



Aide Memoire
6-13 April 2012

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

Asian Development Bank



Asian Development Bank

Southeast Asia Department

2 May 2012

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

Excellency:

**Subject: Loan 2283-VIE: Agriculture Science and Technology
– Loan Review Mission (6-13 April 2012)**

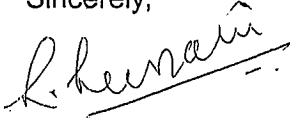
Enclosed is the Aide Memoire which summarizes the findings and understanding reached during the Mission. The Aide Memoire was discussed at the wrap-up meeting on 13 April 2011. Comments expressed at the meeting have been duly taken into account and have been incorporated into the Aide Memoire accordingly. We will appreciate receiving Ministry of Agriculture and Rural Development's (MARD) confirmation, and comments, if any, on the Aide Memoire by 15 May 2012.

We continue to commend MARD on the effective management 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:

- (i) Enhancement of gender mainstreaming to ensure that 40% of value of project activities, particularly research and extension components benefit women. To ensure that the target will be met, it was agreed that training activities in extension component will be exclusively for women for the remaining period of the Project.
- (ii) Strengthening of the implementation of the Monitoring and Evaluation (M&E) System for all project components, during and beyond the Project period, specifically for the research and extension activities;
- (iii) Submission of a proposal to document successful sub-project experiences and lessons learnt under the Project for nationwide implementation of Decree 115, Decree 2, and for PCR by 20 May 2012;
- (iv) Compliance with the environmental regulations of the Government and ADB, by research institutes and colleges, on the utilization of laboratory equipment;
- (v) Submission of the report on indigenous products and technologies with niche market potential by second quarter 2012,
- (vi) Implementation of the e-library system for 10 colleges by Q2 2011,
- (vii) Follow up on the State Bank of Viet Nam's letter to ADB requesting for the reallocation of loan proceeds, and
- (viii) Timely submission of Project Progress Report and submission of Audit Report for 2011 by June 2012.

We wish to convey our sincere appreciation to MARD for the kind assistance extended to the Mission and we look forward to our continued cooperation in implementing the Project successfully.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. H. Mir", written over a horizontal line.

Javed H. Mir
Director

Environment, Natural Resources and Agriculture Division

ASIAN DEVELOPMENT BANK
Loan No. 2283-VIE (SF): Agriculture Science and Technology Project
Aide Memoire of the Loan Review Mission
(6-13 April 2012)

I. INTRODUCTION

1. From 6-13 April 2012, the Asian Development Bank (ADB) fielded a Loan Review Mission¹ to Viet Nam to review the implementation of Loan No. 2283-VIE (SF): Agriculture Science and Technology Project (The Project). The Mission conducted comprehensive discussions with the Ministry of Agriculture and Rural Development (MARD) — Central Project Management Unit (CPMU), Department of Science, Technology and Environment (DSTE), Plant Protection Department, research team of 2 projects in Dien Bien Phu, Dien Bien Phu Department of Agricultural Extension, communestaff and farmer leaders and participating farmer.

2. The Mission (i) reviewed the implementation of the four components and update the project implementation schedule accordingly; (ii) followed-up on enhancing linkages between research and extension activities; (iii) reviewed the progress of private sector activities in the project i.e. in establishing inclusive value chain and in extension activities; (iv) discussed impact evaluation study and identify further studies required; (v) discussed the availability and timely allocation of counterpart funding; (vi) visited a research project in Dien Bien Phu province and SRI sites in Hanoi; (vii) reviewed contracts awarded and disbursements projections; (viii) followed up on submission of draft bidding document for the procurement of small-scale civil works and goods of remaining research institutes and schools; (ix) reviewed of farmer-managed on-farm trial activities; (x) reviewed the Borrower's compliance with the loan covenants; and (xi) reviewed achievement under the DMF, particularly on gender target.

3. The Mission concluded with a wrap-up meeting on 13 April 2012 in Hanoi, chaired by Mr. Nguyen Van Vinh, Deputy Director General of APMB, and attended by staff of MARD and representatives of other government agencies/organizations/stakeholders. A list of persons met and those present at the wrap-up meeting is shown in Appendix 1.

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 15 May 2012.

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 April 2011.

6. 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

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

(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.

7. 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.

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

II. REVIEW OF PROJECT IMPLEMENTATION

A. Overall Progress

9. As of 31 March 2012, the overall progress of the Project is estimated at 93.41% (Appendix 2) against the elapsed time of 87% since loan effectiveness. Despite the difficulties faced during the first 1.5 years of the project, the project was able to make up for lost time and achieved most of its outputs and outcomes effectively. Implementation progress for each Project component is as follows: Component 1: client-oriented agricultural research and capacity strengthening, 93%; Component 2: grassroots agricultural extension improvement, 92.93%; Component 3: rural-based technical and vocational training, 96%; and Component 4: project management, 89%. As of 31 March 2012, cumulative contract awards and disbursement achieved 75% and 84% of the net loan amount of \$31.15 million.

10. The Project has no major implementation problems but attention to environmental and social safeguard, gender mainstreaming, and indigenous targets should be further strengthened to enable the Project to achieve its full potential. Targets on domestic training, particularly for women, remains to be accomplished. Recent impact evaluation study conducted by independent consultant showed total project's EIRR at 20%. Successful experiences and valuable lessons learnt under this project should be further highlighted in the nationwide implementation of Decree 115. In this regard, proper documentation and preparation of policy brief for policy makers should be among the focus of project activities in the remaining project period. Counterpart funds are adequate from MARD and from all five provinces.

11. Significantly, the Project has contributed effectively to strengthen the national science and technology research, development and extension system for the agriculture sector of Viet Nam, leading to more equitable and sustainable growth. Competitive bidding process for awarding research and extension contracts has been effectively introduced, resulting in improved public expenditure management on agriculture research and extension. Outputs of

more than 50% of research projects are appropriate for the poor remote regions and are now further tested for extension. The bottom-up, participatory approach in extension activities has been effectively implemented by the PPMUs resulting in the Project achieving high outreach to impoverished marginal regions. Capacity building for vocational schools and colleges has effectively strengthened human resources for implementing the national plans. Training of research staff, including overseas degree and non-degree programs, short-term domestic training courses and study tours have contributed to the strengthening of technical and management capacity and have facilitated networking among researchers.

12. An in-depth impact evaluation study on economic return of activities in each component shows highly positive return on extension and client-oriented research components. In developing countries, project activities with economic internal rate of return (EIRR) over 12% are considered good. Results from the study show that EIRR from extension activities is as high as 68% and EIRR from research is at 52%. Despite the fact that impacts from project of this nature generally takes more than five years to materialize, the impacts of this Project is immediate and highly significant. It is expected that the positive impacts will increase overtime as the technologies promoted are further adopted in Project provinces and beyond. Replication of project activities through additional investment should seriously be considered by MARD. In addition to high rate of return on investment, the Project has effectively incorporated new issues under national plan in the project activities and put in place the foundation to implement the MARD Climate Change Master Plan and other national plans related to food safety. In-depth impact studies on the economic and financial returns to investment including the extent of public expenditure saving by the AST along with evaluation on the utilization of equipment procured by research institutes and schools were conducted from end of 2011 to early 2012. The draft reports have been sent to stakeholders for comment and will be finalized by May 2012.

B. Progress of Project Implementation

13. 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.

(i) Component 1: Client-Oriented Agricultural Research and Capacity Strengthening

14. **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.

15. As of 31 March 2012, 123 (out of 125) research projects (98.4%) were completed. Total disbursement for research projects reached on 31 March 2012 is VND 83.56 billion (91%). The remaining capital expected to be disbursed in 2012 is VND 8.63 billion upon acceptance of the Project review Council and submission of report to CPMU.

16. To date, the Research Project Review Council of MARD has reviewed and evaluated 90 out of 125 research projects. Evaluation results of the ministerial-level council showed that 25 of 80 research projects (31.25%) achieved excellent type (from 91-100 points of average), 52 research projects (65%) achieved good type (76-90 points) and only 3 research projects (3.75%) are accessed satisfactory (65-75 points). The Council selected 72 out

of 79 research projects for farmer-managed on-farm trials for possible further extension. The selected 72 research projects includes 42 research projects on crops (58.3%), 7 research projects on livestock (9.7%) and others on plant protection, land and forestry. It is expected that the researchers will sign contracts for farmer-managed on-farm trials in April 2012.

17. As of 31 March 2012, 6,538 households have participated in the research projects, 52% of which were female-headed households and 38% were ethnic minority households. To date, a total of 22,659 farmers and 1,216 extension staff have participated in training courses conducted as part of the research projects. Forty-eight percent of the participants in training were women farmers. Of the 125 research projects, about 38% address environmental issues, safe food production and climate change mitigation and adaptation, focusing on topics including: soil erosion control, land reclamation, agro-chemical management, biodiversity conservation, organic farming and VietGAP.

18. **Findings and Recommendations:**

- Of the 125 research projects supported under the Project, 79 are being proposed by researchers for further testing under farmer-managed on-farm trials, where researchers will only be providing technical supports but not farm inputs support (as variety, seed, fertilizer).
- As of 31 March 2012, 197 locally specified varieties of crop and livestock were selected from about 110 research projects. Productivity improvements were shown to have improved in the range between 10%-15% compared to control (current varieties of crop and livestock). The research projects also recommended new 242 production practices and implemented 291 demonstration models. Productivity improvement of the new production practices increased from 10-25% compared to control (current technologies and methods). Estimates of improvements in net profits range from 10%-25%, with some increased by 50%-70% compared to control.
- Data on impacts of the adoption of research results on household income are available for 86 research projects. Household income increased by 21-25% for 50 projects (60%), by 15-20% for 15 projects, and by 10-14% for 21 projects. All 125 client-oriented research projects will measure impacts on household income and will be reported in the final project reports.
- Since impacts of research projects generally become visible or measurable years after the research project completion. There is a need to ensure that successful research projects be monitored beyond the AST project period. In this regard, the Mission requested CPMU to work with DSTE to transfer the central database of baseline and impacts of research projects to DSTE so that medium and long- term impacts could be monitored beyond the AST project period.

19. **Training of Research Staff.** The subcomponent addresses the shortage of qualified research staff by providing short-term on-the-job training and postgraduate and postdoctoral study programs for the staff of agricultural research institutes and other institutions of the national AST system. The on-the-job training will enable staff to more effectively utilize existing laboratory equipment and facilities and that procured under the Project, and improve their knowledge and skills to manage sophisticated facilities. DOP continues to oversee activities under this sub-component.

20. **Overseas Training.** The AST Project target to support 55 candidates to study abroad for post graduate degrees has been exceeded with 57 candidates sent for overseas training.

There were savings on tuition fees which were used to support two additional candidates who commenced their degree programs in 2011. 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. Overall, women represent almost 22.8% of the total candidates. Eighteen Masters Degree candidates and three doctoral Degree candidates have completed their programs and have returned to their respective institutes to apply the new knowledge gained in their studies. Two candidates for PhD degrees have withdrawn one for health reasons and the other due to language difficulties and both have returned to work in their institutes. With the extension of the project, all remaining students will be able to complete their studies within the Project period.

21. Findings and Recommendations

- Overall progress of this component has been satisfactory. The three post-docs have completed their overseas programs and are now working in their institutes. A total of 17 (30%) of Masters Degree candidates have successfully completed their overseas study program.
- A total of two short overseas training courses were organized to Taiwan in 2011, and one study tour for researchers to South Korea was organized in 2010. In 2012, a short course training on climate change for management staff of MARD will be organized in May 2012 to USA. The Mission recommends the CPMU to continue to monitor impacts and report their improved performance, if any, of participants who attended the courses.

22. Local Training. The activities in this sub-component were largely completed in November 2011. A total of 48 training courses have been conducted by the CPMU with coordination provided by Vietnam Academy of Agricultural Sciences (VAAS) with 1,467 participants, of which 47% were women. This exceeds the target participation level by more than 200 persons, although the number of courses was just two less than the target of 50. Overall assessment of the training courses by participants has been high with the majority indicating that course content met their needs (median assessment for 2010 courses was 96% and 91% for 2011 courses) and that they would be able to apply what they had learnt in their work place (median assessment for 2010 courses was 75% and 82% for 2011 courses). Of the 48 courses, post evaluation was conducted on 40 short-term training courses conducted from 2008 to 2010. Post-course assessments were sought from trainees and their managers or supervisors six months or more after attending the training course. Individual questionnaires were sent to 578 trainees from 17 institutes including staff from the 10 institutes participating in the AST Project. Responses were received from 442 trainees which is equivalent to a 77% response rate. As a number of the trainees attended more than one training course a total of 545 individual responses were received, from a total of 770 sent out (71% response rate from trainees). Responses were received from 418 managers or supervisors of the trainees, which is a 54% response rate. Trainees considered that all 17 training course topics were relevant to their individual needs whereas the managers considered that 16 were relevant to the needs of the institute. They considered that the course on macro-economic modeling was not relevant. The trainees assessed that 16 of the 17 courses met more than 70% of their needs while the managers' assessments were that 12 courses met greater than 70% of needs. The majority of trainees were able to apply the skills learnt during training, and in most cases they could apply between 50 and 90% of the skills taught. For two courses they were able to implement less than 50% of the skills taught at the course (website design and GIS for environmental impact assessment). Managers' assessments concurred with those of the trainees. A majority of trainees indicated an increase in their work effectiveness and the quality of their output with two

exceptions - website design and macro-economic modeling. Managers indicated that trained staff demonstrated increased effectiveness for 10 of the 17 courses and improved work quality for 12 of the courses. With the exception of the macro-economic modeling course all trainees considered that their work attitude had improved since the training. Managers assessed that trainee's attitudes had improved in all but two course areas - GIS methods and macro-economic modeling. Almost 80% of the trainees indicated that they had shared their knowledge and skills from the training with an average of 6 other work colleagues. The majority of training courses aligned with the needs of individuals and their research institutes with three exceptions. These were technical topics requiring a specific level of pre-existing knowledge and experience. It is likely that for these courses the attending trainees did not meet these pre-requisites and found the material challenging and difficult to apply.

