



Aide Memoire
21-28 April 2011

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



Asian Development Bank

Southeast Asia Department

6 May 2011

H. E. Bui Ba Bong
Vice Minister
Ministry of Agriculture and Rural Development (MARD)
Hanoi, Viet Nam
Fax No: (84 4) 845 4319

Excellency:

**Subject: Loan 2283-VIE: Agriculture Science and Technology
– Loan Review Mission (21-28 April 2011)**

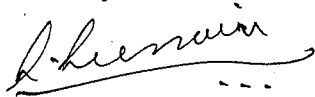
We would like to express our sincere gratitude for the kind cooperation extended by the Ministry of Agriculture and Rural Development (MARD) to the ADB Mission. The Mission was able to carry out a comprehensive review and received support from the relevant departments of MARD and other concerned agencies. Enclosed is the revised Aide Memoire of the Mission. We will appreciate receiving MARD's confirmation of the Aide Memoire before 30 May 2011.

We congratulate MARD on effective management of the Project leading to early positive impacts of the Project. As a follow up on the Mission's findings, we would like to request your oversight and guidance on the following aspects to ensure that the Project could excel into a flagship project for the government:

- (i) The CPMU is to prioritize full implementation of the Monitoring and Evaluation (M&E) System for all project components by Q2 2011. Importantly, the control groups need to be monitored or the outcomes and impacts of the research and extension activities will be considered questionable;
- (ii) In consultation with MARD, the CPMU and IPMUs are to develop a standard reporting system for financial income arising from laboratory services including its utilization for sustainable maintenance and upgrading of equipment beyond Project period. The system is to be operationalized by 30 June 2011;
- (iii) The CPMU is also to report the timebound action plan and the budget for the 2nd Phase of the e-library program, including the monitoring system to submit to ADB by 30 May 2011;
- (iv) The CPMU is to document success stories and conduct studies to extract lessons learnt for sharing with other agencies and the public. Studies are to include collecting evidence on improved public expenditure management through competitive bidding procedure and effectiveness of poverty targeting, using bottom-up approach. The documents are to be submitted to ADB by Q3 2011; and
- (v) The CPMU to submit draft TOR and budget for additional inputs of consultants for the remaining period of the project, including consultants to prepare the follow-up project to ADB by 30 May 2011.

Your continued cooperation and support would be highly appreciated.

Sincerely,

A handwritten signature in dark ink, appearing to read 'J. H. Mir', with a horizontal line underneath.

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

SS:abt

ASIAN DEVELOPMENT BANK
Loan No. 2283-VIE (SF): Agriculture Science and Technology Project
Aide Memoire of the Loan Review Mission
(21-28 April 2011)

I. INTRODUCTION

1. On 21-28 April 2011, 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)—the Executing Agency (EA) of the Project—its International Cooperation Department and Central Project Management Unit (CPMU), Department of Finance, Department of Organization and Personnel (DOP), Department of Science, Technology and Environment (DSTE), Ministry of Finance, National Agricultural and Extension Center (NAEC), Institute Project Management Unit (IPMU) Central Highland Agro-Forestry Science and Technology Institute, and Provincial Project Management Unit (PPMU) in Dak Nong. The Mission also visited two agricultural demonstrations in Dak Nong Province and two research projects in Dak Lak Province.

2. The Mission (i) reviewed the implementation of the four components and updated the project implementation schedule accordingly; (ii) followed up on enhancing linkages between research and extension activities; (iii) reviewed the progress of involving private sector in creating inclusive value chain in extension activities; (iv) discussed the impact evaluation study and second phase project; (v) discussed the availability and timely allocation of counterpart funding; (vi) visited Dak Nong province to discuss implementation problems and visited the Central Highland Agro-Forestry Science and Technology Institute to check on equipment and research trials financed by the Project; (vii) reviewed contracts awarded and disbursements projections for 2011; (viii) followed up on submission of draft bidding documents for the procurement of small-scale civil works and goods of remaining research institutes and schools; and (ix) reviewed the Borrower's compliance with the loan covenants.

3. The Mission was concluded with a wrap-up meeting on 28 April 2011 in Hanoi, chaired by Ms. Nguyen Thi Tuyet Hoa, Deputy Director General of International Cooperation Department, 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.

4. This Aide Memoire records the findings of the Mission, 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 30 May 2011.

II. BACKGROUND

5. ADB approved the Loan on 11 December 2006 for SDR 20.198 million (US\$30 million equivalent) from ADB's Special Funds resources. The Loan Agreement became effective on 13 June 2007 and the last loan review mission was fielded in December 2010.

¹ The Mission comprised of Sununtar Setboonsarng (Mission Leader).

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.

7. 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.

III. REVIEW OF PROJECT IMPLEMENTATION

A. Overall Progress

8. As of 31 March 2011, the overall progress of the Project is estimated at 75.23% (Appendix 2) against the elapsed time of 66% since loan approval. Despite the difficulties faced during the first 1.5 years of the project, significant progress has been noted since the last quarter of 2009. Implementation progress of each project component is as follows: Component 1: client-oriented agricultural research and capacity strengthening, 34.85%; Component 2: grassroots agricultural extension improvement, 17.84 %; Component 3: rural-based technical and vocational training, 15.75%; and Component 4: project management, 6.79%. In 2010, contract awards and disbursement achieved 184% and 173% of the projection respectively, showing the increased effectiveness in project implementation.

9. As a Project in its fifth year of implementation, early outcomes are becoming visible in all Project components. There is no major implementation problem but fine tuning of activities will be required for the Project to achieve its full potentials. Implementation problems in Dak Nong Province, which has been problematic up to 2009, have been resolved in 2010 with a catch-up plan being drawn for 2012. Counterpart funds are adequate from MARD and from all five provinces.

10. Significantly, with a relatively small amount of investment in the past four years, the Project has contributed effectively to strengthen the national science and technology development and extension system for the agriculture sector of in Viet Nam, leading to improved equitable and sustainable growth. Under the Project, the competitive bidding process in awarding research and extension contracts have been effectively introduced, resulting in improved public expenditure management on agriculture research and extension through participation of private sector and wide range of service providers. Research projects, being implemented largely in poor remote regions with collaboration from extension stations and farmers, have resulted in more relevant research which are, showing promising results for use

in extending to farmers. Notably, the bottom-up, participatory approach in extension activities has been effectively adopted by the PPMUs resulting the Project achieving high outreach to the impoverished marginal regions, particularly the indigenous people. Capacity building for vocational school, which until now has not been the focus of foreign-assisted projects, is proven highly beneficial to the staff and the students. Training of research staff, including overseas degree and non-degree programs, domestic training course, as well as study tours are strengthening technical capacity as well as networking among researchers. While there are areas which the Project could further improve, as a pilot project in implementing the Decree 115, the Project offers practical lessons not only for the Government of Viet Nam but also offer for all government of developing countries. Early impacts of the Project have been documented by the ADB and will be featured at the ADB Annual Meeting in Hanoi in May 2011.

11. From November 2010 to February 2011, a team of external evaluator visited stakeholders in all project components to conduct a comprehensive evaluation of all project activities. The Team collected both quantitative and qualitative information on progress, outcome, including an attempt to re-establish baseline data for the Project. The Evaluation Team was highly effective in capturing the strengths and weakness of the Project. The Mission provided comments to improve the presentation of the findings and requested the team to further develop the general recommendations into specific actions for the Project to implement during the remaining period of the Project and for use in improving future project design and implementation of decree 115. In particular the Mission strongly endorsed the recommendation on the need for the Project to improve its database to facilitate project progress monitoring and to evaluate outputs, outcomes, and impacts of project activities.

B. Progress of Project Implementation

12. The Mission reviewed the progress under each of the components and discussed the timetable for planning and implementation of various activities for the remainder of the Project. A revised implementation schedule is attached in Appendix 3.

Component 1. Client-Oriented Agricultural Research and Capacity Strengthening

13. **Client-Oriented Research Programs.** 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. DSTE continues to oversee activities under this sub-component.

14. The 125 research projects (58 projects from the first batch and 67 in the second batch) are approaching completion. In 2010, 121 projects 97% met 100% of their annual work plan and disbursement rate, reflecting an improvement from 2009. Total disbursement for research projects reached VND64.56 billion (70%). The remaining capital expected to be disbursed in 2011 is VND27.63 billion.

15. In 2010, the projects in the 1st batch were reviewed by independent experts in 2010 and recommendations were given to researchers on how to improve their projects. On 25 April 2011, researchers of 2nd batch projects met in Da Nang to review research progress. All research projects are conducted with the cooperation of extension staff and local farmers. As of 31 March, 2011, 3,748 households have participated in the research projects, 47% of which were female-headed households and 44% were ethnic minority households. To date, a total of

8,260 farmers and extension staff participated in the training courses conducted as part of the research projects. This included 1058 extension officers and workers and 7,202 farmers, with 52% female 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. The research projects have been largely implemented on schedule, and many have demonstrated promising early results. Majority of research projects of the first batch are approaching completion. All successfully completed research projects will be evaluated against a set of criteria to establish their suitability and attractiveness for agricultural extension demonstrations to be implemented in 2012.

16. **Recommendations:**

- Since the target areas of the Project is the impoverished marginal regions, the need to increase food production and income must be balanced with the need to protect the fragile and generally deteriorating resource base. The Mission noted that productivity improvement based on external inputs remain to main outcomes of measuring success of research projects. While productivity improvement is no doubt an important criteria. for poor households in remote areas with limited access to external inputs, it is important that researchers report environmental and social implications of the research as well.
- With a number of research projects approaching its completion, a set of criteria has been approved by MARD on 19 April for selecting successful projects for extension. The Mission noted that the criteria are comprehensive and taken into account social and environmental consequences including gender and biodiversity as criteria. To effectively implement the criteria, the Mission recommended that DSTE and CPMU further identify a list of measurable indicators to be used in facilitating objective decision making in project selection.
- Regarding recommendations from independent reviewers for the 1st batch research projects, CPMU is to follow up with the Scientific Board of the Research Institutes to ensure that corrective measures are taken up by researchers to improve their research projects. Penalty of non-payment will be applied in the case of non-actions on the part of researchers.
- On progress of 2nd batch research projects reviewed at the meeting on 25 April in Danang, the Mission requested that the outcomes be reported to ADB in the next quarterly report.
- The Mission noted that while baseline data is collected for all research projects, continuous data collection in the monitoring system in subsequent period may or may not have included data collection of the control group. The Mission requested that the CPMU and DSTE ensure that the control group be monitored or the outcome and impacts of research activities may be considered questionable.
- Some research projects are introducing new species using chemical agriculture practices to upland ecosystems and to indigenous communities. The Mission noted that the recommendation of the previous review to develop an action plan to improve environmental and social safeguard in research projects has not been taken up. CPMU has agreed to provide the action plan in simple Vietnamese to all research project leaders by Q2 2011.

- Farmer-managed on-farm trial. Currently, all research projects are being implemented as researcher-managed on-farm trials with farmers providing land and labor and all inputs are financed by the Project. For research projects to be extended, an important step of farmer-managed on-farm trial is strictly required prior to evaluating the technology for extension. Under farmer-managed on-farm trial, researcher will only provide technical inputs with farmers providing all other inputs. Research project which farmers will be willing to invest under their own capacities will be considered appropriate for extension. NAEC is to participate in the selection of completed research projects for extension.

17. **Training of Research Staff.** The subcomponent addresses the shortage of qualified research staff by providing 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 trainings will enable staff to effectively utilize the existing and proposed laboratory equipment and facilities, and improve staff knowledge and skills to manage sophisticated facilities. DOP continues to oversee activities under this sub-component.

18. **Overseas Training.** The AST Project target to support 55 candidates to study abroad has been achieved. With the savings from lower than estimated tuition, two additional candidates will be attending degree programs in 2011. Of the three post-doctoral candidates selected, two have completed their programs and have returned to their respective research institutes. Eighteen candidates have commenced their PhD studies and 36 candidates were selected for Masters programs. Overall, women represent almost 26% of the total candidates (Table 6 Appendix 1). Of the 57 candidates 26 are studying in Australia, 7 in the United States, 6 in Germany, 5 in the Netherlands, 3 in Japan, 5 in Thailand, 1 in Sweden, 1 in Denmark, 1 in UK, 1 in India, and 1 in Norway. Three Masters candidates have completed their training and two have returned to their respective institutes to apply the new knowledge gained in their studies. One is waiting for the awarding of the degree and will be returning this year. With the extension of the project, all students will be able to complete their studies within the project period.

19. **Findings and Recommendations**

- The Project is sending students to study various countries and program. To monitor effectiveness of this investment, the Mission request that CPMU develop a short questionnaire to collect information on their study program and to monitor their effectiveness after returning to their respective institutes.
- One student from Southern Agricultural College, studying in Australia, would like to change his master program from a one-year course to a 1.5 year course for which the subject is more suitable for his job. from a oneyear course to a1.5 years course . to be more suitable to his job. The College's leader has submitted a letter to support his request to DOP. The Mission endorsed this change provided that he will complete his degree program before the project closing date.
- The Mission endorsed the request to use the surplus funds under this sub-component for sending researchers to overseas short-training course on climate-change related subject and organic/bio-intensive agriculture. On a case-by-case basis and as approved by the Project Steering Committee, management staff of MARD could participate in the overseas training courses. CPMU is in the process of organizing short-training course on organic production and trading in Taiwan. Since such activity will require approval of

minor change in scope from ADB's management, the Mission requested that course details and budget be submitted for further processing of approval in ADB.

