



European Commission
EuropeAid/ASIE/2006/119984



PROGRESS REPORT NO.3

JULY-DECEMBER 2007

Provision of Technical Assistance to the Ministry of
Agriculture, Irrigation & Livestock
for the implementation of the
Perennial Horticulture Development Project Afghanistan

EuropeAid/ASIE/2006/119984

February 2008



in cooperation
with



KEY DATA SHEET	
Name of the Project:	Perennial Horticulture Development Project (PHDP)
Contractor:	<i>IAK consortium, comprising:</i> IAK Agrar Consulting GmbH AHT Group AG University of Florence Department of Horticulture
Contracting Authority:	European Commission
Contract Number:	EuropeAid/ASIE/2006/119984
Start/End Date:	20 th May 2006 to 19 th March 2011
Budget:	€12,500,000 overall, Technical assistance through IAK consortium €4,520,646, together with €6,500,000 grants to NGOs
Beneficiary:	Government of Afghanistan Ministry of Agriculture, Irrigation and Livestock (MAIL) Farmers of Afghanistan
Primary Location:	Kabul MAIL Headquarters
Secondary Location:	Kabul-Badam Bagh, Herat, Balkh, Kunduz, Nangarhar, Kandahar (MAIL research farms); nationally, in conjunction with NGO implementing partners
Key Events to Date:	
20 th May 2006	Official commencement of project; TL takes up office in MAIL
27 th –31 st May 2006	Initial fact finding mission to Mazar-i-Sharif and Kunduz with the medium term horticulture policy adviser (from forerunner mission of PHDP main mission; part of handover process which terminated 7 th June 2007)
4 th June 2006	The first monthly report for the project, for the month of May, was sent to the Delegation, and the format has been used on every monthly report since.
13 th June 2006	Opening Ceremony with HE Obaidullah Ramin, Minister of Agriculture and Irrigation, at MAI HQ, Kabul, including presentation of project by TL
19 th June 2006	Arrival of Horticulture Expert TA
1 st July 2006	First local expert staff and support staff started with the project
2 nd July 2006	First meeting with NGOs to present the aims and objectives of the project and to explain about the use of NGOs as implementing partners
12 th July 2006	First meeting of Horticulture Steering Committee, which disagreed with the recruitment process of project local expert staff without consultation with MAI. The recruitment to date was subject to review, and the process of recruitment changed, to include review by a selection sub committee. Some recruited staff then began to leave the project
24 th July 2006	Arrival of the Agronomist TA
16 th August 2006	Arrival of the Agricultural Economist TA
27 th August 2006	The issue of the revised recruitment process for local experts was resolved, and several approved candidates' CVs were sent to EC Delegation for endorsement

30 th August 2006	The proposed technical terms and conditions for the call for proposals from NGOs to act as project implementing partners were presented to the Horticulture Steering Committee and after incorporation of comments from the HSC were forwarded to the EC Delegation.
11 th –12 th September 2006	A workshop was held for provincial directors of agriculture and their directors of research or research farm, for the project participating provinces of Balkh, Herat, Kunduz, Nangarhar and Kandahar, as well as senior MAI persons, to explain the aims and objectives of the project, and to verify various ideas to be put forward in the Inception Report.
13 th -14 th Sept 2006	Staff training workshop (following on from above)
20 th September 2006	The draft of the Inception Report was submitted to the EC Delegation, and comments were later incorporated in a final text
24 th September 2006	The draft of the Work Plan 2006 was submitted to the EC Delegation and comments incorporated in the final text, which was prepared and distributed in one volume with the Inception Report
3 rd October 2006	EC Delegation issues call for proposals to NGOs cooperating with PHDP and sets closing date 21 January 2007
31 st October 2006	Briefing session for NGOs on call for proposals at Delegation
5 th November 2006	The Minister of Agriculture and Irrigation, Mr Obaidullah Ramin, and his senior managers were briefed by the team leader. A short written summary and responses to questions raised was later provided to the Minister.
8 th November 2006	A technical seminar on germplasm collection work to date was held for all interested MAI and NGO officials
12 th November 2006	The Project Germplasm Specialist finished his input into the project. This is a substantial change to the project to allow for the recruitment of a key long term Training and Human Resources Specialist TA. The germplasm collection and germplasm development programmes will be supported by specialist short term TA, within the overall project budget
Nov-Dec 2006	Training in the project research farms to demonstrate orchard planning and pruning.
4 th December 2006	Meeting of HSC: members requested more information about the project
14 th December 2006	At the request of the HSC, a workshop to explain all aspects of the project to the senior staff at MAI was held.
December 2006	A horticulture department is in the process of formation by MAI.
January 2007	Completion of 1 st Progress Report & Work Plan 2007 (draft submitted December 2006)
January 2007	Training on stone fruit pruning at Herat; commencement sowing stone fruit rootstocks at stations
January/February 2007	Closing date for NGO proposals and commencement of assessment procedures
January 2007 ongoing	Nursery surveys out of Nangarhar, Kabul and Herat centres continued
10 th February 2007	First input short term germplasm expert Prof Edgardo Giordani commenced
10 th February 2007	The final member of the local Afghan expert member of the team commenced work

Perennial Horticulture Development Project

15 th February 2007	First input of the long term training adviser, Mr Steven Wright, commenced
21 st February 2007	The first of a series of technical seminars on horticulture was presented, under the title "Pollination in Fruit Trees", attended by 40 key horticulturists
24 th -26 th February 2007	The first of a series of comprehensive workshops for project staff was held at Jalalabad
5-7 th March 2007	The TL, Horticulture Expert & Training Expert visited the Kohkaran Farm in Kandahar and assessed suitability for working with the project. The farm was adjudged suitable for project work, and to have more than sufficient buildings, built by JICA two years previously. Agreement was reached with the Provincial Director of Agriculture on use of this farm and building. This completed the project site selection
March 2007	Completion of contracting of NGO implementing partners by EC Delegation
12 th -13 th March 2007	TL participation in EC/FAO seed project inception seminar
14 th March 2007	First meeting of Horticulture Working Group with HLP & ASAP participation
March/April 2007	Meetings with NGO implementing partners to align logical frameworks and project proposals for effective implementation
28 th March 2007	Technical workshop on Climates & microclimates for fruit growing
30 th March 2007	Completion of Human Resource Development Expert report and training plan at end of first input
3 rd April 2007	Participation in HLP coordination inception workshop including presentation of PHDP plans and objectives
14 th April 2007	2 nd meeting Horticulture Working Group
22 nd -23 rd April 2007	Participation in the first Agricultural Fair (AgFair) at Badam Bagh grounds, Kabul
24 th April 2007	Staff training in Kabul on orchard development, databases etc
30 th April 2007	Beginning work on formation of first fruit tree nursery growers' association at Shakardara, Kabul province. First meeting with declaration of intent.
11 th -19 th May 2007	Study tour to Bulgaria for members of Horticulture Steering Committee and provincial directors of agriculture of PHD Centre participating provinces.
18 th May 2007	Completion of first 2007 input of Project Horticulturist, Nacho Trives (report on input provided)
May/June 2007	Report (PowerPoint, with slides) on Bulgarian study tour prepared for presentation to senior Ministry staff and other stakeholders
30 th May 2007	3 rd Technical Seminar on Orchard and Vineyard Irrigation Systems presented to over 50 participants
May 2007	Beginning work on formation of fruit tree nursery association in Bagram area (Parwan province) and Jalalabad (Nangarhar province) –initial meetings with expression of intent
30 th May 2007	Completion of first 2007 input Dr Bernhard Homeyer (report provided)
31 st May 2007	Horticulture Review Mission presentation – new horticulture funding ideas
24 th June 2007	Workshop on Nursery Association Development, mainly NGOs, including presence new local Afghan legal expert