23. Findings and Recommendations:

- Overall implementation of this sub-component by VAAS has been highly satisfactory. Post-course evaluation has been conducted with positive results for the individuals and institutes, in line with their training needs.
- During the last review, it was agreed that in order to support the implementation of Decree 115 and given the need to enhance knowledge and skills on climate change related research in agriculture, additional funds will be allocated to conduct training courses on research proposal writing, carbon accounting, life-cycle analysis of green house gas emission, CDM related methodologies and analysis, and other relevant courses. Distant learning modalities should be explored by VAAS in reaching large number of researchers in research institutes in remote areas. Training need assessment is on-going and, based on the results of the assessment, the course will be conducted during the second half of 2012.

24. 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.

25. Total procurement packages for this sub-component is 46 (33 original and an additional of 13 approved by ADB in September 2010). Forty-two procurement packages have been awarded, 37 of these contracts have been installed as of 31st March 2012, and bidding is ongoing for the remaining packages. Equipment installation and necessary training are expected to be completed in Q2 of 2012. 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.

26. A summary of the ADB environmental safeguards policy and the Project environmental management plan (EMP) were sent to all 25 participating project management units and research project leaders. The checklist for Rapid Environmental Assessment on safe discharge of waste from laboratory equipment has been provided to all institutes/schools for their use.

27. Findings and Recommendations:

- Evaluation report on equipment using effectiveness of schools/institute is still on-going. It is requested that upon receiving feedbacks on draft report from project institutes/schools and CPMU, the consultant should finalize it in combination with the environmental impact evaluation for submission to ADB in Q2/2012.

- Monitoring of utilization and maintenance of equipment and compliance to environmental regulations of the Government and ADB environmental safeguards could be further improved in the remaining period of the Project.
- Due to increase of SDR/USD against VND, seven additional packages for equipment value at 735,000 USD will be procured in 2012. The documents have been approved by MARD and the review by ADB is on-going with expected approval in end of April 2012.

(ii) Component 2. Grassroots Agricultural Extension Improvement

28. 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.

29. **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.

30. Extension activities are on-going in all five provinces. Implementation progress in four provinces remains on track based on revised implementation plans. In Dak Nong, the delay in project progress during 2 first years due to constraints in human resources has been improved.

31. A total of forty-five extension staff from five provinces has participated in the Training of Trainer (TOT) program. Only 4 of the TOT members are female, equivalent to 9%. A total of 986 training courses have been conducted for 30,314 extension personnel, including extension service providers. Of the 1472 extension staff trained at the sub-district level, 22.8% were female and 27.2% were ethnic minorities. One hundred and one training courses have been organized for service providers since 2008 with 258 participants of which almost 29% were female. Since 2008, 804 courses were organized for 20,184 provincial and district extension workers with 22.8% female participants. Female extension staff in the provinces ranges from 30-35%. In 2011 NAEC conducted 18 training courses for 452 provincial extension staff in which women participants were 37.6%.

32. Networks of exchange for extension workers have been established through overseas study tours to Thailand (December 2008) and Taiwan (April 2011) and 16 in-country, visits organized by 5 provinces-Thanh Hoa (3), Ninh Thuan (3), Quang Nam (4), Nghe An (5) and Dak Nong (1) for staff of the PPMU, extension centers and extension service agencies totaling 197 people at 31 October 2011. Training on extension M&E was organized for all project provinces in Thanh Hoa in July, 2011 with a total of 20 project/extension staff (25% Female.). Beside, provinces organized training courses on M&E for monitoring officer at district and communal level and service providers in each province from 1 to 3 training courses.

33. 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. As of March 2012, a total of 20 programs were developed and broadcast on Radio and TV station.

34. **Findings and Recommendations:**

- Project activities under this component have slipped in a major way on gender and indigenous people targets during the past year. With the target of training 40% female participants in training courses, currently female participants are only 9% for TOT members, 28% of extension staff trained, and 29% of service providers trained. To ensure the Project is doing its utmost to achieving the gender target, the Mission requested that all training activities to be conducted in the remaining months of 2012 are exclusively for female, including conducting domestic study visit.
- Quality of training course, training materials, and communication program remain a concern and greater attention needs to be directed towards poor and illiterate women, particularly indigenous people. NAEC is in the process of producing new training materials for poor participants but they are yet to be available for review by the Mission. It is agreed that the training materials, including multi-media awareness raising materials be sent to ADB as soon as they became available in May 2012.

35. **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.

36. As of 31 March 2012, the five provinces had implemented 540 demonstration models and 33 research trials (5.7%). Demonstration models for the provinces are: 211 demonstration models and 5 research trials in Thanh Hoa, 125 demonstrations models and 9 research trials in Nghe An, 83 demonstration models and 7 research trials in Quang Nam, 83 demonstration models and 9 research trials in Ninh Thuan, and 38 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 5.7% to date is strongly influenced by the level in Thanh Hoa, where just 5 (2.6%) of the 216 contracts implemented have been research trials. In Dak Nong, while the number of contracts has been relatively low 7% have been research trials. In Ninh Thuan 10% of contracts have been for research trials. The demonstration models include 356 livestock models (63%), 168 crop production models (29.3%), and other types such as fisheries and mechanization of agriculture models account for 9%.

37. The evaluation and acceptance result of 527 demonstration models revealed that: 416 demonstration models (79.5%) are good, 107 models (20.3%) are moderately good; and only 4 models in Dak Nong on livestock are not satisfactory due to disease break out. Four hundred thirty six of 527 (83%) demonstration models have 16-25% higher productivity compared to current average. The national value chain development specialist conducted a training course on survey methods and data analysis to representatives from each PPMU to guide them conduct of surveys of indigenous knowledge and possible marketable products. As of 31 March 2012, two PPMUs completed the survey and are now preparing the report. Two provinces are conducting survey and the last province (Thanh Hoa) will conduct the survey in Quarter 2 2012. The delay in data collection in the five provinces has slowed progress of the value chain development for indigenous products. A final report is expected to be completed in Q2 2012.

38. Following a recommendation of the ADB review mission in April 2011, a national consultant has been appointed to explore information dissemination to farmers through ICT technologies including mobile phones (SMS) and teletext. A survey of farmers in Thanh Hoa has been conducted. The consultant reviewed experiences of using various media to send

information to farmers and will assess their feasibility for use by the Project and on process of preparing a report expected completion in Q2 2012.

39. As of 31 March 2012, there have been 234 service providers participating in the bidding process in 5 project provinces, with 160 service providers awarded the contracts to implement 562 extension models. Since 2010, increased number of non-government service providers participated in the bidding process, raising competitiveness and quality of extension services in the project areas. An assessment of extension service providers study, found that competition varied among the five provinces, with one PPMU (Quang Nam PPM) awarding contracts to just one type of organization (DAESxxx) while contracts in other provinces spread among six to nine different types of organizations.

40. Under Component 2.2 the PPMUs were required to implement both field demonstration models and participatory on-farm research trials. Demonstration models accounted for 94% of all extension trials. Since identification of extension needs is a bottom-up process with priorities set each year using a participatory process involving farmers. Where suitable technologies exist, farmers' needs are best met through field demonstration models. Where technologies or suitable solutions are not readily available, the need should be relayed by the extension service to identify suitable research institutes to conduct research trials to verify the technologies under farmer-managed on-farm trials prior to demonstration extension.

41. Findings and Recommendations

- Since the Project is the first in piloting competitive bidding of extension contract and have successfully overcome the initial difficulties, the Project experiences and lessons learnt should be regularly summarized and provided to MARD in supporting the implementation of Decree No. 2. Systematic sharing and exchange at provincial levels should also be institutionalized.
- To achieve the gender target of the Project, the Mission requested that all extension contracts for 2012 be awarded only if it includes 70% of female as beneficiaries of the extension contract.
- For Quang Nam province where extension contracts are awarded to only one type of organization, the Mission requested CPMU to look into the matter and recommend corrective measures to ensure fair competition and effective project implementation. The report of corrective measures and outputs are to be reported in the next project report.
- The achieve the Project target on training for women, which is far below the goal, additional training in 2012 for for extension workers and service providers on (i) gender mainstreaming; (ii) participatory method; (iii) participatory group guarantee for market access, and (iv) climate change, water management, environment, social, and health implications of agriculture technologies are to be conducted exclusively for women.
- The Mission reiterated the need to increase number of extension contracts on market access of products produced by the poor. Engagement of private sector firms and local traders in promoting contract farming of green food and inclusive value chain should be further promoted.

(iii) Component 3. Rural-Based Technical and Vocational Training

42. 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.

43. The activities under this subcomponent are making steady progress. The 10 schools completed development of first 11 training programs and 76 sets of training materials (curricula). Nineteen additional training programs were identified in August 2010 to be developed in 2011. At 31 March 2012, 19 training programs have been developed and 89 sets of training materials, of which 76 have been approved. Each of the 10 schools has established a Curriculum Development Executive Board, involving a private sector representative.

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

- (i) Ten courses on "Developing Training Curricula" for 261 participants (27.6% women participants)
- (ii) Five courses on credit transfer system for 205 participants (24% women)
- (iii) Three courses on compiling training materials for 86 participants (32.6% women)
- (iv) English training courses were organized at each of the 10 project schools for school leaders and teachers (15-20 participants in each school).

45. In addition to domestic training, two overseas study tours were organized to visit People Republic of China in 2008 and to Thailand in 2012.

46. To identify causes of low level of participation of women in training conducted in participating college, a review on gender distribution of participating college found that female staff ratios have been increasing in all ten schools since 2007, however the range is wide with one school approaching 70% female staff and another with less than 10% female staff. The review proposed that an achievable target for participation of women in Component 3 activities is 35%. To date, female participation in training courses under the project has been 28%.

47. 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 and laboratory equipment for the 10 vocational training schools. Draft bidding documents and bid evaluation reports for the remaining packages continue to be prepared and submitted for ADB approval. Out of a total of 66 packages (14 for civil works and 52 for equipment), 14 contracts for civil works have been awarded while 52 contracts have been awarded for equipment. A summary of the status of the procurement of packages is in Appendix 6.

48. Findings and Recommendations

- The Project is supporting the establishment of an e-library system (350,000 USD) to facilitate sharing of knowledge products and information among 10 schools in association with the Center for Information and Statistics under MARD. Purchase of hardware and software is expected in Q2 2012. The Mission requested CPMU to ensure the e-library system be functional by Q3 2012.
- Gender disaggregated data has been collected showing that women participation training activities should be increased to 35%. The Mission requested that actions be taken to achieve this in the remaining period of the Project.
- The Mission requested CPMU to ensure the high quality curriculum developed under the Project and that specific impacts of study tours to the institutes and their students be monitored and reported in the Project Progress Report.

(iv) Component 4: Project Management

49. 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.

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

- **Downsizing of Project team:** With the project approaching completion, staff in IPMU has declined by 50%, PPMU by 30%, and CPMU by 20%. The downsizing will continue along with revision of TOR for remaining staff.
- **Project monitoring system.** The Mission requested CPMU to pay greater attention to the Project monitoring system in all components. Although the Project is approaching its final year, there is still a need to further identify key indicators to monitor project activities, outputs, outcomes and impacts.

Documenting lessons learnt under the Project. To share the successful experience in the project implementation and to inform MARD in nationwide implementation of Decree No. 15 and Decree No. 2, the Mission recommended that individual consultants be engaged to assist CPMU to carry out this activity. A proposal containing list of successful items to be documented, format of outputs, TOR of consultants, and budget is to be submitted to ADB by 15 May 2012. Suggested topics to be documented include, but not limited to: strong and weak points in implementing research contracts, extension contracts, bidding process, linkages between research and extension, roles of vocational school in extension activities, participatory guarantee systems at the Northern College for Agriculture and Rural Development in Xuan Mai town, etc.

C. Procurement of Civil Works, Goods and Services

51. 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:** Forty-two contracts for research and laboratory equipment have been awarded (37 of which have been installed as of 31 March 2012). Draft bidding documents and bid evaluation reports for the remaining 10 packages continue to be submitted for ADB approval. The installation and necessary training are expected to be completed in Q2 2012. Procurement of three additional packages for research equipment has been proposed utilizing savings generated from previous packages. The Mission will seek necessary approval upon its return.
- (ii) **Component 2:** The procurement of office equipment for the PPMUs and extension equipment for agricultural extension at district level has been completed. In July 2011, ADB approved four additional packages to strengthen extension information dissemination activities. As of 31 March 2012, one package (DVD) was contracted and is being implemented. One package (material preparation) is in bidding process and two packages are waiting the result of two above packages.
- (iii) **Component 3:** A total of 66 packages (14 for small-scale civil works and 52 for library, laboratory, teaching and office equipment) have been awarded. 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 early 2012. Procurement of four additional packages has been proposed utilizing savings generated from previous packages. The Mission will seek necessary approval upon its return.

52. The Mission supports the procurement of the additional packages for equipment and it, together with CPMU, updated the Procurement Plan for the remainder of the project period. The Mission supports the changes as reflected in Appendix 7 and will seek necessary approval upon its return. The approved procurement plan will be posted on the ADB website.

D. Consulting Services

53. **Status of Consulting Firm Inputs.** Of the 177.8 person-months of consulting services inputs (29 international and 148.8 national), 157.68 person-months (24.57 international and 133.11 national) have been utilized as of 31st March 2012, equivalent to 89%. The schedule of consultants' inputs is presented in Appendix 8.

54. Regular meetings between CPMU, implementing agencies, and the consultants are held to update each other on key project issues and outcomes. The relationship between the consultants and the CPMU has strengthened over the course of the Project with a high level of cooperation for all Project activities. Relations between the consultants and MARD partner departments and agencies are satisfactory, limited to some extent in 2011 by the completion of the extension and vocational training consultants in 2010.

55. As a result of the last Mission's recommendation, ADB approved a fourth variation to the consulting firm's contract on 26 July 2011 which includes mobilization of the specialists for the remaining project period, replacement of some specialists as well as the extension of the contract for 1 more year without the increase in the total consultant contract value.

56. **Status of Individual Consultants.** As of 31 March 2012, the Project had engaged 7 national consultants (extension specialists for the 5 provinces, a training consultant, and a CPMU coordinator) for a total of 204 person-months input. Five consultants have completed their inputs and two withdrew from project due to personal reason. To date, 183 person-months have been delivered (Appendix 8). The CPMU is to verify if underutilized funds under other categories could be moved into consultant service and if so a possibility of extending the inputs of the team leader to provide support on project completion report in 2013 should be considered. CPMU is to report the outcome to ADB by 15 May 2012.