20. **Local Training.** To date, a total of 40 training courses were conducted by the CPMU with coordination provided by Vietnam Academy of Agricultural Sciences (VAAS) for almost 1,200 staff, 47% females. Overall assessment of the training courses by participants has been high with a majority indicating that the course content met their needs (median assessment for 2010 courses was 96%) and that they would be able to apply what they had learnt in the work place (median assessment for 2010 courses was 75%)

21. **Findings and Recommendations:**

- In the previous review, the Mission requested that the evaluation of training course be reported at three levels: (i) end of training course; (ii) six to 12 months after the course; and (iii) one year after the course. The Mission noted that level (ii) and (iii) were yet to be undertaken but there is a plan to conduct it in the second quarter of 2011. The plan is to seek assessments from trainee's managers and supervisors as well as trainees. These evaluations will select a sample of trainees, ensuring that all participating Institutes are equally represented and that there are sufficient numbers included for each training area to generate statistically valid results. The Consultants have discussed evaluation with CPMU and have prepared a draft post-course evaluation form for completion by trainees and their supervisors. The Mission requested that the outcomes be reported in the Q3 progress report.
- The Mission reiterated that training courses be centered on sustainable and equitable agriculture development which is the overall objective of the Project. In particular, training courses on climate change mitigation and adaptation for the poor, including the use of ICT in agriculture be increased during the remaining period of the project. The 2011 training program to include these topics and to ensure gender mainstreaming.

22. **Upgrading of Research and Laboratory Equipment.** 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. DSTE continues to oversee activities under this sub-component.

23. Thirty-one procurement packages out of thirty-two planned for implementation have been awarded and 26 have been installed. Completion of installation and necessary training are expected to be completed in 2011. A summary of the status of the procurement of packages for Institutes can be found in Appendix 5. A checklist for environmental safeguard for safe disposal of toxic waste from equipment has been developed by the Project.

24. **Findings and Recommendations:**

- During the last review mission, it was recommended that, as part of the project monitoring system, contribution from financial income arising from laboratory services be documented and be evaluated on its potential contribution in sustainable maintenance and upgrading of equipment beyond project period and importantly on its potential contribution to the implementation of the Decree 115 of the Government. CPMU is to develop a framework to assess effectiveness of utilization of equipment, implementation of environmental safeguard, and assessment of the financial impacts to be implemented by Q3 of 2011.

- CPMU continues to conduct spot check on environmental safeguard associated with the use of the equipment as well as monitoring the effective use and maintenance of the equipment. The Mission noted that the environmental safeguards checklist for equipment has not been made available to all participating institutes and requested that CPMU send the checklists to all institutes as soon as possible.

Component 2. Grassroots Agricultural Extension Improvement

25. 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.

26. **Pro-poor Provincial Agricultural Extension Services.** This sub-component provides (i) ongoing technical training programs for local extension staff and farmer groups; and (ii) 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.

27. Extension activities are on-going in all five provinces. Implementation progress of the provinces of four provinces are on track based on revised implementation plan. Progress in Dak Nong has improved significantly in 2010 and based on implement progress in 2011, a plan to allocate more funds for 2012 to catch up with the delays in 2008 and 2009 will be considered.

28. A total of 45 extension staff from five provinces have undergone Training of Trainer (TOT). Only 4 or 9% of the TOT are female. A total of 658 training courses were conducted for 16,767 extension personnel, including extension service providers. Of the 13,218 extension staff trained at the sub-district level, 28% were female and 30% were ethnic minorities. Seventy-seven training courses were organized for service providers with 2000 participants of which 31% were female. Since 2007, 51 courses were organized for 1,238 provincial and district extension workers with 33% female participants. Evaluation of training course remains to be improved.

29. Networks of exchange for extension workers has been established through an overseas study tour to Thailand (December 2008) and Taiwan (April 2011) and 14 in-country visits organized by 5 provinces—Thanh Hoa (2), Ninh Thuan (3), Quang Nam (4), Nghe An (4) and Dak Nong (1) for staff of the PPMU, extension centers and extension service agencies totaling 174 people. Training courses were conducted for 197 participants (44% female) agricultural extension staff at national and provincial levels to strengthen communication capacity.

30. CPMU and NAEC developed a communication program to use mass media in five provinces to disseminate information on subjects related to sustainable and equitable agriculture development. To date, 6 programs have been broadcasted on Vietnam Television from March to August 2010 and 7 programs have been broadcasted on Voice of Vietnam from May to Dec 2010. Contracts have also been awarded to Voice and Radio of provinces to produce extension programs in 2011.

31. NAEC and CPMU have organized training classes to enhance media capacity on agricultural extension for staff from NAEC and provincial agricultural extension centers for 111 participants, including 41 female (45%).

32. Findings and Recommendations:

- Counterpart funds are now sufficient for all 5 PPMUs including Ninh Thuan and Quang Nam provinces.
- To address project implementation issues in Dak Nong Province, the Mission visited Dak Nong province and found that implementation problems have largely been addressed and the progress has markedly improved in 2010, with 22 more contracts awarded. The Mission noted that conditions and resource base of farmers in Dak Nong province are largely different than other project provinces. Project communes are largely in indigenous people living in remote and fragile ecosystems with larger land size which may render a different approach to extension activities. The Project is recruiting a new project staff to assist the PPMU in Dak Nong. The Mission requested that the staff be a local person with in-depth knowledge and expertise in working with the indigenous people of the Province.
- The extension trials on introducing intensive hybrid corn to indigenous people visited by the Mission were questionable if it was an appropriate technology as the farmers admitted that the chemical inputs requirements were beyond their financial capacity. The Mission reiterated previous recommendations for CPMU to ensure pro-poor, eco-friendly extension models in the Project.
- The consultant on value chain development has conducted a preliminary study to identify indigenous products to be developed for commercialization. The CPMU has agreed with NAEC and the PPMUs that new surveys will be carried out by all PPMU to identify products with potential to be developed for commercialization and to pilot the value chain development activities under the Project in Q4 of 2011.
- On involving private sector in project activities, CPMU has involved Ecolink firm in activities in Thanh Hoa PPMU and is expected to participate in bidding there. The National Value Chain Development Specialist is also assisting all PPMUs, including Dak Nong, with the survey of indigenous knowledge and processes and market development for promising options.
- Limited involvement of NAEC in overseeing overall implementation of this component has been noted. The Mission requested further involvement of NAEC staff in visiting project areas and all PPMU to observe the new approach and its outcomes for use in nation-wide implementation of the decree 115.
- The Mission suggested that peer-to-peer extension by key farmers trained under the project be further promoted by making it a condition for selecting service providers.
- NAEC proposed to recruit an additional national consultant to develop standardized extension materials. The proposal was not supported by the Mission as the top-down approach suggested is not consistent with a bottom-up grass-root oriented approach promoted by the Project. The plan to produce DVD by NAEC is also to take a bottom-up approach and to also include documenting success stories on poverty impacts and effectiveness of new approach to extension financing in the AST project. The Mission provided the CPMU with documents on farmers making DVDs on climate change adaptation in Malawi and suggested the Project to pilot activities. Since the Project has

provided PPMU with equipment on extension material production, the Mission recommended that PPMU use the bidding process to engage service providers to training and mentor extension workers to develop farmer-friendly extension materials, involving farmers as evaluator of the materials.

- Monitoring and evaluation of project training courses should be done systematically and feedbacks should be used in improving future training courses. Reports submitted by three PPMUs (Nghe An, Ninh Thuan and Quang Nam) on evaluation of training courses are not consistent nor systematic. The Mission requested that the weakness in the monitoring system be addressed as a priority activity for this project component.
- On utilizing ICT in extension activities, the CPMU has cooperated with ICARD to conduct a survey in Thai Nguyen province on application of ICT in agriculture, including teletext and mobile phone messages. The proposal on pilot application of teletext technology in Thanh Hoa or Nghe An province is now being drafted and will be sent to ADB for approval.
- Gender balance in TOT and in training activities needs to be improved. The Mission recommended that the Gender Action Plan of the Project be effectively utilized and training on gender mainstreaming be organized by all PPMUs in 2011. CPMU and NAEC have instructed the PPMUs to increase the number of female ToTs.

33. **Promotion of Extension Contracts.** 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.

34. As of 31 March 2011, the five provinces had implemented 482 demonstration models and 31 research trials (6%). Demonstration models for the provinces are: 191 demonstration models and 5 research trials in Thanh Hoa, 124 demonstration models and 9 research trials in Nghe An, 75 demonstration models and 7 research trials in Quang Nam, 58 demonstration models and 7 research trials in Ninh Thuan, and 34 demonstration models and 3 research trials in Dak Nong. According to the DMF, at least 20% of the remaining extension contracts have to be research trials. The low figure of 6% to date is strongly influenced by the level in Thanh Hoa, where 2.6% of the 196 contracts implemented have been research trials. In Dak Nong, while the number of contracts has been relatively low at 37, 8% have been research trials. In Ninh Thuan almost 11% of contracts have been for research trials. The demonstration models include 337 livestock models (66%), 139 crop production models (27%), and other types such as fisheries and mechanization of agriculture models account for 7%.

35. The models were developed in accordance with procedures issued by MARD on competitive bidding of the extension contracts. As of April 2011, there have been 234 service providers participating in the bidding process in 5 project provinces, in which 158 service providers awarded the contracts to implement 514 extension models. In 2010, increased number of non-government service providers participated in the bidding process raising the competitiveness and quality of extension services in the project areas. A report by the Consultants on assessment of extension service providers found that competition varied among the five provinces, with one PPMU awarding contracts to just one type of organisation (DAES) and others spreading contracts among nine different types of organisations.

36. Findings and Recommendations:

- The Mission noted that recommendations provided by previous review missions still need continued attention so listed again here as reminders:
- Where feasible, contract farming schemes of safe food and environmentally friendly products (such as organic products) is to be promoted. Study tours for farmer leaders and TOT be organized to visit schemes organized by the Metro Supermarket and box schemes or organic vegetables organized by NGOs and social entrepreneurs in different locations in the country.
- Extension program for poor households is to adopt a holistic approach of empowering the households and not focusing only on yield improvement without consideration on market linkage. Other production-related issues such as i.e., processing, packaging, or marketing should be considered. For indigenous communities, production of high-value products for niche market is to be prioritized.
- Where demonstration plots are set up, letters of invitation to households to visit the demonstration plot should be addressed to women at least once in the three formal visits under the Project. This will ensure that women will also benefit from the project activities.
- Additional training be conducted for extension workers and service providers on (i) gender mainstreaming; (ii) participatory method; and (iii) climate change, environment, social, and health implications of agriculture technologies.
- In all project activities, social and environmental safeguards are to be strictly implemented. Gender action plan are to be reflected in all activities under the Project.
- The system of information dissemination to farmers through ICT technologies in particular through mobile phone (SMS) be explored for the project. NAEC and CPMU are to review experiences of using SMS to send information to farmers and assess the feasibility of introducing into the Project.

Component 3. Rural-Based Technical and Vocational Training

37. 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.

38. The activities under this subcomponent are progressing with minor problems in 2010. Currently the 10 schools completed their development of 11 training programs with 96 sets of training materials (curricula). A workshop was organized in 5 August 2010 in Can Tho to select 19 additional training programs to be developed by the Project. With the approval of the DOP on curricula development plan in September 2010, the 10 schools have established the Curriculum Development Executive Board, involving a private sector representative.

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

- (i) Seven courses on "Developing Training Curricula" for 260 participants (32.6% women participants);
- (ii) Four courses on credit transfer system for 127 participants (22% women);
- (iii) Three courses on compiling training materials for 86 participants (32.5% women); and
- (iv) English training courses were organized at each of the 10 project schools for school leaders and teachers (15-20 participants in each school).

40. The Project is supporting an establishment of an e-library system to facilitate sharing of knowledge products and information among 10 schools and with the Center for Information and Statistics under MARD. Procurement of hardware and software have been completed and training have been provided to 20 librarians. The 1st phase of the e-library system to connect 10 schools electronically has been completed. To implement the 2nd Phase of the e-library system to enhance content of knowledge products, including digitizing and sharing training materials and to connect to portal and database nationally and internationally, a survey on equipment needs has been completed and a workshop is planned for May 2011.

41. Contracts have been awarded for the procurement of (i) small-scale civil works for the construction and renovation of classrooms, libraries, and laboratories; and (ii) school & laboratory equipment for the 10 training and vocational schools. Draft bidding documents and bid evaluation reports for the remaining packages continue to be prepared and submitted for ADB approval. To date, 45 packages (out of 48 packages) have been awarded and 44 have been utilized. Construction has been completed for the ten schools. Twelve additional packages of civil works and goods, approved in September 2010, will undergo bidding procedures in 2011. Completion of all installation and necessary trainings are expected in 2011. A summary of the status of the procurement of packages is in Appendix 6.