Perennial Horticulture Development Project

25 th June-4 th July 2007	EC monitoring mission to PHDP
4 th July 2007	Technical seminar on "Clean germplasm systems"
10 th July 2007	Completion of 2 nd six-monthly progress report (draft) and transmission to EC Delegation
10 th July 2007	Completion of the Implementation Plan draft for horticulture as part of the MAIL planning for ANDS and submission to the Ministry
10 th July 2007	Completion of implementation plan for collection of in situ germplasm material for placing in PHD Centres, as output of short term germplasm specialist Dr Edgardo Giordani second input
8 th -11 th July 2007	Theoretical and practical training for 6 field horticulturist and 24 MAIL horticulture staff on grape vine trellising and budding & grafting of fruit trees in Kabul area
11 th July 2007	Completion of second input of HRD & training specialist
July 2007	Preparation work for ex situ collection of stone fruit budwood
4 August 2007	First collection of budwood from in situ germplasm accessions for the ex situ collection nurseries
August 2007	Letter authorizing PHDP to take over existing building in Badam Bagh for rehabilitation as PHD Centre and germplasm clean up laboratory
26 th -29 th August 2007	Training in Herat of PHDP staff on all five project modules, with various site visits, and preparation of 2008 Work Plan proposals
1 st -3 rd September	PHDP participation in Herat Seed Fair, with stand
6 th September 2007	Third NGO coordination meeting; first whole day meeting
September 2007	Completion of budding of stone fruit accessions
September 2007	Receipt of 39 varieties of virus free citrus from Sicily budded onto rootstocks at Jalalabad
24 th -26 th Oct 2007	Participation in the 2 nd AgFair at Badam Bagh grounds, Kabul
30 th Oct 2007	Completion of inputs Agricultural Economist (organization development specialist) and reduction of TA to three long term international staff
1 st -3 rd Nov 2007	Participation in the AgFair at Mazar-i-Sharif
13 th Nov 2007	Fourth NGO coordination meeting at NUHDA
14 th Nov 2007	Fifth technical seminar on Orchard and Vineyard Design and Establishment at MAIL
15 th Nov-3 rd Dec 2007	Review of NGO implementing partners' LFAs on a one to one basis at EC Delegation
15 th -18 th Nov 2007	Participation in the AgFair at Herat
18 th November 2007	Applications for registering two nursery associations (Shakardara and Paghman in Kabul province) submitted to Ministry of Justice
10 th -23 rd Nov 2007	Input of short term international germplasm expert
25 th -28 th Nov 2007	Training in Kabul of PHDP staff, concentrating on detailed planning and budget for preparation of 2008 Work Plan
3 rd -5 th Dec 2007	Training for project staff and MAIL staff on pruning of peach, apricot and almond at private orchards in Paghman
8 th December 2007	First draft Work Plan 2008 submitted to EC Delegation for approval
Nov-Dec 2007	Coordination with EC Delegation on all final procurement requirements
21 st December 2007	Last date for any procurement contracts for PHDP

TABLE OF CONTENTS

<i>Abbreviations and Acronyms</i>	7
1. MANAGEMENT SUMMARY	9
1.1 <i>Introduction</i>	9
1.2 <i>Project summary</i>	9
1.3 <i>PHDP core implementation activities</i>	10
1.4 <i>PHDP project management issues</i>	10
2. PROJECT WORK PROGRAMME	11
2.1 COMPONENT 1: MAIL WITH ESTABLISHED HORTICULTURE SUB-SECTOR	11
<i>Table 1. Component 1. Activity Frame</i>	12
2.2 COMPONENT 2: PERENNIAL HORTICULTURE DEVELOPMENT CENTRES (PREVIOUSLY NAMED DEMONSTRATION ORCHARDS COMPONENT)	14
<i>Table 2: Component 2. Activity Frame</i>	15
2.3 COMPONENT 3: IMPROVED PLANTING MATERIALS INDUSTRY (<i>PREVIOUSLY NAMED MOTHER STOCK NURSERIES & NUCLEUS NURSERY COMPONENT</i>)	16
<i>Table 3: Component 3 Activity Frame</i>	17
2.4 COMPONENT 4: THE NATIONAL COLLECTION OF FRUIT AND NUT TREE VARIETIES IN AFGHANISTAN (<i>FORMERLY CALLED THE GERMPLASM COLLECTION COMPONENT</i>)	18
<i>Table 4: Component 4 Activity Frame</i>	19
2.5 COMPONENT 5: SUPPORT TO FARMERS	21
<i>Table 5: Component 5. Activity Frame</i>	22
3. TRAINING AND HUMAN RESOURCE DEVELOPMENT COMPONENT	23
<i>Table 6a Summary of training events completed in the reporting period.</i>	25
<i>Table 6b Summary of training events planned for the next period</i>	25
<i>Table 6c Training coordinators for NGO projects</i>	26
<i>Table 6d Training: progress by project component in reporting period and expectations for next reporting period</i>	27
4. ADAPTIVE RESEARCH COMPONENT	30
<i>Table 7: List of Main Areas for Adaptive Research Component</i>	30
5. HORIZONTAL ACTIVITIES AND OTHER TASKS	31
<i>Table 8: Horizontal Activities and Project Management. Activity Frame</i>	32
6. THE RELATED INPUTS AND OUTPUTS	33
6.1 TECHNICAL ASSISTANCE INPUTS IN JULY TO DECEMBER 2007	33
6.1.1 <i>Key Experts</i>	33
6.1.2 <i>Short term International Experts</i>	33
6.1.3 <i>Long term local experts</i>	33
6.1.4 <i>Short term local experts</i>	34
<i>Table 7: List of Expert Positions and planned inputs as at end 2007</i>	34
<i>Table 8: Expert Inputs in 2007 in Days (actual to end December)</i>	36
6.2 PROJECT FACILITIES AND LOGISTICS	37