57. **Status of Consultancy Projects:** In November 2010, additional consultancy projects commenced, following recommendations of the ADB Midterm Review. Update on the consultancies are as follows:

- (ii) The Value Chain Development Specialist has not completed his project due to delays in data collection. He provided training on survey methods and data analysis to the PPMUs in June 2011. However at 31 March 2012, four PPMUs (Nghe An, Quang Nam, Ninh Thuan and Dak Nong) had conducted indigenous knowledge and product survey. The consultant will complete his assessments of the potential of indigenous products and technologies for niche market development by Q2 2012;
- (iii) A national consultant is investigating the utilization of information dissemination channels by farmers in Thanh Hoa province and assessing farmers' demands for information and how they acquire it. In particular this project is assessing the

potential of teletext. The report is being prepared and will be submitted in 2nd Quarter of 2012;

- (iv) Three consultants have been appointed as part of contract variation 4 to assess the impacts of investments made under the AST Project. One of these is a national specialist who will assess the utilization of equipment procured by research institutes and schools under the project. The other two are the international and national impact assessment specialists who will assess the return to investment in activities in each Component of the Project. These evaluation projects commenced in October 2011 and completed in March 2012; and
- (v) The national agricultural research management specialist (NARMS) (Deputy Team Leader) and the national agricultural vocational training specialist (NAVTS) were extended to support the continuation of the Project in 2012. A national project evaluation specialist consultant (NPES) has been appointed to assist CPMU with preparation of the Project Completion Report. A draft schedule of consultant inputs has been prepared with most finishing contract commitments. The NARMS and NPES consultants will distribute their inputs throughout finishing in December. They will be supported by the National Communication Specialist who will assist with translation of final reports and supporting documents.

E. Project Reporting

58. The last Project Progress Report submitted to ADB was for 3Q 2011. Timely submission of Project Progress Report has been reiterated by the Mission in previous reviews. The quality of Progress Report submitted has improved but could be further enhanced to be in line with the indicators and targets specified in DMF. Project outcomes, outputs and impacts should be included in the reports. Timely submission of report is reiterated again here by the Mission.

F. Project Costs and Financing

59. **Contract Awards and Disbursement.** As of 31 March 2012, the CPMU reported total disbursement of VND 705 billion (approximately \$35.26 million) comprising of VND 535 billion (approximately \$26.78 million) of ADB funds and VND 170 billion (approximately \$8.48 million). A schedule showing overall project expenditure to date is in Appendix 10.

60. The status of ADB Loan utilization as of 31 March 2012 can be found in Appendix 11. The dollar-equivalent value of ADB's loan (SDR 20.198 million) is \$31.15. The cumulative contract awards and disbursements of loan proceeds were \$23.47 million and \$26.02 million, respectively. To date, achievements against the 1Q 2012 projections are 37% (\$0.27 million against \$0.74 million) for contract awards and 50% (\$0.60 million against \$1.20 million) for disbursements.

61. **Reallocation of Loan Proceeds.** The Mission and CPMU discussed the need for a reallocation of the loan proceeds to ensure that the Project's outputs will be met until the remaining period. Details of the proposed reallocation are presented as Appendix 13. Reallocations need to be done for the following:

- (i) Procurement of additional equipment packages for research institutes and the technical and vocational training schools.
- (ii) Procurement for the establishment of the E-Library system under Component 3.

- (iii) Trainings for curriculum development of the ten schools, proposal writing and carbon accounting for researchers, and short-term overseas training programs on climate change.
- (iv) Provision for additional farmer-trial extension demonstrations.
- (v) Engagement of individual consultants to assist CPMU in writing reports, documenting lessons from the Project for policy makers, and preparation of project completion report.

62. MARD will request the Borrower (SBV) to send a formal request for reallocation of loan proceeds to ADB. A notice will be sent to SBV and MARD as soon as the approval is obtained.

63. **Audited Financial Statements.** The Audited Financial Statements (AFS) for the period 2011 is due for submission to ADB on 30 June 2012. Independent auditors were mobilized end of February 2012 and auditing is on-going. It is expected that audit report will be submitted to CPMU in May and submitted to ADB in June.

64. **Counterpart Funds.** Of the VND 22.1 billion counterpart funding requirement reflected in the Project's projected expenditures for 2012, all has been committed. An amount of 16.6 billion VND has been committed by the Central Government for expenditures covering Components 1, 3, and 4; while a total of VND 5.5 billion has been committed by the five participating provinces for activities in Component 2.

65. CPMU reported that counterpart funds for 2012, including that for all PPMU in five provinces, are already committed and will be sufficient for activities in 2012.

G. Benefit Monitoring and Evaluation

66. Project impact evaluation team (including 1 international and 1 local consultant) was mobilized. They conducted evaluation of economic benefits and return investment of project activities. The report completed in January 2012 has been waiting for comments of stakeholders for completion of Q2/2012.

67. Preliminary results of economic internal rate of return as follows:

Component	EIRR value, %
4.2. Client-oriented agricultural research programs and capacity strengthening	
4.2.1. Client-oriented research programs	50-52
4.2.2. Training of Research staff	2.3-2.7
4.2.3. Upgrading of research and laboratory equipment	-1.7-1.7
4.3. Grassroots agricultural extension improvement	
4.3.1. Promotion of extension contracts	68-73
4.4. Rural-based technical and vocational training	36-41
Overall project	20

68. The high range of variation in EIRR among components is noted and review of methodology and representativeness of the results are being done. The low rate of return on equipment is due to the fact that only cash benefits from use of equipment are included. The low rate of return on training of researchers is due to the use of increased in salary as key benefits, which may not be appropriate. Despite these shortcomings due partly to availability of data causing low rate of return in these two project components, it is noted that overall rate of

return is at 20% which is far higher than a general acceptable project EIRR of 12% for projects in developing countries.

69. **Revised Indicators for the Design and Monitoring Framework (DMF).** The Mission revisited the DMF in the original loan document (the report and recommendation to the President) and noted the need to update some indicators to better reflect the Project outputs. For example, for output on capacity of rural-based technical and vocational training strengthened, a new indicator on increased in average number of applicants by at least 25% is added. The revised DMF is enclosed as Appendix 15.

H. Environmental and Social Safeguards

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

I. Compliance with Loan Covenants

71. The Mission finds the loan covenants to be generally complied with. Weaknesses On gender, environment, and social safeguards will be corrected in the remaining period of the Project. The Project Steering Committee meets twice a year, independent of other project activities i.e., wrap-up meeting of ADB Mission, to effectively guide and resolve issues on the Project. An updated schedule of covenants is given in Appendix 12.

IV. ACKNOWLEDGEMENTS

72. The Mission would like to thank MARD especially the following agencies: ICD, APMB, CPMU and the Consultants, DOP, DSTE, NAEC, SBV, and the IPMUs of Northern College for Agriculture and Rural Development, Field Crop Research Institute, and Northern Water Resources College for their help and cooperation during the Mission's visit. The next loan review mission is tentatively scheduled for September 2012.

Sununtar Setboonsarng
Hanoi, Viet Nam
13 April 2012

APPENDIX 1: LIST OF PERSONS MET

1. Central Project Management Unit - AST:

1.1 CPMU

Nguyen The Hinh – Deputy Director of APMB – Director of AST project
Le Thi Nhung – Technical Assistance Staff
Vu Tien Dung – Deputy Director
Nguyen Thi Minh Huong – Planning Department Staff
Pham Thi Tra Vinh – Technical Staff
Nguyen Thi Viet Ha – Project Accountant
Bui Thuy Linh – Project Accountant
Nguyen Thi Ngoc Lan – Administration Staff
Hoang Thi Thu Hằng – Administration Staff
Nguyen Thi Thanh – Administration Staff

1.2 Consultants

Nguyen Thi Lan – Deputy Team Leader – National Agricultural Research Management Specialist
Trinh Van Tien – Value-chain Development Specialist
Hoang Anh Tuan – Chuyên gia đánh giá dự án
Nguyễn Văn Chiến – Chuyên gia đánh giá hiệu quả sử dụng thiết bị
Nguyễn Thị Loan – Chuyên gia môi trường
Trần Thị Phương Dung – Chuyên gia truyền thông

2. Department of Science and Technology

Nguyen Tan Hinh – Deputy Director
Tran Thi Dinh – Expert

3. Dien Bien Provincial Agro-forestry Extension Center – participants in potato research project

Nguyen Thi Tuoi – Director of Provincial Agro-forestry Extension Center
Tran Van Tan – Head of Crop Production Department
Bui Van Hong – Head of village
Nguyen Van Duy – Member of Communal Party Committee
Hoang Thi Ly – Tay Ethnic Farmer
Tran Thi Hue – Nung Ethnic Farmer
Lo Thi Men – Nung Ethnic Farmer
Nguyen Thi Ha – Nung Ethnic Farmer

4. Participants in intercropping in rubber estate research project

Ca Van Loi – Head of District Ethnic Department
Luong Van Toan – Black Thai Farmer
Luong Van Lanh – Black Thai Farmer
Luong Thi Diu – Black Thai Farmer
Quang Van Thuong – Black Thai Farmer

5. International Cooperation Department

Ho Thi Minh Chau – Director – Multi-lateral Cooperation Department – ICD

6. Plant Protection Department and Rice Production Model in Dai Nghiax – Ha Tay-Ha Noi

Do Danh Kien – Deputy Director of Hanoi Plant Protection Bureau
Ngo Tien Dung – Deputy Director of Plant Protection Department
Do Hong Khanh – Deputy Head of Plant Protection Division

Nguyen Duc Trung – Staff of Hanoi Plant Protection Bureau
Le Ngoc Thach – Chairman of Cooperative

10. Wrap-up meeting



Appendix 2: Physical Progress Computation as of 30/03/2012

	Activity Progress			Subcomponent Progress		Component Progress	
	Weight	Progress (0 to 100)	Weighted Progress	Weight	Weighted Progress	Weight	Weighted Progress
I. Client-oriented Agricultural Research and Capacity Strengthening					93.08	43.94%	40.89
Client-oriented agricultural research programs			100.00	34.95%	34.95		
a. Identification of research needs	36.36%	100	36.36				
b. Procurement of needed materials and equipment	15.15%	100	15.15				
c. Use of research funds for selected programs	48.48%	100	48.48				
Training and post-graduate programs			89.33	29.14%	26.03		
a. Preparation of programs	13.33%	100	13.33				
b. Application and selection	33.33%	100	33.33				
c. Program implementation	53.33%	80	42.67				
Upgrading of equipment			89.38	35.91%	32.10		
a. Equipment specification and tendering	34.38%	95	32.66				
b. Procurement and installation	28.13%	95	26.72				
c. Training for equipment use and maintenance	37.50%	80	30.00				
II. Grassroots Agricultural Extension Improvement					92.93	21.76%	20.22
Provincial plans for pro-poor agricultural extension services	100.00%	100	100.00	20.00%	20.00		
Training programs for trainers, extension staff, and grassroots service providers			90.00	40.35%	36.32		
a. Extension module development	11.36%	90	10.23				
b. Preparation of programs	25.00%	90	22.50				
c. Application and selection	27.27%	90	24.55				
d. Program implementation	36.36%	90	32.73				
Provision of on-farm demonstration trials	100.00%	90	90.00	3.52%	3.17		
Contractual agricultural extension services			92.50	35.74%	33.06		
a. Establishment of a contractual management system	25.00%	100	25.00				
b. Extension contracts	75.00%	90	67.50				
Capacity strengthening of local extension centers			100.00	0.39%	0.39		
a. Equipment specification and tendering	36.36%	100	36.36				
b. Procurement and installation	63.64%	100	63.64				
III. Rural-based Technical and Vocational Training					96.00	25.25%	24.24
Training programs for teaching and administrative staff			87.20	3.48%	3.04		
a. Preparation of programs	20.00%	100	20.00				
b. Application and selection	32.00%	100	32.00				
c. Program implementation	32.00%	60	19.20				
d. Support for developing curriculum guides	16.00%	100	16.00				
Upgrading of library and laboratory facilities			96.32	96.52%	92.96		
a. Equipment specification and tendering	26.32%	100	26.32				
b. Procurement and installation	36.84%	95	35.00				
c. Training for equipment use and maintenance	36.84%	95	35.00				
IV. Project Management Support			89.00		89.00	9.05%	8.06
Establishment of provincial/institute project management units	10.00%	100	10.00				
Recruitment of implementation consultants	10.00%	100	10.00				
Procurement of vehicles and equipment	10.00%	100	10.00				
Appointment of incremental project staff	10.00%	100	10.00				
Establishment of a project steering committee	10.00%	100	10.00				

Monitoring of project activities	10.00%	90	9.00				
Financial auditing	10.00%	80	8.00				
Quarterly progress reporting	10.00%	90	9.00				
Midterm review	10.00%	100	10.00				
Project Completion Review	10.00%	30	3.00				
Overall Progress (%)							93.41

APPENDIX 3: REVISED PROJECT IMPLEMENTATION SCHEDULE MARCH 2012

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
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																				
C. 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																				
D. 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
(TO 31/3/2012)**

\$ ' 000

Component	Items	Adwarded (ADB + GoV)	Disbursement to date (ADB + GoV)	Percentage Achieved(%)
I	Client-oriented Agricultural Research and Capacity Strengthening	16,818	15,984	
1	Equipment	6,324	6,089	0.96
2	Training	5,372	4,913	0.91
3	Extension contracts	5,122	4,982	0.97
II	Grassroots Agricultural Extension Improvement	8,759	8,288	
1	Equipment	1,194	1,194	1.00
3	Training	2,612	2,312	0.89
3	Extension contracts	4,953	4,782	0.97
III	Rural-based Technical and Vocational Training	8,933	8,430	
1	Civil works	1,740	1,710	0.98
2	Equipment	6,852	6,379	0.93
3	Training	341	341	1.00
IV	Project Management	2,143	1,996	
	Office equipment in CPMU	38	38	1.00
	Vehicles	42	42	1.00
	Consulting Services	1,144	997	0.87
	Routine costs	919	919	1.00
	Total	36,653	34,698	0.95

APPENDIX 5: SUMMARY OF PROCUREMENT STATUS AT INSTITUTES
(As of 31/3/2012)