42. **Finding and Recommendations**

- The Mission is pleased with the progress of the e-library system and requested that a baseline and monitoring system be put in place to ensure effective monitoring of progress, utilization by students and teachers, and impacts. CPMU is also to report the timebound action plan and the budget for the implementation of the 2nd Phase of the e-library program and the monitoring system, including plan for financing the activities beyond project period by 30 May 2011.
- The Mission noted the lack of gender balance in all training and workshop activities organized under this sub-component. Based on DOP's information, the figure is representative of the gender balance among technical personals in the schools. The Mission pointed out that if that really is the case, data on gender distribution of staff in the participating schools should also be presented to provide evidence that women have been adequately represented.
- On quality of the 30 curriculum being developed under the Project, the Mission requested CPMU and DOP to report on actions taken and key monitoring indicator to ensure quality and relevancy of the curriculum, particularly to private sector who are the main potential employer of graduates from the schools.

Component 4: Project Management

43. 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.

44. The following highlights the Mission's findings and recommendations:

- (i) **Less than effective incorporation of international best practices due to ineffective inputs from some international consultants.** Communication between consultants and CPMU has improved. However, the limited and ineffective inputs from some international consultants have hampered the Project to further excel as a flagship project. The monitoring and evaluation expert was not able to effectively establish a functional baseline and monitoring system for the Project. The international environment specialist was supposed to have been fielded in the first year of the Project is yet to be recruited when the Project is in its fourth year of implementation. The international extension expert has been replaced twice without effective inputs and the plan to recruit the replacement has been dropped. Despite the limited inputs from international consultants, the national consultants have largely been effective. The enhanced incorporation of international best practices in project activities, in particular the extension activities, the review Mission in 2010 has recommended engagement of a national researcher to conduct a review of pro-poor research and extension best practice and made the information available in Vietnamese to project participants. The Mission requested that the recommendation be implemented in 2011. The Mission also requested CPMU to work more closely with the consulting firm to critically assess the consultancy needs and to ensure accountability of consultant inputs for the remaining period of the Project. A consultant inputs plan is to be submitted to ADB by 30 May 2011.
- (ii) **Detailed Implementation Plan for the Loan Extension Period.** The CPMU has prepared a new Gantt chart of project implementation plan but has not prepared the detailed workplan, budget, TOR, and schedule of fielding of consultants. The Mission discussed consultant engagement plan and requested that a new workplan be submitted to ADB by 30 May 2011.
- (iii) **Monitoring and Evaluation Capacity.** Monitoring framework for all components of the project is yet to be effectively implemented. The Mission requested that priority be given to operationalize the M&E system for all components as soon as possible. The Mission noted that M&E training for representatives of all Project Components is scheduled for May 2011. This will cover the DMF, reporting requirements and underlying data table formats and completion as well as benefit monitoring for key stakeholders under each component.
- (iv) **Promoting lessons from AST project in implementing nationwide programs of MARD.** With government policy to adopt market mechanism in research and extension system and with the AST pioneering the approach, experiences from the project should be shared to all agencies in the MARD. Draft of seven short stories demonstrating poverty impacts of the AST Project has been prepared.

Two on the impacts of extension demonstrations for farmers in remote areas, one on the impact of the Project on the performance of the Da Nang Food College and four on the local and wider impacts of client-oriented research projects. The Mission requested that the draft be further improved and additional stories be documented professionally to present to policy makers. The Mission recommended that CPMU take early steps to prepare materials and organize workshop in late 2011 to share the experiences and report the activities in the next project progress report.

45. Implementation of Recommendations of the Impact Evaluation Study. An independent project evaluation study was commissioned by the Project from November 2010 to February 2011. A workshop to present the result of the Study to MARD was held on 25 March 2011, chaired by the Vice Minister Bui Ba Bong. The Study reviewed activities in all project components and found the Project to be highly effective in inducing positive changes in the research and extension systems as well as in the vocational schools under the Project. The Study also extracted lessons learnt and provided practical and useful recommendations to improve project activities. The Mission requested that the final e-copy of report of the Study be made available to all PPMUs and IPMUs and to the members of Project Steering Committee. The Mission endorsed the recommendations of the Study and requested CPMU to create a matrix of recommendations and plan of actions to implement them to be submitted to ADB by 30 May 2011.

46. The Second Phase of AST Project. In December 2010, the MARD has received clearance from the Prime Minister Office to request ADB to support a follow-up project for 100 mil USD, focusing on improving research and extension capacity to address climate change. Since the current AST project will end on 30 December 2012, the MARD requested the ADB to consider approving the new project in 2012 to start implementation in 2013 so that the current project staff in the CPMU, PPMUs, and IPMUs could continue with the momentum of success. and to avoid losing the current project staff in the CPMU, PPMUs, and IPMUs, it is proposed that the new project be approved in 2012 to start operating in 2013. Since the TA xxx is ongoing to design the second phase of the Food Safety and Biogas Project for approval in 2012, to reduce the number of project and to increase the size of project in the ANR sector, ADB proposed that the two new projects be merged into one larger project of about 250 Mil USD. Under the new project, the two current projects would continue largely under the current institutional arrangements of the current projects as two sub-projects. The preferred title of the new project is "Low-carbon Agriculture Support Project". MARD agreed with the proposed strategy on merging the two projects and requested that ADB send a letter to inform the Minister of MARD with a cc to MPI to formally inform the Government. The Mission agreed to send the requested letter. In addition, the Mission pointed out that the Mission requested the CPMU to submit required information by MPI and draft the TOR for additional inputs of the consultants. The proposal will be submitted to ADB and internal approvals will be sought for a minor change in scope.

C. Procurement of Civil Works, Goods and Services

47. An updated list of procurement status at schools and institutes provided by the CPMU is shown in Appendix 5 and 6, respectively. The status of procurement activities for each component in the project design is listed as follows:

- (i) **Component 1:** Contracts have been awarded for the procurement of research and laboratory equipment while draft bidding documents and bid evaluation

reports for the approval by ADB. To date, 31 contracts for equipment have been awarded and 26 packages have been implemented. The installation and necessary trainings are expected to be completed in 2011.

- (ii) **Component 2:** The procurement of office equipment for the PPMUs and extension equipment for agricultural extension at district level has been completed.
- (iii) **Component 3:** A total of 50 contracts have been awarded for the procurement of small scale-civil works and equipment. Draft bidding documents and bid evaluation reports for the remaining packages are still being prepared to be submitted for ADB approval. The installation and necessary trainings are expected to be completed in 2011.

48. The Mission and EA reviewed the Procurement Plan for the remainder of the project period (Appendix 7). The Mission supported the following changes and will seek necessary approval upon its return:

- (i) **Shopping Procedure.** Inclusion of the shopping method for small-scale civil works and equipment/materials of the universities. In line with ADB's September 2010 approval to utilize excess funds from the increased value of the US dollar, the Project expects to procure packages (amounting to less than \$100,000) for the renovation and upgrade of laboratories/classrooms and procurement of laboratory, library, and teaching equipment. The threshold for shopping works and goods under the original procurement plan is less than \$100,000.
- (ii) **Direct Contracting.** Inclusion of the use of direct contracting (less than or equal to \$10,000) as provided for in the Loan Agreement.

49. The approved procurement plan for the remaining project period will be posted on the ADB website.

D. Consulting Services

50. **Status of Consulting Firm Inputs.** Of the 152 person-months of consulting services inputs (29 international and 123 national), a total of 117.17 person-months (18.73 international and 98.44 national) have been utilized as of 31 March 2011, equivalent to 77%. The schedule of consultants' inputs is presented in Appendix 8.

51. The project implementation consultants were fielded 13 months after Loan approval. Until mobilization of the consulting firm in September 2008, administrative and technical support were provided to the CPMU under TA 4619.² Due partly to this, the consulting firm initially faced difficulties in providing effective inputs. The need to hold regular weekly meetings between CPMU, implementing agencies, and the consultants were stressed to update each other on key project issues and outcomes.

51. Quality of some experts provided by the firm has not been satisfactory. The Mission requested CPMU to discuss with the consulting firm on the plan of deployment of project consultants and to submit the plan to ADB for approval by 30 May 2011. The plan should include details of mobilization of the remaining time of specialists, replacement of some

² ADB. 2005. *Technical Assistance to the Socialist Republic of Viet Nam for Strengthening Agriculture Science and Technology Management*. Manila (TA 4619-VIE).

specialists as well as the extension of consultant contract for 1 more year without the increase in the total consultant contract value. Output based management should be strengthened in consultant supervision by the CPMU.

52. **Status of Individual Consultants.** As of 31 March 2011, the Project has engaged 7 national individual consultants (extension specialists for the 5 provinces, a training consultant, and a CPMU coordinator) for a total of 204 person-months input. To date, 160.5 person-months have been rendered (Appendix 8).

53. **New Consultancy Projects:** In November 2010 three additional consultancy projects commenced, following recommendations by the ADB at the Mid-term review of the Project. The three projects are:

- a. Baseline and Evaluation
- b. Value Chain Development
- c. E-Library Action Plan

54. The consultants of the Baseline and Evaluation report have completed a draft report and currently are addressing comments from the Team Leader. The Value Chain Development consultant has completed 40% of his allocated time. He is working with the 5 PPMUs to guide them with implementation of a revised approach to the survey of indigenous knowledge and technologies in each Province. The E-Library Action Plan consultant has completed the report and presently is preparing the English translation.

E. Project Reporting

55. Quality of progress report has improved gradually but reporting against the target set under the Development Monitoring Framework could further be improved. Given the fact that the Project activities are in its advanced stage, in addition to reporting implementation progress, the report should also include reporting outputs, outcomes, and early impacts including issues requiring attention. The progress report are to include brief summary of information from appendix, update of the loan covenants, update of the action plan for all activities under each component, computation of overall implementation progress, and an update on the list of items procured. A list of reports submitted and publications under the Project is shown in Appendix 9.

F. Project Costs and Financing

56. **Contract Awards and Disbursement.** As of 31 March 2011, the CPMU reported total disbursement of VND 431 billion (approximately \$24 million) comprising of VND 323 billion (approximately \$18 million) of ADB funds and VND 108 billion (approximately \$ 6 million). A schedule showing overall project expenditure to date is in Appendix 10.

57. The status of ADB Loan utilization as of 31 March 2011 can be found in Appendix 11. The dollar-equivalent value of ADB's loan (SDR20.198 million) is \$31.4. The cumulative contract awards and disbursements of loan proceeds were \$17.2 million and \$18.9 million, respectively. Projections for 2011 contract awards and disbursement are \$6.3 million and \$6.6 million. In first quarter 2011, 90% and 94% was achieved for contract awards and disbursements respectively.

58. **Statement of Expenditure (SOE).** CPMU was reminded that the SOE procedure should only be used for individual payments not exceeding \$50,000, referring to the total amount paid and not just the ADB-financed amount.

59. **Audited Financial Statements.** CPMU has been reminded of timely submission (June 2011) of the AFS for 2010. The Mission noted that ADB auditors have been fielded and reminded CPMU to include their findings in the June 2011 submission.

60. **Counterpart Funds.** Of the VND64 billion counterpart funding requirement reflected in the Project's projected expenditures for 2011, Approximately VND 53 billion has been committed by the Central Government for expenditures covering Components 1, 3, and 4; while a total of approximately VND 11 billion has been committed by the five participating provinces for activities in Component 2.

61. Counterpart funds from CPMU and all PPMU in five provinces are sufficient for 2011.

G. Benefit Monitoring and Evaluation

62. Benefit Monitoring and Evaluation System of the Project remains the activities to be prioritized for this stage of the Project. The report of the Baseline and Evaluation Consultants was completed in the first quarter of 2011. Training on the Project DMF and associated M&E reporting formats will be conducted in May 2011 for representatives of Project Management Units. The CPMU is to assess resource requirements to operationalize the Benefit Monitoring and Evaluation System of the Project and submit the action plan to ADB by 30 May 2011.

H. Environmental and Social Safeguards


63. As the Project works largely in environmental and social sensitive areas, ADB safeguards should be strictly adhered to. Based on field visits during the Mission, awareness on social and environmental safeguards remains to be improved. While information has been made available to most PPMUs and IPMUs, without effective follow-up by the CPMU on compliance, the safeguards have not been adequately implemented. The Mission requested the CPMU to further enhance awareness on the safeguards and establish effective monitoring system to ensure compliance.

I. Compliance with Loan Covenants

64. The Mission finds the loan covenants to be generally complied with. Insufficient counterpart funds being addressed by MARD. Weaknesses on gender, environment, and social safeguards are being rectified. The Project Steering Committee is to meet twice a year, independent of other project activities i.e., wrap-up meeting of ADB Mission, to effectively guide and resolve issues on the Project. An updated schedule of covenants is given in Appendix 12.