6.3	PROJECT MANAGEMENT.....	37
6.4	<i>The Identification and Timing of major Milestones</i>	<i>38</i>
	<i>Table 9: Major Milestones achieved to date.....</i>	<i>38</i>
6.5	<i>Finance.....</i>	<i>41</i>
	<i>TECHNICAL ASSISTANCE EXPENDITURES.....</i>	<i>41</i>
	<i>SUPPLIES AND WORKS FOR DO / NN / GERMPLASM CENTRES EXPENDITURES.....</i>	<i>42</i>
	<i>DIVERSE EXPENDITURES</i>	<i>42</i>
	<i>EXPENDITURES FOR GRANTS FOR NGOs</i>	<i>43</i>
	ANNEXES.....	44
	ANNEX A LOGICAL FRAMEWORK.....	45
	ANNEX B PROJECT BUDGETS, WITH LATEST PROJECTIONS	51
	ANNEX C: STAFF OF THE MINISTRY OF AGRICULTURE & IRRIGATION.....	53
	ANNEX D PROGRESS ON NURSERY ASSOCIATION DEVELOPMENT	55
	ANNEX E: MISSION REPORTS OF EDGARDO GIORDANI (GERMPLASM SHORT TERM EXPERT)	59
	ANNEX F: GERMPLASM COLLECTION STATUS REPORT	65
	ANNEX G: NUMBERS OF FRUIT TREE NURSERIES PER DISTRICT AND PROVINCE.....	66
	ANNEX H SHORT DESCRIPTION OF EC VISIBILITY ACTIONS.....	69

NOTE: Documents used in preparation of this document, and excerpts from which may be quoted in this document include:

Inception Report

Work Plan 2006 (bound in one volume with the Inception Report)

Work Plan 2007

Work Plan 2008

Project Monthly Progress Reports, twenty issues for May 2006 to December 2007

Progress Reports 1 & 2 (to end June 2007)

Project proposals from NGOs (ten successful bidders out of 23 submissions)

These documents are with the EC Delegation and are not reproduced in full here

Other project documentation includes the databases on the germplasm collection (The National Collection of Varieties of Fruits and Nuts in Afghanistan) and the national nursery survey 2006-2007. The training modules, technical information collected by the project, are all held for further use in the project as necessary.

Abbreviations and Acronyms

ADB	Asian Development Bank
AHT	AHT Group AG (formerly Agrar- und Hydrotechnik GmbH)
ALP	Alternative Livelihoods Program (from USAID)
ANDS	Afghanistan National Development Strategy
ASAP	Accelerating Sustainable Agriculture Program (USAID)
AusAID	Australian Agency for International Development
CADG	Central Asia Development Group (NGO)
DANIDA	Danish Agency for Development Assistance
DF	Demonstration Farm
DFID	Department for International Development (GB)
DO	Demonstration Orchards
DUS-Test	(for new plant varieties) - distinct (D) from any other variety, sufficiently uniform (U) and stable (S)
EC	European Commission
ECD	European Commission Delegation
ex situ	Refers to germplasm material that is removed from its original location and is maintained at a central location
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
GAF	German Afghanistan Foundation
GTZ	Gesellschaft für Technische Zusammenarbeit mbH (German Technical Cooperation)
HACCP	Hazard Analysis and Critical Control Point
HLP	(Emergency) Horticulture and Livestock Project (World Bank)
HSC	Horticulture Steering Committee
HVH	High Value Horticulture (Task Force)
IAK	IAK AGRAR CONSULTING GMBH
IDA	International Development Association (World Bank)
IMF	International Monetary Fund
in situ	Refers to selected germplasm material kept in the original place where it was found

IPGRI	International Plant Genetic Resources Institute
LFA	Logical Framework Approach
LFWG	Legal Framework Working Group
MAIL	Ministry of Agriculture, Irrigation and Livestock <i>Previously:</i> Ministry of Agriculture and Irrigation (MAI), Ministry of Agriculture, Animal Husbandry and Food (MAAHF)
MCPD	Multi-Crops Passport Descriptors
NGO	Non-Governmental Organisation
NN	Nucleus Nurseries (also referred to as Mother Stock Nurseries)
OTF	On the Frontiers (US American consultancy firm) - (Competitiveness Project)
PCM	Project Cycle Management
PHDP	Perennial Horticulture Development Project
PHD Centres	Perennial Horticulture Development Centres (<i>combined sites incorporating "Nucleus Nurseries", "Demonstration Orchards" and "Germplasm Collection" centres</i>)
PR	Public Relations
PRA	Participatory Rural Appraisal
PRAG	Practical Guide to contract procedures financed from the General Budget of the European Communities in the context of external actions
RAMP	Rebuilding Agricultural Markets Project (USAID funded)
TL	Team Leader
ToR	Terms of Reference
UK	United Kingdom
US	United States
USAID	United States Agency for International Development

1. MANAGEMENT SUMMARY

1.1 Introduction

This Progress Report covers the activities of the Perennial Horticulture Development Project in Afghanistan (EuropeAid ASIE/2006/119-984) over the period from 1st July to 31st December 2007. The project commenced on 20th May 2006. The first Progress Report covered the period from 20th May to 31st December 2006, and the second Progress Report covered the period 1st January to 30th June 2007

1.2 Project summary

The project supports the role of the MAIL in running the demonstration orchards on the MAIL research farms specialising in horticulture. The project will make a national collection of fruit and nut varieties in the country. The project will *catalogue* these varieties, that is, list them with names and codes, describe them and keep them as living collections on the MAI research farms. ***Note that, as at the end of 2007, virtually every variety of fruit and nut that is multiplied on commercial nurseries in Afghanistan is represented in the National Collection of Varieties with one or more registered in situ accessions.***

After collection, and cataloguing, the varieties will be evaluated and the information provided to nursery growers, farmers and extension workers, and demonstrated in the demonstration orchards. Each variety will be collected onto two sites to ensure security of the collection. The collection will not all be in one place, but will be accessible through records held on a central database, thus creating a “*National Collection*”. All the varieties will be made available to the fruit tree nursery growers through a system of dissemination of planting and grafting materials. (Ideally this should be done after cleaning of the varieties from pests and diseases, but this will need to await a follow on project, with new funding). These (clean) planting and grafting (budding) materials will be held in (registered) mother stock nurseries, normally within the private sector. The research farms holding the collections of varieties of fruits and nuts are not suitable for acting as registered mother stock nurseries, as the varieties of fruits and nuts collected are not necessarily free of pests and diseases. The term “nucleus” stock, in the context of this project, has a very limited meaning, as a highly protected small number of plants, derived directly from material that has been cleaned up from specific pest and disease contamination. The existing mother stock nurseries at Badam Bagh and Herat Urdokhan farms, containing imported rootstocks, could not be registered as disease free under a full scale planting materials certification system. However, for the present, these nurseries offer better materials than exist in general, and will be continued as part of the training and demonstration

parts of the project. A small NGO project under PHDP funding will train two staff in disease indexing techniques, and will work on assessing the disease status of collected germplasm.

Various major donors are considering investments in horticulture in different areas and on different research farms within the Ministry. The project team will continue to adapt the project to changing circumstances under the guidance of the Horticulture Steering Committee, while remaining committed to the project purpose and to the project's core activities. The need for greater emphasis on training has resulted in the recruitment of a specialist Human Resources Development and Training TA, as from February 2007. This change was achieved within the original budget by dropping the long term Germplasm Expert and relying on specialist short term inputs to support this component of the project. These various changes were included in the Work Plan for 2007, and this report details how the Work Plan for 2007 has been implemented between 1st July and 31st December 2007.