No	Institute	Package	Value	Status	Expected time for submission to ADB
1	Northern Mountainous Agriculture and Forestry Science Institute	Package 01	8,973,900,000	Completed	Completed
		Package 02	4,930,100,000	Completed	Completed
		Package 03	3,636,000,000	Completed	Completed
		Package 04	506,000,000	Completed	Completed
		Package 05	839,000,000	Bidding ongoing	30/6/2012
		Package 06	252,000,000	Bidding ongoing	30/6/2012
2	Plant Protection Research Institute	Package 01	2,990,000,000	Completed	Completed
		Package 02	3,831,188,385	Completed	Completed
		Package 03	2,332,530,000	Completed	Completed
3	Soils and Fertilizer Research Institute	Package 01	5,280,600,000	Completed	Completed
		Package 02	2,979,145,000	Completed	Completed
		Package 03	2,506,218,000	Completed	Completed
		Package 04	534,575,000	Completed	Completed
		Package 05	3,512,165,000	Completed	Completed
		Package 06	2,996,000,000	Completed	Completed
4	Field Crops Research Institute	Package 01	6,281,978,286	Completed	Completed
		Package 02	1,144,381,000	Completed	Completed
		Package 07	2,518,109,000	On wait for delivery	15/4/2012
5	Forestry Science Institute of Vietnam	Package 01	2,979,668,000	Completed	Completed
		Package 02	3,299,868,000	Completed	Completed
		Package 03	750,590,000	Completed	Completed
		Package 08	2,979,050,000	Completed	Completed
6	Institute of Policy and Strategy for Agriculture and Rural Development	Package 1A	3,717,812,600	On wait for delivery	30/06/2012
		Package 1B	1,045,582,500	Completed	Completed
		Package 02	2,355,120,900	Completed	Completed
		Package 03	2,995,175,700	Completed	Completed
		Package 04	2,698,773,000	Completed	Completed

7	Southern Fruit Research Institute	Package 01	2.827.854.665	Completed	Completed
		Package 02	2.350.623.900	Completed	Completed
		Package 03	1,765,318,600	On wait for delivery	15/4/2012
8	Cuu Long Delta Rice Research Institute	Package 01	2,198,513,713	Completed	Completed
		Package 02	4,199,195,000	Completed	Completed
		Package 03	3,264,381,000	Completed	Completed
		Package 04	3,027,837,500	Completed	Completed
		Package 05	917,750,000	On wait for delivery	30/4/2012
9	Institute of Agricultural Science of Southern Vietnam Institute of Agricultural Science of Southern Vietnam	Package 01	617,304,000	Completed	Completed
		Package 02	1,564,700,000	Completed	Completed
		Package 03	4,182,836,800	Completed	Completed
		Package 04	1,287,342,000	On wait for delivery	30/4/2012
10	Institute of Agricultural Science of Southern Vietnam	Package 01	1,569,333,000	Completed	Completed
		Package 02	3,108,668,000	Completed	Completed
		Package 03	593,500,000	Completed	Completed
11	Institute for Agricultural Environment Northern Agricultural Science Institute	Package 11	6,911,464,228	Completed	Completed
		Package 23	2,996,631,000	Bidding ongoing	30/6/2012
12	Agricultural Science Institute of South Central Coast of Vietnam	Package 16	6,943,600,000	Completed	Completed
13	Institute for Agricultural Environment	Package 24	5,996,000,000	Bidding ongoing	30/6/2012

APPENDIX 6: SUMMARY OF PROCUREMENT STATUS AT SCHOOLS
(As of 31/03/2012)

No	Schools	Bidding Package No.	Package value (VND)	Status	Expected time for submission to ADB
I	CIVIL WORKS				
1	Hanoi Technology and Economics college (Soc Son - Hanoi)	<ul style="list-style-type: none"> Package 03 Package 18 	<ul style="list-style-type: none"> 2.950.939.000 1.928.540.000 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Completed Completed
2	Northern Agricultural and Rural Development College (Xuan Mai - Hanoi)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 3.543.031.000 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
3	Central college of economics and water resources (Hoi An) - Quang Nam	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 1.910.527.150 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
4	Southern college for mechanics, Agricultural technique and rural development (Can Tho)	<ul style="list-style-type: none"> Package 03 Package 20 	<ul style="list-style-type: none"> 1.297.000.000 1.867.000.000 	<ul style="list-style-type: none"> Completed Under construction 	<ul style="list-style-type: none"> Completed 31/5/2012
5	Northern water resources college (Ha Nam)	<ul style="list-style-type: none"> Package 03 Package 17 	<ul style="list-style-type: none"> 1.875.268.000 3.332.810.000 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Completed Completed
6	Danang food college	<ul style="list-style-type: none"> Package 03 Package 13 	<ul style="list-style-type: none"> 2.448.692.090 1.667.065.000 	<ul style="list-style-type: none"> Completed Completed 	<ul style="list-style-type: none"> Completed Completed
7	Southern Agricultural and Rural Development college (Tien Giang)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 237.900.000 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
8	Bao Loc Collge of technology and economics (Lam Dong)	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 6.659.902.664 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
9	Ho Chi Minh City Secondary Food Technology School	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 2.042.555.000 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
10	Hai Phong Secondary Technical school for Food and Foodstuff Mangement	<ul style="list-style-type: none"> Package 03 	<ul style="list-style-type: none"> 1.529.820.000 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
II	HÀNG HÓA				
1	Hanoi Technology and Economics college (Soc Son - Hanoi)	<ul style="list-style-type: none"> Package 04 Package 05 Package 19 	<ul style="list-style-type: none"> 5,658,950,000 2,151,930,000 984,368,000 	<ul style="list-style-type: none"> Completed Completed Completed 	<ul style="list-style-type: none"> Completed Completed Completed

No	Schools	Bidding Package No.	Package value (VND)	Status	Expected time for submission to ADB
2	Northern Agricultural and Rural Development College (Xuan Mai - Hanoi)	<ul style="list-style-type: none"> • Package 04 • Package 05 • Package 06 • Package 14 	<ul style="list-style-type: none"> • 3,155,442,000 • 5,790,825,000 • 2,291,616,000 • 2,604,100,000 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed
3	Central college of economics and water resources (Hoi An) – Quang Nam	<ul style="list-style-type: none"> • Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 09 • Package 10 	<ul style="list-style-type: none"> • 1,734,500,000 • 2,594,073,000 • 572,358,000 • 631,900,000 • 2,079,000,000 • 1,665,100,000 • 2,288,000,000 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • On wait for delivery • Completed 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • 30/6/2012 • Completed
4	Southern college for mechanics, Agricultural technique and rural development (Can Tho)	<ul style="list-style-type: none"> • Package 04 • Package 05 • Package 06 • Package 07 • Package 08 • Package 21 	<ul style="list-style-type: none"> • 1,012,058,682 • 2,719,505,750 • 2,763,750,000 • 2,044,500,000 • 2,680,000,000 • 3,080,739,000 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • Completed
5	Northern water resources college (Ha Nam)	<ul style="list-style-type: none"> • Package 04 • Package 05 • Package 06 • Package 07 • Package 18 • Package 19 	<ul style="list-style-type: none"> • 2,795,950,000 • 4,549,815,500 • 1,935,752,000 • 135,590,000 • 1,803,890,000 • 1,116,000,000 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed • Completed • Completed
6	Danang food college	<ul style="list-style-type: none"> • Package 04 • Package 05 	<ul style="list-style-type: none"> • 3,757,677,000 • 9,121,480,500 • 3,103,361,600 • 1,295,000,000 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed 	<ul style="list-style-type: none"> • Completed • Completed • Completed • Completed

No	Schools	Bidding Package No.	Package value (VND)	Status	Expected time for submission to ADB
		<ul style="list-style-type: none"> Package 06 Package 16 Package 17 	<ul style="list-style-type: none"> 511,970,800 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> Completed
7	Southern Agricultural and Rural Development college (Tien Giang)	<ul style="list-style-type: none"> Package 04 Package 05 Package 06 Package 07 Package 08 Package 09 Package 10 	<ul style="list-style-type: none"> 4,060,320,940 3,931,581,200 3,018,914,300 1,422,382,000 789,232,000 985,000,000 3,380,065,310 	<ul style="list-style-type: none"> Completed Completed Completed Completed Completed Completed Completed 	<ul style="list-style-type: none"> Completed Completed Completed Completed Completed Completed Completed
8	Bao Loc Collge of technology and economics (Lam Dong)	<ul style="list-style-type: none"> Package 04 Package 05 Package 06 Package 07 Package 08 Package 09 	<ul style="list-style-type: none"> 1,639,662,080 2,074,800,000 2,309,999,000 3,960,000,000 1,710,000,000 2,364,998,900 	<ul style="list-style-type: none"> Completed Completed Completed Completed Completed Completed 	<ul style="list-style-type: none"> Completed Completed Completed Completed Completed Completed
9	Ho Chi Minh City Secondary Food Technology School	<ul style="list-style-type: none"> Package 04 Package 05 Package 06 Package 07 Package 15 	<ul style="list-style-type: none"> 437,957,000 2,134,000,000 1,234,970,000 4,960,120,000 2,668,600,000 	<ul style="list-style-type: none"> Completed Completed Completed Completed On wait for delivery 	<ul style="list-style-type: none"> Completed Completed Completed Completed 30/6/2012
10	Hai Phong Secondary Technical School for Food and Foodstuff Mangement	<ul style="list-style-type: none"> Package 4 Package 5 Package 14 	<ul style="list-style-type: none"> 4,762,241,000 3,725,590,000 4,214,465,000 	<ul style="list-style-type: none"> Completed Completed Completed 	<ul style="list-style-type: none"> Completed Completed Completed

PROCUREMENT PLAN

Basic Data

Project Name: Agriculture Science and Technology Project	
Country: Socialist Republic of Viet Nam	Executing Agency: Ministry of Agriculture and Rural Development
Loan Amount: \$30 million - ADF	Loan Number: 2283
Date of First Procurement Plan: 11 December 2006	Date of this Procurement Plan: 20 December 2011 April 2012

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 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.	CPMU/PPMUs/IPMUs to procure all NCB packages. Prior review for the first 2 contracts subsequently post review.
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	Comments
Equipment for Research Institutes (Research and laboratory)	\$0.500 <u>56</u> million	6	NCB/SP	By IPMUs
Training – Non-University	\$0.050 million	7	DC	By CPMU
Equipment for Extension	\$0.864-300 million	54	NCB/SP	By CPMU/ PPMUs, NAEC
Extension Service Contracts	\$0.980-700 million	4472	NCB/SP	By CPMU/ PPMUs
Equipment and materials for Universities (Library, laboratory, teaching, and school administration)	\$0.555-728 million	5	NCB/SP	By IPMUs
Individual Consultants (project management)	\$0.498-080 million	42	ICS	By CPMU

CPMU = Central Project Management Unit; DC = direct contracting; ICS = individual consultant selection; IPMU = institute project management unit, NAEC = National Agriculture and Environment Center; NCB = national competitive bidding; PPMU = provincial project management unit; SP = shopping.

B. Indicative List of Packages Required Under the Project

4. The following table provides an indicative list of all procurement (goods, works and consulting services) over the life of the project.

<u>General Description</u>	<u>Estimated Value (cumulative)</u>	<u>Estimated Number of Contracts</u>	<u>Procurement Method</u>	<u>Comments</u>
Client-Oriented Agricultural Research and Capacity Strengthening				
<u>Equipment & Materials for Research Institutes</u>	<u>\$6.636 million</u>	<u>47</u>	<u>NCB/SP</u>	<u>By IPMUs (Research Institutes)</u>
<u>Research Contracts</u>	<u>\$5.122 million</u>	<u>125</u>	<u>NCB</u>	<u>By DSTE/CPMU</u>
<u>Training – University</u>	<u>\$3.600 million</u>	<u>57</u>	<u>DC</u>	<u>By DOP/CPMU</u>
<u>Training – Non-University</u>	<u>\$0.650 million</u>	<u>77</u>	<u>DC</u>	<u>By CPMU</u>
Grassroots Agricultural Extension Improvement				
<u>Equipment & Materials for Extension</u>	<u>\$1.025 million</u>	<u>23</u>	<u>NCB/SP</u>	<u>By PPMUs/NAEC/ CPMU</u>
<u>Extension Service Contracts</u>	<u>\$4.600 million</u>	<u>645</u>	<u>NCB</u>	<u>By PPMUs</u>
Rural-Based Technical and Vocational Training				
<u>Civil Works</u>	<u>\$1.500 million</u>	<u>14</u>	<u>NCB/SP</u>	<u>By IPMUs (Universities/Schools)</u>
<u>Equipment & Materials</u>	<u>\$7.529 million</u>	<u>57</u>	<u>NCB/SP</u>	<u>By IPMUs (Universities/Schools)</u>
Project Management Support				
<u>Equipment, Materials, & Vehicle</u>	<u>\$0.350</u>	<u>6</u>	<u>NCB/SP</u>	<u>By CPMU</u>
<u>General Description</u>	<u>Estimated Value (cumulative)</u>	<u>Estimated Number of Contracts</u>	<u>Recruitment Method</u>	<u>Comments</u>
Project Management Support <u>Consulting Services</u>	<u>\$1.232 million</u>	<u>11</u>	<u>QCBS/ICS (international & national)</u>	<u>By CPMU / PPMUs</u>

CPMU = Central Project Management Unit; DC = direct contracting; ICS = individual consultant selection; IPMU = institute project management unit; NAEC = National Agriculture and Environment Center; NCB = national competitive bidding; PPMU = provincial project management unit; QCBS = quality- and cost-based selection; SP = shopping.

C. National Competitive Bidding

1. General

57. The laws to be followed for national competitive bidding are set forth in (i) the Law on Procurement No. 61/2005/QH11 of 29 November 2005, (ii) the Construction Law no. 16/2003/QH11 of 26 November 2003, (iii) the Amendment Law No. 38/2009/QH12 of 19 June 2009 amending and supplementing key articles of the above-mentioned two laws, and (iv) the processes described in Decree No. 85/2009/ND-CP of 15 October 2009 on "Guiding Implementation of Procurement Law and Selection of Construction Contractors under the Construction Law". Whenever any procedure in the national procurement laws is inconsistent with the ADB Procurement Guidelines (April 2010, and as amended from time to time), the ADB Guidelines shall prevail, amongst others on the following.