IV. ACKNOWLEDGEMENTS

65. The Mission would like to thank MARD especially the following agencies: ICD, APMB, CPMU and the Consultants, DOF, DOP, DSTE, NAEC, SBV, PPMU Dak Nong, Central Highland Agro-Forestry Science and Technology Institute, for their help and cooperation during the Mission's visit. The next loan review mission is tentatively scheduled in December 2011.


Sununtar Setboonsarng
Hanoi, Viet Nam
28 APRIL 2011

APPENDIX 1: LIST OF PERSONS MET

1. CPMU and Consultants

1.1 CPMU

Nguyen The Hinh – Deputy Director of APMB - Director of CPMU
Le Thi Nhung – Deputy Director of CPMU
Vu Tien Dung – Deputy Director cum Head of Technical Division of CPMU
Nguyen Thi Minh Huong – Planning staff
Pham Thi Tra Vinh – Extension staff

1.2 Consultants

Michael Blyth –Team Leader, International Agricultural Research Management
Specialist Consultant
Tran Thi Phuong Dung- Communication Consultant
Trinh Van Tien- Value Chain Development Specialist Consultant
Tran Thi Thu Ha, Baseline and Evaluation Consultant
Hoang Anh Tuan, Baseline and Evaluation Consultant

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
Phung Huu Can – Staff

5. NAEC

Dr. Phung Quoc Quang, Deputy Director of NAEC
Mr Nguyen Van Chung, NAEC's staff
Ms Vu Thi Thuy – NAEC staff
Mr Doan Quang Chien – NAEC staff

6. Vice Minister

Dr Bui Ba Bong

7. ICD (International Cooperation Department) and)

Ho Thi Minh Chau – Acting Director - Multilateral Cooperation Division
International Cooperation Department (ICD)

8. Department of Planning

Bui Tat Tiep – Deputy Director General of Department of Planning

9. Department of Livestock Production (DOLP)

Nguyen Thanh Son - Deputy Head of DOLP
Tran Trong Tung – Staff
Nguyen Quynh Hoa – Staff
Lutz R. Meyer – Team Leader TA 7251-VIE CTA

10. Dak Nong PPMU

Nguyen Van Bang – Deputy Director of DARD/ Director of PPMU
Nguyen Van Thang – Deputy Head of Planning Department, DARD
Dinh Van Thanh – Chief accountant
Tong Manh Duy – Staff of Technical and Planning Department
Ngo Nu Quynh Nhu - Staff

11. Western Highlands Agro-forestry Scientific & Technical Research Institute-WASI:

Le Ngoc Bau – Head of Institute/ Project Director
Le Quang Trung – Coordinator
Truong La – Head of livestock production

[illegible]

QUARTERLY PROGRESS REPORTING

years of implementation	5,000	
progress reports to be submitted	20,000	
reports already submitted	8,000	comprise of 2007 annual report (counted as 2 reports) and 4Q 2008, 1&2Q 2009
	0,400	

FINANCIAL AUDITING

years of implementation	5,000	
APA needed to be submitted	5,000	
reports submitted	2,000	ADB approved hiring; 2007 to be done together with 2008
	0,400	

APPENDIX 3: REVISED PROJECT IMPLEMENTATION SCHEDULE MARCH 2011

Item	2007				2008				2009				2010				2011				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
A. Client-oriented Agricultural Research and Capacity Strengthening																					
Client-oriented agricultural research programs																					
- Identification of research needs																					
- Procurement of needed materials and equipment																					
- Use of research funds for selected programs																					
Training and post-graduate programs																					
- Preparation of programs																					
- Application and selection																					
- Program implementation																					
Upgrading of equipment																					
- Equipment specification and tendering																					
- Procurement and installation																					
- Training for equipment use and maintenance																					
B. Grassroots Agricultural Extension Improvement																					
Provincial plans for pro-poor agricultural extension services																					
Training programs for trainers, extension staff, and grassroots service providers																					
- Extension module development																					
- Preparation of programs																					
- Application and selection																					
- Program implementation																					
Provision of on-farm demonstration trials																					
Contractual agricultural extension services																					
- Establishment of a contractual management system																					
- Extension contracts																					
Capacity strengthening of local extension centers																					
- Equipment specification and tendering																					
- Procurement and installation																					
Rural-based Technical and Vocational Training																					
Training programs for teaching and administrative staff																					
- Preparation of programs																					
- Application and selection																					
- Program implementation																					
- Support for developing curriculum guides																					
Upgrading of library and laboratory facilities																					
- Equipment specification and tendering																					
- Procurement and installation																					
- Training for equipment use and maintenance																					
Project Management Support																					
Establishment of provincial project management units																					
Recruitment of implementation consultants																					
Procurement of vehicles and equipment																					
Appointment of incremental project staff																					
Establishment of a project steering committee																					
Monitoring of project activities																					
Financial auditing																					
Quarterly progress reporting																					
Midterm review																					
Project completion review																					

■ Timing of project activities.
 ■ Intermittent or continuous activities.

**APPENDIX 4: PROCUREMENT OF CIVIL WORKS, GOODS, AND SERVICES
UP TO 15 APR 2011
(\$ '000)**

**Status of Procurement
(\$ '000)**

Component	Appraisal Estimates	Procured to date	Percentage Achieved (%)
1 Client-Oriented Agricultural Research and Capacity Strengthening			
Civil Works	0	-	0
Equipment	6,761	5,484	81.11
Materials	0	-	0.00
Training	2,499	2,306	92.30
Research and Extension Contracts	6,567	4,978	75.81
2 Grassroots Agricultural Extension Improvement			
Equipment	400	400	100.00
Materials	1,585	1,585	100.00
Training	2,824	2,579	91.33
Research and Extension Contracts			
3 Rural-Based Technical and Vocational Training			
Civil Works	1,444	1,444	100.00
Equipment	5,253	4,697	89.42
Materials		-	
Training	1,173	831	70.82
4 Project Management Support			
Equipment	49	49	100.00
Vehicles	21	21	100.00
Materials			
Consulting Services	1,602	720	67.80
Total	29,638	25,095	84.67

APPENDIX 5: SUMMARY OF PROCUREMENT STATUS AT INSTITUTES
(As of 14 April 2011)

	INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE (‘000 VND)	STATUS	EXPECTED TIME TO SEND TO ABD FOR PAYMENT
I. CONSTRUCTION					
1				No construction bid at 10 Institutes	
II. PROCUREMENT					
1	Soils And Fertilizers Research Institute	<ul style="list-style-type: none"> • Package 1 (Lots 1 & 2) • Package 2 • Package 3 • Package 4 	<ul style="list-style-type: none"> • 5,286,600 • 2,979,145 • 2,506,218 • 534,575 	<ul style="list-style-type: none"> • Awarded, completed installation • Awarded, completed installation • Awarded, completed installation • Awarded, completed installation 	<ul style="list-style-type: none"> • 25/5/2010 • 10/6/2010 • 15/6/2010 • 25/10/2010
2	Northern Mountainous Agriculture And Forestry Science Institute	<ul style="list-style-type: none"> • Package 1 • Package 2 • Package 3 	<ul style="list-style-type: none"> • 8,973,900 • 4,930,100 • 3,636,000 	<ul style="list-style-type: none"> • *Awarded, completed installation • Awarded, completed installation • Awarded, completed installation 	<ul style="list-style-type: none"> • 5/16/2010 • 15/12/2010 • 23/7/2010
3	Forest Science Institute Of Vietnam	<ul style="list-style-type: none"> • Package 1 • Package 2 • Package 3 	<ul style="list-style-type: none"> • 2,9970,000 • 3,299,000 • 750,000 	<ul style="list-style-type: none"> • Awarded, completed installation • Awarded, completed installation • Awarded, completed installation 	<ul style="list-style-type: none"> • 15/6/2010 • 15/12/2010 • 10/11/2010
4	Food Crops Research Institute	<ul style="list-style-type: none"> • Package 1 (Lots 1-4) • Package 2 	<ul style="list-style-type: none"> • 6,006,092 • 1,127,000 	<ul style="list-style-type: none"> • Awarded, completed installation • Awarded, completed installation 	<ul style="list-style-type: none"> • 20/6/2010 • 30/6/2010
5	Plant Protection Institute	<ul style="list-style-type: none"> • Package 1 	<ul style="list-style-type: none"> • 2,990,000 	<ul style="list-style-type: none"> • Awarded, completed installation 	<ul style="list-style-type: none"> • 5/6/2010

	INSTITUTE	BIDDING PACKAGE NO.	PACKAGE VALUE ('000 VND)	STATUS	EXPECTED TIME TO SEND TO ABD FOR PAYMENT
		<ul style="list-style-type: none"> Package 2 (Lots 1 & 2) 	<ul style="list-style-type: none"> US\$211,778 	<ul style="list-style-type: none"> Awarded, completed installation 	<ul style="list-style-type: none"> 20/10/2010 6/2011
6	Mekong Delta Rice Research Institute (Can Tho)	<ul style="list-style-type: none"> Package 1 Package 3 Package 4 	<ul style="list-style-type: none"> 2,137,968 3,116,000 2,893,875 	<ul style="list-style-type: none"> Awarded, completed installation Awarded, completed installation Awarded, completed installation 	<ul style="list-style-type: none"> 10/9/2010 12/11/2010 20/11/2010
7	Southern Agricultural Science & Technology Institute (HCMC)	<ul style="list-style-type: none"> Package1 Package2 Package 3 	<ul style="list-style-type: none"> 617,304 1,564,700 4,182,836 	<ul style="list-style-type: none"> Awarded, completed installation Awarded, completed installation Awarded, completed installation 	<ul style="list-style-type: none"> 15/9/2010 15/9/2010 21/12/2010
8	Institute Of Policy and Strategy for Agriculture and Rural Development , Ha Noi	<ul style="list-style-type: none"> Package 1A Package 1B Package 2 Package 3 Package 4 	<ul style="list-style-type: none"> 1,045,582 2,355,120 2,995,193 2,698,773 	<ul style="list-style-type: none"> Expected to be awarded in early 2011 Awarded, completed installation Awarded, completed installation Awarded, completed installation Awarded, completed installation 	<ul style="list-style-type: none"> 15/11/2010 15/7/2010 15/11/2010 15/7/2010
9	Southern Fruit Research Institute (HCMC)	<ul style="list-style-type: none"> Package 1 Package 2 	<ul style="list-style-type: none"> 2,827,855 (incl. VAT) 2,350,624 (incl. VAT) 	<ul style="list-style-type: none"> Awarded, completed installation Awarded, completed installation 	<ul style="list-style-type: none"> Submitted liquidation document to CPMU in 2010 15/07/2010

APPENDIX 6: SUMMARY OF PROCUREMENT STATUS AT SCHOOLS
(As of 15 April 2011)

	SCHOOL	BIDDING PACKAGE NO.	PACKAGE VALUE (VND)	STATUS	EXPECTED TIME TO SEND TO ABD FOR PAYMENT
I. CONSTRUCTION					
1	Central Region College Of Technology, Economics And Water Resources, Quang Nam	Package 3	• 1.910.527.150	Completed	Completed
2	Northern College Of Agriculture & Rural Development , Ha Tay	Package 3	• 3.543.031.000	Completed	Completed
3	College Of Food Industry, Da Nang	Package 3	• 2.448.692.090	Completed	Completed
4	Secondary Technical School For Food & Foodstuff Management, Hai Phong	Construction package	• 1.529.820.000	Completed	Completed
5	Ha Noi Technology & Economics Vocational School, Ha Noi	Package 3	• 2.950.939.000	Completed	Completed
6	Northern Water Resources College, Ha Nam	Package 3	• 1.875.268.000	Completed	Completed
7	Bao Loc Technology & Economics College, Lam Dong	Package 3	• 6.659.902.664	Completed	Completed
8	Southern Agricultural College, Tien Giang	Package 3	• 237.900.000	Completed	Completed
9	Southern College For Engineering & Agriculture, Can Tho	Construction package	• 1.297.000.000	Completed	Completed
10	Food & Foodstuff Technical School , HCM City	• Package 3	• 1.880.355.000	Awarded, expected to complete on 30 th Apr 2011	15/5/2011
II. PROCUREMENT					
1	Northern Water Resources College, Ha Nam	• Package 4 • Package 5 • Package 6 • Package 7	• 2.799.650.000 • 4.549.815.500 • 1.935.752.000 • 135.590.000	• Completed • Completed • Completed • Completed	• Completed • Completed • Completed • Completed
2	Southern College For Engineering & Agriculture, Can Tho	• Package 4 • Package 5 • Package 6 • Package 7	• 1.037.121.000 • 2.719.505.750 • 2.763.750.000 • 2.044.500.000	• Completed • Completed • Completed • Completed	• Completed • Completed • Completed • Completed

