Project. Since this has not been done yet, the Mission requests that this evaluation be conducted by the lessons learnt consultants and included as part of the final report of the consultants.

25. **Local Training for Researchers.** All activities were completed in April 2013. The component organized a total of 54 training courses by Vietnam Academy of Agricultural Sciences (VAAS) with 1,673 participants, of which 47.1% were women. Overall assessment of the training courses by participants has been high with the majority indicating that course

content met their needs (median assessment was 95%) and that they would be able to apply what they had learnt in their work place (median assessment was 82%).

26. Of the 54 courses, post evaluation was conducted on 40 short-term training courses conducted from 2008 to 2013. Post-course assessments were sought from trainees and their managers or supervisors six months or more after attending the training course. The majority of trainees were able to apply the skills learnt during training. With the exception of the macro-economic modeling course all trainees considered that their work attitude had improved since the training. Almost 80% of the trainees indicated that they had shared their knowledge and skills from the training with an average of 6 other work colleagues.

27. In March and April 2013, the Project conducted 4 training classes on “Strengthening experimental building skills, evaluation on the results of researches” and “Potential measures to reduce greenhouse gas emissions in agricultural production” for 145 participants, of which 47.5% were women.

28. Overall implementation of domestic training activities organized by CPMU and VAAS is satisfactory. Post-course evaluation has been conducted with positive results for the individuals and institutes, in line with their training needs. The Mission notes that Project activities of systematically conducting training needs and also conducting post-course evaluation are good practices which are yet to be institutionalized into the VAAS training system. For example, post-course evaluations are yet to be conducted for 14 courses. It is noted that, not VAAS staff but, only the consultants are conducting evaluation activities which is not sustainable. For the Project to claim success for its training activities, one of the measures should be how the good practices introduced by the Project are institutionalized into the VAAS system. The Mission requested that the post-evaluation be conducted systematically for all 54 courses beyond the project period. In particular, the post-evaluation of the 14 courses which were not done yet should be done immediately and be reported in the final project progress report and during the PCR Mission in 2014.

29. **Upgrading of Research and Laboratory Equipment (Sub-Component 3).** The Project is providing and upgrading essential research and laboratory equipment of selected MARD agricultural research institutes to fill critical gaps in research due to outdated equipment.

30. The Project has a total of 52 packages for research and laboratory equipment. A summary of the status of the procurement of packages for institutes can be found in Appendix 4. A checklist for environmental safeguard for safe disposal of toxic waste from equipment has been developed by the Project. The consultant completed the environmental impact assessment report based on comments from institutes/schools and CPMU, submitted to ADB in May 2012.

31. CPMU conducted a study on laboratory equipment use and found that awareness on environmental impacts of chemicals from laboratory was high and the entire institute has generally complied with environmental and safe use/disposal regulations. The Mission requests that report of evaluation of effective use of equipment, including maintenance, be monitored by the research institute beyond the Project period and report to ADB in 2014 during the Project Completion Review Mission.

2. Component 2. Grassroots Agricultural Extension Improvement

32. The Project is improving farmers' access to participatory and pro-poor extension services and is strengthening linkages between agricultural research and extension services. Activities are being implemented in Dak Nong, Nghe An, Ninh Thuan, Quang Nam, and Thanh Hoa provinces. NAEC continues to oversee activities under this component.

33. **Pro-poor Provincial Agricultural Extension Services (Sub-Component 2.1).** This sub-component provides ongoing technical training programs for local extension staff and farmer groups; and procurement of basic equipment and provision of support for incremental costs of the information and communication capacity and networks of NAEC, provincial agriculture extension centers, and district stations for agricultural extension.

34. A total of forty-five extension staff from five provinces participated in the Training of Trainer (TOT) program. Only 4 of the TOT members are female, equivalent to 9%. A total of 1,162 training courses were conducted for 28,615 extension staff, including extension service providers. Of the 1,559 extension staff trained at the sub-district level, 35% were female and 27% were ethnic minorities. One hundred and twenty three training courses have been organized for service providers since 2008 with 2,963 participants of which 34.6% were female. Since 2008, 948 courses were organized for 23,559 provincial and district extension workers with 28% female participants. During project period, the Project conducted 22 training courses for 593 provincial extension staff in five provinces for which women participants were 34%. The service provider organized 1365 technical training on extension models for 37,449 farmers of which 61% were female and 30.3% were ethnic minorities. It is noted that training for female extension workers and female staff from service providers account for 35% and 36% respectively.

35. Networks of exchange for extension workers (national and international) have been established through in-country and overseas study visits. The Project supported the following study visits to: Thailand (December 2008); Taiwan (April 2011) and 18 in-country visits were organized by 5 provinces-Thanh Hoa (4), Ninh Thuan (3), Quang Nam (4), Nghe An (6) and Dak Nong (1) for staff of the PPMU, extension centers and extension service agencies totaling 219 people. Training on extension M&E was organized for all project provinces in Thanh Hoa in July, 2011 with a total of 20 project/extension staff (25% female). In addition, provinces organized training courses on M&E for monitoring officer at district and communal level and service providers in each province from 2 to 6 training courses.

36. NAEC developed a communication plan, using mass media in five provinces to disseminate information on subjects related to sustainable and equitable agriculture development. As of April 2013, 6 programs for extension information have been shown on VTV7 and VOV. A total of 20 programs were developed and broadcasted on radio and TV stations. Ten agriculture technical DVDs have been shown on VOVTV and VTC16.

37. The Mission visited the broadcasting studio financed by the Project for NAEC. With the studio, NAEC is now producing programs to broadcast nationwide and has also produced 25 extension DVD using the equipment. The Mission requested that the use of equipment purchased by the Project (studio and other extension equipment in 5 provinces) and its impact be monitored beyond Project period and to report to ADB for future impact assessment.

38. **Promotion of Extension Contracts (Sub-Component 2.2).** The sub-component finances on-farm demonstration trials in the provinces through contractual arrangements with regional or national research institutes to strengthen the provincial links between research and extension.

39. All extension contracts in five provinces were completed by December 2012. In total, the Project implemented 615 extension contracts for which 579 were demonstration models and 36 (5.8%) were research trials. These included: 231 demonstration models and 7 research trials in Thanh Hoa; 131 demonstration models and 10 research trials in Nghe An; 90 demonstration models and 7 research trials in Quang Nam; 81 demonstration models and 9 research trials in Ninh Thuan; and 46 demonstration models and 3 research trials in Dak Nong. The contents of demonstration models include 388 livestock models (63%), 176 crop production models (28%), with 9% of remaining models covered activities including fisheries and mechanization of farming systems.

40. The evaluation conducted by the Project revealed that of the 615 extension contracts, 421 were 'good', 177 models (28.3%) were 'moderately good', and only 8 contracts in Dak Nong and Ninh Thuan (1.3%) on livestock were 'un-satisfactory' due to disease break out and adverse weather. Five hundred and two contracts (93.1%) led to 6-25% higher productivity compared to control group.

41. The National Value Chain Development Specialist conducted training courses on survey methods and data analysis to staff of five PPMUs and guided them conduct of surveys of indigenous knowledge and possible marketable products from their respective provinces. The results showed that of the 97 varieties of native plant found in the investigation process, 28 indigenous plant varieties have potential to be developed as marketable products. Similarly, of 29 native animal varieties investigated, 18 varieties of native animals have potential to be developed as high-value products. The Mission noted the good results of the study. Unfortunately, since the survey results are only available now when the project is closing, CPMU is to encourage the five provinces to utilize the survey results to support value chain development for these high-value products, using its own budget.

42. As of 30 April 2013, 240 service providers participated in the bidding process in the 5 provinces with 164 service providers awarded contracts to implement 615 extension models. Since 2010, increased number of non-government service providers participated in the bidding process, raising competitiveness and quality of extension services in the project areas. An assessment of extension service providers found that level of competition varied among the five provinces, with one PPMU (Quang Nam) awarded contracts to five types of organization (three government organizations and Quang Nam Farmer's Union) while contracts in other provinces spread among six to nine different types of organizations. However, participation of private sector firms were relatively limited.

43. Preliminary impact evaluation of the Project showed an EIRR of 72% for extension systems which is extremely high and the Project Team is to be congratulated. An in-depth evaluation to extract lessons from the Project for national and international communities is being conducted to document (i) how participatory process was effectively used in identifying poor households to participate in the project, (ii) how demand from poor-households were derived and translated into bidding documents, (iii) how public expenditure utilization has been improved by adopting bidding systems for extension contracts, (iv) financial implications from extension contracts for participating schools and research institutes, and (v) opportunities and constraints to further improve pro-poor, gender responsive extension systems, including the use of ICT.

44. The Project's performance on gender mainstreaming and gender-responsive training program could have been improved. The number of female extension workers was limited, particularly at the grassroots level.

45. The quality of extension materials produced by the Project could have been more poor, using more simple languages and with more illustrations. Repeated recommendations by Review Mission for the Project to support production of gender-responsive extension materials; to support farmers-to-farmer learning through domestic study tours and farmers making DVD; and to document successful poverty impact under the Project were largely not taken up by the Project.

3. Component 3. Rural-Based Technical and Vocational Training

46. The capacity of ten rural-based technical and vocational training schools is being strengthened by (i) improving technical knowledge, teaching, and managerial skills of teachers and administrators and curricula; and (ii) upgrading library and laboratory equipment and materials, teaching and laboratory facilities, and office equipment for school administration. DOP continues to oversee activities under this component.

47. The activities under this subcomponent are near completion. As of 30 April, 2013, 30 training programs have been completed with 244 approved sets of training materials. Completed training materials have been put into use, meeting demands of schools.

48. Training courses conducted under this sub-component include:

- (i) Ten courses on "Developing Training Curricula" for 271 participants (39% women participants)
- (ii) Six courses on credit transfer system for 195 participants (23% women)
- (iii) Six courses on compiling training materials for 189 participants (40.2% women)
- (iv) Three e-library training courses were conducted for library management staff (including 78 participants of which consisted of 58 women (74.3%)).
- (v) Three training courses on Management methodologies and science mission implementation, technical technology transfer for 98 participants in which 42 are female (42.8%).
- (vi) One course for E-office application and general administration for 50 participants in which 38 are female (76%).
- (vii) English training courses were organized at each of the 10 project schools for school leaders and teachers (15-20 participants in each school).

49. In addition to domestic training, three overseas study tours were organized to visit People Republic of China in 2008 and to Thailand in 2012, Malaysia in 2013. To date, female participation in training courses under the project has been more than 41.7%.

50. The sub-component has a total of 71 packages for 10 schools (including 14 for small-scale civil works for the construction and renovation of classrooms, libraries, and laboratories and 57 for laboratory equipment). All 14 civil works contracts have been completed and fully turned over. Fifty-four out of the 57 equipment packages have been used and the remaining three are under the transferring process. The status of the packages procured is presented in Appendix 5.

51. The Project supported the establishment of an e-library system to facilitate sharing of knowledge products and information among 10 schools, in association with the Center for Information and Statistics under MARD. In April 2013, CPMU and Da Nang Food Production College organized 3 hands-on training courses for 9 colleges and agricultural vocational schools. After training, all library staff successfully used the e-library equipment.

52. Training consultants of the project and CPMU staff had field trips to assess training programs which were developed in some school. Report was completed and sent to ADB in January 2013.

53. The Mission reiterated the need for the school to continue with its monitoring systems beyond the Project period for use in future impact assessments of the Project.

4. Component 4: Project Management

54. The CPMU is the overall project management support, acting as the central contact and coordination point for the Project, and monitoring the progress of all components. There are five, provincial project management units (PPMU) in five provinces and 20 institute project management units (IPMU) comprising ten research institutes and ten agricultural colleges & vocational schools implementing the various project activities.

5. Overall Achievements of Project outputs based on Project DMF

55. This section of Aide Memoire reports achievement based on DMF (Appendix 3) outputs and indicators.

(i) Output 1. Improve capacity of physical and human resources for agriculture research. Achievements based on DMF indicators are:

a. Indicator 1. Efficiency and usage of laboratory equipment increased significantly.

Achievement: Project monitoring system showed that equipment purchased under the projects were used by over 355 researchers. Survey of researchers indicated that the quality of their research has improved and they were able to expand the scope of research into more specific research on over 30 research topics which would not have been possible without the equipment. Number of samples sent out for evaluation by outside laboratory declined by 67.5%, indicating efficient use of equipment funded by the Project.

b. Indicator 2. Research staff with relevant postgraduate qualification increased from 20% in 2003 to 30% in 2008.