2. Registration

- (i) Bidding shall not be restricted to pre-registered firms and such registration shall not be a condition for participation in the bidding process.
- (ii) Where registration is required prior to award of contract, bidders: (i) shall be allowed a reasonable time to complete the registration process; and (ii) shall not be denied registration for reasons unrelated to their capability and resources to successfully perform the contract, which shall be verified through post-qualification.
- (iii) Foreign bidders shall not be required to register as a condition for submitting bids.
- (iv) Bidder's qualification shall be verified through pre- or post-qualification process.

3. Eligibility

- (i) National sanction lists may only be applied with approval of ADB¹.
- (ii) A firm declared ineligible by ADB cannot participate in bidding for an ADB financed contract during the period of time determined by ADB.
- (iii) A firm which has been engaged by the borrower to provide consulting services for the preparation or implementation of a project, and any of its affiliates, shall be disqualified from subsequently providing goods, works, or services, resulting from or directly related to the firm's consulting services for such preparation or implementation.

4. Prequalification and Post qualification

- (i) Post qualification shall be used unless prequalification is explicitly provided for in the loan agreement/procurement plan. Irrespective of whether post qualification or prequalification is used, eligible bidders (both national and foreign) shall be allowed to participate.

¹ Section 52 of the Integrity Principles and Guidelines allows ADB to sanction parties who fail to meet ADB's high ethical standards based on the decisions of third parties, such a decision can only be made by the Integrity Oversight Committee on the basis of ADB's own independent examination of the evidence. As such, the process should follow the normal assessment and investigative processes prescribed by the Integrity Principles and Guidelines. <http://www.adb.org/Documents/Guidelines/Integrity-Guidelines-Procedures/integrity-guidelines-procedures-2006.pdf>

- (ii) In the event where pre-qualification is used, interested firms shall be given no less than 42 days to prepare their pre-qualification submission.
- (iii) When pre-qualification is required, the evaluation methodology shall be based on pass/ fail criteria relating to the firm's experience, technical and financial capacities.
- (iv) Qualification criteria shall be clearly specified in the bidding documents, and all criteria so specified, and only criteria so specified, shall be used to determine whether a bidder is qualified. The evaluation of the bidder's qualifications should be conducted separately from the technical and commercial evaluation of the bid.
- (v) In carrying out the post-qualification assessment, the Employer/ Purchaser shall exercise reasonable judgment in requesting, in writing, from a bidder missing factual or historical supporting information related to the bidder's qualifications and shall provide reasonable time period (a minimum of 7 days) to the bidder to provide response.

5. Preferences

- (i) No preference of any kind shall be given to domestic bidders or for domestically manufactured goods.
- (ii) Regulations issued by a sectoral ministry, provincial regulations and local regulations which restrict national competitive bidding procedures to a class of contractors or a class of suppliers shall not be applicable.
- (iii) Foreign bidders shall be eligible to participate in bidding under the same conditions as local bidders, and local bidders shall be given no preference (either in bidding process or in bid evaluation) over foreign bidders, nor shall bidders located in the same province or city as the procuring entity be given any such preference over bidders located outside that city or province

6. Advertising

- (i) Invitations to bid (or prequalify, where prequalification is used) shall be advertised in Government Public Procurement Bulletin. In addition, the procuring agency should publish the advertisement in at least one widely circulated national daily newspaper or freely accessible, nationally-known website allowing a minimum of twenty-eight (28) days for the preparation and submission of bids and allowing potential bidders to purchase bidding documents up to at least twenty-four (24) hours prior the deadline for the submission of bids. Bidding of NCB contracts estimated at \$500,000 or more for goods and related services or \$1,000,000 or more for civil works shall be advertised on ADB's website via the posting of the Procurement Plan.
- (ii) Bidding documents shall be made available by mail, or in person, to all who are willing to pay the required fee, if any.
- (iii) The fee for the bidding documents should be reasonable and consist only of the cost of printing (or photocopying) the documents and their delivery to the bidder. (Currently set at 1 Mln VND, increase subject to approval of ADB)

7. Standard bidding documents

- (i) The Borrower's standard bidding documents, acceptable to ADB, shall be used. The bidding documents shall provide clear instructions on how bids should be submitted, how prices should be offered, and the place and time for submission and opening of bids.
- (ii) Bidders shall be allowed to submit bids by hand or by mail/ courier.

8. Bid Opening

- (i) All bids received after the deadline for submission indicated in the bidding documents will be rejected.
- (ii) All bids received before the bid submission deadline shall be opened except those with proper notice of withdrawal.
- (iii) A copy of the bid opening record shall be promptly provided to all bidders who submitted bids.

9. Bid Evaluation

- (i) Merit points shall not be used in bid evaluation.
- (ii) Bidders shall not be eliminated from detailed evaluation on the basis of minor, non-substantial deviations.²
- (iii) Except with the prior approval of ADB, no negotiations shall take place with any bidder prior to the award, even when all bids exceed the cost estimates.
- (iv) A bidder shall not be required, as a condition for award of contract, to undertake obligations not specified in the bidding documents or otherwise to modify the bid as originally submitted.
- (v) Bids shall not be rejected on account of arithmetic corrections of any amount. However, if the Bidder that submitted the lowest evaluated bid does not accept the arithmetical corrections made by the evaluating committee during the evaluation stage, its bid shall be disqualified and its bid security shall be forfeited.

10. Rejection of All Bids and Rebidding

- (i) No bid shall be rejected on the basis of a comparison with the owner's estimate or budget ceiling without the ADB's prior concurrence.

² Minor, non-substantial deviation is one that, if accepted, would not affect in any substantial way the scope, quality, or performance specified in the contract; or limit in any substantial way, the Contracting entity rights or the Bidder's obligations under the proposed contract or if rectified, would not unfairly affect the competitive position of other bidders presenting substantially responsive bids.

- (ii) Bids shall not be rejected and new bids solicited without the ADB's prior concurrence.

11. Participation by Government-owned enterprises

68. Government-owned enterprises shall be eligible to participate as bidders only if they can establish that they are legally and financially autonomous, operate under Enterprise law and are not a dependent agency the contracting entity. Furthermore, they will be subject to the same bid and performance security requirements as other bidders.

12. Non-eligibility of military or security units

79. Military or security units, or enterprises which belong to the Ministry of Defense or the Ministry of Public Security shall not be permitted to bid.

13. Participation by Foreign contractors and suppliers. Joint Ventures and Associations

- (i) Foreign suppliers and contractors from eligible countries shall, if they are interested, be allowed to participate without being required to associate or form joint ventures with local suppliers or contractors, or to subcontract part of their contract to a local bidder.
- (ii) A bidder declared the lowest evaluated responsive bidder shall not be required to form a joint venture or to sub-contract part of the supply of goods as a condition of award of the contract.
- (iii) License for foreign contractors operation in Vietnam would be provided in a timely manner and will not be arbitrarily withheld.

14. Publication of the Award of Contract. Debriefing.

- (i) For contracts subject to prior review, within 2 weeks of receiving ADB's "No-objection" to the recommendation of contract award, the borrower shall publish in the Government Public Procurement Bulletin, or well-known and freely-accessible website the results of the bid evaluation, identifying the bid and lot numbers, and providing information on: i) name of each bidder who submitted a bid; ii) bid prices as read out at bid opening; iii) name and evaluated prices of each bid that was evaluated; iv) name of bidders whose bids were rejected and the reasons for their rejection; and v) name of the winning bidder, and the price it offered, as well as the duration and summary scope of the contract awarded.
- (ii) For contracts subject to post review, the procuring entity shall publish the bid evaluation results no later than the date of contract award.
- (iii) In the publication of the bid evaluation results, the borrower shall specify that any bidder who wishes to ascertain the grounds on which its bid was not selected, should request an explanation from the procuring entity. The procuring entity shall promptly provide an explanation of why such bid was not selected, either in writing and / or in a debriefing meeting, at the option of the borrower. The requesting bidder shall bear all the costs of attending such as debriefing. In this

discussion, only the bidder's bid can be discussed and not the bids of competitors.

15. Handling of Complaints

| 840. The national competitive bidding documents shall contain provisions acceptable to ADB describing the handling of complaints in accordance with Chapter X of Decree No. 85/2009/ND-CP, read with Articles 72 and 73 of the Law on Procurement No. 61/2005/QH11.

16. ADB Member Country Restrictions

| 944. Bidders must be nationals of member countries of ADB, and offered goods, works, and services must be produced in and supplied from member countries of ADB.

17. Fraud and Corruption

| 102. ADB will sanction a party or its successor, including declaring ineligible, either indefinitely or for a stated period of time, to participate in ADB-financed activities if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, an ADB-financed contract.

18. Right to Inspect/ Audit

| 113. Each bidding document and contract financed from by ADB shall include a provision requiring bidders, suppliers, contractors to permit ADB or its representative to inspect their accounts and records relating to the bid submission and contract performance of the contract and to have them audited by auditors appointed by ADB.

Appendix 8: Status of Consulting Services from September 2008 to 31 March 2012

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance	Remarks
					person- months	%	person- months	
International Consultants								
1	Dr Michael John BLYTH	Team Leader and International Agricultural Research Management Specialist	16	477	15.90	99%	0.10	Completed final input on 18/12/2011
2	Nick SHIRRA	International Agricultural Extension Management Specialist	5	50	1.67	33%	3.33	Consultant resigned budget used for additional national consultant inputs in 2011
3	Dr. Micheal THAIR	International Agricultural Vocational Training Specialist	1	4	0.13	13%	0.87	Position ceased and budget allocated to consultants' travel and translation
4	Evelyn BUENAVENTU RA (Ms)	International Social Development Specialist	2	58	1.93	97%	0.07	Completed 12/2008
5	Dr John Wicks	International Impact Assessment Specialist	2	60	2.00	100%	0.00	Replacement consultant; first input 4/10-13/11/2011; Completed final input on 21/01/2012
6	Myrna J. HERNADEZ (Ms.)	International Financial Management Specialist	1	28	0.93	93%	0.07	Completed 12/2008
7	Dr Wang DEHAI	International Monitoring and Evaluation Specialist	2	60	2	100%	0.00	Completed 19/5/2010
	Total International Consultants		29	737	24.57	85%	4.43	

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance	Remarks
					person- months	%	person- months	
National Consultants								
8	NGUYEN Thi Lan (Ms)	Deputy Team Leader and National Agricultural Research Management Specialist	41.8	849	38.59	92%	3.21	Continuing; term extended to 2012 as part of contract variation 4
9	Dr NGUYEN The Con	National Agricultural Extension Management Specialist	22	485	22.00	100%	0.00	Completed 12/2011
10	Dr VUONG Thanh Huong	National Agricultural Vocational Training Specialist	13	264	12.00	92%	1.00	Additional inputs approved as part of contract variation 4; recommenced 15/11/2011
11	NGUYEN Thi Huong Tra (Ms)	National Social Development Specialist	6	92	4.18	70%	1.82	Commenced 01/12/2009
12	Dr NGUYEN Thi Loan	National Environmental Assessment Specialist	11	224	10.18	93%	0.82	Commenced 01/12/2009; inputs completed in 2012
13	Hà Thị Cẩm	National Financial Management Specialist	8	176.5	8.02	100%	-0.02	Commenced as replacement on 19/11/2010 and completed on 31/10/2011
14	Dr NGUYEN Tu Siem	National Monitoring and Evaluation Specialist	4	88	4.00	100%	0.00	Completed 19/4/2010
15	DAO Van Khang	National Extension Communication Evaluation Specialist	2	44	2.00	100%	0.00	Completed on 27/7/2010
16	TRINH Van Tien	National Value Chain Development Specialist	6	86	3.91	65%	2.09	Continuing

No.	Name	Position	Contracted (person- months)	Utilized (days)	Utilized		Balance	Remarks
					person- months	%	person- months	
17	DO Thi Dung	National E-library Action Plan Development Specialist	4.5	82	3.73	83%	0.77	Term extended as part of contract variation 4 (information dissemination to farmers via ICT including mobile phones and teletext)
18	Tran Thi Phuong Dung	National Communication Specialist	11	179	8.14	74%	2.86	Replacement consultant; commenced 8/9/2011
19	Dr TRAN Thi Thu Ha	National Team Leader/ Baseline Survey and Project Evaluation Specialist	9.5	72	3.27	109%	-0.27	Completed on 15/3/2011
20	HOANG Anh Tuan	National Researcher for Baseline and Project Evaluation Consultancy	2	44	2.00	100%	0.00	Completed on 20/03/2011
21	NGUYEN Van Chien	National Effectiveness Assessment Specialist on using equipment	5	110	5	100%	0.00	Commenced 17/9/2011
22	Dr TRAN Thi Thu Ha	National Project Evaluation Specialist	6.5	67	3.05	47%	3.45	Commenced on 5/10/2011
23	HOANG Anh Tuan	National Impact Assessment Specialist	3	66	3.00	100%	0.00	Commenced on 5/10/2011
	Total national consultants		148.8	2928.5	133.11	89%	15.69	
	Total all consultants		177.8	3665.5	157.68	89%	20.12	

Consultants contracted with CPMU and PPMU								
21	Nguyen Van Chien	Coordinator	24	528	24	100%	0	Completed
22	Nguyen Van Hien	Training Specialist	24	528	24	100%	0	Completed
23	Tran Van Cuong	Extension Specialist	24	528	24	100%	0	Completed
24	Nguyen Van Nhu	Extension Specialist	36	792	33	75%	3	Resigned from 9/2011
25	Nguyen Q Dong	Extension Specialist	36	792	36	100	0	Completed
26	Nguyen Phuong Nghi	Extension Specialist	36	792	36	100	0	Completed
27	Nguyen Dung Tien	Extension Specialist	24	528	6	25.00%	18	Withdrew
			204	4488	183	89.71	21	

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

Appendix 9: Reports and other outputs produced by Project consultants from September 2008 to 31/3/2012