	SCHOOL	BIDDING PACKAGE NO.	PACKAGE VALUE (VND)	STATUS	EXPECTED TIME TO SEND TO ABD FOR PAYMENT
		• Package 8	• 2.680.000.000	• Completed	• Completed
3	Central Region College Of Technology, Economics And Water Resources, Quang Nam	• Package 4 • Package 5 • Package 6 • Package 7 • Package 8 • Package 9 • Package 10	• 1.735.832.000 • 2.669.769.000 • 572.357.657 • 631.900.000	• Completed • Completed • Completed • Completed • Bidding invitation documents were approved by ADB, in preparation of bidding	• Completed • Completed • Completed • Completed • Completed in 2011
4	Northern College Of Agriculture & Rural Development, Ha Tay	• Package 4 • Package 5 • Package 6	• 3.155.442.000 • 5.790.825.000 • 2.291.616.000	• Completed • Completed • Completed	• Completed • Completed • Completed
5	College Of Food Industry, Da Nang	• Package 4 • Package 5 • Package 6	• 3.757.677.740 • 9.121.480.500 • 3.103.361.600	• Completed • Completed • Completed	• Completed • Completed • Completed
6	Secondary Technical School For Food & Foodstuff Management	• Package 4 • Package 5	• 4.756.741.000 • 3.725.590.000	• Completed • Completed	• Completed • Completed
7	Ha Noi Technology & Economics Vocational School, Ha Noi	• Package 4 • Package 5	• 5.658.950.000 • 2.151.930.000	• Completed • Completed	• Completed • Completed
8	Bao Loc Technology & Economics College, Lam Dong	• Package 4 • Package 5 • Package 6 • Package 7 • Package 8	• 1.639.662.080 • 2.074.800.000 • 2.309.999.000 • 3.960.000.000 • 1.710.000.000	• Completed • Completed • Completed • Completed • Completed	• Completed • Completed • Completed • Completed • Completed
9	Southern Agricultural College, Tien Giang	• Package 4 • Package 5 • Package 6 • Package 7 • Package 8 • Package 9	• 4.060.320.940 • 3.931.581.200 • 789.232.000 • 985.000.000	• Completed • Completed • Is submitting the bidding result • Is submitting the bidding result • Is delivering equipment • Is delivering equipment	• Completed • Completed • 30/11/2011 • 30/11/2011 • 30/8/2011 • 30/8/2011

	SCHOOL	BIDDING PACKAGE NO.	PACKAGE VALUE (VND)	STATUS	EXPECTED TIME TO SEND TO ABD FOR PAYMENT
10	Food & Foodstuff Technical School, HCM City	<ul style="list-style-type: none"> • Package 4 • Package 5 • Package 6 • Package 7 	<ul style="list-style-type: none"> • 438.320.000 • 2.134.000.000 • 1.234.970.000 	<ul style="list-style-type: none"> • Completed • Completed • Is delivering equipments • In bidding process 	<ul style="list-style-type: none"> • Completed • Completed • 30/6/2011 • 30/12/2011

PROCUREMENT PLAN

Basic Data

Project Name: Agriculture Science and Technology Project	Executing Agency: Ministry of Agriculture and Rural Development
Country: Socialist Republic of Viet Nam	Loan Number: 2283
Loan Amount: \$30 million - ADF	Date of this Procurement Plan: 31 April 2011
Date of First Procurement Plan: 11 December 2006	

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

1. Project Procurement Thresholds

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

Procurement of Goods and Works	
Method	Threshold
National Competitive Bidding (NCB) for Works ¹	Below \$1,000,000 > \$100,000
National Competitive Bidding for Goods ¹	Below \$500,000 > \$100,000
Shopping for Works	Below \$100,000
Shopping for Goods	Below \$100,000
Direct Contracting	< \$10,000

2. ADB Prior or Post Review

2. Except as ADB may otherwise agree, the following prior or post review requirements apply to the various procurement and consultant recruitment methods used for the project.

Procurement Method	Prior or Post	Comments
Procurement of Goods and Works		
NCB Works	Prior/Post	CPMU/PPMUs/IPMUs to procure all NCB packages. Prior review for the first 2 contracts subsequently post review.
	The draft English language version of the procurement documents should be submitted for ADB review and approval regardless of the estimated contract amount. The ADB-approved procurement documents should be used as a model for all NCB procurement financed by ADB, and need not be subjected to further prior review. ADB will review the bid evaluation report and award of contract on a post-review basis.	
NCB Goods	Prior/Post Same as NCB Works above	CPMU/PPMUs/IPMUs to procure all NCB packages.
Shopping for Works	Prior	
Shopping for Goods	Prior	
Direct Contracting	Post	

Procurement Method	Prior or Post	Comments
Recruitment of Consulting Firms		
Quality- and Cost-Based Selection (QCBS)	Prior	The CPMU will recruit consultants from a firm, using simplified technical proposals.
Consultants Qualifications (CQS)	Prior	Highly specialized expertise for the assignment.
Least-Cost Selection (LCS)	Prior	Involves small contracts with specialist organizations for time critical work.
Recruitment of Individual Consultants		
Individual Consultants	Prior	To assist in project coordination and management, extension and training activities.

3. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000

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

General Description	Value of Contracts (cumulative)	Number of Contracts	Procurement / Recruitment Method ¹	Comments
Equipment for Research Institutes (Research and laboratory)	\$0.899 million	13	NCB/SP	By IPMUs
Equipment for Extension	\$0.245 million	2	NCB/SP	By CPMU/ PPMUs, NAEC
Extension Service Contracts	\$0.980 million	98	NCB	By PPMUs
Civil Works for Universities	\$0.488 million	4	NCB/SP	By IPMUs
Equipment and materials for Universities (Library, laboratory, teaching, and school administration)	\$1.055 million	21	NCB/SP	By IPMUs
Individual Consultants (Extension, environment, value chain, project management.)	\$ 0.2 million	4	ICS	By CPMU

Appendix 8: Status of Consulting Services from September 2008 to 31 March 2011

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance		Remarks
					Person months	%	person- months		
Consultants contracted to Hassall & Associates International									
1	Dr Michael John BLYTH	Team Leader- International Agricultural Research Management Specialist	16	362	12.07	75.4%	3.93		Commenced 6th input on 27/03/2011
2	Nick SHIRRA	International Agricultural Extension Management Specialist	5	50	1.67	33.3%	3.33		Proposal to not replace IAEMS and use budget for additional national consultant inputs in 2011
3	Dr. Micheal THAIR	International Agricultural Vocational Training Specialist	1	4	0.13	13.3%	0.87		Position ceased
4	Evelyn BUENAVENTURA (Ms)	International Social Development Specialist	2	58	1.93	96.7%	0.07		Completed 2008
5	Geza C. TELEKI David CARPENTER	International Environmental Assessment Specialist	2	0	0.00	0.0%	2.00		Consultant replaced; replacement approved 011/2010; inputs planned for Q3 2011
6	Myrna J. HERNADEZ (Ms.)	International Financial Management Specialist	1	28	0.93	93.3%	0.07		Completed 2008
7	Wang DEHAI	International Monitoring and Evaluation Specialist	2	60	2.00	100.0%	0.00		Completed19/5/2010
	Total		29	562	18.73	64.6%	10.27		
Consultants contracted to VICA International Consultants									
8	NGUYEN Thi Lan (Ms)	Deputy Team Leader- National Agricultural Research Management Specialist	34	637	28.95	85%	5		Continuing
9	Dr NGUYEN The Con	National Agricultural Extension Management Specialist	22	485	22.05	100%	0		Completed 12/2011

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance person- months	Remarks
					Person months	%		
10	Dr-VUONG Thanh Huong	National Agricultural Vocational Training Specialist	11	241	10.95	100%	0	Completed 10/2010
11	NGUYEN Thi Huong Tra (Ms)	National Social Development Specialist	6	92	4.18	70%	1.8	Commenced 01/12/2009
12	Dr NGUYEN Thi Loan	National Financial Management Specialist	11	188	8.55	78%	2.5	Commenced 01/12/2009
13	Hà Thị Cẩm	National Monitoring and Evaluation Specialist	8	107.5	4.89	61%	3.11	Commenced as replacement on 19/11/2010
14	Dr NGUYEN Tu Siem	National Monitoring and Evaluation Specialist	4	88	4.00	100%	0	Completed 19/4/2010
15	DAO Van Khang	National Extension Communication Evaluation Specialist	2	44	2.00	100%	0	Completed on 27/1/2010
16	DO Thi Dung	National E-library Action Plan Development Specialist	3	70	3.18	106%	-0.2	Completed 03/2011
17	TRINH Van Tien	National Value Chain Development Specialist	6	52	2.36	39%	3.6	Completed 25/3/2011
18	LE Nhu Quynh	National Communication Specialist	11	45	2.05	19%	9	Withdrew on 31/1/2011
19	Dr TRAN Thi Thu Ha	National Team leader/ Baseline Survey and Project Evaluation Specialist	3	72	3.27	109%	-0.3	Completed on 15/3/2011
20	HOANG Anh Tuan	National Researcher for Baseline and Project Evaluation Consultancy	2	44	2.00	100%	0	Completed on 20/03/2011
	Total		123	2165.5	98.43	80.03	24.57	
	Grand total		152	2727.5	117.17	77.08	34.83	

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance		Remarks
					Person months	%	person- months		
Implementing Consultants: CPMU and PPMU									
1	NGUYEN Van Chien	Coordination Consultant	24	720	24	100%	0		Completed
2	NGUYEN Van Hien	Training Consultant	24	720	24	100%	0		Completed
3	TRAN Van Cuong	Agricultural Extension Consultant	24	720	24	100%	0		Completed
4	NGUYEN Van Nhu	Agricultural Extension Consultant	36	810	27	75%	9		Continued for 12 months (commenced from 1/2011)
5	NGUYEN Quang Dong	Agricultural Extension Consultant	36	810	27	75%	9		Continued for 12 months (commenced from 1/2011)
6	NGUYEN Phuong Nghi	Agricultural Extension Consultant	36	855	28.5	79.17%	7.5		Continued for 12 months (commenced from 15/11/2010)
7	NGUYEN Dung Tien	Agricultural Extension Consultant	24	180	6	25.00%	18		Resigned
	Total		204	4815	160.5	78.68%	43.5		

APPENDIX 9: LIST OF REPORTS AND OTHER PUBLICATIONS BY PROJECT CONSULTANTS FROM SEPTEMBER 2008 TO 31 MARCH 2011

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total Pages	English (E) Vietnamese (V)	Current Status
	Reports						
1	Stock-take report for ADB October 2008 Loan Review Mission	All	25/11/2008	1		E	Final
2	Inception Report	All	3/3/2009	1	108	E, V	Final
3	Monthly reports from September 2008 to March 2010	All	5 th -15 th day of following month	19	10-15	E, V	Final
4	4 th Quarter report (9-12/2008)	All	15/1/2009	1	21	E, V	Final
5	1 st Quarter report (1-3/2009)	All	12/4/2009	1	19	E, V	Final
6	3 rd Quarter report (7-9/2009)	All	15/10/2009	1	21	E, V	Final
7	Semi-annual report (1-6/2009)	All	25/9/2009	1	24	E, V	Final
8	2009 annual report (1-12/2009)	All	20/3/2010	1	35	E, V	Draft
9	International Social Development Specialist's Report	Social Development	23/12/2008	1	56	E, V	Final
10	International Financial Management Specialist's Report	Financial Management	10/12/2008	1	27	E, V	Final
11	International Extension Management Specialist's Report	2	25/2/2009	1	44	E, V	Final
12	International Agricultural Vocational Training Specialist's Report	3	25/12/2008	1	7	E, V	No feedback
13	Progress Report on monitoring and supporting training courses	1	6/7/2009	1	12	E, V	Final
14	Agricultural Research Management	1	27/7/2009	1	8	V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total Pages	English (E) Vietnamese (V)	Current Status
	Specialist's field trip report in southern region						
15	Monitoring Report on training of Subcomponent 3.1	3	8/2009	1	20	V	Final
16	Agricultural Research Management Specialist's field trip reports and minutes on Research project monitoring	1	15/12/2009	6	5	V	Final
17	Field trip Report by National Environmental Assessment Specialist, Ninh Thuan	2	24/12/2009	1	6	V	Final
18	Field trip report by National Social Development Specialist to Ninh Thuan	2	24/12/2009	1	6	V	Final
19	Field trip report by International Agricultural Extension Management Specialist -- Quang Nam and Ninh Thuan	2	24/12/2009	1	14	E, V	Final
20	First quarter Report of 2010 (1-3/2010).	All components	15/4/2010	1	18	E, V	Final
21	Semi-annual Report 2010 (1-6/2010)	All components	20/7/2010	1	22	E, V	Final
22	Third quarter Report 2010 (7-9/2010)	All components	15/10/2010	1	18	E, V	Final
23	Field trip report of the financial management specialist	4	15/1/2011	1	5	V	Draft
24	Field trip report of the Value Chain Development Specialist	2	20/1/2011	1	7	V	Dự thảo
25	Environmental assessment report in laboratory by Environmental Assessment Specialist	1	25/1/2011	1	7	V	Draft
26	Environmental assessment report on research projects batch 1	1	27/1/2011	1	10	V	Draft
27	Fourth Quarter	All	15/01/2011	1	20	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total Pages	English (E) Vietnamese (V)	Current Status
	(10-12/2010)	components					
28	Effectiveness Evaluation Report of AE Demonstration Models	2	15/7/2010	1	34	E, V	Final
29	Effectiveness Evaluation Report of Research Project	1	10/9/2010	1	38	E, V	Final
28	2010 Annual Report	All components	14/2/2011	1	25	E, V	Final
29	AST Project Baseline and Evaluation Report	All components	14/2/2011	1	28	E, V	Draft
	Other materials						
1	M&E Formats for Institutes, Schools & Provinces	All	26/2/2009	1	12	E, V	Final
2	M&E Tables	All	27/2/2009	1	70	V	Final
3	PAEM Material	2	15/3/2009	1	45	V	Final
4	Format and procedures for quarterly reporting. Draft report to CPMU	All	10/04/2009	1	26	E	Final
5	Indigenous Knowledge and Manual for Surveying Indigenous Knowledge	2	20/04/2009	1	20	V	Final
6	M&E Logframe for AST Project	All	24/4/2009	1	18	E, V	Draft
7	Management and Evaluation Regulations for Research Projects	1	20/5/2009	1	26	E, V	Final
8	FFS Methodology for Some Plants	2	5/2009	1	45	V	Final (training material)
9	PRA Manual	1	10/6/2009	1	23	V	Final (training material)
10	Project Management and focal issues for research project leaders and institute managers	1	13/6/2009	1	13	E, V	Final (training material)
11	M&E Framework and indicators for projects funded under client-oriented agriculture research program of AST	1	16/6/2009	1	33	E, V	Final – used as basis for training of research