Achievement: Research staff with postgraduate qualification increased from 38% in 2008 to 53% in 2011.

(ii) Output 2. Agricultural research activities made more responsive to client needs.

a. Indicator 1: Research and technology transfer contracts undertaken in province of different agroecological regions

Achievement: Pro-poor research projects were conducted in 46 provinces as well as in all agroecological regions of Viet Nam.

- b. Indicator 2: Not less than 40% of the value of research contracts addressing needs of upland or remote communities.

Achievement: 74% of research projects (about \$3,700,000 equivalent) were conducted in upland and remote communities.

- (iii) Output 3. Farmers' access to participatory and pro-poor agricultural extension improved.

- a. Indicator 1. Need-based provincial planning systems for agricultural extension established.

Achievement: In all five project provinces, extension plans were developed based on participatory method from commune to district level. A total of 129 workshops were organized in 127 communes to identify extension priority and planning for the activities.

- b. Indicator 2. Project extension activities implemented in upland and remote areas of the five project provinces.

Achievement: A total of 615 extension contracts were awarded, 375 (61%) of which were implemented in upland and remote areas of the five provinces.

- c. Indicator 3. Not less than 40% of the value of extension contracts addressing needs of upland and remote communities.

Achievement: 65% of the total value of extension contracts were awarded for upland and remote areas of the five project provinces.

- (iv) Output 4. Improve linkage of agricultural extension services with research strengthened.

- a. Indicator 1. Participation of provincial extension centers in regional research activities, including provincial research programs and field research trials.

Achievement: A total of 50 provincial and district agriculture extension centers participate in implementing extension contract and were partners for the 125 client-oriented research projects.

- b. Indicator 2. Practical linkages between farmer groups, extension service providers, and research institutes formalized.

Achievement: Under the 615 extension contracts and 125 research projects financed under the Project, practical linkages between farmer groups, extension service providers and research institutes were successfully and effectively formalized.

- c. Indicator 3. Effective mechanisms for increased stakeholder participation in extension services established.

Achievement: Open bidding method whereby information was announced in national and provincial TV and newspaper was successfully used to increase participation of wide range of extension service providers, including local extension centers, research institutes, schools, and private sector firms.

- (v) Output 5. Rural-based technical and vocational training made more responsive to national sector goals.

- a. Indicator 1. Effective systems to link between schools and industries in place.

Achievement: In curriculum development in all project schools/colleges at least one representative from relevant industries is represented in the Curriculum Board. During the Project period, a total of 177 representatives of private sector and external agencies participated in the preparation of the training program and curriculum development.

- b. Indicator 2. Appropriate curriculum guidelines introduced to reflect national sector goal.

Achievement: A total of 30 curricula were developed based on national sector goals, including based on the national food safety and national climate change strategies for agriculture sector.

- (vi) Output 6. Capacity of rural-based technical and vocational training strengthened

- a. Indicator 1. Average usage of school laboratory equipment in the school selected under the Project increased substantially.

Achievement: Annually, about 16,020 teachers and researchers as well as 430,730 students have improved access to teaching and laboratory equipment, leading to improved learning experiences.

- b. Indicator 2. Average of about 90% of the graduates of the targeted schools enter into full-time employment.

Achievement: On average, students from Project school who find full-time employment within 6 months to one year increased from 75% in 2009 to 77% in 2011.

Overall achievement has been highly satisfactory with all DMF targets and indicators met or exceeded. The Project team should be congratulated for this significant achievement.

56. **Project Completion Report (PCR).** A draft PCR has been submitted to ADB and detailed comments were provided to the consultant by the Mission. The report will be finalized and submitted to ADB by the closing date of 30 June 2013.

C. Procurement of Civil Works, Goods and Services

57. CPMU reported the status of procurement activities for each component in Appendix 6:

- (i) **Component 1:** Fifty packages for research and laboratory equipment have been awarded. Delivery and full payment of the packages will be done before 30 June 2013.
- (ii) **Component 2:** The procurement of office equipment for the PPMUs and extension equipment for agricultural extension station, development of extension materials for 5 provinces, and production of DVDs on agriculture extension have been completed. One package (Package 18: Printing of Agriculture Extension Materials for Five Provinces) is being prepared for advertisement and another package (Package 30: Mobile Communication Equipment for Five Provinces) was approved by ADB on 25 April 2013. These remaining packages will be delivered and paid before the loan closing date.
- (iii) **Component 3:** All 71 packages (14 for small-scale civil works and 54 for library, laboratory, teaching and office equipment) have been awarded. One package (Package 26: Printing of Curricula for Ten Participating Schools) will be signed shortly. Full payment of the packages will be done before 30 June 2013.

D. Consulting Services

58. **Consulting Firm Inputs.** The consultants mobilized on 11 September 2008. The original contract originally provided for a total of 125 person-months (pm) comprising of 29 pm for international and 96 pm for national. Amendments have been made during the course of the implementation. Of the 177.8 pm of consulting services inputs, 171.9 pm (24.57 international and 147.3 national) have been utilized as of 30 April 2013, equivalent to 97%. About 5.9 pm were left unutilized. All consultants have completed their inputs. The status of consulting services is presented in Appendix 7.

59. Regular discussions between CPMU and the consultants have been held to update each other on key project issues and outcomes. The relationship between the consultants and the CPMU has strengthened over the course of the Project with a high level of cooperation for all Project activities. Relations between the consultants and MARD partner departments and agencies are satisfactory.

60. **Individual Consultants.** The Project engaged 7 individual consultants (extension specialists for the 5 provinces, a training consultant, and a CPMU coordinator). Five consultants have completed their inputs and two withdrew from the Project due to personal reasons. To date, 183 person-months, out of a total of 204 pm, have been delivered (Appendix 7). In addition, The CPMU engaged 1 international and 2 national consultants to document lessons learned from the Project with the intention of sharing these with various stakeholders and the international development community. Completion and payment to these consultants will be done before the loan closing date.

E. Project Reporting

61. An Annual Progress Report for 2012 was submitted on 27 January 2013. The Progress Report for 1Q 2013 will be submitted shortly. The quality of progress reports submitted has improved over time but could have been further enhanced to include updates on the DMF and compliance with loan covenants. A list of the reports submitted by the Project is in Appendix 8.

F. Project Costs and Financing

62. **Contract Awards and Disbursement.** As of 30 April 2013, the CPMU reported total disbursement of \$39.863 million comprising \$30.298 million from ADB funds and \$9.566 million from Government funds. A schedule showing overall project expenditure to date is in Appendix 9.

63. The status of ADB Loan utilization as of 30 April 2013 can be found in Appendix 10. The dollar-equivalent value of ADB's loan (SDR20.198 million) is \$31.098 million. The cumulative contract awards and disbursement achieved reached \$28.07 million (90%) and \$31.09 million (100%) respectively.

64. **Imprest Account.** CPMU has begun liquidation of the advance (\$3.0 million) in the imprest account with the submission of WA A0204 amounting to approximately \$1.5 million). ADB is currently processing the WA and this will be reflected in LFIS shortly. Further payments are being done to liquidate the remaining balance. CPMU reported that the advance in the imprest account will most likely be fully liquidated. Appendix 11 shows an estimate of the remaining amount to be liquidated. There is an uncommitted amount of \$11,245 in the loan account. CPMU was advised that this can still be utilized after the advance has been fully liquidated. The Mission requested CPMU to ensure that full liquidation of the impress account and utilize the uncommitted amount to the extent possible.

65. **Audited Financial Statements (AFS):** An update on the actions taken to resolve issues raised in the Audited Financial Statements (AFS) for 2010 and 2011 is attached in Appendix 12. The Audited Financial Statements (AFS) for the period 2012 will be submitted and paid in June 2013.

66. CPMU is aware that a final audit report (for the period January to June 2013) is required and advised that the audit will not be completed on or before the loan closing date. The Mission advised that payment of final audit fees can be done after 30 June 2013 since, as required in the Loan Disbursement Handbook, (i) the contract for the final audit was signed on 20 February 2013, and (ii) the contract is a fixed price contract and the Minutes of Negotiation with the auditor requires completion of the final audit by 31 August 2013 (which is within 6 months after the loan closing date). The Mission advised that an addendum to the contract be done to clearly show submission of the final audit by 31 August 2013. CPMU will push for completion (and acceptance by EA) of the final audit within the winding-up period of 4 months after loan closing date or 31 October 2013. Payment of the final audit fee, if withdrawal application is received before 31 October 2013, may be done through direct payment, reimbursement, or liquidation of the imprest advance. Appendix 4D of the Loan Disbursement Handbook provides further guidance on this.

67. **Counterpart Funds.** Throughout implementation, counterpart funds for Components 1, 3, and 4 were sufficient; however, some PPMUs faced difficulties in the beginning of the Project. In 2010, the Project Steering Committee authorized reallocation of project funds to assist these PPMUs. After the Midterm Review (2011), counterpart funds for all provinces were reported as sufficient. The cumulative Government cash expenditure to date is reported as \$9.566 million.

68. **Preparation for PCR.** In preparation for the PCR Mission scheduled next year, the Mission requested CPMU to ensure that a financial records be prepared to show (i) the Project's expenditures on a per year, per component, per category, per financier format, and (ii)

"in-kind" contribution (salaries of staff and office accommodation costs assigned to the Project) provided by the government are prepared.

G. Benefit Monitoring and Evaluation

69. The variation of project sub-components has included partly the building of benefit monitoring system in each PPMU. With the project approaching completion, the CPMU will ensure that all records have their copy submitted to CPMU and are managed to be available for evaluation activities in the future. CPMU, PPMUs and IPMUs are encouraged to continue with the monitoring systems beyond the project period for their own use and for future ADB reviews. The copy of general baseline data and project monitoring system is to be submitted to ADB for evaluation activities one year and five years after the end of the project.

H. Environmental and Social Safeguards

70. As the Project works largely in environmental and social sensitive areas, ADB safeguards was generally adhered to. The last review mission pointed out that awareness on social and environmental safeguards remains to be improved. CPMU forwarded a summary of ADB's environmental safeguard policy to disseminate among PPMUs and conducted a number of field trips to Institutes/schools to review their compliance. Four training courses on environmental protection and climate change adaptation measures in agricultural production were conducted for PPMUs. An environmental evaluation for research project was prepared. It was shown that all projects more or less help rehabilitate/improve the environment and mitigate/address the environmental impacts. Most varieties preserved/improved are indigenous ones or those which are cross-bred with high yield, drought/ heat-tolerance, short growth duration and high climate change adaptability. It was concluded that effective follow-up by the CPMU on compliance is required to ensure that the safeguards are adequately implemented.

I. Compliance with Loan Covenants

71. The Mission finds the loan covenants to be generally complied with. Weaknesses on gender, environment, and social safeguards are being corrected in the remaining period of the Project. The Project Steering Committee meets twice a year, independent of other project activities i.e. wrap-up meeting of ADB Mission and other project meetings to plan and to resolve issues in the Project. An updated schedule of covenants is given in Appendix 13.

72. **Project Completion Review Mission.** The Mission proposes that a PCR Mission be undertaken in March/April 2014.