1.3 PHDP core implementation activities

The guiding mission of the project is seen as the creation of a core of knowledge for the horticulture industry in Afghanistan, centred around the knowledge of the best varieties, and of the best growing techniques, for a market focused high quality export horticulture industry. As part of the guiding concept the project team will liaise with other donors and projects to ensure that the commensurate development of other facilities and services takes place, including all aspects of integrated pest and disease management; soil, water and plant tissue analysis; agricultural inputs (fertilisers and agrochemicals) control and regulation; irrigation management; packing, storage and transport facilities. During the reporting period this liaison took place through the preparation of the final updated draft of the Afghanistan National Development Strategy document for horticulture. No ongoing formal liaison system is present, but the Work Plan for 2008 indicates some possibilities. The project intends to remain a key player in the development of the horticulture industry in Afghanistan.

1.4 PHDP project management issues

The project has now completed all procurement and any unallocated budget lines have now been allocated by the EC Delegation. These changes are reflected in the various budget lines in the appropriate sections. An estimate has been made of farm costs and incidental expenditures to the end of the project, in accordance with the responsibility of the Contractor for overall management of project budgets to ensure sufficient money is available over the five years for necessary project expenditure.

2. PROJECT WORK PROGRAMME

2.1 Component 1: MAIL with established Horticulture Sub-Sector

2.1.1 Horticulture Steering Committee

The Horticulture Steering Committee (HSC) did not meet in the second half of 2007. The membership was altered twice during 2007, but the HSC did not meet. Issues concerning the PHDP were resolved using other MAIL organisational structures.

2.1.2 Horticulture Directorate General and Horticulture Department

The Horticulture Department was formed at the beginning of 2007, and the PHDP supported four members of staff with incentives and training. The PHDP has adjusted to the new structure put in place since September 2007, where there is a Director General of Horticulture & Plant Services, whose authority covers the Horticulture as well as Plant Protection and other departments. The PHDP is mainly concerned with supporting the work of the Director General and training the Horticulture Department Director and two other members of the Horticulture Department in relevant activities. Unfortunately, the various persons involved in the horticulture departments did not participate in the PHDP staff training and other activities to which they are invited. Some specific specialist training will be provided in the future, but evidence to date does not show any enthusiasm for participation in the project.

2.1.3 Agriculture Master Plan

The 2005 Agriculture Master Plan process continued during 2007 with the development of an implementation plan in line with the requirements of the Afghanistan National Development Strategy (ANDS) process. The PHDP team leader assisted the Horticulture Department in completing a revised plan for horticulture to be incorporated into the Afghanistan National Development Strategy (ANDS) document. This work was completed quickly and effectively as a result of the work earlier in 2007 of the Horticulture Working Group (HWG), which included leading members of horticulture projects and other senior people. The HWG in 2007 was convened and meetings arranged entirely on the initiative of the Team Leader of PHDP.

2.1.4 NGO coordination

The MAIL horticulture department was invited to the NGO coordination meeting in November. A token representative was sent, but no detailed participation in the coordination work with NGOs was undertaken by MAIL. The MAIL monitoring and evaluation work has still to be developed, and no effective system is currently in place.

Table 1. Component 1. Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Assist in the coordination activities of the Horticulture Steering Committee.	<ol style="list-style-type: none"> 1. Revised investment proposals at PHD centres agreed, and procurement procedures underway with EC Delegation 2. Monthly reports provided to HSC 3. Horticulture Working Group meetings on issues of coordination & planning of horticulture activities 	<ol style="list-style-type: none"> 1. Completion of main PHDP investments 2. Continue lead role in HWG to develop planning coordination and monitoring systems for horticulture in MAIL 	<p>No meetings of HSC were called</p> <p>More planning and coordination will be linked to new horticulture department and other structures in Ministry</p>
Ensure that the aims and activities of the project are understood among stakeholders and other projects	<ol style="list-style-type: none"> 1. New pictures and poster displays were prepared for the various AgFairs and Herat Seed Fair 2. Workshops and other presentations were arranged 	<ol style="list-style-type: none"> 1. Representation at 2nd AgFair Oct 07. 2. Organise regular workshops and other meetings 	<p>The EC visibility guidelines are being followed where possible.</p>
Developed horticulture policies and strategies.	<ol style="list-style-type: none"> 1. Completed 2007 round of horticulture planning for ANDS by September. 2. Made progress on preparing technical dossier for each PHD Centre and relevant region 3. Involvement with policy & planning workshops in MAIL dealing with organisation development. 	<ol style="list-style-type: none"> 1. Continue collection & collation of data for planning & monitoring purposes 2. Contribute to MAIL planning systems 3. Organise national horticulture workshop for key stakeholders. 4. Consultation on development of planting materials regulations under the Seed Law 	<p>PHDP will continue its specific data collection role in tree nursery business.</p> <p>Other data will come from other projects and MAIL.</p>
Continue the Policy and Strategy Advisory role during the project's lifetime.	<ol style="list-style-type: none"> 1. Responsibility has been taken for organising and leading the work of the Horticulture working Group. 	<ol style="list-style-type: none"> 1. Prepare strategy documents in conjunction with stakeholders. 	<p>Other projects will be drawn into the process of policy & strategy development</p>
Assist the MAIL in coordination of NGOs and other actors in the horticulture sub-sector.	<ol style="list-style-type: none"> 1. Held individual meetings with each NGO implementing partners of PHDP as well as two general meetings. 	<ol style="list-style-type: none"> 1. Further meetings with nine NGOs will be held on a regular basis. 2. Ensure NGOs provide feedback with reports and data for the PHDP and MAI information systems. 	<p>The NGOs are enjoined by the EC to have a working relationship with the PHDP Consultant, who will need to have proactive data collection and coordination programmes.</p>

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
<p>Assist in the development of a sustainable public-private partnership for the perennial horticulture sector</p>	<ol style="list-style-type: none"> 1. Completion of surveys of fruit tree nurseries with a view to development of relevant associations. 2. Registration application of the first two fruit tree nursery associations; formation of three more, and initial meetings for three more. 3. Coordination with horticultural export promotion agencies and projects 4. Coordination with National Union for Horticulture Development in Afghanistan (NUHDA) 	<ol style="list-style-type: none"> 1. Support to development of nursery associations by NGO partners 2. Formation of a national union of nursery growers to become a member of NUHDA 3. Coordination with NUHDA and other stakeholders in horticulture 	<p>The organisation development programme of PHDP includes different industry groups.</p> <p>The organisation development programme of PHDP will link its farmers and marketing groups to specific marketing organisations and projects.</p> <p>The Horticulture Union is expected to be the main public/private sector horticulture stakeholder group</p>

2.2 Component 2: Perennial Horticulture Development Centres (previously named Demonstration Orchards component)

2.2.1 Development of the PHD Centres

The demonstration orchards and vineyards will be a key feature of the Perennial Horticulture Centres, which will also include the germplasm collections and mother stock nurseries and other horticultural activities as may be developed later. The Centres will ensure the building up of the technical knowledge required to strengthen the MAIL role in the development of the horticulture sector, particularly in such subjects as: horticultural extension, National Variety List development; a plant certification system; definition of market standards for fruit and nuts; definition of best horticultural practices and other related topics. It is felt that this broader project role should be reflected in the title of this project component.