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total Pages	English (E) Vietnamese (V)	Current Status
	Project. Guidelines, procedures and reporting formats						project leaders by CPMU and Consultants in June and October 2009
12	M&E framework for research projects	1	6/7/2009	1	14	E, V	No feedback from ADB yet
13	M&E framework for agricultural extension projects	1	6/7/2009	1	15	E, V	No feedback from ADB yet
14	Monitoring and Evaluation of Training. Guidelines and procedures for monitoring and evaluation of AST Project training programs and courses	All	12/7/2009	1	33	E, V	Final
15	M&E Manual for Agricultural Extension Activities	2	7/2009	1	26	V	Final (training material)
16	Planting Techniques (maize, rice, soya...)	2	7/2009	1	26	V	Final (training material)
17	M&E Logframe for AST Project	All	11/9/2009	1	15	E, V	Final; no objection from ADB
18	Reporting Format for Institutes, Schools & Provinces	All	10/9/2009	3	9	E, V	Final
19	Report on meeting with Director and staff of Plant Protection Research Institute re organic and safe vegetable production	1	5/11/2009	1	5	E	Final (to CPMU Project Director and ADB Project Officer as requested)
20	Research Priorities Framework	1	6/11/2009 & 30/11/2009	2	15 20	E, V	Final (training material) Final (training material)
21	Preparations for AST Project Mid-Term	All	4/12/2009	1	7	E	Draft – CPMU

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total Pages	English (E) Vietnamese (V)	Current Status
	Review: Action Plan		23/12/2009			V	submitted to ADB draft
22	Two mini-stories on effectiveness of AE demonstration models and research projects	1 and 2	15/5/2010	2	3	E, V	Final
23	Formats for writing evaluation report on the efficiency of research projects	2	12/6/2010	1	5	E	Final
24	Questionnaires to survey local knowledge	2	20/3/2011	1	10	V	Draft
25	Guidelines on finalization/liquidation for research projects	1	4/4/2011	1	20	V	Draft
26	Three articles on impacts of research projects						

APPENDIX 10: SUMMARY OF PROJECT EXPENDITURE STATUS

(USD)

To 15/4/2011

Items	Total project budget			2007			2008		
	ADB	Government	Total	ADB	Government	Total	ADB	Government	Total
A Investment costs									
Civil works	1,228,610	409,537	1,638,147						
Equipment	8,489,511	2,829,837	11,319,348				386,997	128,999	515,996
Vehicles	36,453	36,453	72,906				21,000	21,000	42,000
Materials	2,645,586	881,862	3,527,448					-	
Training	6,313,720	1,780,793	8,094,513				907,920	256,080	1,164,000
Extension and research	8,169,558	2,304,234	10,473,792				1,273,740	359,260	1,633,000
Consultant services	1,352,150	-	1,352,150				9,000	-	9,000
B Routine costs									
Salary of staff	-	728,000	728,000		42,000	42,000		117,000	117,000
Costs for operation	740,241	246,747	986,988	16,500	5,500	22,000	132,000	44,000	176,000
Total	28,975,829	9,217,463	38,193,292	16,500	47,500	64,000	2,730,657	926,339	3,656,996

Items	2009*			2010 + 15/4/2011			Total costs to now		
	ADB	Government	Total	ADB	Government	Total	ADB	Government	Total
A Investment costs									
Civil works				1,083,333	361,111	1,444,444	1,083,333	361,111	1,444,444
Equipment	336,000	112,000	448,000	7,351,003	2,450,334	9,801,337	8,074,000	2,691,333	10,765,333
Vehicles	-	-					21,000	21,000	42,000
Materials	-	-					-	-	-
Training	469,560	132,440	602,000	2,305,520	650,275	2,955,795	3,683,000	1,038,795	4,721,795
Extension and research	1,028,820	290,180	1,319,000	3,592,440	1,013,252	4,605,692	5,895,000	1,662,692	7,557,692
Consultant services	301,000	-	301,000	410,000	-	410,000	720,000	-	720,000
B Routine costs									
Salary of staff		121,000	121,000	-	145,000	145,000	-	-	-
Costs for operation	159,750	53,250	213,000	143,750	47,917	191,667	452,000	150,667	602,667
Total	2,295,130	708,870	3,004,000	14,886,046	4,667,889	19,553,935	19,928,333	6,350,598	26,278,931

Items	Remaining		
	ADB	Government	Total
A Investment costs			
Civil works	145,277	48,426	193,703
Equipment	415,511	138,504	554,015
Vehicles	15,453	15,453	30,906
Materials	2,645,586	881,862	3,527,448
Training	2,630,720	741,998	3,372,718
Extension and research	2,274,558	641,542	2,916,100
Consultant services	632,150	-	632,150
B Routine costs	-	-	-
Salary of staff	-	303,000	303,000
Costs for operation	288,241	96,080	384,321
Total	9,047,496	2,866,865	11,914,361

Appendix 11

Loan 2283-VIE: Agriculture Science and Technology Project

Status of Loan Utilization (US\$)

as of 31 March 2011

Cat. No.	Category	Allocation		Contract Awarded (USD)	Remaining (USD)	Disbursement (USD)	Proposal for reallocation of category (batch 2)	Increased(+), Decreased(-)
		SDR	USD Equiv					
		a	b	c	d=b-c	e	g	h
1	Civil Works	809,000	1,228,610	1,083,333	145,277	1,083,333	1,521,110	292,500
2	Equipment	5,123,000	8,489,511					
3	Materials	1,429,000	2,645,586	9,449,334	1,685,763	8,074,000	11,173,884	38,787
4	Vehicles	24,000	36,453	21,000	15,453	21,000	21,000	-15,453
5	Training	4,276,000	6,313,720	4,100,000	2,213,720	3,683,000	6,313,720	0
6	Research/Extension Contracts	5,315,000	8,169,558	7,325,000	844,558	5,895,000	8,169,558	0
7	Consulting Services	661,000	1,352,150	1,062,397	289,753	720,000	1,036,316	-315,834
8	Incremental Operating Costs	446,000	740,241	391,000	349,241	452,000	740,241	0
9	Interest Charge	415,000	625,791	51,853	573,938	51,853	625,791	0
10	Unallocated	1,700,000	900,255	0	900,255	0	900,255	0
11	Imprest Account	0	0	3,000,000	-3,000,000	3,000,000		0
	Total	20,198,000	30,501,875	26,483,917	4,017,958	22,980,186	30,501,875	0

COMPLIANCE WITH LOAN COVENANTS

(As of December 2010)

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 (PPMU), and Institute Project Management Units (IPMU)	Being complied with (i) Separate accounts are being maintained for project including level 1 account at CPMU, and level 2 at 5 PPMUs, 10 institutes, 10 schools (ii) Project accounts were audited and prepared annual financial statement. (iii) Annual financial statement were submitted to ADB in time at the request
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	CPMU, PPMUs, and	Being complied with As of Apr 2010 do not

Reference in LA	Covenant	Responsibility	Status of Compliance
	limitation all computer hardware, software and systems, whether separately procured or incorporated within other goods and services procured) do not violate or infringe any industrial property or intellectual property right or claim of any third party.	IPMUs	have any feedback on this matter
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 There have not any complaint 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	Complied The CPMU within MARD's Agricultural Projects Management Board was established on 9 March 2006 based on decision No. 651/QĐ/BNN-TCCB MARD. The CPMU ... 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	MARD, Provincial People's Committees (PPC), DARD, PPMU, CPMU	Complied <ul style="list-style-type: none"> 5 PPMUs were established in Apr-May 2007. Each PPMU comprises a director, an accountant, and a

Reference in LA	Covenant	Responsibility	Status of Compliance
	supporting staff. The PPMU shall be responsible for (i) overall management and supervision of Project activities related to agricultural extension in the 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>coordinator.</p> <ul style="list-style-type: none"> 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.
Sched. 5, para. 2	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.	MARD, MPI, MOF, SBV, MOST, and PPMU	<p>Complied</p> <p>The PSC was established on 4 June 2007.</p> <p>PSC organized the quarterly meetings with representatives from Ministries, Departments and representatives of stakeholders. The most recent meeting was organized on 20 October 2010 on evaluation of project implementation progress and agreement on solution to problems and constraints.</p>
Sched. 5, para. 5	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	SBV, IPMU	Being complied with Institutes have ensured that they provide enough staff with capacity and MARD ensured that they will provide counterpart

Reference in LA	Covenant	Responsibility	Status of Compliance
	maintenance after their transformation into self-financed organizations in accordance with the Borrower's Decree No. 115, issued in 2005.		funds for equipment procurement of 10 project schools.
Sched. 5, para. 6	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.	MARD	Complied 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 Gardenir Associations (VGA), Vietnam National Vegetable, Fruit and Agricultural Product Corporation, Agricultural Project Management Board on 02 May 2008
Sched. 5, para. 7	The Borrower shall ensure that the following criteria will be applied for selecting such research proposals: (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	Complied 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. All 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 participating

Reference in LA	Covenant	Responsibility	Status of Compliance
			in research proposal implementation. Not more than \$100,000 for each research proposal. Research proposals take into consideration climate change, sanitary and phyto-sanitary standards, poverty status of clients and market linkage.
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. Trainees after completion of overseas training courses will return to MARD
Sched. 5, para. 9	The Borrower shall ensure that at least 10% of the trainees are women.	DOP, CPMU	Complied As of 30 November 2010 24% of trainees are women studying overseas
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 All communes participating in AST have at least 30% households that are poor
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	CPMU, and DARD, PPMUs	Being complied with 100% of all EA contracts is lower than \$10,000

Reference in LA	Covenant	Responsibility	Status of Compliance
	crop and livestock production and marketing; and (iii) Each of the extension contracts shall cost up to the maximum of \$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.
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 47.1% of households where head of household & women participating in AE contract implementation. Women beneficiaries are 48.75%
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 There were specific activities for indigenous people and ethnic people in Province in Provincial Action Plan of 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 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	CPMU, 10 technical and vocational training	Being complied with In accordance with Vietnamese law, an environmental impact

Reference in LA	Covenant	Responsibility	Status of Compliance
	carried out during the design phase of all civil works, and (ii) the environmental monitoring plan for the Project will be effectively implemented.	schools	assessment report was prepared before any civil works were built.