Follow up actions agreed:

No.	Reference	Actions to be Taken
1	Para. 19	Component 1. (Client-oriented research) - DSTE agreed to report to MARD the need to allocate budget to continue to monitor and assess impacts of the 125 research projects for its own utilization and for future impact evaluation of the Project by ADB.
2	Para. 23	Component 1 (Overseas Training) - DOP to monitor progress of students beyond the Project period and report to ADB in 2014 during the Project Completion Review Mission.
3	Para. 24 and 28	Component 1 (Short-term overseas Training and domestic training by VAAS) – Lessons learnt consultants to include in the final report, among other things, an evaluation of relative benefits and impacts of short-term overseas training, study

No.	Reference	Actions to be Taken
		tour, and post-evaluation of 54 domestic training course conducted by VAAS. Evaluation on the extent of institutionalization of good practices in the Project in future MARD activities are also be evaluated.
4	Para. 31	Component 1 (Upgrading of Research and Laboratory Equipment) – Research institutes to monitor and evaluate the effective use of equipment, including maintenance, beyond the Project period. Mission requests that a report to ADB is given in 2014 during the Project Completion Review Mission.
5	Para. 37	Component 2 (Pro-poor Provincial Agricultural Extension Services) – PPMUs and NAEC to monitor the use of equipment purchased by the Project (studio and other extension equipment in 5 provinces) and its impact beyond Project period and to report to ADB for future impact assessment.
6	Para. 53	Component 3 (Rural-Based Technical and Vocational Training) – Schools to continue its monitoring systems beyond the Project period for use in future impact assessments of the Project.
7	Para. 64	The Mission requested CPMU to ensure that full liquidation of the impress account and utilize the uncommitted amount to the extent possible.
8	Para. 66	Audited Financial Statements – CPMU to (i) amend the contract with auditor to clearly indicate completion of the audit report by 31 August 2013, and (ii) push for submission, acceptance and payment of the final audit within the winding-up period.
9	Para. 68	Preparation for PCR – CPMU to ensure that financial records are prepared to show (i) the Project's expenditures on a per year, per component, per category, per financier format, and (ii) "in-kind" contribution (salaries of staff and office accommodation costs assigned to the Project) provided by the government are prepared. The revised PCR is to be submitted to ADB in June 2013.
10	Para. 69	CPMU, PPMUs and IPMUs are encouraged to continue with the monitoring systems beyond the project period for their own use and for future ADB reviews. The copy of general baseline data and project monitoring system is to be submitted to ADB for evaluation activities one year and five years after the end of the project.

J. ACKNOWLEDGEMENTS

73. The Mission expresses its gratitude to the Government, its staff (especially the following agencies: DOP, DSTE, NAEC, VAAS), and the consultants for the cooperation and hospitality extended. With the winding up of the physical activities under the Project, the Mission encourages the Government to share the lessons learned extracted and to share these with various stakeholders and the international developing community. The Mission looks forward to collaborating with the team in future to showcase this significant achievement of the AST Project.

Signed in Hanoi, May 2013
 Sununtar Setboonsarng
 Principal Natural Resources and Agricultural Economist
 Southeast Asia Department
 Asian Development Bank

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APPENDIX 1: LIST OF PERSONS MET

1. CPMU & Consultants:

1.1 CPMU

Nguyen The Hinh – Deputy Director of APMB - Director of CPMU
Vu Tien Dung – Deputy Director cum Head of Technical Division of CPMU
Le Thi Nhung - Technical staff
Pham Thi Tra Vinh – Technical staff
Trinh Thi Thuy Hoi – Technical staff
Nguyen Thi Minh Huong – Planning staff
Tran Diem My - Planning staff
Nguyen Dinh Dieu – Chief Accountant
Duong Thi Diem Hang – Accountant staff
Bui Thuy Linh - Accountant staff
Pham Thi Huong - Accountant staff
Nguyen Thi Viet Ha - Accountant staff
Nguyen Thi Thanh Nga- Accountant staff
Nguyen Thi Thanh- Administration staff
Nguyen Van Quy- Administration staff
Nguyen Thi Ngoc Lan - Administration staff
Hoang Thi Thu Hang - Administration staff

1.2 Consultants

Duong Van Xanh – International consultant for documentation of lessons learnt
Luong Tat Nho – National consultant for documentation of lessons learnt
Dang Tran Tinh – National extension consultant for documentation of lessons learnt

2. APMB:

Nguyen Huu Khuong – Director of APMB

3. DSTE:

Nguyen Tan Hinh – Vice Director of DSTE
Tran Thi Dinh – Staff

4. DOP:

Pham Hung- Vice Director of DOP
Tran Thi Anh Thu – Staff

5. NAEC:

Mr. Nguyen Van Thong, Director of NAEC
Ms. Ha Thuy Hanh, Deputy Director of NAEC
Mr Nguyen Van Chung, NAEC's staff

6. VAAS:

Mr. Nguyen Van Tuat, Deputy Director of VAAS
Mr. Nguyen Hoang Long, Information Department
Mr. Bui Xuan Du, Information Department

7. Wrap-up meeting

APMB:

Nguyen Huu Khuong – Director of APMB

Tran Thanh Truc – Accountant of APMB

Nguyen The Hinh – Deputy Director of APMB - Director of CPMU

Vu Tien Dung – Deputy Director cum Head of Technical Division of CPMU

Le Thi Nhung - Technical staff

Pham Thi Tra Vinh – Technical staff

Trinh Thi Thuy Hoi – Technical staff

Nguyen Thi Minh Huong – Planning staff

Tran Diem My - Planning staff

Nguyen Dinh Dieu – Chief Accountant

Duong Thi Diem Hang – Accountant staff

Bui Thuy Linh - Accountant staff

Pham Thi Huong - Accountant staff

Nguyen Thi Viet Ha - Accountant staff

Nguyen Thi Thanh Nga- Accountant staff

Nguyen Thi Thanh- Administration staff

Nguyen Van Quy- Administration staff

Nguyen Thi Ngoc Lan - Administration staff

Hoang Thi Thu Hang - Administration staff

DSTE

Tran Thi Dinh – Staff

DOP

Pham Hung- Vice Director of DOP

Tran Thi Anh Thu – Staff

DOF

Nguyen Van Hung – Staff

VAAS

Nguyen Hoang Long – Deputy Manager of Information Department

Department of Planning – MARD

Tran Hoang Hiep – Staff

Ministry of Planning and Investment

Vu Hoang Yen – Staff

Appendix 2: Physical Progress Computation as of 30 April 2013

Components/Activities	Activity Progress			Subcomponent Progress		Component Progress	
	Weight	Progress (0 to 100)	Weighted Progress	Weight	Weighted Progress	Weight	Weighted Progress
I. Client-oriented Agricultural Research and Capacity Strengthening					98.55	43.94%	43.30
Client-oriented agricultural research programs			100.00	34.95%	34.95		
a. Identification of research needs	36.36%	100	36.36				
b. Procurement of needed materials and equipment	15.15%	100	15.15				
c. Use of research funds for selected programs	48.48%	100	48.48				
Training and post-graduate programs			97.33	29.14%	28.36		
a. Preparation of programs	13.33%	100	13.33				
b. Application and selection	33.33%	100	33.33				
c. Program implementation	53.33%	95	50.67				
Upgrading of equipment			98.13	35.91%	35.24		
a. Equipment specification and tendering	34.38%	100	34.38				
b. Procurement and installation	28.13%	100	28.13				
c. Training for equipment use and maintenance	37.50%	95	35.63				
II. Grassroots Agricultural Extension Improvement					100.00	21.76%	21.76
Provincial plans for pro-poor agricultural extension services	100.00%	100	100.00	20.00%	20.00		
Training programs for trainers, extension staff, and grassroots service providers			100.00	40.35%	40.35		
a. Extension module development	11.36%	100	11.36				
b. Preparation of programs	25.00%	100	25.00				
c. Application and selection	27.27%	100	27.27				
d. Program implementation	36.36%	100	36.36				
Provision of on-farm demonstration trials	100.00%	100	100.00	3.52%	3.52		
Contractual agricultural extension services			100.00	35.74%	35.74		
a. Establishment of a contractual management system	25.00%	100	25.00				
b. Extension contracts	75.00%	100	75.00				
Capacity strengthening of local extension centers			100.00	0.39%	0.39		
a. Equipment specification and tendering	36.36%	100	36.36				
b. Procurement and installation	63.64%	100	63.64				
III. Rural-based Technical and Vocational Training					98.22	25.25%	24.80
Training programs for teaching and administrative staff			100.00	3.48%	3.48		
a. Preparation of programs	20.00%	100	20.00				
b. Application and selection	32.00%	100	32.00				
c. Program implementation	32.00%	100	32.00				
d. Support for developing curriculum guides	16.00%	100	16.00				
Upgrading of library and laboratory facilities			98.16	96.52%	94.74		
a. Equipment specification and tendering	26.32%	100	26.32				
b. Procurement and installation	36.84%	100	36.84				
c. Training for equipment use and maintenance	36.84%	95	35.00				
IV. Project Management Support			98.00			9.05%	8.87
Establishment of provincial/institute project management units	10.00%	100	10.00				
Recruitment of implementation consultants	10.00%	100	10.00				
Procurement of vehicles and equipment	10.00%	100	10.00				
Appointment of incremental project staff	10.00%	100	10.00				
Establishment of a project steering committee	10.00%	100	10.00				
Monitoring of project activities	10.00%	95	9.50				
Financial auditing	10.00%	95	9.50				
Quarterly progress reporting	10.00%	100	10.00				
Midterm review	10.00%	100	10.00				
Project Completion Review	10.00%	90	9.00				
Overall Progress (%)							98.73

APPENDIX 3: DESIGN AND MONITORING FRAMEWORK

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
Impact Sustainable and equitable agricultural growth achieved	<ul style="list-style-type: none"> Aggregate value added and exports of the agriculture sector to increase at about 3.0–3.2% and 12.3–14.3% respectively per annum during 2006–2010 in line with the 5-Year Socioeconomic Development Plan Poverty incidence in rural areas decreased from 45% (2003) to 15.9% (2011)¹ 	<ul style="list-style-type: none"> National accounts National agricultural statistics (annual yields, production volume and value, varieties of crops and other products, and other relevant data) Poverty assessments Monitoring by the Ministry of Agriculture and Rural Development (MARD), and Ministry of Planning and Investment (MPI) 	Assumptions <ul style="list-style-type: none"> Macroeconomic stability maintained during the project period The country's agriculture sector continues to be effectively integrated into international markets Sustainable use of on-farm and off-farm natural resources 	<ul style="list-style-type: none"> Aggregate value added and exports of the agriculture sector to increase at about 3.8% and 14.8% respectively per annum during 2006–2010 in line with the 5-Year Socioeconomic Development Plan Poverty incidence in rural areas decreased from 45% (2003) to 15.9% (2011)¹
Outcome National system of agriculture science and technology (AST) strengthened	<ul style="list-style-type: none"> Client-oriented AST system in place with improved and more effective mechanisms for technology dissemination Closer linkages established between research and extension activities Multiple extension services in place, involving various 	<ul style="list-style-type: none"> Monitoring by MARD and MPI Project review missions of the Asian Development Bank (ADB) Project monitoring system and progress reports Regular dialogue with key stakeholders involved in the national AST system, including extension centers and research institutes 	Assumptions <ul style="list-style-type: none"> Continued Government commitment to the market-oriented agriculture sector in line with the national socioeconomic development plans Continued Government policies and actions to streamline AST institutions to respond to the national development goals 	<ul style="list-style-type: none"> The Decree N0 115/ND – CP dated Sep 5th, 2005 on self – control of research institutions has been issued. Based on that, the selection method of research programs in AST project has been changed to competitive bidding. The research projects were selected by competitive method in accordance with the project evaluation criteria issued by the Ministry of Agriculture and Rural Development. 100% research projects were selected on a competitive bidding basis

¹ Poverty line of 2012 is not yet update because there is no related data at the moment be issued. it will be issued in June, 2013 by Government Statistic Office.

Design Summary	Performance Targets/Indicators service providers	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
Outputs 1. Capacity of physical and human resources for agricultural research improved	<ul style="list-style-type: none"> • Efficiency and usage of laboratory equipment increased substantially • Research staff with relevant postgraduate qualification increased from 20% in 2003 to 30% in 2008 in line with the human resource development plan for agricultural research 	<ul style="list-style-type: none"> • Monitoring by MARD and MPI • ADB review missions • Project monitoring system and progress reports, including inventories of equipment and staff lists • Midterm and completion reviews of the Project • Regular dialogue with key stakeholders involved in the national AST system 	Assumptions <ul style="list-style-type: none"> • The Government's plan for research institute reorganization implemented • Skilled staff retained in the national AST system • Adequate financial resources for proper operation and maintenance Risk <ul style="list-style-type: none"> • Inappropriate intervention into procurement and selection of trainees 	<ul style="list-style-type: none"> • 355 researchers have used equipment funded by the project to enhance their research capabilities. Many of them (42 Ph.D students, 98 masters students, 129 graduated students) have used these devices to serve the completion of their thesis • The investment in equipment for the institutes from the project budget helped : <ul style="list-style-type: none"> + The institutes increase the number of implemented researches and programs compared to the previous years: 65 researches and programs. The percentage of hiring equipment and sample analysis has reduced by 67.5%. + Increased quality of research by 47.8%; developed or

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
				<p>implemented in a more specialized manner of 30 research topics</p> <ul style="list-style-type: none"> The average number of samples in need of analysis of 10 institutes is 213,450 of which mainly serves research projects (81%) while that for services accounts is 19%. Income from service provision of 10 institutes is VND 1,945 millions. This budget has being used for equipment O & M Percentage of researchers who are in Master level or higher in 10 project institutes increased from 38.3% in 2008 to 53% in 2011.
2. Agricultural research activities made more responsive to client needs	<ul style="list-style-type: none"> Research and technology transfer contracts undertaken in provinces of different agroecological regions Not less than 40% of the value of research contracts addressing needs of upland or remote communities 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports, including contract awards Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<p>Assumptions</p> <ul style="list-style-type: none"> Government procedures and regulations improved for the client-oriented AST system of the country Increased awareness among the stakeholder agencies about the need for client-oriented agricultural research activities 	<ul style="list-style-type: none"> Research projects were conducted in all 46 provinces as well as in all Vietnam's eco-regions. 65% of 125 projects² were about food security; 41.6% related to environment and climate change; 23.2% of market-related research. 74.5% of research projects were implemented in the remote and disadvantaged areas.
3. Farmers' access to participatory and pro-poor agricultural extension improved	<ul style="list-style-type: none"> Needs-based provincial planning systems for agricultural extension 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress 	<p>Assumptions</p> <ul style="list-style-type: none"> Active participation of key stakeholders in local communities in planning and 	<ul style="list-style-type: none"> All 5 project provinces developed the extension plans from commune to district based on local people's demands, thus effectively mobilized their participation. 129 workshops

² Total revised research projects after Midterm Review on 5-13 May, 2010 (as agreed by relevant departments/agencies of Vietnam and ADB) was only 125 projects.