The Perennial Horticulture Development Centres building programme has had to be revised due to the inability of the EC Delegation to transfer project funding from equipment to civil works, in accordance with a strict interpretation of EC rules. The idea for this transfer of funding was foreseen in the Project Inception Report of September 2006, with more details provided in the 2007 Work Plan. The building work will now be limited to the rehabilitation of the tissue culture laboratory building at Badam Bagh and the building of the Herat site to a minimum specification.

2.2.2 Demonstration orchards

One peach orchard to demonstrate planting distances and pruning systems of two varieties of peach was planted in early 2007 in Herat. While it was stated in the 2007 Work Plan that the planting of the demonstration orchards would start in 2007, it was decided in early 2007 that to do this in the spring of 2007 would be premature, as the project needed to work with nurseries to ensure the quality of the trees was adequate for the required purposes. It was therefore decided early in 2007 that the correct strategy would be to bud extra trees of the stone fruit to allow for the planting of demonstration orchards sourced from known accession material, which would give more relevant results. Some 100,000 trees of peach, apricot, almonds and plums were budded in 2007, which will provide for large areas of demonstration orchard if needed, whether at the PHD Centres or with the NGO programmes.

The detailed specification for each demonstration orchard planting programme for three years is given in the 2008 Work Plan. This is necessary to be able to arrange the planning of the production of trees in nurseries, obtain allocation of land from MAIL, and provide necessary

preparation and improvement of fertility ahead of planting. The specifications for each programme are accompanied by a detailed budget. Monitoring of expenditures for each crop will be done in 2008

Table 2: Component 2. Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Development of the PHD Centre sites.	1. The priorities for a reduced civil works programme was finalised and passed to EC Delegation in December 2007 to initiate procurement processes.	1. Supervision and coordination with building contractors	Construction to take place at Herat and rehabilitation at Badam Bagh Kabul
Demonstration orchards sites have been selected.	1. Dossiers prepared for each site with climate and other data. 2. Existing orchards at sites maintained.	1. Requirements for the demonstration orchards to be decided with participatory planning 2. Detailed plans to be prepared for 2007/8 winter plantings.	Plans will be more thoroughly evaluated to take into account long term needs.
Implement demonstration orchards and properly maintain them.	1. Training of project and MAIL staff continued during second half 2007.	1. The different operations will be used as a basis for providing the relevant training to the Ministry staff. 2. The programme includes orchard lay out, tree planting, pest and disease control, irrigation, and training of trees.	A detailed system for managing of farm operational expenses has been included in the Work Plan for 2008.
Identify the needs for participatory research.	1. Informal surveys of farmers in the areas served by the PHD Centres have been undertaken and problems assessed.	1. Further consultation with farmers will be undertaken in the demonstration farm areas 2. Problems of farmers will be analysed to develop a programme of relevant research.	The sites for the demonstration farms become the centres from which participatory research is organised.

2.3 Component 3: Improved Planting Materials Industry (previously named Mother Stock Nurseries & Nucleus Nursery component)

2.3.1 Mother stock materials

During the Inception phase of the project, the project re-defined the system for producing high quality fruit trees, and this is explained in detail in the Inception Report and Work Plan 2007. As the project develops, it is intended that the main mother stock nurseries are held in the private sector, under a government regulated certification and inspection system. These mother stock nurseries receive material from a specialised facility to be set up to clean up good clones of named varieties and to maintain small quantities of this cleaned up material in glasshouses or netting tunnels to protect the material from contamination and virus carrying insects such as aphids. This facility would be the nucleus nursery, or nuclear stock nursery.

During the reporting period, the project received virus free citrus variety material from Italy. This has indeed been budded onto seedling rootstocks which are held in a netting tunnel, in pots, to avoid contamination and infection.

The project to be implemented by Aga Khan Foundation (AKF) for the identification of disease infected germplasm under the PHDP funding was contracted by the EC Delegation during this period and the AKF has begun the process of recruiting trainees for this project. The work in this project will be carried out at a specialist facility to be built as part of the Badam Bagh Perennial Horticulture Development Centre in Kabul.

The project completed the surveys of the tree nursery industry in the country (Annex G). While not perfect, it is felt that the surveys have given more than enough information for valid decision making at this time. Almost all parts of the country that are accessible in the current security conditions have been surveyed for tree nurseries and fruit tree production numbers and the data collected onto a comprehensive database. The project has initiated the foundation of four more provincial nursery associations during this reporting period, bringing the total to seven, of which the first two have applied for registration with the Ministry of Justice. Discussions have been held with various NGO implementing partners to have them participate in the founding and running of nursery associations. As the district or provincial associations are set up, the PHDP will set up a national association with membership from the existing provincial associations, with membership open to further provincial associations as they are formed.

Table 3: Component 3 Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Development of PHD Centre sites.	<ol style="list-style-type: none"> 1. Detailed design of the PHD Centres passed to the EC Delegation for contracting. 2. Budding of the stone fruit nursery for the germplasm collection in situ trees' budwood was completed. 	<ol style="list-style-type: none"> 1. The construction will be supervised on the two sites 2. Budding of the pome fruit collection will take place in early and late summer 2008 	Budget limitations means that only Kabul and Herat PHD Centres could be rehabilitated/built
Implementation of a strategic plan to support organised nursery industry	<ol style="list-style-type: none"> 1. Surveys of nurseries completed. 2. The clean germplasm system project started by AKF 3. Seven nursery associations formed or in formation 	<ol style="list-style-type: none"> 1. Further local nursery associations will be formed 2. A national nursery association will be formed 	The results of the nursery surveys are available on computer databases.
Evaluation of germplasm including rootstocks and the development of improved germplasm	<ol style="list-style-type: none"> 1. The replanted clonal rootstock nursery at Herat developed to produce rootstocks for the 2008 germplasm collection 2. Donated virus free scion material of 39 citrus varieties from Italy was budded on to prepared rootstocks in Jalalabad 	<ol style="list-style-type: none"> 1. Further rootstock propagation work will take place, and rootstocks mother stock provided to other PHD Centres 2. Assessment of budded trees and the original sources of germplasm will take place 	The germplasm collection work is fully documented as a sound basis for provision of planting materials to the nursery industry
Prepare training material about budding and grafting and give training sessions of budding and grafting to private nurseries, farmers and farmers organisations.	<ol style="list-style-type: none"> 1. The first training on this and related subjects took place in the second half of 2007, as part of the development of training capacity of MAIL participating staff. 	<ol style="list-style-type: none"> 1. The training in 2008 will be on pome fruits 	The project trained staff and MAIL staff also on the correct procedures to ensure safe and secure protocols for avoidance of mistakes in transfer of budwood

2.4 Component 4: The National Collection of Fruit and Nut Tree Varieties in Afghanistan *(formerly called the Germplasm Collection component)*

2.4.1 Germplasm collection

During the second half of 2007, the identification of germplasm of different species continued, with the trees where budwood is to be collected being marked and the location being recorded for the collection team to return and note down the characteristics of the marked trees at flowering and fruiting time. The budwood of these trees was collected during August and September in a strictly controlled process to safeguard the integrity of the collection process. All the rootstocks were prepared before collection began, and labelled with the number of accession to be collected. All the collection records, labels for the collected budwood, route maps and directions, protocols for oversight and verification of the process were all instituted before the collection of the budwood began. The first budwood was collected on 12th August and the first tree budded with the first accession was on 13th August. The collection and budding was staggered over the different sites to allow for adequate supervision, and was interrupted by staff training in the last week of August. The collection of budwood continued until near the end of September to allow for late registration of germplasm, where it was felt that some important material was in danger of being missed.