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
Periodic Progress Reports							
1.	Monthly reports from September 2008 to March 2012	All	5 th -15 th day of following month	46	10-15	E, V	Final
2.	1 st Quarter reports from 2009-2011	All	10 th -15 th day of the next quarter	3	20-25	E, V	Final
3.	2 nd Quarter reports from 2009- 2011	All	10 th -15 th day of the next quarter	3	23-25	E, V	Final
4.	3 rd Quarter reports from 2009-2011	All	10 th -15 th day of the next quarter	3	20-25	E, V	Final
5.	4 th Quarter reports from 2008-2010	All	10 th -15 th day of the next quarter	3	20-21	E, V	Final
6.	Annual reports (from 2008-2011)	All	10 th -15 th day of January of the next year	4	35-40	E, V	Final
Major Progress Reports							
7.	Stock-take report for ADB October 2008 Loan Review Mission	All	25/11/2008	1		E	Final
8.	Inception Report	All	3/3/2009	1	108	E, V	Final
9.	2008 AST Project Implementation Status Update to March 2009	All	11/03/2009	1	10	E	
10.	Review of progress by consultants to AST Project against findings and recommendations of ADB Loan review Mission 20-27 Oct-2008	All	15/03/2009	1	7	E	
11.	Report of project implementation status from January 2009 to 30 September 2009 for ADB Loan Review Mission Oct-2009	All	30/09/2009	1	33	E,V	Final
12.	Mid-Term Review Report	All	30/04/2010	1	80	E,V	Final
13.	Action Plan to address recommendations	All	1/06/2010	1	28	E,V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	and actions of the ADB Aide Memoire 5-13 May 2010						
14.	Progress against major issues and agreed actions from May 2010 Aide Memoire at 30-Nov 2010	All	7/12/2010	1	6	E,V	Final
15.	Update on DMF for ADB Review Mission, April 2011	All	18/04/2011	1		E,V	Final
16.	Appendix to Project progress report for ADB Review Mission, April 2011	All	20/04/2011	1	28	E,V	Final
17.	Action plan to address recommendations of ADB Aide Memoire 21-28 April 2011	All	10/05/2011	1	12	E, V	Final
	Periodic and Completion reports of individual consultants						
18.	International Financial Management Specialist's Report	Financial Management	10/12/2008	1	27	E, V	Final
19.	International Social Development Specialist's Report	Social Development	23/12/2008	1	56	E, V	Final
20.	International Agricultural Vocational Training Specialist's Report	3	25/12/2008	1	7	E, V	Final
21.	International Agricultural Extension Management Specialist's Report	2	25/02/2009	1	44	E, V	Final
22.	National Agricultural Vocational Training Specialist's Report	3	10/2010			V	Draft
23.	National Agricultural Extension Management Specialist's Report	2	10/2011			V	Draft
24.	International M&E Specialist's Report	M&E	18/05/2010	1	7	E,V	Final
25.	National Financial Management Specialist's Report	Financial Management					
	Report on workshop: Training of research staff (Sub-component 1.2) – comments by TL on proposed training program and training methods – for PCMU & VAAS						

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
26.	Report on training course monitoring of courses presented 24 November to 27 December 2008	1	15/11/2008	1	7	E	Final
27.	Contract format for client-oriented research projects. Comments from AST Consultants' Team Leader	1	10/01/2009	1	4	E,V	Final
28.	Management and Evaluation Regulations for Research Projects	1	21/05/2009	1	2	E	Final
29.	PRA Manual – training material	1	20/05/2009	1	26	E, V	Final
30.	Project Management and focal issues for research project leaders and institute managers – training material	1	10/06/2009	1	23	V	Final
31.	Progress Report on monitoring and supporting training courses	1	13/06/2009	1	13	E, V	Final
32.	Agricultural Research Management Specialist's field trip report in southern region	1	6/07/2009	1	12	E, V	Final
33.	Report on meeting with Director and staff of Plant Protection Research Institute re organic and safe vegetable production (to CPMU Project Director and ADB Project Officer)	1	27/07/2009	1	8	V	Final
34.	Research Priorities Framework presentation to training course, Hanoi – training material	1	5/11/2009	1	5	E	Final
35.	Research Priorities Framework presentation to training course, HCMC – training material	1	6/11/2009	1	15	E, V	Final
36.	Agricultural Research Management Specialist's field trip reports and minutes on Research project monitoring	1	30/11/2009	1	20	E,V	Final
37.	Formats for writing evaluation report on the	1	15/12/2009	6	5	V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	efficiency of research projects						
38.	Effectiveness Evaluation Report of Research Projects	1	12/06/2010	1	5	E	Final
39.	Research Priorities Framework presentation to training course, Hanoi	1	10/09/2010	1	38	E, V	Final
40.	Environmental assessment report of laboratory by Environmental Assessment Specialist		28/10/2010	1	52	E,V	
41.	Environmental assessment report on research projects batch 1	1	25/01/2011	1	7	V	Draft
42.	Post-course evaluation of short-term training courses by trainees and supervisors. Proposal on implementation procedures	1	27/01/2011	1	10	V	Draft
43.	Criteria and indicators for selecting client-oriented agricultural research projects for extension demonstrations and Format for proposal (DST & CPMU)	1	17/05/2011	1	20	E,V	Final
44.	Overseas study program: Post-training evaluation proposal and evaluation form	1	6/06/2011	2	2 & 4	E/V	Final
45.	Guidelines on finalization/liquidation for research projects	1	27/06/2011	1	5	E,V	Draft
46.	Evaluation of short-term training courses provided to staff of Research Institutes 2008-2010 (post-course evaluation)		10/07/2011	1	45	V	Final
47.	Climate Change in Viet Nam: Opportunities for Research – training course material	1	09/2011	1	33	V	Draft
48.	Reports on Component 2 activities	1	31/10/2011	1	54	E,V	Final
	PAEM Material						
49.	Indigenous Knowledge and Manual for Surveying Indigenous Knowledge	2	15/03/2009	1	45	V	Final
50.	FFS Methodology for Some Plants – training material	2	20/04/2009	1	20	V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
51.	Planting Techniques (maize, rice, soy beans) – training material	2	05/2009	1	45	V	Final
52.	Field trip Report by National Environmental Assessment Specialist, Ninh Thuan	2	07/2009	1	26	V	Final
53.	Field trip report by National Social Development Specialist to Ninh Thuan	2	24/12/2009	1	6	V	Final
54.	Field trip report by International Agricultural Extension Management Specialist – Quang Nam and Ninh Thuan 10-17 December 2009	2	24/12/2009	1	6	V	Final
55.	Field trip report: Dak Nong PPMU and Western Highlands Agroforestry Science and Technology Institute, Dak Lak 26-28 April 2009	2	24/12/2009	1	14	E, V	Final
56.	Agriculture Science and Technology project helps women in Vietnam's central provinces to improve household incomes (short story)	1 & 2	19/05/2010	1	25	E,V	Final
57.	Effectiveness Evaluation Report of AE Demonstration Models	2	10/06/2010	1	4	E,V	Final
58.	Outline of proposed presentation to IFAD Portfolio Performance Workshop on output-based extension contracts	2	15/07/2010	1	34	E, V	Final
59.	Report on assessment of agricultural extension service providers (Sub-component 2.2)	2	14/10/2010	1	1	E	Final
60.	Field trip report of the Value Chain Development Specialist	2	3/12/2010	1	36	E,V	Final
61.	Questionnaires to survey indigenous knowledge and technologies	2	20/01/2011	1	7	V	Draft
62.	Field trip report to Nghe An by Agricultural Research Management and Extension Specialist	2	20/03/2011	1	10	V	Final
63.	Field trip report to Thanh Hoa by Agricultural	2	5/06/2011	1	5	V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	Research Management and Extension Specialist						
64.	Training material on FFS training organization	2	20/07/2011	1	6	V	Final
65.	Reports on Component 3 activities	2	12/10/2011	1	30	V	Final
	Presentations to Curriculum Revisions Workshop, 20-22 October 2008						
66.	Report on meeting in Bac Bo College of Agriculture and Rural Development, Xuan Mai 7/11/2008	3	10/2008	1		V	Final
67.	Advise and assist CPMU prepare a letter to ADB to replace curriculum guide development with curricula revisions on 11 topics	3	08/11/2008	1	3	E,V	Final
68.	Proposal for strengthening school-industry partnerships (to CPMU)	3	05/01/2009	1	3	E	Final
69.	Workshop discussion minute on training needs identification of 10 Schools under AST Project, 13-14 May 2009	3	24/03/2009	1	2	E	Final
70.	Effective training outcomes: The Training Evaluation Model –presentation to teachers and administrators, Ninh Thuan 13 May 2009	3	19/05/2009	1	2	V,E	Final
71.	Training needs assessment of 10 AST Project schools and colleges – presentation to teachers and administrators at Ninh Thuan 13 May 2009	3	12/05/2009	1	25	E,V	Final
72.	Monitoring Report on training of Sub-component 3.1	3	12/05/2009	1	18	E,V	Final
73.	Proposal on estimated costs for curriculum and training material development in schools of the AST Project	3	08/2009	1	20	V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
74.	Evaluation report on training courses conducted during 2008-2009	3	27/10/2009	1	4	E,V	Final
75.	Building evaluation indicators of sub-component 3.1	3	12/2009	1	18	V	Final
76.	Review report on progress of Curriculum development and revision of training materials (the 1 st period)	3	2009	1	2	E/V	Final
77.	Report on strengthening school-industry partnerships	3	20/8/2010	1	5	E/V	Final
78.	Evaluation report on effectiveness of sub-component 3.1	3	20/8/2010	1	5	V	Final
79.	Field trip report – monitoring training course on curriculum development for teachers from Soc Son and Do Son Schools, Hai Phong 10-11 Nov 2010	3	22/9/2010	1	3	V	Final
80.	Gender balance in capacity building activities conducted under Component 3 of the AST Project	3	8/12/2010	1	4	E,V	Final
81.	Reports on Component 4 activities	3	29/05/2011	1	4	E,V	Final
	Preparations for AST Project Mid-Term Review: Action Plan						
82.	Terms of reference for studies recommended during Mid-term Review – e-library action plan development; mini-impact cost-benefit of extension study; Evaluation of agricultural extension service providers	All	4/12/2009 23/12/2009	1	7	E, V	Draft
83.	Estimating the financial impact of equipment acquired under the AST project for schools and research institutes	3,2	29/07/2010	1	12	E	Draft
84.	ADB Gender and Development Cooperation Fund Proposal	1 & 3	12/05/2011	1	3	E	Draft
85.	Action plan on environmental and social		19/05/2011	1	11	E	Final to ADB

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	safeguards and Gender Equality						
86.	Project Financial Management Guideline Manual	All	17/06/2011	1	16	E, V	Final
87.	Field trip report of the financial management specialist	All	30/10/2011	1	40	V	Final
88.	Reports on other major activities	All	15/01/2011	1	5	V	Draft
	Monitoring and Evaluation of Training. Guidelines and procedures for monitoring and evaluation of AST project training programs and courses						
89.	AST Project Baseline and Evaluation Report	All	12/07/2009	1	31	E, V	Final
90.	Inception report: Evaluation and proposal to strengthen agricultural extension information and communication under Agricultural Science and technology Project	All	14/02/2011 05/2011	1	28	E, V	Draft Final
91.	Final Report on Evaluation of extension information and communication	2	04/2010	1	29	E, V	Final
92.	Five short stories on effectiveness of AE demonstration models and research projects	2	10/2010	1	110	V (E)	Final
93.	Short stories on impact of mulberry and soya-bean research projects	1 & 2	11/2010 05/2011	5	3-6	E, V	Final
94.	Report on workshop: Training of research staff (Sub-component 1.2) – comments by TL on proposed training program and training methods – for PCMU & VAAS	1	1/07/2011	1	10	V -E	Final
95.	Draft Final Consultant Report	All	17/12/2011	1	72	E, V	Draft
96.	Draft Project Completion Report	All	31/12/2011	1	35	E, V	Draft
97.	Project Impact Evaluation	All	22/1/2012	1	48	E, V	Draft
	Reports and supporting material related to M&E						
98.	M&E Formats for Institutes, Schools & Provinces	All	26/02/2009	1	12	E, V	Final

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
99.	M&E Tables	All	27/02/2009	1	70	V	Final
100.	Format and procedures for quarterly reporting. Draft report to CPMU	All	10/04/2009	1	26	E	Final
101.	Monitoring and Evaluation Framework and Indicators – Comments and recommendations on the Project Performance Management System	All	15/04/2009	1	13	E	Final
102.	Monitoring and evaluation on training activities. Guidelines and procedures on monitoring and evaluation of training courses under AST – training material	All	12/07/2009	1	33	E, V	Final (
103.	M&E framework for agricultural extension projects - training material	1	6/07/2009	1	26	V	Final
104.	M&E Framework for AST project	1	11/09/2009	1	15	E, V	Final
105.	Reporting Format for Institutes, Schools & Provinces	All	10/09/2009	3	9	E, V	Final
106.	Presentation of IM&ES work and M&E implementation of AST Project (to CPMU)	All	14/05/2010	1	24	E,V	Final
107.	Field Trip report of International M&E specialist to Da Nang and Quang Nam, 14-17 April 2010	2 & 3	18/05/2010	1	12	E,V	Final
108.	Field trip report of IM&E Specialist to Nghe An and Ha Tinh 27-29 April 2010	2 & 1	18/05/2010	1	12	E,V	Final
109.	Training manual for M&E for AST Project ¹	All	18/05/2010	1	31	E,V	Draft
110.	Training manual on M&E for AST Project: Annexes	All	18/05/2010	1	133	E	Draft
111.	Contribution to finalization of the Design and Monitoring Framework	All	14/06/2010	1	17	E,V	Final
112.	Training material on M&E		22/02/2011				
113.	Report of progress against DMF for M&E	1	23/05/2011	1	19	E, V	Final

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

No	Document Title	Component	Date submitted to CPMU/ADB	Number of reports	Total pages	English (E) Vietnamese (V)	Status
	training in Nghe An						
114.	Training material on M&E for presentation at Nghe An 26-27 August 2008	All	22/05/2011	1		V	Final
115.	Training material on M&E of extension activities	2	30/06/2011	1	25	V	Final
116.	Training material on guidelines of indigenous knowledge survey	2	30/06/2011	1	30	V	Final
117.	Guideline on monitoring, evaluation and acceptance of AE models	2	20/08/2011	1	30	V	Final

APPENDIX 10: SUMMARY OF PROJECT EXPENDITURE STATUS

(US \$)