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
	<ul style="list-style-type: none"> established Project extension activities implemented in upland and remote areas of the five project provinces Not less than 40% of the value of extension contracts addressing needs of upland or remote communities 	<ul style="list-style-type: none"> reports, including assessment of poverty incidence and evaluation of training and seminar programs conducted under the Project Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<ul style="list-style-type: none"> implementation of grassroots extension services Effective linkage between research and extension maintained Risk Inadequate finance made available for the extension services 	<ul style="list-style-type: none"> identifying extension priorities and planning were organized in 5 provinces and 127 communes 615 extension service provision contracts were performed mostly in upland and remote areas of the five project provinces. 65.64% of the value of which addressing needs of upland or remote communities
4. Improved linkage of agricultural extension services with research strengthened	<ul style="list-style-type: none"> Participation of provincial extension centers in regional research activities, including provincial research programs and field research trials Practical linkages between farmer groups, extension service providers, and research institutes formalized Effective mechanisms for increased stakeholder participation in extension services established 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<ul style="list-style-type: none"> Assumptions Government procedures and regulations improved for effective linkages between research and extension Increased awareness among local extension workers about the need to strengthen linkages with research activities 	<ul style="list-style-type: none"> The Government of Vietnam has issued the Decree 2/2010/ND-CP, dated Jan, 8th 2010 about Agriculture Extension in that effective linkages between research and extension was strongly emphasized There were 50 provincial AE centers and district AE stations have participated into research activities of 125 research programs as research programs' partners There were 6,538 farmer households, 52,1% are female household owner, 38,2% are ethnic minorities 940 agricultural extension workers, 41,5% are female and 36,8% are ethnic minorities participated in to research programs and field research trials. Bidding method was used for extension service providers' selection. Information of bidding were announced in National and

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
5. Rural-based technical and vocational training made more responsive to national sector goals	<ul style="list-style-type: none"> Effective systems to link between schools and industries in place Appropriate curriculum guidelines introduced to reflect national sector goals 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<p>Assumptions</p> <ul style="list-style-type: none"> National curriculum guides developed in line with the national sector goals School-industry councils provide effective guidance to schools Labor market information effectively communicated to technical and vocational schools 	<p>provincial television programs and newspapers</p> <ul style="list-style-type: none"> There were 177 people who are staffs of companies and agencies (outside of the project schools) participated in to the process of preparation of training programs and curriculums. In most of cases, the content of the curriculum commented by the employers A total of 30 curriculums has been assigned to colleges/schools, and has been put into use by headmasters in 2010 (phase 1) and 2011 (phase 2). Among the 30 curriculums, 18 are for colleges, and 12 are for vocational school. A total of 233 new training materials have been compiled, most of which has been put into use, some others will be introduced in 2013
6. Capacity of rural-based technical and vocational training strengthened	<ul style="list-style-type: none"> Average usage of school and laboratory equipment in the schools selected under the Project increased substantially Average of about 90% of the graduates of the targeted schools enter into full-time employment 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<p>Assumptions</p> <ul style="list-style-type: none"> Adequate financial resources provided for operation and maintenance of upgraded equipment and facilities 	<ul style="list-style-type: none"> There were 16,020 teaching staff and researchers have used equipment to improve their skills in teaching and practicing laboratory tests for training per year, the number of students who can practice with project equipment is 430,730 students/year. Average percentage of students in 10 schools who find a job in 6 months - 1 year after graduation has increased from 75.3% in 2009 (one year after the equipment funded the project is put into operation) to 77, 0% in 2011

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
Activities with Milestones 1.1 Provision of laboratory facilities and equipment for research 1.2 Provision of training programs for staff and researchers of research institutes 1.3 Provision of the agricultural research fund 2.1 Establishment of formal linkages between farmer groups, extension service providers, and research institutes 2.2. Provision of training facilities and equipment for provinces and districts		Procurement commenced by December 2007 Training programs to be initiated by December 2007 Establishment of the fund by December 2007 Issuance of circulars by June 2007 Procurement commenced by September 2007	Inputs • ADB \$30.0 million • Government \$10.0 million	• Total of 13 research institutes (10 project institutes) were funded for upgrading facilities and equipment • 52 packages were awarded to 13 Institutes with total fund of 145,061 bil. VND • Procurement completed • 54 training courses were conducted for 1673 research/management staff as well as lab undertakers (47.1% of females) from 17 institutes and 16 centers under project/non-project institutes • Training programs completed • Totally, 125 researches have been selected with a total budget of 92.12 billion VND • The fund for 125 research programs disbursed • The Government of Vietnam has issued the Decree 2/2010/ND-CP, dated Jan, 8 th 2010 about Agriculture Extension in that effective linkages between research and extension was strongly emphasized in Clause No. 3 • 79 district extension stations have been provided training facilities and with total budget of 5,551.216 bil. VND. The budget for purchasing of training facilities of provincial AE centers of 5 project provinces is 789.524 mil. VND. • Procurement completed

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks	Achievements/Progress As of 30 April 2013
2.3 Development of national and provincial extension contract systems with local service providers		Systems developed by December 2007		<ul style="list-style-type: none"> The Government of Vietnam has issued the Decree 2/2010/NĐ-CP, dated Jan, 8th 2010 about Agriculture Extension in that national and provincial extension contract systems with local service providers was mentioned in clause No 7 There were 615 extension contracts were signed with local service providers 71 packages were awarded with 14 of civil works and 76 of equipment under awarded fund of VND 179.016 billions (VND 33.12 billion for civil works, VND 145.895 billion for equipment); Procurement completed
3.1 Provision of school facilities and equipment		Procurement commenced by December 2007		
3.2 Revision of school curriculum guidelines		Revisions to be completed by December 2008		<ul style="list-style-type: none"> Revision of school curriculum guidelines completed by October, 2008 MARD has issued the Decision No 3948/QĐ-BNN-TCCB date Dec. 10th, 2008 (phase 1) and the Decision No 5188/BNN-TCCB date Sep. 23th, 2010 to allow project schools to develop curriculum and programs using project budget.

APPENDIX 4: PROCUREMENT/PAYMENT STATUS OF PACKAGES OF RESEARCH INSTITUTES

(As of 30 April 2013)

INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE ('000 VND)	PHYSICAL STATUS	FINANCIAL STATUS	ACTIONS TO BE TAKEN
I. CIVIL WORKS					
II. PROCUREMENT OF GOODS					
No civil work packages in 10 project institutes					
1	Northern Mountainous Agriculture and Forestry Science Institute	<ul style="list-style-type: none"> Package 01 • 8,973,900 Package 02 • 4,930,100 Package 03 • 3,636,000 Package 04 • 506,000 Package 05 • 664,400 Package 06 • 252,000 	<ul style="list-style-type: none"> Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB 	
2	Plant Protection Research Institute	<ul style="list-style-type: none"> Package 01 • 2,990,000 Package 02 • 3,831,188 Package 03 • 2,332,500 Package 04 • 4,483,815 Package 05 • 1,990,680 	<ul style="list-style-type: none"> Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. ADB approved BER on 10 Apr 2013 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB (part of liquidation, WA 204) 	Delivery and payment are expected in May 2013.
3	Soils and Fertilizer Research Institute	<ul style="list-style-type: none"> Package 01 • 5,280,600 Package 02 • 2,979,145 Package 03 • 2,506,218 Package 04 • 543,575 Package 05 • 3,512,165 	<ul style="list-style-type: none"> Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used. 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB 	

INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE ('000 VND)	PHYSICAL STATUS	FINANCIAL STATUS	ACTIONS TO BE TAKEN
	<ul style="list-style-type: none"> Package 06 Package 07 Package 08 Package 09 	<ul style="list-style-type: none"> 2,996,000 1,975,985 1,962,960 1,183,000 	<ul style="list-style-type: none"> Completed installation Completed installation ADB approved award on 11 Jan 2013 ADB approved award on 27 Mar 2013 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB (part of liquidation, WA 204) Advance payment part of liquidation, WA 204 	<ul style="list-style-type: none"> Final Payment expected in May 2013 Final Payment expected in May 2013
4	Food Crop Research Institute	<ul style="list-style-type: none"> Package 01 Package 02 Package 07 	<ul style="list-style-type: none"> 6,281,978 1,127,000 2,518,109 	<ul style="list-style-type: none"> Delivered, installed, and being used Delivered, installed, and being used. Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB
5	Forestry Science Institute of Vietnam	<ul style="list-style-type: none"> Package 01 Package 02 Package 03 Package 08 Package 09 	<ul style="list-style-type: none"> 2,979,668 3,299,868 750,590 2,979,050 Additional package (shopping). 	<ul style="list-style-type: none"> Delivered, installed, and being used. Delivered, installed, and being used Delivered, installed, and being used Delivered, installed, and being used BEER submitted to ADB on 18 Apr 2013 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB
6	Institute of Policy and Strategy for Agriculture and Rural Development.	<ul style="list-style-type: none"> Package 1A Package 1B Package 02 Package 03 	<ul style="list-style-type: none"> 3,717,813 1,045,582 2,355,120 2,995,175 	<ul style="list-style-type: none"> Delivered, installed, and being used. Delivered, installed, and being used. Delivered, installed, and being used Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB (part of liquidation, WA 204) Fully paid by ADB Fully paid by ADB Fully paid by ADB
					FSIV will revise the BEER to clearly show that lowest bid was declared non-responsive due to the absence of a manufacturer's authorization.

	INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE ('000 VND)	PHYSICAL STATUS	FINANCIAL STATUS	ACTIONS TO BE TAKEN
		<ul style="list-style-type: none"> Package 04 	<ul style="list-style-type: none"> 2,698,773 	<ul style="list-style-type: none"> Delivered, installed, and being used 	<ul style="list-style-type: none"> L1 – Fully paid by ADB. L2 – Fully paid by ADB (part of liquidation, WA 204) 	
7	Southern Fruit Research Institute	<ul style="list-style-type: none"> Package 01 Package 02 Package 03 	<ul style="list-style-type: none"> 2,827,854 2,350,623 1,765,318 	<ul style="list-style-type: none"> Delivered, installed, and being used Delivered, installed, and being used Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB 	
8	Cuu Long Delta Rice Research Institute	<ul style="list-style-type: none"> Package 01 Package 02 Package 03 Package 04 Package 05 Package 06 	<ul style="list-style-type: none"> 2,198,513 4,199,195 3,264,381 3,027,837 917,750 2,970,000 	<ul style="list-style-type: none"> Delivered, installed, and being used Delivered, installed, and being used Delivered, installed, and being used Delivered, installed, and being used Completed, installed, and being used Completed, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB Fully paid by ADB (part of liquidation, WA 204) 	
9	Institute of Agricultural Science of Southern Vietnam	<ul style="list-style-type: none"> Package 01 Package 02 Package 03 Package 04 	<ul style="list-style-type: none"> 617,304 1,564,700 4,182,836 1,287,342 	<ul style="list-style-type: none"> Delivered, installed, and being used* Delivered, installed, and being used* Delivered, installed, and being used Delivered 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB Advance payment included in WA 199 	<ul style="list-style-type: none"> Final payment expected in May 2013.
10	Western Highland Agro-Forestry Science and Technology Institute	<ul style="list-style-type: none"> Package 01 Package 02 Package 03 	<ul style="list-style-type: none"> 1,569,333 3,108,668 593,500 	<ul style="list-style-type: none"> Delivered, installed, and being used Delivered, installed, and being used Completed installation 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB Fully paid by ADB 	

	INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE ('000 VND)	PHYSICAL STATUS	FINANCIAL STATUS	ACTIONS TO BE TAKEN
11	Institute for Agricultural Environment	<ul style="list-style-type: none"> Package 11 Package 23 	<ul style="list-style-type: none"> 6,911,464 2,996,631 	<ul style="list-style-type: none"> Delivered, installed, and being used Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB 	
12	Northern Agricultural Science Institute	<ul style="list-style-type: none"> Package 16 	<ul style="list-style-type: none"> 6,943,600 	<ul style="list-style-type: none"> Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid by ADB 	
13	Agricultural Science Institute of South Central Coast of Vietnam (ASISOV)	<ul style="list-style-type: none"> Package 24 	<ul style="list-style-type: none"> 5,996,000 	<ul style="list-style-type: none"> Delivered, installed, and being used 	<ul style="list-style-type: none"> Fully paid, part of liquidation (WA 204) 	

Total of 52 packages
One package remaining to be awarded

APPENDIX 5: PROCUREMENT/PAYMENT STATUS OF PACKAGE OF SCHOOLS

(As of 30 April 2013)

No	Schools	Bidding Package No.	Package value (VND'000)	Physical Status	Financial Status	Expected Actions to be Taken
I	CIVIL WORKS					
1	Hanoi Technology and Economics college (Soc Son - Hanoi)	<ul style="list-style-type: none"> Package 03 Package 18 	<ul style="list-style-type: none"> 2,950,939 1,928,540 	<ul style="list-style-type: none"> Completed In progress 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB 	
2	Northern Agricultural and Rural Development College (Xuan Mai - Hanoi)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 3,543,031 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Fully paid by ADB 	
3	Central college of economics and water resources (Hoi An) – Quang Nam	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 1,910,527 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Fully paid by ADB 	
4	Southern college for mechanics, Agricultural technique and rural development (Can Tho)	<ul style="list-style-type: none"> Package 03 Package 20 	<ul style="list-style-type: none"> 1,297,000 1,859,278 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB 	
5	Northern water resources college (Ha Nam)	<ul style="list-style-type: none"> Package 03 Package 17 	<ul style="list-style-type: none"> 1,875,268 3,332,810 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB 	
6	Danang food college	<ul style="list-style-type: none"> Package 03 Package 13 	<ul style="list-style-type: none"> 2,448,692 1,667,065 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Fully paid by ADB Fully paid by ADB 	
7	Southern Agricultural College (Tien Giang)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 237,900 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Fully paid by ADB 	
8	Bao Loc College of technology and economics (Lam Dong)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 6,659,902 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Fully paid by ADB 	

No	Schools	Bidding Package No.	Package value (VND'000)	Physical Status	Financial Status	Expected Actions to be Taken
9	Ho Chi Minh City Secondary Food Technology School	• Package 03	• 2,042,555	• Completed	• Fully paid by ADB.	
10	Hai Phong Secondary Technical school for Food and Foodstuff Mangement	• Package 03	• 1,529,820	• Completed	• Fully paid by ADB	
II EQUIPMENT						
1	Hanoi Technology and Economics college (Soc Son - Hanoi)	• Package 04 • Package 05 • Package 19	• 5,658,950 • 2,151,930 • 984,368	• Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	
2	Northern Agricultural and Rural Development College (Xuan Mai - Hanoi)	• Package 04 • Package 05 • Package 06 • Package 14 • Package 15	• 3,155,442 • 5,790,825 • 2,301,616 • 2,604,100 • 1,392,690	• Completed • Completed • Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB (included in liquidation, W/A 204)	
3	Central Region College of Economics and Water Resources (Hoi An) – Quang Nam	• Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 09 • Package 10	• 1,734,546 • 2,669,769 • 572,357 • 631,900 • 2,079,000 • 1,665,100 • 2,288,000	• Completed • Completed • Completed • Completed • Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	
4	Southern college for mechanics, Agricultural technique and rural development (Can Tho)	• Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 21	• 1,037,121 • 2,719,505 • 2,763,750 • 2,044,500 • 2,680,000 • 3,080,739	• Completed • Completed • Completed • Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	

No	Schools	Bidding Package No.	Package value (VND'000)	Physical Status	Financial Status	Expected Actions to be Taken
		• Package 22	• 3,400,259	• ADB approved BER on 15 Oct 12	• Advance payment included in WA 201	• Final payment is expected in May 2013.
5	Northern Water Resources College (Ha Nam)	• Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 09	• 2,799,650 • 4,549,815 • 1,935,752 • 135,590 • 1,990,800 • 1,598,800	• Completed • Completed • Completed • Completed • Completed • ADB approved BER on 8 Apr 2013, awarded.	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	• Final payment is expected in May 2013.
		• Package 18 • Package 19	• 1,803,890 • 1,116,000	• Completed • Completed	• Fully paid by ADB • Fully paid by ADB	
6	College of Food Industry (Danang food college)	• Package 04 • Package 05 • Package 06 • Package 16 • Package 17	• 3,757,677 • 9,121,480 • 3,103,361 • 1,295,000 • 511,970	• Completed • Completed • Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	
7	Southern Agricultural and Rural Development college (Tien Giang) - SAC	• Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 09 • Package 10 • Package 11	• 4,060,320 • 3,931,581 • 3,018,914 • 1,422,382 • 789,232 • 985,000 • 3,380,065 • 2,999,000	• Completed • Completed • Completed • Completed • Completed • Completed • Completed • ADB approved award on 5 Dec 12	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Advance payment included in liquidation (WA 204)	• Final payment is expected in May 2103.
8	Bao Loc Collge of Technology and Economics	• Package 04 • Package 05 • Package 06 • Package 07	• 1,639,662 • 2,074,800 • 2,309,999 • 3,960,000	• Completed • Completed • Completed • Completed	• Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB	

No	Schools	Bidding Package No.	Package value (VND'000)	Physical Status	Financial Status	Expected Actions to be Taken
		<ul style="list-style-type: none"> • Package 08 • Package 09 	<ul style="list-style-type: none"> • 1,710,000 • 2,364,998 	<ul style="list-style-type: none"> • Completed • Completed 	<ul style="list-style-type: none"> • Fully paid by ADB • Fully paid by ADB 	
9	Ho Chi Minh City Secondary Food Technology School	<ul style="list-style-type: none"> • Package 04 • Package 05 • Package 06 • Package 07 • Package 15 	<ul style="list-style-type: none"> • 437,957 • 2,134,000 • 1,234,970 • 4,954,620 • 2,668,600 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB 	
10	Hai Phong Secondary Technical school for Food and Foodstuff Mangement	<ul style="list-style-type: none"> • Package 4 • Package 5 • Package 14 	<ul style="list-style-type: none"> • 4,762,241 • 3,725,590 • 4,214,465 	<ul style="list-style-type: none"> • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Fully paid by ADB • Fully paid by ADB • Fully paid by ADB 	

Total of 14 civil works packages
Total of 57 equipment packages

APPENDIX 6: PROCUREMENT OF CIVIL WORKS, GOODS, AND SERVICES
AS OF 30 April 2013
(\$ '000)

Component	Items	Adwarded (ADB + GoV)	Disbursement to date (ADB + GoV)	Percentage Achieved(%)
I	Client-oriented Agricultural Research and Capacity Strengthening	18,118	17,922	
1	Equipment	6,924	6,848	0.99
2	Training	6,072	6,072	1.00
3	Extension contracts	5,122	5,002	0.98
II	Grassroots Agricultural Extension Improvement	9,076	8,969	
1	Equipment	2,152	2,045	0.95
3	Training	2,344	2,344	1.00
3	Extension contracts	4,580	4,580	1.00
III	Rural-based Technical and Vocational Training	9,608	9,473	
1	Civil works	1,870	1,866	1.00
2	Equipment	7,240	7,109	0.98
3	Training	498	498	1.00
IV	Project Management	2,225	2,123	
	Office equipment in CPMU	38	38	1.00
	Vehicles	42	42	1.00
	Consulting Services	1,144	1,042	0.91
	Routine costs	1,001	1,001	1.00
	Total	39,027	38,487	0.99

Appendix 7: Status of Consulting Services from September 2008 to 30 April 2013

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance		Remarks
					Person -month	%	Person -month	Person -month	
International Consultants									
1	Dr Michael John Blyth	Team Leader and International Agricultural Research Management Specialist	16	477	15.9	99%	0.1		Completed final input on 18/12/2011
2	Nick Shirra	International Agricultural Extension Management Specialist	5	50	1.67	33%	3.33		Consultant resigned budget used for additional national consultant inputs in 2011
3	Dr. Micheal Thair	International Agricultural Vocational Training Specialist	1	4	0.13	13%	0.87		Position ceased and budget allocated to consultants' travel and translation
4	Evelyn Buenaventura (Ms)	International Social Development Specialist	2	58	1.93	97%	0.07		Completed 12/2008
5	Dr John Wicks	International Impact Assessment Specialist	2	60	2	100%	0		Replacement consultant; first input 4/10-13/11/2011; Completed final input on 21/01/2012
6	Myrna J. Hernandez (Ms.)	International Financial Management Specialist	1	28	0.93	93%	0.07		Completed 12/2008
7	Dr Wang Dehai	International Monitoring and Evaluation Specialist	2	60	2	100%	0		Completed 19/5/2010
	Total international consultants		29	737	24.57	85%	4.43		

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance	Remarks
					Person -month	%		
National Consultants								
8	Nguyen Thi Lan (Ms)	Deputy Team Leader and National Agricultural Research Management Specialist	41.8	920	41.8	100%	0.0	Completed 12/2012
9	Dr Nguyen The Con	National Agricultural Extension Management Specialist	22	485	22	100%	0	Completed 12/2010
10	Dr Vuong Thanh Huong Dr Nguyen The Con	National Agricultural Vocational Training Specialist	13	286	13	100%	0	Completed 12/2012
11	Nguyen Thi Huong Tra (Ms)	National Social Development Specialist	6	92	4.18	70%	1.82	Stop May 2010 without replacement
12	Dr Nguyen Thi Loan	National Environmental Assessment Specialist	11	242	11	100%	0	Completed 12/2012
13	Ha Thi Cam	National Financial Management Specialist	8	176.5	8	100%	0	Completed 10/2011
14	Dr Nguyen Tu Siem	National Monitoring and Evaluation Specialist	4	88	4	100%	0	Completed 19/4/2010
15	Dao Van Khang	National Extension Communication Evaluation Specialist	2	44	2	100%	0	Completed 27/7/2010
16	Trinh Van Tien	National Value Chain Development Specialist	6	132	6.0	100%	0.0	Completed 12/2012
17	Do Thi Dung	National E-library Action Plan Development Specialist	4.5	99	4.5	100%	0.0	Completed 12/2012
18	Tran Thi Phuong Dung	National Communication Specialist	11	242	11	100%	0	Completed 10/2012
19	Dr Tran Thi Thu Ha	National Team Leader/ Baseline Survey and Project Evaluation Specialist	3	72	3.3	110%	0	Completed 15/3/2011

No.	Name	Position	Contracted (person-months)	Utilized (days)	Utilized		Balance		Remarks
					Person-month	%	Person-month	Person-month	
20	Hoang Anh Tuan	National Researcher for Baseline and Project Evaluation Consultancy	2	44	2	100%	0	0	Completed 20/03/2011
21	Nguyen Van Chien	National Effectiveness Assessment Specialist on using equipment	5	110	5	100%	0	0	Completed 30/3/2012
22	Dr Tran Thi Thu Ha	National Project Evaluation Specialist	6.5	143	6.5	100%	0	0	Completed 3/2013
23	Hoang Anh Tuan	National Impact Assessment Specialist	3	66	3	100%	0	0	Completed 20/01/2012
	Total national consultants		148.8	3241.5	147.3	99%	1.8		
	Total all consultants		177.8	3978.5	171.9	97%	6.2		
Consultants contracted with CPMU and PPMU									
21	Nguyen Van Chien	Coordinator	24	528	24	100%	0	0	Completed
22	Nguyen Van Hien	Training Specialist	24	528	24	100%	0	0	Completed
23	Tran Van Cuong	Extension Specialist	24	528	24	100%	0	0	Completed
24	Nguyen Dinh Nhu	Extension Specialist	36	729	33	75%	3	3	Resigned from 9/2011
25	Ngo Van Dong	Extension Specialist	36	751	36	100%	0	0	
26	Nguyen Phuong Nghi	Extension Specialist	36	751	36	100%	0	0	
27	Nguyen Dung Tien	Extension Specialist	24	528	6	25,00%	18	18	Withdrew
			204	4532	183	89,7%	21		