In September, the project received a donation from Italy of a range of citrus varieties in the form of virus free budwood. As soon as the budwood was received, it was taken to Jalalabad for budding onto rootstocks that had been kept available.

For grapes and pomegranates, which are propagated from cuttings, the germplasm material will be collected in early 2008. The protocols for this operation are in place.

The project has arranged to include a germplasm clean up facility in the design of the building at Badam Bagh. Aga Khan Foundation is also contracted by EC Delegation to implement a project to develop a germplasm disease identification programme, which will provide training and the basis of an eventual germplasm clean up programme.

The database systems have been developed to manage the large amount of data to be collected on the germplasm collection, and will be further developed as the germplasm is collected, catalogued and evaluated over the next few years. It is envisaged that ownership and management of the germplasm collection will be shared between public and private sectors, and proposals for sustainability, including more donor funding, will be made.

Table 4: Component 4 Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Detailed collection of a range of varieties of fruits & nuts varieties	<ol style="list-style-type: none"> 500 trees have been marked as exemplar trees in this period. 467 stone fruit accessions budded for ex situ collection in this period 58 citrus accessions budded this period 	<ol style="list-style-type: none"> Figs, grapes and pomegranates will be collected from cuttings in the next period Clonal rootstocks will be prepared for the apples, pears and cherry variety collection Other minor crops will be collected 	The in situ collection now includes 791 accessions, of which 525 are received for ex situ collection. Some duplication of material will be sorted out later. <i>Virtually all commercially produced varieties in the country are now in the National Collection</i>
Develop a strategic plan to set-up and manage germplasm collection and preservation centres.	<ol style="list-style-type: none"> All centres participated in collection and budding of stone fruit accessions The decisions on which sites will host which species has been made 	<ol style="list-style-type: none"> 2008 germplasm collection programme varies by site, with collections generally made to the final centre where the collection will be held 	Ex-situ collections will be held at the Perennial Horticulture Development Centres. Transfers of plants to final sites will take place in 2008/2009 winter
Develop a strategic plan indicating the methods and schedule for evaluation of the germplasm collection.	<ol style="list-style-type: none"> PHDP germplasm development officer actively involved in germplasm programme. 	<ol style="list-style-type: none"> All steps in the budding and compatibility of the scion/ stock interactions will be monitored, and also rooting of cuttings in the case of grapes and pomegranates. 	Evaluation of collected germplasm at PHD Centres commences from the time the trees are planted in the permanent ex situ collections, from 2009 onwards
Develop a strategic plan for cleaning up selected germplasm and providing clean germplasm to the fruit tree nursery industry	<ol style="list-style-type: none"> The germplasm clean up report was translated into a sub-project to be implemented by Aga Khan Foundation. <i>Clean germplasm systems</i> was the subject of a technical seminar on 4th July 	The germplasm development officer will coordinate the AKF activities with the germplasm collection and other project activities	Interaction with the tree nursery industry is needed at all stages
Preparation specifications for the rehabilitation/ construction and equipment of the germplasm centre(s).	<ol style="list-style-type: none"> The Badam Bagh Perennial Horticulture Centre includes a germplasm clean up facility. 	<ol style="list-style-type: none"> Rehabilitation work for the Badam Bagh facility will be completed. 	The total works budget is insufficient for all the PHD Centres buildings.

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Assist in multiplying the most promising commercial varieties and investigate the yield potential of promising varieties and incorporate these in the demonstration orchards.	1. Following the initial phase of the germplasm in situ collection programme, the list of identified varieties was compared with the list of varieties obtained from the nurserymen's survey. Further germplasm collection was undertaken as necessary	1. Further assessments of the in situ collection will take place	Sufficient trees for substantial evaluation trials have been prepared. All the commercially propagated varieties are represented by at least one in situ marked tree, and germplasm collected.

2.5 Component 5: Support to Farmers

NGO implementing partners

There are ten projects contracted out to NGO implementing partners under the PHDP funding. Eight of the projects are area based horticultural projects working on tree nursery development, orchard development including rehabilitation and new planting, and institutional development including formation of growers' associations. Training and capacity development are important parts of all the projects.

One project from Roots of Peace especially emphasises the institutional development in the development of an almond industry association, although the nursery development and orchard development are also covered.

The tenth project, to be implemented by Aga Khan Foundation, was especially defined by PHDP to undertake training and development of capacity for identification of germplasm (virus) disease infection and lay the basis of an eventual germplasm clean up programme. This extends the project to cover a special subject area which is essential for a self sustaining perennial horticulture industry in Afghanistan.

The project continued to coordinate with the NGO implementing partners on the improvement of their approach to their projects. This included further discussions with each one on their Logical Framework Approaches, and the work plans. The LFAs were improved and rationalised, although the finalisation of the modified LFAs is held over until early 2008. The training elements of each NGO's programme were collated and assessed by the PHDP international training expert. Two more coordination meetings were held for all the NGOs during this period. The format of these meetings was developed to cover specific subjects, rather than just plain reporting of activities. It is hoped that these meetings can develop into common interest groups to further develop topics such as nursery association and nursery standards development, apricot drying and marketing, almond industry development and other common interests.

The programme for the development of nursery grower associations was also presented to the NGOs, and several of them have started taking an interest in sponsoring the development of nursery growers' associations in their areas.

Table 5: Component 5. Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Ensure that the NGO implementing partners have adequate programmes to support farmers in terms of production technology, processing, marketing, business management.	<ol style="list-style-type: none"> 1. Further reviewed all the NGO LFAs with the NGO teams to ensure consistency and clarity of approach with a view to later monitoring and coordination activities with PHDP 2. Organised two further joint coordination meetings with NGOs. 	<ol style="list-style-type: none"> 1. Monitor the NGO surveys on which they base the development and support programmes 2. Collate information collected by NGOs 3. Prepare common training modules for use by individual NGOs 4. Ensure that NGO training is technically adequate and uses information gathered during the course of the project. 	Regular coordination and information exchange meetings with NGOs begun and continuing
Complete information collection about fruit tree nurseries	<ol style="list-style-type: none"> 1. Completed carrying out nursery surveys 2. Used collected data to Inform strategy for nursery association formation. 	<ol style="list-style-type: none"> 1. Organise nursery grower meetings for interchange of ideas 	Gradual movement to a registration system
Begin process of registration of nursery growers and development of nursery associations	<ol style="list-style-type: none"> 1. Seven associations formed or in formation 2. Two associations submitted registration documents to Ministry of Justice using legal format developed in project 3. Discussions on development of nursery technical standards for voluntary adoption 	<ol style="list-style-type: none"> 1. Extension of nursery growers associations with help of NGO partners. 2. Publish first draft of nursery technical standards for voluntary adoption 3. Formation of national nursery association 	<p>Training in improved nursery practices</p> <p>Formal publication of nursery technical standards postponed due to too many other project activities going on.</p>
Assist in marketing and other developments to benefit the farmers.	<ol style="list-style-type: none"> 1. Ongoing coordination with other projects such as HLP, ASAP 	<ol style="list-style-type: none"> 1. Link with other specialist projects and organisations to provide information for the NGO farmer groups 	<p>Support the development efforts of the Horticulture Union.</p> <p>More specific areas of cooperation particularly related to the core project interest in variety evaluation need to be developed</p>