Appendix 13: APPROVED REALLOCATION

Category	Category name	Allocation SDR	Allocation USD (\$)	Contracts awarded US(\$)	Balance for procurement USD (\$)	Disbursed USD (\$)	Projected Expenditures until end of project USD (\$)	Total requirements until end of Project USD (\$)	Proposed Reallocation
		a	b	c	d=b-c	e	f	g=c+f	
01	Civil Works	809,000	1,228,610	921,357	307,253	411,267	307,253	1,228,610	
02	Equipment	5,123,000	7,739,511	2,893,538	4,845,973	1,499,616	5,595,973	8,489,511	750,000
03	Vehicles	24,000	36,453	20,081	16,372	20,081	16,372	36,453	
04	Materials	1,429,000	2,145,586	0	2,145,586	0	2,645,586	2,645,586	500,000
05	Training	4,276,000	6,413,720	1,280,595	5,133,125	1,280,595	5,033,125	6,313,720	(100,000)
06	Research/Extension Contracts	5,315,000	7,969,558	2,007,287	5,962,271	2,007,287	6,162,271	8,169,558	200,000
07	Consulting Services	661,000	1,002,150	1,090,971	(88,821)	437,691	261,179	1,352,150	350,000
08	Incremental Operating Costs	446,000	672,645	256,912	415,733	256,912	483,329	740,241	67,596
09	Interest Charge	415,000	625,791	0	625,791	51,853	625,791	625,791	
10	Unallocated	1,700,000	2,552,482	0	2,552,482	0	900,255	900,255	
11	Imprest Account	0	115,369	0	115,369	3,000,000	0	0	
	Tổng	20,198,000	30,501,875	8,470,741	22,031,134	8,965,302	22,031,134	30,501,875	
				0.28		0.29			

Note: Contract awards and disbursement figures taken from ADB LFIS
SDR and US\$ allocation figures taken from ADB LFIS

APPENDIX 14: M&E SYSTEM - AST PROJECT- FROM JULY 2007 TO 31 MARCH 2011
Loan 2283-VIE (SF)

A. Impact				
Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
Impact Sustainable and equitable agricultural growth achieved	Five years after the Project completion: • Aggregate value added and exports of the agriculture sector to increase at about 3.0 to 3.2% and 12.3 -14.3% respectively per year from 2006-2010 in line with the 5-Year • Socio-economic Development Plan Poverty incidence in rural areas decreased from 45% (2003)	Not yet evaluated		
Data Sources and Reporting Mechanisms: (i) National Accounts; (ii) National agricultural statistics (annual yields, production volume and value, varieties of crops and other products, and other relevant data); (iii) Poverty assessments; (iv) Monitoring by the Ministry of Agriculture and Rural Development (MARD) and Ministry of Planning and Investment (MPI))				
Assumptions and Risks Assumptions: (i) Macroeconomic stability maintained during the project period; (ii) The country's agriculture sector continues to be effectively integrated into international markets; (iii) Sustainable use of on- farm and off-		MOLISA plan to revise the poverty line for rural people from VND 200,000 per person month to VND 400,000 per person per month		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
farm natural resources				
B. Outcome				
National system of agriculture science and technology (AST) strengthened				
	<ul style="list-style-type: none"> 5%-10% increase in farm household income associated with new varieties, technologies, processes or practices 	<ul style="list-style-type: none"> 68% of 278 new or improved varieties and procedures trialed by 125 research projects are expected to generate at least 10% increase in profitability Evaluation at household level not completed 		
	<ul style="list-style-type: none"> Number of poor farmers supported and advised from project extension services 	<ul style="list-style-type: none"> 11842 poor farmers participate in extension demonstrations (78%) 47236 poor farmers among beneficiaries (73%) 		
	<ul style="list-style-type: none"> Average of about 80% of graduates from 10 Project schools enter into full-time employment 	Not yet evaluated		
	<ul style="list-style-type: none"> % reduction in environmental degradation associated with adoption of new (environmentally friendly) technology, process or practice 	Not yet evaluated		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
Data Sources and Reporting Mechanisms: (i) Monitoring by MARD and CPMU; (ii) Project review missions ADB; (iii) Project monitoring system and evaluation report; (iv) Regular dialogue with key stakeholders involved in the national AST system, including extension centers and research institutes				
Assumptions and Risks Assumptions: (i) Continued Government commitment to the market-oriented agriculture sector in line with the national socioeconomic development plans; (ii) Continued Government policies and actions to streamline AST institutions to respond to the national development goals; and (iii) Agriculture market information systems effectively implemented		MOLISA plan to revise the poverty line for rural people from VND 200,000 per person month to VND 400,000 per person per month		
Output Output 1				
Client-oriented Research and Capacity Strengthening Sub-component 1.1 Client-oriented Research program				
	1. 125 research programs are properly implemented.	122 of 125 research projects completed 100% of work plans in 2010		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	2. 40% of the research investments are in mountainous and remote areas	74.5% of the research investments are in mountainous and remote areas	Majority of research projects are in mountainous and remote areas; travel to sites is limited by budget especially for batch 2 projects	
	3. More than 60% of research projects that address poverty reduction and food security	65% of research projects address poverty reduction and food security		
	4. Number of varieties, technologies and processes developed, applied or adapted for use by farmers or other users	200 new or improved varieties and 78 processes developed, applied or adapted by research projects		
	5. At least 50% of research project results are adopted by extension services for on-farm trials	Criteria for selection of successful research projects for extension demonstrations have been developed		
	6. At least 250 researchers involved in 125 client-oriented research projects receive training on ADB social and environmental safeguards	125 project leaders received documents on ADB social and environmental safeguards-14 June 2010	Include in 2011 short-term training program for staff of Research Institutes; invite representatives from 125 research projects (VAAS)	
	7. 50% of research projects produce short-term results at a relatively low cost that can easily be extended to poor farmers	Not yet evaluated		
	8. 3,000 farmer households participating in research project activities including 30% women	<ul style="list-style-type: none"> 3748 farmer households participated in research project 		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	head households and 20% of ethnic minorities	<ul style="list-style-type: none"> activities 46.7% female-head households (1,749) 44% ethnic minority households (1,645). 		
	9. 1,200 farmers and extension staff or other users that have been trained under research projects about the technology or process including 30% of women and 40% of ethnic minorities	<ul style="list-style-type: none"> 8260 persons have participated in training under research projects, 1058 extension staff 7201 farmers of which; <ul style="list-style-type: none"> 3765 are women farmers (52.3%) 3206 are ethnic minority farmers (44.5%). 		
	10. 30% of research projects that have strengthened linkages with private sector and have established a link with companies for marketing	23.2% of research projects have linkages with or are oriented to the private sector.		
	11. 100% of research projects increase from 10-20% of profitability in comparison with reality	Not yet evaluated for individual projects	Evaluation guideline to be prepared	
	12. 25% of research projects that address climate change adaptation and mitigation and environmental improvement	<ul style="list-style-type: none"> 52 research projects address climate change adaptation and mitigation and environmental improvement 41.6% of total 		
	13. 30% of women are project leaders	<ul style="list-style-type: none"> 36 women are science research project leaders 29% of total 		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
Sub-component 1.2 <i>Training of research staff</i>				
	1. 50 training courses for research Institutes attended by 1200 participants including 30% of women	<ul style="list-style-type: none"> 40 training courses for staff of Research Institutes 1194 participants 47% women 		
	2. 100% of training courses are evaluated input and output questionnaires and result report	<ul style="list-style-type: none"> 100% of training courses evaluated by trainees and reports prepared 40 courses presented 96% of trainees assessed that training course met their needs 75% trainees able to apply what they learnt 	Post-course evaluations to be conducted in Q2 2100	
	3. 50% of training courses for researchers held during the second half of the Project incorporate climate change mitigation and adaptation	Specific training courses on climate change mitigation and adaptation not provided, but content has been integrated into various other courses	Include in 2011 on-the-job training program (VAAS)	
	4. A study tour to Korea organized for representatives of Institutes, DSTI and CPMU	Study tour to Korea for 20 participants including 30% of women held in 2008.		
	5. 18 PhDs, 32 Masters Degrees and 5 Post-docs awarded	<ul style="list-style-type: none"> 18 candidates studying for PhD 36 candidates studying for Masters Degrees – 2 Masters degrees awarded 3 Post-docs fellows 		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
		- 2 post-docs completed		
	6. At least 10% of overseas candidates are women	Achieved 22.41% of women (13)		
	7. 30% of overseas study programs include environmental subjects	29.3% of candidates' overseas study programs address environmental subjects		
	8. 100% of candidates study overseas awarded certification or degree	<ul style="list-style-type: none"> • 2 Pos-doc candidates completed programs • 2 Masters candidates completed • 1 candidate has withdrawn 		
	9. 100% of candidates return to their organization after completion of training program	100% of candidates that have finished their training program have returned to their organizations		
Sub-component 1.3: Upgrade research and laboratory equipment	1. 100% of equipment procured by Project installed and utilized by 4 th quarter 2010	<ul style="list-style-type: none"> • 32 packages planned • 31 bid (97%) • 28 awarded (88%) • 25 utilized (78%) 		
	2. At least 75% of capacity of equipments installed and utilized effectively	<ul style="list-style-type: none"> • 89% of procured equipment has been utilized (25 of 28 packages) • Effectiveness of utilization not yet measured 		
	3. At least 80% of laboratories have installed preliminary environmental	Not yet evaluated; Institutes will be surveyed in Q3 2011		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	treatment facilities			
	4. 100% of equipment and machines meet Government of Viet Nam environmental standards	100% of procured equipment meets GoV environmental standards		
Data Sources and Reporting Mechanisms: (i) Monitoring by MARD and MPI and ADB review missions; (ii) Project monitoring system and progress reports, including inventories of equipment and staff lists; (iii) Midterm and completion reviews of the Project; (iv) Regular dialogue with key stakeholders involved in the national AST system		Data sources from: (i) annual, quarterly progress reports of research Institutes and project leaders (ii) Monitoring report of Agencies, Units under MARD and CPMU. (iii) ADB Review Mission Report, ADB Mid-Term Review Report (iv) annual review meeting (v) Requests to Institutes and project leaders (vi) Report of baseline and evaluation study		
Assumptions and Risks Assumptions: (i) The Government's plan for research institute reorganization implemented; (ii) Skilled staff retained in the national AST system; (iii) Adequate financial resources for proper operation and maintenance Risk: Inappropriate intervention into procurement and selection of trainees		Typhoon, storm and drought in central and southern regions effected progress of some projects. Three projects needed had to redo experimental trials		
Output 2				