Note: Number of working days for international consultants is 30 days/month
Number of working days for national consultants is 22 days/month

Appendix 8: Reports and other outputs produced by Project consultants from September 2008 up to 30 April 2013

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	Báo cáo tiến độ Dự án						
1.	Monthly reports from September 2008 to March 2012	All	5 th -15 th day of following month	51	10-15	E, V	Final
2.	1 st Quarter reports from 2009-2011	All	10 th -15 th day of the next quarter	4	20-25	E, V	Final
3.	2 nd Quarter reports from 2009- 2011	All	10 th -15 th day of the next quarter	4	23-25	E, V	Final
4.	3 rd Quarter reports from 2009-2011	All	10 th -15 th day of the next quarter	4	20-25	E, V	Final
5.	4 th Quarter reports from 2008-2010	All	10 th -15 th day of the next quarter	5	20-21	E, V	Final
6.	Annual reports (from 2008-2011)	All	10 th -15 th day of January of the next year	5	35-40	E, V	Final
	Major Progress Reports						
7.	Stock-take report for ADB October 2008 Loan Review Mission	All	25/11/2008	1		E	Final
8.	Inception Report	All	3/3/2009	1	108	E, V	Final
9.	2008 AST Project Implementation Status Update to March 2009	All	11/03/2009	1	10	E	Final
10.	Review of progress by consultants to AST Project against findings and recommendations of ADB Loan review Mission 20-27 Oct-2008	All	15/03/2009	1	7	E	Final
11.	Report of project implementation status from January 2009 to 30 September 2009 for ADB Loan Review Mission Oct-2009	All	30/09/2009	1	33	E,V	Final
12.	Mid-Term Review Report	All	30/04/2010	1	80	E,V	Final
13.	Action Plan to address recommendations and actions of the ADB Aide Memoire 5-13 May 2010	All	1/06/2010	1	28	E,V	Final
14.	Progress against major issues and agreed actions from May 2010 Aide Memoire at 30-Nov 2010	All	7/12/2010	1	6	E,V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
15.	Report on Project progress April 2011	All	18/04/2011	1		E, V	Final
16.	Update on DMF for ADB Review Mission, April 2011	All	20/04/2011	1	28	E, V	Final
17.	Action plan to address recommendations of ADB Aide Memoire 21-28 April 2011	All	10/05/2011	1	12	E, V	Final
18.	Appendix to Project progress report for ADB Review Mission, from 1st- 8th Dec 2011, Dec 2011	All	1/12/2011	1	30	E, V	Final
19.	Appendix of AM and Project implementation status from 6-14 April 2012 for ADB Review Mission, April 2012	All	5/4/2012	1	30	E, V	Final
20.	Appendix of AM and Project implementation status from 28 August to 6 September 2012 for ADB Review Mission, September 2012	All	28/8/2012	1	31	E, V	Final
	Periodic and Completion reports of individual consultants						
21.	International Financial Management Specialist's Report	Financial management	10/12/2008	1	27	E, V	Final
22.	International Social Development Specialist's Report	Social development	23/12/2008	1	56	E, V	Final
23.	International Agricultural Vocational Training Specialist's Report	3	25/12/2008	1	7	E, V	Final
24.	International Agricultural Extension Management Specialist's Report	2	25/02/2009	1	44	E, V	Final
25.	National Agricultural Vocational Training Specialist's Report	3	30/12/2012	1	7	EV	Final
26.	National Agricultural Extension Management Specialist's Report	2	10/2011	1		V	Final
27.	International M&E Specialist's Report	M&E	18/05/2010	1	7	E, V	Final
28.	National Financial Management Specialist's Report	Financial Management		1			Final
29.	National Research Management Specialist's Report	1	31/12/2012	1	6	EV	Final
30.	National Assessment and Completion Report Preparation's Specialist's	All	20/12/2012	1	3	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	Report						
31.	National Assessment and Baseline Survey Specialist's Report	All	20/12/2012	2	5	E, V	Final
32.	National Project Impact Assessment Specialist's Report	All	20/12/2012	1	5	E, V	Final
33.	National E-Library Development Specialist's Report	3	30/12/2012	1	5	E, V	Final
34.	National Environment Assessment Specialist's Report	All	20/12/2012	1	7	E, V	Final
35.	National Value Chain Specialist's Report	2	20/12/2012	1	7	E, V	Final
36.	National Specialist's Assessment Report on effectiveness of using equipments	1 and 3	20/12/2012	1	7	E, V	Final
37.	National Social Development Specialist's Report	All	20/12/2012	1	7	E, V	Final
38.	International Research Management Specialist and Team Leader's Report			1			Final
	Reports on Component 1 activities						Final
39.	Report on workshop: Training of research staff (Sub-component 1.2) – comments by TL on proposed training program and training methods – for PCMU & VAAS	1	15/11/2008	1	7	E	Final
40.	Report on training course monitoring of courses presented 24 November to 27 December 2008	1	10/01/2009	1	4	E, V	Final
41.	Contract format for client-oriented research projects. Comments from AST Consultants' Team Leader	1	21/05/2009	1	2	E	Final
42.	Management and Evaluation Regulations for Research Projects	1	20/05/2009	1	26	E, V	Final
43.	PRA Manual – training material	1	10/06/2009	1	23	V	Final
44.	Project Management and focal issues for research project leaders and institute managers – training material	1	13/06/2009	1	13	E, V	Final
45.	Progress Report on monitoring and supporting training courses	1	6/07/2009	1	12	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
46.	Agricultural Research Management Specialist's field trip report in southern region	1	27/07/2009	1	8	V	Final
47.	Report on meeting with Director and staff of Plant Protection Research Institute re organic and safe vegetable production (to CPMU Project Director and ADB Project Officer)	1	5/11/2009	1	5	E	Final
48.	Research Priorities Framework presentation to training course	1	6/11/2009	1	15	E, V	Final
49.	Agricultural Research Management Specialist's field trip reports and minutes on Research project monitoring	1	15/12/2009	6	5	V	Final
50.	Formats for writing evaluation report on the efficiency of research projects	1	12/06/2010	1	5	E	Final
51.	Effectiveness Evaluation Report of Research Projects	1	10/09/2010	1	38	E, V	Final
52.	Environmental assessment report of laboratory by Environmental Assessment Specialist	1	25/01/2011	1	66	E, V	Final
53.	Environmental assessment report on research projects batch 1	1	27/01/2011	1	10	V	Final
54.	Evaluation of short-term training courses provided to staff of Research Institutes 2008-2010 (post-course evaluation)	1	09/2011	1	33	EV	Final
55.	Criteria and indicators for selecting client-oriented agricultural research projects for extension demonstrations and Format for proposal (DST & CPMU)	1	6/06/2011	2	2 và 4	EV	Final
56.	Overseas study program: Post-training evaluation proposal and evaluation form	1	27/06/2011	1	5	E, V	Final
57.	Guidelines on finalization/liquidation for research projects		10/07/2011	1	45	V	Final
58.	Climate Change in Viet Nam:	1	31/10/2011	1	54	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	Opportunities for Research –training course material						
59.	Report on training need demand identification of Institutes	1	30/11/2012	1	18	E,V	Final
60.	Synthesis results of the 125 research projects	1	25/11/2012	1	20	V	Final
61.	Mini-story about research projects circuit tree, longan research project, mulberry and soybean	1	6/2011	4	4	E,V	Final
	Reports on Component 2 activities						
62.	PAEM Material	2	15/03/2009	1	45	V	Final
63.	Indigenous Knowledge and Manual for Surveying Indigenous Knowledge	2	20/04/2009	1	20	V	Final
64.	FFS Methodology for Some Plants – training material	2	05/2009	1	45	V	Final
65.	Planting Techniques (maize, rice, soy beans) – training material	2	07/2009	1	26	V	Final
66.	Field trip Report by National Environmental Assessment Specialist, Ninh Thuan	2	24/12/2009	1	6	V	Final
67.	Field trip report by National Social Development Specialist to Ninh Thuan	2	24/12/2009	1	6	V	Final
68.	Field trip report by International Agricultural Extension Management Specialist – Quang Nam and Ninh Thuan 10-17 December 2009	2	24/12/2009	1	14	E, V	Final
69.	Field trip report: Dak Nong PPMU and Western Highlands Agroforestry Science and Technology Institute, Dak Lak 26-28 April 2009	1 & 2	19/05/2010	1	25	E,V	Final
70.	Agriculture Science and Technology project helps women in Vietnam's central provinces to improve household incomes (short story)	2	10/06/2010	1	4	E,V	Final
71.	Effectiveness Evaluation Report of AE Demonstration Models	2	15/07/2010	1	34	E, V	Final
72.	Outline of proposed presentation to IFAD Portfolio Performance Workshop	2	14/10/2010	1	1	E	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	on output-based extension contracts						
73.	Report on assessment of agricultural extension service providers (Sub-component 2.2)	2	3/12/2010	1	36	E, V	Final
74.	Field trip report of the Value Chain Development Specialist	2	20/01/2011	1	7	V	Final
75.	Questionnaires to survey indigenous knowledge and technologies	2	20/03/2011	1	10	V	Final
76.	Field trip report to Nghe An by Agricultural Research Management and Extension Specialist	2	5/06/2011	1	5	V	Final
77.	Field trip report to Thanh Hoa by Agricultural Research Management and Extension Specialist	2	20/07/2011	1	6	V	Final
78.	Training material on FFS training organization	2	12/10/2011	1	30	V	Final
79.	Synthesis survey report on findings and knowledge of native products in 5 provinces	2	24/12/2012	1	67	V	Final
80.	Final evaluation report on extension information and media	2	10/2010	1	110	V (E)	Final
81.	Report on application of teletext technologies on information dissemination to farmers	2	10/12/2012	1	31	V (E)	Final
82.	Three mini-stories on sow breeding, reproductive chickens and project management model in Nam Thai district	2		3	5	E, V	Final
	Reports on Component 3 activities						Final
83.	Presentations to Curriculum Revisions Workshop, 20-22 October 2008	3	10/2008	1	10	V	Final
84.	Report on meeting in Bac Bo College of Agriculture and Rural Development, Xuan Mai 7/11/2008	3	08/11/2008	1	3	E, V	Final
85.	Advise and assist CPMU prepare a letter to ADB to replace curriculum guide development with curricula revisions on 11 topics	3	05/01/2009	1	3	E	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
86.	Proposal for strengthening school-industry partnerships (to CPMU)	3	24/03/2009	1	2	E	Final
87.	Workshop discussion minute on training needs identification of 10 Schools under AST Project, 13-14 May 2009	3	19/05/2009	1	2	V,E	Final
88.	Effective training outcomes: The Training Evaluation Model – presentation to teachers and administrators, Ninh Thuan 13 May 2009	3	12/05/2009	1	25	E,V	Final
89.	Training needs assessment of 10 AST Project schools and colleges – presentation to teachers and administrators at Ninh Thuan 13 May 2009	3	12/05/2009	1	18	E,V	Final
90.	Monitoring Report on training of Sub-component 3.1	3	08/2009	1	20	V	Final
91.	Proposal on estimated costs for curriculum and training material development in schools of the AST Project	3	27/10/2009	1	4	E,V	Final
92.	Evaluation report on training courses conducted during 2008-2009	3	12/2009	1	18	V	Final
93.	Building evaluation indicators of sub-component 3.1	3	2009	1	2	EV	Final
94.	Review report on progress of Curriculum development and revision of training materials (the 1 st period)	3	20/8/2010	1	5	EV	Final
95.	Report on strengthening school-industry partnerships	3	20/8/2010	1	5	V	Final
96.	Evaluation report on effectiveness of sub-component 3.1	3	22/9/2010	1	3	V	Final
97.	Field trip report – monitoring training course on curriculum development for teachers from Soc Son and Do Son Schools, Hai Phong 10-11 Nov 2010	3	8/12/2010	1	4	E,V	Final
98.	Gender balance in capacity building	3	29/05/2011	1	4	E,V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	activities conducted under Component 3 of the AST Project						
99.	Report on e-library development in 10 schools	3	2011	1		E, V	Final
100.	Report on curriculum quality assessment and training material improvement	3	1/2013	1			
	Reports on Component 4 activities						
101.	Preparations for AST Project Mid-Term Review: Action Plan	All	4/12/2009 23/12/2009	1	7	E, V	Final
102.	Terms of reference for studies recommended during Mid-term Review – e-library action plan development; mini-impact cost-benefit of extension study; Evaluation of agricultural extension service providers	3,2	29/07/2010	1	12	E	Final
103.	Estimating the financial impact of equipment acquired under the AST project for schools and research institutes	1 & 3	12/05/2011	1	3	E	
104.	ADB Gender and Development Cooperation Fund Proposal		19/05/2011	1	11	E	Final
105.	Action plan on environmental and social safeguards and Gender Equality	All	17/06/2011	1	16	E, V	Final
106.	Project Financial Management Guideline Manual	All	30/10/2011	1	40	V	Final
107.	Field trip report of the financial management specialist	All	15/01/2011	1	5	V	Final
	Reports on other major activities	All					Final
108.	Monitoring and Evaluation of Training. Guidelines and procedures for monitoring and evaluation of AST project training programs and courses	All	12/07/2009	1	31	E, V	Final
109.	AST Project Baseline and Evaluation Report	All	14/02/2011 05/2011	1	28	E, V	Final
110.	Inception report: Evaluation and proposal to strengthen agricultural extension information and	2	04/2010	1	29	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	communication under Agricultural Science and technology Project						
111.	Final Report on Evaluation of extension information and communication	All	17/12/2011	1	72	E,V	Final
112.	Five short stories on effectiveness of AE demonstration models and research projects	All	3 /4/2013	1	82	E,V	Final
113.	Short stories on impact of mulberry and soya-bean research projects	All	4/10/2012	1	66	E,V	Final
114.	Draft completion report of the consultants	1 & 3	15/5/2012	1	20	E,V	Final
115.	Draft project completion report						
	Reports and supporting material related to M&E						
116.	M&E Formats for Institutes, Schools & Provinces	All	26/02/2009	1	12	E, V	Final
117.	M&E Tables	All	27/02/2009	1	70	V	Final
118.	Format and procedures for quarterly reporting. Draft report to CPMU	All	10/04/2009	1	26	E	Cuối cùng
119.	Monitoring and Evaluation Framework and Indicators – Comments and recommendations on the Project Performance Management System	All	15/04/2009	1	13	E	Cuối cùng
120.	Monitoring and evaluation on training activities. Guidelines and procedures on monitoring and evaluation of training courses under AST – training material	All	12/07/2009	1	33	E, V	Cuối cùng (
121.	M&E framework for agricultural extension projects - training material	1	6/07/2009	1	26	V	Cuối cùng
122.	M&E Framework for AST project	1	11/09/2009	1	15	E, V	Cuối cùng
123.	Reporting Format for Institutes, Schools & Provinces	All	10/09/2009	3	9	E, V	Cuối cùng
124.	Presentation of IM&ES work and M&E implementation of AST Project (to CPMU)	All	14/05/2010	1	24	E,V	Cuối cùng