3. Training and human resource development component

The project has five major components, each of which has a large element of training, and human resource development. The training and human resource development was considered important enough in its own right to justify the alteration of the technical assistance inputs to include a major long term input from a Human Resource Development specialist, Mr Steven Wright, as from early 2007. During his first input, the HRD specialist prepared a training programme for the life of the project. This was included in full in the Progress Report No 2 January-June 2007, and is not replicated in this progress report.

Training Programme: Progress Report July – December 2007

The HRD expert completed his second input of the year at the beginning of the period, leaving Kabul on the 11th of July and undertook a further input later in the period from 13th October to 6th December. Mr. Karim Kashmiri, the training manager, was present throughout the period.

Training is an activity prominent in all components of the project and the table below details the progress made within each component during the reporting period, and those activities planned for the next period. Components 3 and 5 show the progress of the nine NGOs and the training activities within their projects. During the period a further grant contract was awarded to AKF to implement a 'virus indexing' project, making our facilitating partners 10 in total. In addition, during the period a new Director General of Horticulture and Plant Services, Ms Adela Bakhtyari, was appointed.

IT and training equipment were inspected and certified but delivery to the Horticultural Department, Kabul University and the PHD centres will be delayed until January. The training department also assisted the project in the procurement process for hand and field tools, agricultural equipment and fertilisers and biological materials

The progress made during the reporting period is as follows:

Component 1

A further two technical seminars were held for the senior staff at MAIL and key horticulturists in NGOs and other organisations, bringing the total to five from the series of twelve planned for 2007 & 2008.

Due to the delay of delivery of IT equipment to the Horticultural Department the planned IT training has been postponed until the next reporting period

Four members of the Horticultural Department were invited to join the PHDP staff on a four day training course in late November on 'planning and budgeting' in order to be closely involved in

the development of the 2008 work plan. Unfortunately, none of them attended any part of the proceedings.

Component 2

IT and training equipment were inspected but delivery to the six centres will occur in January. A third technical course was held in Kabul for the six centre managers and their seconded provincial MAIL staff (30 persons) on 'The pruning and training of stone fruit' and dealt with apricots, peaches and almonds on each of three consecutive days between the 3rd and 5th December. A similar event will be held for 'pome' fruit in March.

The six centre horticulturalists attended the staff training event on 'planning and budgeting' held between 25th and 28th November. The objective of this was for each centre to produce a physical and financial budget to contribute to the project's 2008 work plan. Two further such events will be held in the next reporting period dealing with accounting and the development of the demonstration orchards and 'ex situ' collections.

Component 3

Two further NGO coordination/'training of trainers' meetings were held during the reporting period. Individual meetings with each NGO were held at the EC Delegation to improve their logical frameworks, make any related contract amendments and agree a reporting schedule. All NGOs are to finalise their training programmes and make their first sixth monthly report on training activities for presentation by 31st January.

AKF virus indexing project started late in the reporting period and advertised for the two posts which will subsequently lead to intensive training in both Italy and Afghanistan on indexing. Dr. E. Giordani advised AKF on this and other related subjects.

Mr. Sharaff Sharafuddin, the organisation manager and Mr Mohammad Haqjo, the legal advisor, continued their work on the formation and training of Nursery Associations in conjunction with the NGOs, concentrating in Samangan and Kunduz provinces and registering three associations with the Ministry of Justice. This work is gradually being handed over to the NGOs, province by province.

Component 4

Intensive training continued with the germplasm and database teams as a consequence of a two week input by Dr. E. Giordani in mid November. A protocol was determined for the collaboration of these Kabul office staff with the PHD centres and their staff who will be planting

the 'ex-situ' collections. The germplasm and database teams gave presentations of their work to-date and their plans for 2008 during the staff training event in late November.

Component 5

Whilst training and advice have been offered by PHDP at the coordination meetings, most of the NGOs will form farmers groups and associations according to how they themselves view the needs, and will also provide leadership in the activities of these groups or associations. The NGOs will themselves report on group formation and group activities.

Table 6a Summary of training events completed in the reporting period.

Component	Trainee	Type of event	Number
1. MAIL with established Horticulture Sub-sector	Senior MAIL staff	Technical seminars	2
		Workshops	0
	Staff of horticulture dept.	Staff training	1
2. PHD Centres	Staff of PHD centres	Provincial field events	3
		Technical courses	3
		Staff training	2
3. Nursery Industry	NGOs	Workshops	2
4. National Variety Collection	Local experts	'In house'	Ongoing
	Regional MAIL staff	'ex situ' / DO field work	Ongoing
5. Support to Farmers	NGOs	Workshops	2
TOTAL	All	N/A	15

Table 6b Summary of training events planned for the next period

Component	Trainee	Type of event	Number
1. MAI with established Horticulture Sub-sector	Senior MAI staff	Technical seminars	3
		Workshops	1
	Staff of horticulture dept.	Staff training in IT	1
2. Demonstration Orchards	Staff of PHD centres	Provincial field events	4
		Technical courses	3
		Staff training	2
3. Mother Stock Nurseries and Nucleus Nursery	NGOs	Workshops	2
4. Germplasm Collection	Local experts	'In house'	Ongoing
	Regional MAIL staff	'ex situ' / DO field work	Ongoing
5. Support to Farmers	NGOs	Workshops	2
TOTAL	All	N/A	18

Table 6c Training coordinators for NGO projects

NGO	Project title	Training coordinator	e-mail address	Telephone nr.
ADA	Perennial Horticulture Development Programme for Afghanistan (Kandahar and Zabul)	Malik Rahmani	malik.rahmani@ada.org.af	0799209873
AKF	Promotion of Perennial Horticulture in Northern Region of Afghanistan (PPHNA)	Ahad Peerzada	ahad.peerzada@akdn_afg.org	079040892
GPFA	REGENERATION OF THE FRUIT AND NUT PRODUCTION SECTOR IN AFGHANISTAN CENTRAL PROVINCES OF KABUL, WARDAK, LOGAR AND PAKTYA.	Bahai Jaan	Not available	0799156420
Soldarites	Perennial Horticulture development Program in Kahmard and Saighan districts (Bamyán Province)	Gaylord Robin	oordophdp@solaf.net	0797785173
AAD	Accelerating Horticultural Markets in the North and West of Afghanistan through working with smallholder farmers (AHM)	Maliha Dost	errdm@afghanaid.org.uk	0799548281
MADERA	STRENGTHENING OF THE FRUIT SECTOR IN KUNAR AND LAGHMAN PROVINCE, EASTERN AFGHANISTAN	To be notified	madera_evaluation@yahoo.fr TBN	0799691091 TBN
ROP	Almond Industry Development Project	Javid Hamidzada Mohd. Sharif	javid.hamidzada@rootsofpeace.org	0799758977
SAB	Fruit Production Improvement	Mohammad Rafiq Sharifi	sabkbl@yahoo.com	0799861473
CHA	Perennial Horticulture Development Programme for Enjil District of Herat Province Afghanistan	Hokumkhan Habibi	agriculture@cha-net.org	0700629523