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
Component 2 Grassroots Agriculture Extension Improvement				
Subcomponent 2.1 Pro-poor Provincial Agricultural Extension Services	1. Number of workshops held in 2008, 2009 and 2010 to identify extension priorities	<ul style="list-style-type: none"> 117 workshops identified extension needs have been deployed 6,306 participants <ul style="list-style-type: none"> 1822 women (28.9%) 1906 ethnic minority people (30.2%) 		
	2. Five provincial extension plans approved by MARD on March 2009	5 provincial extension plans approved by PPC and submitted to CPMU and ADB in 2009		
	3. Results from the survey of indigenous technical knowledge in 50 districts	<ul style="list-style-type: none"> 4 PPMUs conducted surveys of indigenous knowledge and prepared reports Survey will be revised and re-done in 2011 as part of value chain development consultancy 		
	4. TOT group has been established with number of 43 people (8 people in each province)	<ul style="list-style-type: none"> 5 TOT groups established 45 persons with 8 to 10 persons in each group 4 women (9%) 		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	5. Organized 270 training programs at 5 provinces, 79 districts, and 1,405 communes	Organized 658 training courses including: <ul style="list-style-type: none"> 62 courses for provincial and district extension staff 519 courses for grassroots extension staff 77 courses for extension service providers 		
	6. Training for 100 provincial agricultural extension staff, 400 district extension staff and 5,500 service providers.	Training provided for: <ul style="list-style-type: none"> 1238 provincial and district extension staff 13218 grassroots agricultural extension workers at commune and village level 2000 service providers 		
	7. 100% training courses are evaluated inputs, outputs and reports.	<ul style="list-style-type: none"> 100% training courses evaluated by participants; reports available for all courses – submit to CPMU by PPMU 		
	8. 5 training document files of 5 provinces have been completed with good quality and appropriate content.	Five provinces have documented training materials with good quality and appropriate content		
	9. 30% of the training material produced under the project is for	Not yet evaluated.		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	poor farmers with limited literacy, with illustrations and pictures			
	10. 50% of remaining training courses incorporate market linkages for the poor	Provinces will incorporate this in 2011 training programs		
	11. 70% of remaining training courses incorporate training on: gender mainstreaming, participatory method, and climate change, environmental, social, and health implications of agricultural technologies	Provinces will incorporate this in 2011 training programs		
	12. Organize agricultural extension study tour to Thai Lan for staff of 5 PPMUs, MARD and CPMU to Thailand conducted.	<ul style="list-style-type: none"> Conducted a study tour in Thailand with 24 participants (12/2008) 25% of participants are women. 		
	13. 12 domestic study tours for PPMUs, provincial, district extension staff and service providers.	<ul style="list-style-type: none"> 14 domestic study tours conducted by 5 PPMUs for provincial and district extension staff in 4 provinces 174 participants Women 13.8% of participants 		
	14. 50 study tours for local extension members and key farmers, including 10 trips to study business in safe vegetable / organic agriculture at Metro Supermarket or other enterprises in nationwide.	To be implemented in 2011		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	15. Number of extension information packages broadcasted on radio and television.	<ul style="list-style-type: none"> 6 programs on VTV from 26/3/2010 to 27/8/2010. 7 programs on VOA from 31/5/2010 to end of 2010. 		
	16. 60% of information packages on safe agricultural food production method are for poor farmers.	Not yet evaluated		
	17. At least 20% of the volume focuses on information technology and processes to reduce or adapt to climate change.	Not yet evaluated		
	18. At least 70% of poor and ethnic households in 157 project communes have access to information broadcast by project communication channel.	Not yet evaluated		
	19. Conduct a mobile phone trial to evaluate possibility of using mobile phone in information dissemination for poor farmers.	To be conducted in 2011		
Sub-Component 2.2 Promotion of extension contracts	1. 500 extension contracts will be awarded in 157 poor communes.	<ul style="list-style-type: none"> 539 agricultural extension contracts implemented 508 demonstration models (94%) 31 research trials (6%) 157 project communes. 		
	2. At least 20% remaining extension contracts will be research trial model	To be implemented in 2011 Up to now it is 6%		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	in the field.			
	3. 80% contract be awarded the remaining models of agricultural production, 5% marketing, 5% post-harvest technology; and 10% of production models in agriculture by biological measures and food safety	Not yet evaluated		
	4. At least 10,000 households participate in extension models	15179 households participated in agricultural extension models.		
	5. At least 50% of participants in the extension models are rural poor households	78% of households participating in agricultural extension models are poor households (11842)		
	6. At least 50% participants of extension models are women	<ul style="list-style-type: none"> 56.2% of participants in extension models are women (8530) 45.9% of beneficiaries of extension models are women (29797) 		
	7. At least 20% beneficiaries of extension models are ethnic minorities	35.9% of beneficiaries of extension models are ethnic minority people (23264).		
	8. At least 20% of the beneficiaries of extension models will become the key person in communes	Not yet evaluated		
	9. At least 5% extension contracts involve participation of private sector enterprises to develop local technologies or products for the	Information to be provided by PPMUs in 2011		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	market	70% of past extension models have been oriented towards environmental safeguards and environmental improvement		
	10. 100% of remaining extension models are oriented towards environmental safeguards and environmental improvement			
	11. 30% Farmers are invited to visit the demonstration models are women	<ul style="list-style-type: none"> 45.9% of beneficiaries of extension models are women (29979) Details on specific invitations to women to be provided by PPMUs for 2011 		
	12. 10% of extension contracts evaluated for economic efficiency, and social and environmental impacts	Based on current numbers, the target is 50 contracts To be addressed in 2011		
Data Sources and Reporting Mechanisms: (i) Monitoring by MARD and MPI (ii) ADB review missions; (iii) Project monitoring system and progress reports, including inventories of equipment and staff lists; (iv) Midterm and completion reviews of the Project; (v) Regular dialogue with key stakeholders involved in the national AST system		Data sources: (i) from progress reports of service providers, the provincial PMUs, (ii) monitoring reports of NAFEC, CPMU (iii) statistics of the provincial (Department of Statistics, the statistical office of the district (iv) the report periodic assessment and mid-term of the ADB mission (v) The reports meeting summarized in the end of year (v1) direct		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
		requests to PPMU (vii) Baseline and evaluation report		
Assumptions and Risks Assumptions: (i) Government procedures and regulations improved for the client-oriented AST system of the country (ii) Increased awareness among the stakeholder agencies about the need for client-oriented agricultural research activities				
Output 3				
Component 3 Rural -based Technical and Vocational training				
<u>Sub-component 3.1</u> Strengthening of management, teaching and curriculum improvement	1. Conduct a study tour in China for representatives of 10 schools and DOP and CPMU 2. 10 schools have strategic planning period 2010-2020. 3. At least 20 priority sectors to improve the curriculum developed for 10 schools	Study tour to China in March-April 2008 include 23 participants with 6 women (26%) Strategic Plans were completed by 10 schools in 2009. <ul style="list-style-type: none"> 11 curricula have been developed, with 96 training materials (books) 19 curricula will be developed in 2011 		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	4. At least 10% training materials integrated with marketing	No yet evaluated		
	5. At least 25% integrated curriculum to food hygiene and safety	<ul style="list-style-type: none"> 27% of Batch 1 curricula address food technology, food processing and food preservation 26% of Batch 2 curricula address food quality, food processing and food preservation Specific assessment of hygiene and safety not yet done 		
	6. At least 25 % curricula integrate issues of climate change and improve environmental conditions	All 30 curricula will be assessed for compliance with this requirement in 2011		
	7. 300 teacher / administrator trained in teaching methods, systems and procedures for compiling training materials	<ul style="list-style-type: none"> 473 teachers and administrators have been trained 136 women (29%) 		
	8. 100% of training courses evaluated inputs and outputs and report preparation	<ul style="list-style-type: none"> 100% of training courses evaluated by participants 83% assessed that quality of training courses was good 		
	9. 20 seminars organized by the 10	Held 10 workshops in 10		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	schools with the participation of companies, organizations and professional associations to assess the job opportunities for students after graduation	schools before the assigned program compiled Details on stakeholder participation requested but not yet provided		
	10. 20% of students in 10 schools were trained by the link project (contract) between schools and private companies or factories, where companies use the labor	Data to be supplied by schools in 2011		
	11. Number of books purchased for school libraries by AST Project with information related to environmental issues	Data to be supplied by Schools in 2011.		
	12. 100% schools of networked electronic library	<ul style="list-style-type: none"> 100% of school libraries are networked 		
	13. At least 75% of students and staff of schools satisfied with the electronic library system	<ul style="list-style-type: none"> To be evaluated Report on e-library action plan 		
	14. 100% schools adopt student management software and use it effectively	<ul style="list-style-type: none"> Will be monitored and evaluated in 2011 		
Sub-component 3.2 Invest in upgrading facilities, technology, equipment, books and teaching materials	1. 100% construction packages are completed and put into use in the fourth quarter of 2010.	<ul style="list-style-type: none"> 51 packages planned 47 bid (92%) 45 awarded (88%) 45 Procured (88) 44 utilized (86%) 		
	2. 100% of machinery, equipment and other construction projects meet the environmental standards of the Government of Vietnam	100% of procured equipment, machinery and civil works comply with environmental standards of		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
		Government of Vietnam		
	3. At least 80% of the laboratory is equipped to treat the preliminary environmental aspects	All school laboratories will be survey in 2011		
Data Sources and Reporting Mechanisms: (i) Monitoring by MARD and MPI (ii) ADB review missions; (iii) Project monitoring system and progress reports, including inventories of equipment and staff lists; (iv) Midterm and completion reviews of the Project; (v) Regular dialogue with key stakeholders involved in the national AST system		Data sources: (i) Reports of School (ii) PMU, DOP Monitoring report (iii) the report periodic assessment and mid-term of the ADB mission (iv) the report meeting summarized in the end of year (v) MTR report (vi) report of baseline and evaluation consultants (vii) report of e-library action plan consultant		
Assumptions and Risks: (i) Economic degradation impact to labor employee; (ii) National curriculum guides developed in line with the national sector goals; (iii) Labor market information effectively communicated to technical and vocational schools				
Output 4 Project management	1. CPMU established with 14 fulltime staff and 9 part-time staff 2. PPMUs established in five provinces with 27 full-time and 17 part-time staff 3. Establishment of IPMUs with 75	There are 23 staff working for CPMU including 14 full-time staff. There are 39 staff working for 5 PPMUs including 22 full-time staff. There are 75 part-time staff		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	part-time staff	working for IPMUs.		
	4. 80% of Project staff assessed as performing satisfactorily	Not yet evaluated		
	5. Two independent consultants selected to support CPMU and 5 extension specialist support 5 provinces	<ul style="list-style-type: none"> Two independent consultants completed in 2010 5 extension specialist appointed to support provinces <ul style="list-style-type: none"> 1 has completed 3 continue in 2011 Dak Nong specialists withdrew with 18 months to complete 		
	6. 29 person months of international consultants (7 specialists) and 96 person months of national consultants (8 specialists) supplied	<ul style="list-style-type: none"> 18.73 person months of International consultants mobilized (6 specialists) 98.43 person-months of national consultants mobilized (13 specialists) 		
	7. All consultants are to implement in line with their terms of reference	All consultants implement activities in line with their terms of reference.		
	8. There is at least one meeting/month organized between CPMU	Meetings held monthly and at other times when there is a need to discuss important issues		
	9. 100% of AST Project activities have	All project activities are		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	been monitored or evaluated	subject to M&E through the DMF and M&E system for project activities		
	10. A least 10 training courses on procurement, bidding, M&E and accountability for staff of CPMU, five PPMUs and 20 IPMUs	<ul style="list-style-type: none"> Organized 6 training courses on accounting, bidding, M&E and project management with 341 participants including 38% women. Additional M&E training scheduled for 2011 		

D. Activities with Milestones

Activities	Date	Progress	Assessment	Recommendations/ Actions
1. Client-oriented agricultural research and capacity strengthening				
1.1 Provision of research funding				
Organization and selection of 125 science research projects (Decision on 58 batch 1 client-oriented research projects, decision on 67 batch 2)	16/1/2009 and 14/6/2009	According to progress		
Organize training on research project management for 125 project leaders	June and 10/2009	According to progress		
Contracted and implemented 125 research projects	3-4 and 9-10/2009	According to progress		
M&E research projects implementation status	3/2009 – 12/2011	Was and in processing		
Mid-term reviews for batch 1 and batch 2	10/2010 and 9/2011	Batch 2 MTR in Dan Nang on 25-26 April 2011		
Occasional reviews and approval of 125 research projects	9 /2011 and 2/2012	Continuing – DSTE, CPMU and Consultants		
1.2. Provision of training courses				
Organize training in priority areas for staff of 10 research institutes	From 12/2008 to 2011	Was and in processing according to progress		
Select and send the candidates to abroad for oversea	2008 -2013	Was and in processing		

Activities	Date	Progress	Assessment	Recommendations/ Actions
training program				
1.3. <i>Provision of research and laboratory equipment</i>	2008 – quarter 4/2010	but slower than progress Target of 55 met; 2 Post-docs and 2 Masters candidates completed Continuing in Q1 2011		
2. <i>Grassroots agriculture extension improvement</i>				
- Identify priorities and develop provincial agricultural extension plans	2008 -2009	3 provinces according to progress		
- Establishment ToT team and organization of ToT teams training	2008 -2009			
- Survey local/indigenous survey	2009 -2010	4 provinces according to progress In Q2 2011 surveys redone with support of national Supply Chain Development Specialist		
- Capacity building training of extension staff and local extension service providers	2008 -2011	5 provinces according to progress		
- Provide equipments and facilities for provincial agricultural extension center and district AE station	2009	Completed according to target		
- Organize overseas study tour and domestic study tours	2009 -2011	According to progress		
- Select suitably qualified and experienced service providers and conduct bidding for extension contract	2008 -2011	2 provinces quicker than progress, 3 provinces slower		
- Implement extension contracts	2008 -2011	2 provinces quicker than progress, 3 provinces slower		
- M&E extension contracts	2008-2012			
- Organize impact evaluation of completed extension contracts	2011 -2012			
Implement National Information and Communication Program (survey, training, procurement, selection of providers and implementation)	2009-2011	Later than progress		

Activities	Date	Progress	Assessment	Recommendations/ Actions
3. Rural -based Technical and Vocational Training				
Organize workshops to develop strategic plans for 10 schools	2008 -2009	According to progress		
Organize workshops on training program and curriculum development and prepare action plan	2009	According to progress		
Organize training courses to improve capacity for teachers and staff of 10 schools	2009-2011	According to progress		
Organize overseas study tour	2009	To China in 2008		
Organize curriculum development for 11 schools	2009 -2010	According to progress; completed in 2010; additional 19 under development in 2011		
Assessment and approval of developed curriculum	2010 -2011			
Organize a workshop to identify curriculum needs and prepare plan to develop additional curricula	2010 -2012	Can Tho August 2010		
Organize English language training at each of the 10 schools	2009 -2010	According to progress		
Install and commission software of e-library network for 10 schools	2009 -2010	All schools networked		
Procure and install student management software	2010	Implemented		
Prepare bidding plan and implement civil work packages for 10 schools	2009 - 2011	Implemented – to be finalized in 2011		
Prepare equipment procurement and installation plans and bidding packages for 10 schools	2009 – quarter 4/ 2010	Implemented – to be finalized in 2011		
Review and approve equipment and construction in 10 schools	2010 -2011			
Assess impact of activities	2011 -2012			
Project Management				
Establish the Central Project Management Unit, IPMUs and PPMU	2007			
Issue technical guidance and legal document for project implementation	2007-2008			

Activities	Date	Progress	Assessment	Recommendations/ Actions
Establish Project Steering Committee	2008			
Select and engage and mobilize a team of consultants in accordance with ADB Guidelines on Use of Consultants	9/2008			
Capacity building training for management staff	2008-2011			
CPMU, PPMUs and IPMUs maintain project account records				
Quarterly progress reports prepared by CPMU on Project implementation for ADB and PSC	2007 – 12/2012			
Develop a M&E system to M&E project impact and performance effectively	2007 -2012			
Organize semi-annual and completion reviews of the Project	2010 and 2012			
Inputs: ADB loan: SDR 20,198,000: (i) Civil works: SDR 809,000; (ii) Equipments SDR 5,123,000, (iii) Vehicles SDR 24,000; (iv) Materials SDR 1,429,000, (v) Training SDR 4,276,000, (vi) Research/Extension contracts SDR 5,315,000, (vii) Consulting services: SDR 661,000; (viii) Incremental operating costs SDR 446,000; (ix) Interest charge SDR 415,000 (x) unallocated SDR 1,700,000 Government: \$10.0 million: (i) Civil works: SDR xx; (ii) Equipments SDR xx, (iii) Vehicles xx; (iv) Materials SDR xx, (v) Training SDR xx, (vi) Research/Extension contracts SDR xx, (vii) Consulting services: SDR xx; (viii) Incremental operating costs SDR xx; (ix) Interest charge SDR xx				