As at 31/3/2012

Items	Total Project Budget			2007			2008		
	ADB	Government	Total	ADB	Government	Total	ADB	Government	Total
A Investment costs									
Civil works	1,269,792	423,264	1,693,056						
Equipment	11,873,272	3,957,757	15,831,029				386,997	128,999	515,996
Vehicles	20,081	20,081	40,162				20,081	21,919	42,000
Materials		-	-					-	-
Training	6,740,774	1,901,244	8,642,018				907,920	256,080	1,164,000
Research and extension	7,900,561	2,228,363	10,128,924				1,273,740	359,260	1,633,000
Consulting services	1,645,343	-	1,645,343				9,000	-	9,000
B Routine costs	-	-	-					-	-
Salary for staff	-	728,000	728,000		42,000	42,000		117,000	117,000
Other operation costs	1,028,343	342,781	1,371,124	16,500	5,500	22,000	132,000	44,000	176,000
C Interest	645,988	645,988							
Imprest account	77,125	77,125							
Total	31,201,279	10,247,479	40,079,657	16,500	47,500	64,000	2,729,738	927,258	3,656,996

Items	2009*			2010 + 30/3/2012			Total expenditure to date		
	ADB	Government	Total	ADB	Government	Total	ADB	Government	Total
A Investment costs									
Civil works				1,282,500	427,500	1,710,000	1,282,500	427,500	1,710,000
Equipment	336,000	112,000	448,000	9,552,003	3,184,001	12,736,004	10,275,000	3,425,000	13,700,000
Vehicles	-	-	-	-			20,081	21,919	42,000
Materials	-	-	-	-			-	-	-
Training	469,560	132,440	602,000	4,524,000	1,276,000	5,800,000	5,901,480	1,664,520	7,566,000
Research and extension	1,028,820	290,180	1,319,000	5,313,360	1,498,640	6,812,000	7,615,920	2,148,080	9,764,000
Consulting services	301,000	-	301,000	687,000	-	687,000	997,000	-	997,000
B Routine costs									
Salary for staff		121,000	121,000	-	284,000	284,000	-	564,000	564,000
Other operation costs	159,750	53,250	213,000	381,000	127,000	508,000	689,250	229,750	919,000
Total	2,295,130	708,870	3,004,000	21,739,863	6,797,141	28,537,004	26,781,231	8,480,769	35,262,000

Items	Remaining		
	ADB	CPVN	Total
A Investment costs			
Civil works	(12,708)	(4,236)	(16,944)
Equipment	1,598,272	532,757	2,131,029
Vehicles	-	(1,838)	(1,838)
Materials	-	-	-
Training	839,294	236,724	1,076,018
Research and extension	284,641	80,283	364,924
Consulting services	648,343	-	648,343
B Routine costs			
Salary for staff	-	164,000	164,000
Other operation costs	339,093	113,031	452,124
Total	3,696,935	1,120,722	4,817,657

Loan 2283-VIE: Agriculture Science and Technology Project
Status of Loan Utilization
as of 31 March 2012

Cat. No.	Category	Allocation		Contracts	Disbursements	Uncommitted Loan Balance	Undisbursed Loan Balance
		SDR	USD Equiv				
01	Civil Works	700,000	1,079,896	1,322,443	1,225,785	-242,547	-145,889
02	Equipment	8,500,000	13,096,549	10,072,009	9,568,205	3,024,540	3,528,344
03	Vehicles	14,000	21,478	20,081	20,081	1,397	1,397
04	Materials	0	0	0	0	0	0
05	Training	4,100,000	6,317,020	4,025,977	4,025,977	2,291,043	2,291,043
06	Research/Extension Contracts	4,700,000	7,206,331	6,396,968	6,396,968	809,363	809,363
07	Consulting Services	1,169,000	1,805,506	1,137,543	922,180	667,963	883,326
08	Incremental Operating Costs	600,000	925,475	496,653	496,653	428,822	428,822
09	Interest Charge	415,000	643,806	0	362,994	643,806	280,812
10	Unallocated	0	0	0	0	0	0
99	Imprest Account	0	52,841	0	3,000,000	52,841	-2,947,159
	Total	20,198,000	31,148,902	23,471,674	26,018,843	7,677,228	5,130,059

APPENDIX 12: COMPLIANCE WITH LOAN COVENANTS
(As at 31 March 2012)

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 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.	CPMU, PPMUs, and IPMUs	Being complied with As of Apr 2010 do not have any feedback on this matter

Reference in LA	Covenant	Responsibility	Status of Compliance
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/QD/BNN-TCCB of MARD. The CPMU in accordance with Ministries, Departments under MARD implemented in compliance with goal, target, activities of each component of project and closely monitored project implementation progress.
Sched. 5, para. 4	The PPMU, headed by a PPMU manager, shall be established under the provincial department of agriculture and rural development in each of the Project provinces, and comprise a planning officer, a monitoring and evaluation officer, an accountant, and other necessary supporting staff. The PPMU shall be responsible for (i) overall management and supervision of Project activities related to agricultural extension in the 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	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 coordinator. • IPMUs were established comprising 10 research institutes and 10 agricultural colleges and vocational schools. Each IPMU

Reference in LA	Covenant	Responsibility	Status of Compliance
	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.		comprises a director, an accountant, a monitoring and evaluation staff, a technical staff and a project staff. MARD issued Decision 455/QD-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	Complied The PSC was established on 4 June 2007. PSC organized the quarterly meetings with representatives from Ministries, Departments and representatives of stakeholders. The most recent meeting was organized on 8 August 2011 on evaluation of project implementation progress and agreement on solution to problems and constraints.
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 maintenance after their transformation into self-financed organizations in accordance with the Borrower's Decree No. 115, issued in 2005.	SBV, IPMU	Being complied with Institutes have ensured that they provide enough staff with capacity and MARD ensured that they will provide counterpart 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/QD-BNN-KHCN to establish a science and technology

Reference in LA	Covenant	Responsibility	Status of Compliance
			committee with 11 members from DSTE under MARD, Ministry of Planning and Investment, VAAS, Viet Nam Gardening Associations (VGA), Vietnam National Vegetable, Fruit and Agricultural Product Corporation, Agricultural Project Management Board on 02 May 2008
Sched. 5, para. 7	<p>The Borrower shall ensure that the following criteria will be applied for selecting such research proposals:</p> <ul style="list-style-type: none"> (i) appropriateness to the client needs in the region through the results of participatory rural assessments; (ii) relevance to the national sector goals, strategies, and priorities; (iii) technical and financial viability and sustainability; (iv) linkage with agricultural extension and effective mechanisms for participatory technology development and information dissemination; (v) compliance with social and environmental requirements; (vi) involving at least one provincial agricultural extension center or extension advisory council; and (vii) not more than \$100,000 for each research proposal. 	MARD	<p>Complied</p> <p>Procedures on process and selection criteria of research projects including need-based selection criteria were approved by Deputy Minister of MARD on 20 June 2008 based on decision No.1874/QD-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.</p> <p>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 in research proposal implementation. Not more than \$100,000 for each research</p>

Reference in LA	Covenant	Responsibility	Status of Compliance
			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 31 March 2012 22.8% 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 73.8% 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 crop and livestock production and marketing; and (iii) Each of the extension contracts shall cost up to the maximum of \$10,000.	CPMU, and DARD, PPMUs	Being complied with 100% of all EA contracts is lower than \$10,000
Sched. 5, para. 12	The Borrower shall ensure that Project activities will be implemented in line with the Project's gender action plan, as agreed between the Borrower and ADB. In particular, the agreed gender action plan shall be reflected in the provincial plans for agricultural	CPMU, PPMU, and IPMU	Being complied with Provincial Action Plans of 5 PPMUs were approved reflecting gender issues as per the

Reference in LA	Covenant	Responsibility	Status of Compliance
	extension to be developed under the Project.		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 56.6% of households where head of household are women participating in AE contract implementation. Women beneficiaries are 49.66%
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 carried out during the design phase of all civil works, and (ii) the environmental monitoring plan for the Project will be effectively implemented.	CPMU, 10 technical and vocational training schools	Being complied with In accordance with Vietnamese law, an environmental impact assessment report was prepared before any civil works were built.

Cat	Name	Allocation SDR	Allocation US\$	Contracts Awarded US\$	Disbursed US\$	Uncontracted Loan Balance US\$	Remaining Contracts to be Awarded until End of Project US\$	Total Requirements until end of Project US\$	Increase/ (Decrease) in Reallocation US\$	Required Inc/(Dec) SDR	ADB Proposed Reallocation SDR	Remarks
01	Civil Works	700,000	1,079,516	1,322,350	1,225,785	(242,834)	-	1,322,350	242,834	156,864	856,864	- Packages awarded but not yet disbursed 100% + Elibrary package + Additional packages in letter dated 21 March 2012
02	Equipment	8,500,000	13,105,729	10,071,527	9,568,205	3,034,202	2,240,000	12,311,527	(794,202)	(513,034)	7,986,966	
03	Vehicles	14,000	21,482	20,081	20,081	1,401	-	20,081	(1,401)	(905)	13,096	Completed procurement of 1 car for CPMU
04	Materials	-	-	-	-	-	-	-	-	-	-	Expected trainings on curriculum development for 10 schools + overseas short term training courses + scholarships for AST students
05	Training	4,100,000	6,322,981	4,025,977	4,025,977	2,297,004	2,588,570	6,614,547	291,566	188,344	4,288,344	
06	Research/Extension Contracts	4,700,000	7,208,437	6,396,968	6,396,968	811,469	1,508,805	7,905,773	697,336	450,461	5,150,461	71 farmer-trial extension demonstrations + NAEC contracts + provincial demonstration contracts
07	Consulting Services	1,169,000	1,807,805	1,137,531	922,180	670,274	119,750	1,257,281	(550,524)	(355,624)	813,376	Additional fund for audit services in
08	Incremental Operating Cost	600,000	926,591	496,653	496,653	429,938	544,329	1,040,982	114,391	73,894	673,893	
09	Interest Charge	415,000	644,536	-	362,994	644,536	-	644,536	-	-	415,000	
10	Unallocated	-	-	-	-	-	-	-	-	-	-	
99	Imprest Account	-	45,173	-	3,000,000	45,173	-	45,173	-	-	-	
TOTAL		20,198,000	31,162,250	23,471,087	26,018,843	7,691,163	7,001,454	31,162,250	-	0	20,198,000	

Note: Figures taken from ADB LFIS as of 31 March 2012.
SDR/US\$ rate: 1.548050

Appendix 14: M&E SYSTEM - AST PROJECT- FROM JULY 2007 TO 31 MARCH 2012
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: <ul style="list-style-type: none"> 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) 	Aggregate value added of the agriculture sector to increase at about 3.7% Aggregate exports of the agriculture sector to increase at about 14.9% Not yet Evaluated	+ 15% + 0.5%	
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-farm natural resources		In 2010 GoV approve the Decision to increase the poverty line for 2011-2015 for rural communities to VND 400,000 per person month up from VND 300,000 per person per month (Decision No 1752/CT-TTg 21-09-2010)		

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
B. Outcome				
National system of agriculture science and technology (AST) strengthened				
	<ul style="list-style-type: none"> Income of 20,000 farmer households increased from 5-10% by applying new varieties and technique 	<ul style="list-style-type: none"> 25,650 farmers household increased from 10 - 30 % by applying new varieties and technique 	+ 28%	
	<ul style="list-style-type: none"> 50, 000 of poor farmers supported and advised from project extension services 	<ul style="list-style-type: none"> 71,000 poor farmers supported and advised from project extension services 	+42%	
	<ul style="list-style-type: none"> Average of about 70% of graduates from 10 Project schools enter into full-time employment¹ 	<ul style="list-style-type: none"> Not yet Evaluated 		
	<ul style="list-style-type: none"> Average applicants to 10 Colleges increase by 25% 	<ul style="list-style-type: none"> 		
	<ul style="list-style-type: none"> 50% of research projects and extension models reduced at least 10% of chemical fertilizer and pesticide. 	65 % of research projects and 50 % extension models reduced at least 10% of chemical fertilizer and pesticide	+7.5%	
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		In 2010 GoV approve the Decision to increase the poverty line for 2011-2015		

¹ The original DMF indicator was "average of about 90% of graduates from 10 Project schools enter into full-time employment"

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
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		for rural communities to VND 400,000 per person month up from VND 300,000 per person per month (Decision No 1752/CT-TTg 21-09-2010)		
Output Output 1				
Client-oriented Research and Capacity Strengthening				
Sub-component 1.1 Client-oriented Research program				
	1. 125 research programs are properly implemented.	100% implemented properly	100%	
	2. 40% of the research investments are in mountainous and remote areas	74.5% of the research investments are in mountainous and remote areas	+34.5%	In next version, please calculate value of research to be consistent with DMF indicators
	3. More than 60% of research projects that address poverty reduction and food security	65% of research projects address poverty reduction and food security	+ 5%	
	4. Productivity of 180 new varieties, 242 processes and 270 trials increased	Productivity of 198 new varieties, 244 processes and 291 trials increased	+ 9.4% + 1 %	

² The original target was 'about 180 research projects with 60 projects allocated to Agricultural Research Institutes and Provincial Agricultural Extension Centres/Provincial Agricultural Extension Advisory Councils and about 120 projects of Universities, enterprises and non-state-owned enterprises' (PIM, Chapter 5, pp.48-49).