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
125.	Field Trip report of International M&E specialist to Da Nang and Quang Nam, 14-17 April 2010	2 & 3	18/05/2010	1	12	E, V	Cuối cùng
126.	Field trip report of IM&E Specialist to Nghe An and Ha Tinh 27-29 April 2010	2 & 1	18/05/2010	1	12	E, V	Cuối cùng
127.	Training manual for M&E for AST Project ¹	All	18/05/2010	1	31	E, V	Cuối cùng
128.	Training manual on M&E for AST Project Annexes	All	18/05/2010	1	133	E	Cuối cùng
129.	Contribution to finalization of the Design and Monitoring Framework	1	23/05/2011	1	19	E, V	Cuối cùng
130.	Training material on M&E	2	30/06/2011	1	25	V	Cuối cùng
131.	Report of progress against DMF for M&E training in Nghe An	2	30/06/2011	1	30	V	Cuối cùng
132.	Training material on M&E for presentation at Nghe An 26-27 August 2008	2	20/08/2011	1	30	V	Cuối cùng

¹ This manual was not submitted to CPMU, but the contents were used by consultants in subsequent training material.

APPENDIX 9: SUMMARY OF PROJECT EXPENDITURE

(USD)

To 30/4/2013

Item	Total project fund			2007			2008		
	ADB	unpart fi	Total	ADB	unpart fi	Total	ADB	CPVN	Tổng
A Investment cost									
Civil works	1,093,127	364,376	1,457,503						
Equipment	13,060,578	4,353,526	17,414,104				386,997	128,999	515,996
Vehicle	21,441	21,441	42,882				20,081	20,081	40,162
Material									
Training	6,300,758	1,777,137	8,077,895				907,920	256,080	1,164,000
Research and Extension	7,223,798	2,037,481	9,261,279				1,273,740	359,260	1,633,000
Consulting services	1,784,605	-	1,784,605				9,000	-	9,000
B Regular expenditure									
Staff's salary	-	728,000	728,000			42,000		117,000	117,000
Other costs	918,354	306,118	1,224,472	16,500	5,500	22,000	132,000	44,000	176,000
C	640,083		640,083						
Total	31,042,744	9,588,079	40,630,823	16,500	47,500	64,000	2,729,738	925,420	3,655,158

Item	2009*			2010 + 30/4/2013			Total expenditure to date		
	ADB	unpart fi	Total	ADB	unpart fi	Total	ADB	unpart fi	Total
A Investment cost									
Civil works				1,399,500	466,500	1,866,000	1,399,500	466,500	1,866,000
Equipment	336,000	112,000	448,000	11,306,920	3,768,973	15,075,893	12,029,917	4,009,972	16,039,889
Vehicle	-	-		-	-	-	20,081	20,081	40,162
Material									
Training	469,560	132,440	602,000	5,575,440	1,572,560	7,148,000	6,952,920	1,961,080	8,914,000
Research and Extension	1,028,820	290,180	1,319,000	5,171,400	1,458,600	6,630,000	7,473,960	2,108,040	9,582,000
Consulting services	301,000	-	301,000	732,000		732,000	1,042,000		1,042,000
B Regular expenditure									
Staff's salary		121,000	121,000	-	470,000	470,000	-	750,000	750,000
Other costs	159,750	53,250	213,000	442,500	147,500	590,000	750,750	250,250	1,001,000
c							628,817		628,817
Total	2,295,130	708,870	3,004,000	24,627,760	7,884,133	32,511,893	30,297,945	9,565,923	39,863,868

Item	Balance	
	ADB	unpart fi
A Investment cost		
Civil works	(306,373)	(102,124)
Equipment	1,030,661	343,554
Vehicle	1,360	1,360
Material	-	-
Training	(652,162)	(183,943)
Research and Extension	(250,162)	(70,559)
Consulting services	742,605	-
B Regular expenditure		
Staff's salary	-	(22,000)
Other costs	167,604	55,868
C	11,266	-
Total	744,799	22,156

Loan 2283-VIE: Agriculture Science and Technology Project
Status of Loan Utilization
as of 30 April 2013

Cat. No.	Category	Allocation		Contracts	Disbursements	Uncommitted Loan Balance	Undisbursed Loan Balance
		SDR	USD Equiv				
01	Civil Works	700,000	1,093,219	1,400,609	1,400,518	-307,390	-307,299
02	Equipment	8,500,000	13,060,097	11,817,350	11,452,226	1,242,747	1,607,871
03	Vehicles	14,000	21,441	20,081	20,081	1,360	1,360
04	Materials	0	0	0	0	0	0
05	Training	4,100,000	6,300,515	5,486,826	5,486,825	813,689	813,690
06	Research/Extension Contracts	4,700,000	7,223,898	7,556,793	7,556,793	-332,895	-332,895
07	Consulting Services	1,169,000	1,784,383	1,149,858	1,042,124	634,525	742,259
08	Incremental Operating Costs	600,000	918,269	634,781	634,781	283,488	283,488
09	Interest Charge	415,000	640,079	0	628,817	640,079	11,262
10	Unallocated	0	0	0	0	0	0
99	Imprest Account	0	56,729	0	2,865,204	56,729	-2,808,475
	Total	20,198,000	31,098,630	28,066,298	31,087,369	3,032,332	11,261

Appendix 11: Status of Liquidation**As of 10 May 2013****In US\$**

Category	WA204	Last WA	Balance/refund
01 - Civil Works	3,677.08		3,677.08
02 - Equipment	695,791.45	350,000.000	1,045,791.45
05 - Training	305,052.82	340,000.000	645,052.82
06 - Research/Extension Contracts	419,471.09	281,000.000	700,471.09
07 - Consulting Services	22,567.95	144,230.769	166,798.72
08 - Incremental Operating Costs	38,983.40	264,429.450	303,412.85
Total	1,485,543.78	1,379,660.22	2,865,204.00

Outstanding Imprest Account

2,865,204.00

Balance Unaccounted For

(0.00)

APPENDIX 12: FINDINGS AND RECOMMENDATIONS IN AUDITED FINANCIAL STATEMENTS

Refer to 6 September 2012 email of ADB

Year	Findings and Recommendations	Actions Undertaken to Ensure Issues are Resolved
2010	Expenditures of some IPMUs exceeded the approved budget.	CPMU is reviewing and making the last advised budget
	No cashier's cash book prepared by the Ninh Thuan PPMU.	Ninh Thuan has already prepared cash book as advised by CPMU
	Technical parameters of equipment procures as shown on the bid documents, contracts, minutes of handover and certificate of inspection do not tally.	Most of the mis-matched technical parameters shown in documents, contracts, minutes are fixed. An ongoing review is being conducted for the remaining ones.
	Documents related to verification of extension contract results between PPMU and suppliers lack confirmed lists from households.	Required lists are being gathered by PPMU.
2011	Implementation of the approved budget (PPRI and Ninh Thuan PPMU have incurred expenditures which exceeded the approved budgets.	CPMU is reviewing and making the last advised budget which includes the exceeded expenditures
	Accounting records and documents (ensure that the Institute of Agriculture Science of South Viet Nam and Cuu Long Delta Rice Research Institute establish separate accounting documentation for the Project)	Institutes actually have separate accounting system and reports for the Project. However, Project records and documents are kept and numbered together with those of the institutes according to their internal financial regulations.
	Cash Management at Ninh Thuan PPMU (preparation of required documents to support expenditures incurred before approval of the annual project budget)	Ninh Thuan has prepared supporting documents for every expenditure when incurred as advised by CPMU
	Procedures for choosing suppliers, signing, and liquidating economic contracts (Ensure that documents of NOMAFSI, College of Water Resources and Industrial Economics in Central Viet Nam, Danang Food and Foodstuff College are complete and consistent).	CPMU in coordination with Finance Department of MARD worked with each regarded institutes and schools to ensure the consistence of contract documents
	Extension of Contract Management (Ninh Thuan PPMU to collect the list of households to supplement the result verification documents of the extension contracts between PPMU and the suppliers)	Ninh Thuan is collecting required lists from the suppliers

APPENDIX 13: COMPLIANCE WITH LOAN COVENANTS
(As at 30 April 2013)

Reference in LA	Covenant	Responsibility	Status of Compliance
Sec 4.02 (a)	The Borrower shall (i) maintain, or cause to be maintained, separate accounts for the Project; (ii) have such accounts and related financial statements audited annually, in accordance with appropriate auditing standards consistently applied, by independent auditors whose qualifications, experience and terms of reference are acceptable to the Asian Development Bank (ADB); (iii) furnish to ADB, as soon as available but in any event not later than 6 months after the end of each related fiscal year, certified copies of such audited accounts and financial statements and the report of the auditors relating thereto (including 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 imprest account/ statement of expenditures), all in the English language; and (iv) furnish to ADB such other information concerning such accounts and financial statements and the audit thereof as ADB shall from time to time reasonably request.	Central Project Management Unit (CPMU), Provincial Project Management Units (PPMUs), and Institute Project Management Units (IPMU)	Being complied with. (i) Separate accounts are being maintained for the project including level 1 account at CPMU, and level 2 at 5 PPMUs, 10 institutes, 10 schools (ii) Project accounts have been audited and financial statements prepared. (iii) Timely annual financial statements are being submitted to ADB.
Sec 4.02 (b)	The Borrower shall enable ADB, upon ADB's request, to discuss the Borrower's financial statements for the Project and its financial affairs related to the Project from time to time with the auditors appointed by the Borrower pursuant to Section 4.02(a), and shall authorize and require any representative of such auditors to participate in any such discussions requested by ADB, provided that any such discussion shall be conducted only in the presence of an authorized officer of the Borrower unless the Borrower shall otherwise agree.	CPMU, PPMUs, and IPMUs	Being complied with.
Sec 4.03	The Borrower shall enable ADB's representatives to inspect the Project, the goods financed out of the proceeds of the Loan, and any relevant records and documents.	CPMU, PPMUs, and IPMUs	Being complied with.
Sched. 4, para. 7 (a)	The Borrower shall ensure that all Goods and Works procured (including without limitation all computer hardware, software and systems, whether separately procured or incorporated within other goods and services procured) do not violate or	CPMU, PPMUs, and IPMUs	Being complied with.