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	higher 10-25% compared to control.	higher 10- 55 % compared to control	+ 7.7%	
	5. At least 50% of research project results are adopted by extension services for on-farm trials	56 % of research project results are adopted by extension services for on-farm trials	+ 6%	
	6. 50% of research projects produce short-term results at a relatively low cost that can easily be extended to poor farmers	61 % can be easily extended to poor farmers	+11%	
	7. 3,000 farmer households participating in research project activities including 30% women head households and 20% of ethnic minorities	<ul style="list-style-type: none"> • 6538 farmer households participated in research project activities • 52% female-head households (3405) • 38.2% ethnic minority households (2108). 	<ul style="list-style-type: none"> • +117% • +22% • +18.2% 	
	8. 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 30% of ethnic minorities	<ul style="list-style-type: none"> • 1216 extension staff have participated in training • 22659 farmers have participated in training of which: <ul style="list-style-type: none"> - 10972 are women farmers (48.4%) - 8426 are ethnic minority farmers (37%) 	<ul style="list-style-type: none"> • +1.3% • +18.4% • + 7% 	Target should be 40% women
	9. 30% of research projects that have strengthened linkages with private sector and have established a link with companies for marketing	34.4% of research projects have linkages with or are oriented to the private sector.	+ 4.4%	
	10. 100% of research projects increase from 10-20% of profitability in comparison with reality	100% of projects evaluated increase profitability from 10- 50%	100%	
	11. 25% of research projects 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 	+16.6%	
	12. At least 600 researchers participating in implementation of 125 research projects including 40% of female	<ul style="list-style-type: none"> • 875 researchers participating in implementation of 125 research projects including 40.3% of female 	+36.2% + 10.3%	

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
<u>Sub-component 1.2</u> <i>Training of research staff</i>				
	1. Research staff with relevant postgraduate increased from 20% in 2007 to 30% in 2010	<ul style="list-style-type: none"> Not yet evaluated 		
	2. 1,250 researchers and laboratorial officers participating in training courses including 40% of female	<ul style="list-style-type: none"> 1467 participants (117.4% of target) 47% of women 	+ 17.4% +7%	
	3. 100% of training course are evaluated and result reported in progress report	100% of training course are evaluated and result reported in progress report	100%	
	4. 18 PhDs, 32 Masters Degrees and 5 Post-docs awarded (55 total)	<ul style="list-style-type: none"> 18 candidates studying for PhD 36 candidates studying for Masters Degrees <ul style="list-style-type: none"> 14 Masters degrees awarded 3 Post-docs fellows <ul style="list-style-type: none"> 3 post-docs completed Total 57 (55 target) (104%) 	+4%	
	5. At least 10% of overseas candidates are women	Achieved 22.8% of women (13)	+12.8%	
	6. 25 % of overseas study programs include environmental subjects	29.3% of candidates' overseas study programs address environmental subjects	+4.3%	
	7. 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	100%	
<u>Sub-component 1.3: Upgrade research and laboratory equipment</u>	1. At least 75% of equipments installed and utilized effectively	<ul style="list-style-type: none"> 92% of procured equipment has been utilized effectively 	+17%	
	2. 100% of equipment and machines meet Government of Viet Nam environmental standards	100%	100%	
	3. 70% of equipments utilization capacity	Over 80% of equipments utilization	+ > 10 %	

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
		capacity		
	4. % of number of samples sent for analysis in external laboratories decrease by 50%			
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 had to redo experimental trials		
Output 2 Component 2 Grassroots Agriculture Extension Improvement				

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
Subcomponent 2.1 Pro-poor Provincial Agricultural Extension Services	1. At least 6000 people participating in workshops including 25 % of women and 25% of ethnic minority	<ul style="list-style-type: none"> 6772 participants <ul style="list-style-type: none"> 1736 women (25.7%) 1921 ethnic minority people (28.4%) 	+ 28% + 0.7% + 3.4%	
	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 (100%)	100%	
	3. 5 TOT group established in 5 provinces with 43 members	<ul style="list-style-type: none"> 5 TOT groups established 45 persons with 8 to 10 persons in each group 	+4%	
	4. Organized 500 training course at 5 provinces,	Organized 986 training courses including: <ul style="list-style-type: none"> 60 courses for provincial and district extension staff 803 courses for agricultural extension workers at commune. 101 courses for extension service providers 	+ 97%	
	5. Training for 500 provincial and district extension staff and 5,500 service providers.courses and agricultural extension workers at commune including 40 % of women..	Training provided for: 1472 provincial and district extension staff (trainee equivalents) including 30% of women.. 22760 service providers and agricultural extension workers at commune level (trainee equivalents) including 23 % of women.. <ul style="list-style-type: none"> 	+ 47.2% + 313% - xxx%	
	6. 80 % of training course are evaluate input and out put questionnaires and result report	<ul style="list-style-type: none"> 90 % of training course are evaluated and result report 	+ 10%	
	7. 30% of training courses incorporate market linkages for the poor	30%	100%	

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	8. 60% of training courses incorporate training on: gender mainstreaming, participatory method, and climate change, environmental, social, and health implications of agricultural technologies	60%	100%	
	9. Organize agricultural extension study tour to overseas for staff of 5 PPMUs, MARD and CPMU	<ul style="list-style-type: none"> Conducted study tours in Thailand and Taiwan with 44 people 9 (20.5%) participants are women. 		
	10. At least 200 provincial, district staff participated in country study tour including 40 % of women	<ul style="list-style-type: none"> 209 participants Women 16.8% of participants 	+4.5% xxx	
	11. Number of extension information : 6 National television programs (VTV), 7 broadcast programs (VOV) 20 Provincial television programs in 5 provinces 10 DVD	<ul style="list-style-type: none"> 6 programs on VTV completed 7 programs on VOV completed 20 television programs Not yet evaluated 	100% 100% 100%	
	12. At least 70% of poor and ethnic households in 157 project communes have access to information broadcast by project communication channel.	Not yet evaluated		
Sub-Component 2.2 Promotion of extension contracts	1. At least 500 extension contracts will be awarded in 157 poor communes in 5 provinces ³	<ul style="list-style-type: none"> 573 agricultural extension contracts implemented 	+14.6%	
	2. At least 40 % of the value of extension contracts addressing need of upland or remote communities	<ul style="list-style-type: none"> 63.3 % of the value of extension contracts 	+23.3%	
	3. At least 10,000 households participate in extension models	<ul style="list-style-type: none"> 19112 households participated in agricultural extension models. 	+ 91 %	
	4. At least 50% of participants in the	<ul style="list-style-type: none"> 86.5% of households participating in 	+ 36.5%	

³ Original DMF Indicator: "not less than 40% of the value of extension contracts addressing needs of upland or remote communities". This relates to revised indicators 1, 5 and 7 of Sub-component 2.2

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	extension models are rural poor households	agricultural extension models are poor households (16597)		
	5. At least 50% participants of extension models are women	<ul style="list-style-type: none"> 56.6% of participants in extension models are women (8530) 	+ 6.6%	
	6. At least 20% beneficiaries of extension models are ethnic minorities	<ul style="list-style-type: none"> 40.1% of beneficiaries of extension models are ethnic minority people (23264). 	+ 20.1%	
	7. At least 10% extension contracts will be research trial model in the field.	Up to now it is 6 % of all contracts since 2008	- 4%	
	8. 80 % of extension contracts increase over 10 % of profitability in comparison with reality	96.3%	+ 16.3%	
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 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				

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
research activities				
Output 3				
Component 3 Rural -based Technical and Vocational training				
Sub-component 3.1 Strengthening of management, teaching and curriculum improvement	1. Conduct a study tour oversea for representatives of 10 schools and DOP and CPMU including 20% women	23 participants with 6 women (26%)	100% + 6%	
	2. At least 20 curricula programs improved for 10 schools	• 30 curricula programs have been developed,	+50%	
	3. Number of curriculum boards with private sector participation as a Board member	•		
	4. 300 teacher / administrator trained in teaching methods, systems and procedures for compiling training materials including 30 % women	• 596 teachers and administrators have been trained on curriculum development and training program development (trainee equivalents) with 183 women (30.7%)	+ 84% + 0.7%	Survey shows that xx % of staff of colleges are women
	5. 100 % of training course are evaluated and result reported in project progress report	100 % of training course are evaluated and result reported ???	100%	
	6. 100% schools networked through electronic library	100% of school libraries are networked	100%	
	7. Number of subjects utilizing equipment increase by 20%			
	8. Average number of applicants increase by 25%			
Sub-component 3.2 Invest in upgrading facilities, technology, equipment, books and teaching materials	1. At least 80 % of equipments installed and utilized effectively	• 92% of procured equipment has been utilized	+12%	

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
	2. 100% of machinery, equipment and other construction projects meet the environmental standards of the Government of Vietnam	100% of machinery, equipment and other construction projects meet the environmental standards of the Government of Vietnam	100%	
	3. 70% of equipments utilization capacity	Trên 80 % of equipments utilization capacity	+ > 10%	
	4. At least 80 % of laboratories and libraries effectively utilized	> 90 % of laboratories and libraries effectively utilized	+ 10%	
	5. % of number of samples sent for analysis in external laboratories decrease by 50%			
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				
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)				

Planned Outcomes	Monitoring Indicators/ Targets	Progress	Assessment	Recommendation/ Actions
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				

APPENDIX 15: DESIGN AND MONITORING FRAMEWORK (REVISED)

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks
Impact Sustainable and equitable agricultural growth achieved	<ul style="list-style-type: none"> Aggregate value added and exports of the agriculture sector to increase at about 3.0–3.2% and 12.3–14.3% respectively per annum during 2006–2010 in line with the 5-Year Socioeconomic Development Plan Poverty incidence in rural areas decreased from 45% (2003) 	<ul style="list-style-type: none"> National accounts National agricultural statistics (annual yields, production volume and value, varieties of crops and other products, and other relevant data) Poverty assessments Monitoring by the Ministry of Agriculture and Rural Development (MARD), and Ministry of Planning and Investment (MPI) 	Assumptions <ul style="list-style-type: none"> Macroeconomic stability maintained during the project period The country's agriculture sector continues to be effectively integrated into international markets Sustainable use of on-farm and off-farm natural resources
Outcome National system of agriculture science and technology (AST) strengthened	<ul style="list-style-type: none"> Client-oriented AST system in place with improved and more effective mechanisms for technology dissemination Closer linkages established between research and extension activities Multiple extension services in place, involving various service providers 	<ul style="list-style-type: none"> Monitoring by MARD and MPI Project review missions of the Asian Development Bank (ADB) Project monitoring system and progress reports Regular dialogue with key stakeholders involved in the national AST system, including extension centers and research institutes 	Assumptions <ul style="list-style-type: none"> Continued Government commitment to the market-oriented agriculture sector in line with the national socioeconomic development plans Continued Government policies and actions to streamline AST institutions to respond to the national development goals Agriculture market information systems effectively implemented
Outputs 1. Capacity of physical and human resources for agricultural research improved	<ul style="list-style-type: none"> Efficiency and usage of laboratory equipment increased substantially with <u>number of samples sent for analysis in external laboratories declined by 50%</u> Research staff with relevant postgraduate qualification 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports, including inventories of equipment and staff lists Midterm and completion reviews of the Project 	Assumptions <ul style="list-style-type: none"> The Government's plan for research institute reorganization implemented Skilled staff retained in the national AST system Adequate financial resources for proper operation and

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks
	increased from 20% in 2003 to 30% in 2008 in line with the human resource development plan for agricultural research	<ul style="list-style-type: none"> Regular dialogue with key stakeholders involved in the national AST system 	<p>maintenance</p> <p>Risk</p> <ul style="list-style-type: none"> Inappropriate intervention into procurement and selection of trainees
2. Agricultural research activities made more responsive to client needs	<ul style="list-style-type: none"> Research and technology transfer contracts undertaken in provinces of different agro ecological regions Not less than 40% of the value of research contracts addressing needs of upland or remote communities 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports, including contract awards Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<p>Assumptions</p> <ul style="list-style-type: none"> Government procedures and regulations improved for the client-oriented AST system of the country Increased awareness among the stakeholder agencies about the need for client-oriented agricultural research activities
3. Farmers' access to participatory and pro-poor agricultural extension improved	<ul style="list-style-type: none"> Needs-based provincial planning systems for agricultural extension established Project extension activities implemented in upland and remote areas of the five project provinces Not less than 40% of the value of extension contracts addressing needs of upland or remote communities 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports, including assessment of poverty incidence and evaluation of training and seminar programs conducted under the Project Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	<p>Assumptions</p> <ul style="list-style-type: none"> Active participation of key stakeholders in local communities in planning and implementation of grassroots extension services Effective linkage between research and extension maintained <p>Risk</p> <ul style="list-style-type: none"> Inadequate finance made available for the extension services
4. Improved linkage of agricultural extension services with research strengthened	<ul style="list-style-type: none"> Participation of provincial extension centers in regional research activities, including provincial research programs and field research trials Practical linkages between farmer 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with 	<p>Assumptions</p> <ul style="list-style-type: none"> Government procedures and regulations improved for effective linkages between research and extension Increased awareness among

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks
	groups, extension service providers, and research institutes formalized <ul style="list-style-type: none"> Effective mechanisms for increased stakeholder participation in extension services established 	key stakeholders involved in the national AST system	local extension workers about the need to strengthen linkages with research activities
5. Rural-based technical and vocational training made more responsive to national sector goals	<ul style="list-style-type: none"> Effective systems to link between schools and industries in place Appropriate curriculum guidelines introduced to reflect national sector goals 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	Assumptions <ul style="list-style-type: none"> National curriculum guides developed in line with the national sector goals School-industry councils provide effective guidance to schools Labor market information effectively communicated to technical and vocational schools
6. Capacity of rural-based technical and vocational training strengthened	<ul style="list-style-type: none"> Average usage of school and laboratory equipment in the schools selected under the Project increased substantially <u>with number of subjects utilizing equipment increased by 20%</u> Average of about 9070% of the graduates of the targeted schools enter into full-time employment and <u>average number of applicants increased by 25%</u> 	<ul style="list-style-type: none"> Monitoring by MARD and MPI ADB review missions Project monitoring system and progress reports Midterm and completion reviews of the Project Regular dialogue with key stakeholders involved in the national AST system 	Assumptions <ul style="list-style-type: none"> Adequate financial resources provided for operation and maintenance of upgraded equipment and facilities

Activities with Milestones		Inputs
1.1 Provision of laboratory facilities and equipment for research	Procurement commenced by December 2007	<ul style="list-style-type: none"> • ADB \$30.0 million • Government \$10.0 million
1.2 Provision of training programs for staff and researchers of research institutes	Training programs to be initiated by December 2007	
1.3 Provision of the agricultural research fund	Establishment of the fund by December 2007	
2.1 Establishment of formal linkages between farmer groups, extension service providers, and research institutes	Issuance of circulars by June 2007	
2.2. Provision of training facilities and equipment for provinces and districts	Procurement commenced by September 2007	
2.3 Development of national and provincial extension contract systems with local service providers	Systems developed by December 2007	
3.1 Provision of school facilities and equipment	Procurement commenced by December 2007	
3.2 Revision of school curriculum guidelines	Revisions to be completed by December 2008	