Reference in LA	Covenant	Responsibility	Status of Compliance
	infringe any industrial property or intellectual property right or claim of any third party.		
Sched. 4, para. 7 (b)	The Borrower shall ensure that all contracts for the procurement of Goods and Works contain appropriate representations, warranties and, if appropriate, indemnities from the contractor or supplier with respect to the matters referred to in subparagraph 7 (a) of Schedule 4.	CPMU, PPMUs, and IPMUs	Being complied with.
Sched. 4, para. 8	The Borrower shall ensure that all ADB-financed contracts with consultants contain appropriate representations, warranties and, if appropriate, indemnities from the consultants to ensure that the consulting services provided do not violate or infringe any industrial property or intellectual property right or claim of any third party.	CPMU	Being complied with. Have not received any complaints on this.
Sched. 5, para. 3	The Central Project Management Unit (CPMU), headed by a Project Director, shall be established in the Agricultural Project Management Board under MARD, and comprise a Deputy Director, a planning officer, a finance and accounting officer, a monitoring and evaluation officer, and other necessary supporting staff on a full-time basis. The CPMU shall be responsible for day-to-day Project implementation; interdepartmental coordination among MARD's concerned departments; central-level procurement; consultant recruitment, and fund disbursement; and provision of support to the Provincial Project Management Units (PPMUs).	MARD, APMB, CPMU	Being complied with. The CPMU within MARD's Agricultural Projects Management Board was established on 9 March 2006 based on decision No. 651/QĐ-BNN-TCCB of MARD. There are 20 working full-time staffs for CPMU, include: 01 Director, 02 Vice Directors, and planning staffs, accountant staffs, technical staffs and administration staffs. The CPMU in accordance with Ministries, Departments under MARD implemented in compliance with goal, target, activities of each component of project and closely monitored project implementation progress.
Sched. 5, para. 4	The PPMU, headed by a PPMU manager, shall be established under the provincial department of agriculture and rural development in each of the Project provinces, and comprise a planning officer, a monitoring and evaluation officer, an accountant, and other necessary supporting staff. The PPMU shall be responsible for (i) overall management and supervision of Project activities related to agricultural extension in the	MARD, Provincial People's Committees (PPC), DARD, PPMU, CPMU	Being complied with. CPMU coordinated with PPMUs through coordination meetings, workshops, monitoring and evaluation missions, 5 PPMUs were established in Apr-May 2007. Each PPMU comprises a director, an

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	<p>concerned province, including contractual arrangements for service delivery, finance and project accounting, procurement, monitoring and evaluation, and reporting, and (ii) provincial-level coordination among the relevant provincial departments. Each of the PPMUs shall have a meeting with the CPMU at least once every other month. Project implementation units may be established under participating research institutes, and technical and vocational training schools, if required and deemed appropriate, to facilitate the Borrower's decentralization policy for project implementation and management.</p>		<p>accountant, and a coordinator.</p> <p>IPMUs were established comprising 10 research institutes and 10 agricultural colleges and vocational schools. Each IPMU comprises a director, an accountant, a monitoring and evaluation staff, a technical staff and a project staff. MARD issued Decision 455/QĐ-BNN-DANN, dated 01 Feb 2008 on decentralization and assignments of AST's implementation.</p> <p>The CPMU, 25 project agencies and relevant agencies have annual meetings. Project review meeting in 2012 was held on 16 January 2013 in Hue.</p>
Sched. 5, para. 2	<p>The Project Steering Committee (PSC), headed by a Vice Minister of MARD, shall be established and comprise representatives of concerned departments of MARD, the Ministry of Planning and Investment, the Ministry of Finance, the State Bank of Vietnam, the Ministry of Science and Technology, the Ministry of Education and Training, and the Project provinces. The PSC shall be responsible for interministerial coordination and provision of overall policy guidance to the Project and shall endorse the Project annual work plans and budget. Representatives of farmers' associations and other Project's stakeholders shall participate in the PSC meetings as required.</p>	MARD, MPI, MOF, SBV, MOST, and PPMU	<p>Complied. The PSC was established on 4 June 2007.</p> <p>Members of the PSC are: Vice minister, representatives of: MPI, MOF, MOET, MOST, SBV and Departments under MARD (Planning Department, DSTE, DOP, NAEC). The PSC organized annually meetings with representatives from Ministries, Departments and representatives of stakeholders. The most recent meeting was held on 19 December 2012 in Quang Ninh.</p> <p>Being complied with.</p>
Sched. 5, para. 5	<p>The Borrower shall ensure that adequate counterpart staff and funds will be provided for operation and maintenance of the Project facilities upgraded in the selected agriculture research institutes, and further ensure that such institutes will provide adequate staff and funds for operation and maintenance after their transformation into self-financed organizations in accordance with the Borrower's Decree No. 115, issued in 2005.</p>	SBV, IPMU	<p>Institutes ensured that they provide enough staff with capacity and MARD ensured that it provides counterpart funds for equipment procurement of 10 project schools. There are 40 staff of 10 project research institutes, 35 staff of 10 project schools.</p>

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			<p>MARD provided counterpart funds 25% : 10 research institutes: 2,191 millions USD 10 schools : 2,748 millions USD</p> <p>Complied.</p>
Sched. 5, para. 6	<p>MARD shall establish a committee, represented by the Science and Technology Council of MARD, other relevant government agencies, universities, private sector organizations and agro-industries, to examine and select research proposals to be funded under the Project on a competitive basis.</p>	MARD	<p>MARD issued decision No. 1322/QĐ-BNN-KHCN to establish a science and technology committee with 11 members from DSTE under MARD, Ministry of Planning and Investment, VAAS, Viet Nam Gardening Associations (VGA), Vietnam National Vegetable, Fruit and Agricultural Product Corporation, Agricultural Project Management Board on 02 May 2008.</p> <p>Complied.</p>
Sched. 5, para. 7	<p>The Borrower shall ensure that the following criteria will be applied for selecting such research proposals:</p> <ul style="list-style-type: none"> (i) appropriateness to the client needs in the region through the results of participatory rural assessments; (ii) relevance to the national sector goals, strategies, and priorities; (iii) technical and financial viability and sustainability; (iv) linkage with agricultural extension and effective mechanisms for participatory technology development and information dissemination; (v) compliance with social and environmental requirements; (vi) involving at least one provincial agricultural extension center or extension advisory council; and (vii) not more than \$100,000 for each research proposal. 	MARD	<p>Procedures on process and selection criteria of research projects including need-based selection criteria were approved by Deputy Minister of MARD on 20 June 2008 based on decision No.1874/QĐ-BNN-KHCN and approved by ADB on 7 July 2008. 125 of 550 research proposals which come from research institutes and organizations in country were selected. 100% research proposals were selected in compliance with ADB regulations, customer's need was identified based on agricultural extension staff system at the levels in provinces, districts, villages participating in research proposal implementation. Not more than \$100,000 for each research proposal. Research proposals take into consideration climate change, environment, poverty reduction, food safety and market linkage.</p>

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Sched. 5, para. 8	The Borrower shall ensure that overseas study programs to be funded under the Project will be carried out in a manner acceptable to ADB. In particular, the Borrower shall ensure that appropriate arrangements are developed so that the trainees participating in the overseas study programs will provide relevant services after returning from the programs. Such arrangements shall be developed in consultation with ADB prior to the implementation of the study programs. The selection of the trainees shall be subject to ADB's approval.	DOP, CPMU	Being complied with. Positive support to trainees studying overseas. Up to now 39 Trainees after completion of overseas training courses returned to MARD (61.1%). The remaining (12 PhD, 03 Masters) will complete the training courses in 2013. Especially, 01 PhD is proposing to extend the courses.
Sched. 5, para. 9	The Borrower shall ensure that at least 10% of the trainees are women.	DOP, CPMU	Complied. As of 15 April 2013, 22.8% of trainees studying overseas are women.
Sched. 5, para. 10	The Borrower shall ensure that demonstration trials and extension services under the Project will be implemented in poor communes where at least 30% of households are classified as poor households, as defined by the Borrower's appropriate laws and regulations.	CPMU, and PPMU, PAEC	Being complied with. 100% communes participating in AST are poor. 89% of poor households participated in agriculture extension model in 5 provinces.
Sched. 5, para. 11	The Borrower shall ensure that the following criteria will be applied for the extension contracts financed under Component 2.2 as described in paragraph 2 of Schedule 1 to the Loan Agreement: (i) Extension contracts are in line with the provincial plan for agricultural extension in the respective province; (ii) they focus on the priority subjects included in the plan for improved knowledge and technology related to crop and livestock production and marketing; and (iii) Each of the extension contracts shall cost up to the maximum of \$10,000.	CPMU, and DARD, PPMUs	Being complied with. (i) The extension contracts are in line with the provincial plan. (ii) There are 615 models, including: 389 models raising pigs, chicken, cows, ducks, 175 crop models intensive farming rice, planting maize, hybrid rice, bean, peanuts, 36 fishery models, and 15 another models (iii) 100% of all contracts is lower than \$10,000.
Sched. 5, para. 12	The Borrower shall ensure that Project activities will be implemented in line with the Project's gender action plan, as agreed between the Borrower and ADB. In particular, the agreed gender action plan shall be reflected in the provincial plans for agricultural extension to be developed under the Project.	CPMU, PPMU, and IPMU	Being complied with. Provincial Action Plans of 5 PPMUs were approved reflecting gender issues as per the Gender Action Plan.

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Sched. 5, para. 13	The extension contracts to be funded under the Project shall have provisions that at least 40% of beneficiaries of these services are women. The contracts to be awarded in the final year of project implementation shall have provisions that at least 50% of beneficiaries are women.	CPMU, PPMU, and IPMU	Being complied with. There were 56% of households where head of household are women participating in agriculture extension contract implementation. Women beneficiaries are 52.6%
Sched. 5, para. 14	The Borrower shall ensure that Project activities will be implemented in line with the Project's specific actions for indigenous peoples, as agreed between the Borrower and ADB, and that the agreed specific actions for indigenous peoples will be reflected in the provincial plans for agricultural extension to be developed under the Project.	CPMU, and PPMUs	Being complied with. Specific activities for indigenous people are included in the Provincial Action Plans of the 5 PPMUs.
Sched. 5, para. 16	The Borrower shall ensure that civil works to be financed under the Project will not require resettlement or land acquisition, as defined in ADB's Policy on Involuntary Resettlement. If, due to unforeseen circumstances, such resettlement or land acquisition is unavoidable, the Borrower shall (i) prepare a resettlement plan in accordance with ADB's Policy on Involuntary Resettlement; (ii) submit it to ADB for approval prior to awarding the concerned civil works contract; and (iii) ensure that any resettlement activities will be carried out in compliance with the resettlement plan.	CPMU, 10 technical and vocational training schools	Being complied with. Civil works were carried out within the existing compounds of 10 technical and vocational training schools and did not require resettlement or land acquisition.
Sched. 5, para. 17	The Borrower shall ensure that (i) environmental impact assessments under Category II, as defined under the Borrower's laws and regulations, will be carried out during the design phase of all civil works, and (ii) the environmental monitoring plan for the Project will be effectively implemented.	CPMU, 10 technical and vocational training schools	(i) Being complied with. (ii) The environmental impact assessment reports of equipment, civil works of 10 institutes, 10 schools was prepared.