Table 6d Training: progress by project component in reporting period and expectations for next reporting period

Reporting against overall project training plan

Project Component	Trainees	Training activities during the reporting period	Training activities in the next reporting period	Comments
1. MAI with established Horticulture Sub-sector	Senior staff of the MAI	Fourth and Fifth technical seminars in the series of twelve undertaken at MAIL	<p>Three additional technical seminars in the series of twelve undertaken</p> <p>Perennial Horticulture Workshop</p>	<p>Technical seminars have attendances of around 50 persons including staff of other development projects and NGOs</p> <p>This will be a two day event planned for 15-16 January, on the current state and future direction of the sector, to which all important stakeholders will be invited</p>
	Staff of the new Horticultural Department	Staff training (four day course) in financial and physical budgeting was undertaken in November	<p>Delivery of IT and training equipment to the new department</p> <p>Basic IT course held for head of department and three employees</p> <p>Publication of four (from series of 10) technical manuals under the new Horticulture Department</p>	<p>A new General Director of Horticulture was appointed during the reporting period – Miss Adela Bakhtyari</p> <p>IT course had to be postponed to the next period due to late delivery of equipment</p> <p>Text will be in English Dari and Pashto and approved by the department</p>

<p>2. Perennial Horticultural Development Centres (formerly Demonstration Orchards)</p>	<p>Field Horticulturalists and ministry staff of the PHD centres</p>	<p>First three technical courses held for field horticulturalist and their four PHD centre staff from each centre (30 persons) and provincial field events were held</p> <p>Staff training (four day course) in financial and physical budgeting was undertaken in November</p>	<p>The next five technical courses held for field horticulturalist and their four PHD centre staff from each centre (30 persons) and provincial field events will be held</p> <p>Two further staff training events, of 2-3 days duration, will be held in the period</p> <p>Delivery of IT and Training equipment will be made to the six centres</p>	<p>Course syllabuses and material for the replication of the courses at regional level were produced</p> <p>The output in November was a 2008 work plan for each PHD Centre</p>
<p>3. Improved Planting Materials Industry (formerly Mother Stock Nurseries and Nucleus Nursery)</p>	<p>NGOs</p> <p>AKF tissue culture project</p> <p>Private nurseries and nursery associations</p>	<p>Two NGO coordination / training of trainer meetings were held during the period</p> <p>This project started in the reporting period and a second input, during the period, by Dr. E. Giordani focused on development of a capacity building programme for the project</p> <p>Training activities commenced according to each individual NGO programme</p>	<p>Training programme for each of the projects of the nine NGOs to be completed to a standard format.</p> <p>Two NGO coordination / training of trainer meetings</p> <p>An additional technical assistance input from Dr. E. Giordani and University of Florence for operational and capacity building aspects of the new tissue culture facility at Badem Bargh</p> <p>NGOs continue implementation of their training programmes</p>	<p>This had to be delayed until the next reporting period due to amendments in the logical frameworks of every NGO to which the training programmes relate</p> <p>It is envisaged that a regular pattern of quarterly meetings will be established</p> <p>The capacity building will focus on two key members of staff in viral indexing and will involve external medium term training in Italy as well as in Afghanistan</p> <p>Initial activities have been undertaken in close cooperation with the PHDP training and organisational experts</p>

4. The National Collection of Fruit and Nut Tree Varieties in Afghanistan (formerly Germplasm Collection)	Local experts	'In house' training in database management and in the implementation of a protocol for the collection of germplasm and creation of 'in situ' and 'ex situ' collections	'In house' training ongoing	This 'in house' training relates directly to the inputs of Dr. E. Giordani, University of Florence
	Regional Ministry Staff	Regional ministry staff (24 over 6 centres) commence implementation (land preparation) of a work programme for the planting of 'ex situ' collections under the direction of the field horticulturalists	Regional ministry staff (24 over 6 centres) implement ongoing work programme for the planting of 'ex situ' collections under the direction of the field horticulturalists	It is proposed that inputs of specialist subject matter, by junior EC experts, of approximately three weeks in duration, will be introduced later in 2008
5. Support to Farmers	NGOs	<p>Training programme for each of the projects of the nine NGOs completed to a standard format.</p> <p>Two NGO coordination / training of trainer meetings were held during the period</p>	Two NGO coordination / training of trainer meetings	It is envisaged that a regular pattern of quarterly meetings will be established
	Private farmers and farmers organisations	Training activities commenced according to each individual NGO programme	NGOs continue implementation of their training programmes	Initial activities have been undertaken in close cooperation with the PHDP training and organisational experts

4. Adaptive Research Component

The project already started some small amounts of adaptive research in 2007. While adaptive research will remain integrated within the overall PHDP programme, it is felt that there will be extra benefits from reviewing the adaptive research work as a separate component. The 2008 Work Plan for the project includes a detailed, if small, programme for adaptive research.

The adaptive research programme included a trial of self pollination of almond varieties and planting of a spacing trial peach orchard in Herat at the beginning of 2007.

The World Bank Horticulture and Livestock Project has a horticulture research component within its remit. PHDP will coordinate with that project to ensure that the PHD Centres participate effectively in the HLP adaptive horticulture research work.

Table 7: List of Main Areas for Adaptive Research Component

Identify the needs for participatory research.	1. A survey of orchard planting methods was undertaken in the Herat area. A peach spacing trial was planted to try to answer grower problems on pruning and spacing	Adaptive research can be done based on particular farmer requirements
Management of the germplasm evaluation programme	1. Initial evaluation of the in situ germplasm collection took place	
Undertake cross pollination and self pollination studies in almond germplasm	1. An initial study on self pollination on almonds was undertaken in early 2007.	Lack of knowledge of the pollination characteristics of the Afghan almond varieties is the single most pressing constraint on the exploitation of the Afghan almond germplasm at this time
Support collection, maintenance and control of relevant germplasm and support scientific exchange with other centres outside the country.	1. Some correspondence with UC Davis, California took place on germplasm collection 2. Records of germplasm brought into Afghanistan by Roots of Peace and AKF were obtained.	The project will aim to record in its database all germplasm brought into the country by various NGOs and projects
Lead adaptive research on various orchard growing techniques and issues	1. One peach orchard spacing trial was maintained in Herat	While the project uses IPM techniques, other partners will be invited to use the PHD Centre facilities for IPM and other trials work
Lead and direct adaptive research on various tree nursery techniques and issues	1. Some of the ex situ collection of stone fruit was budded on two alternative rootstocks	The various varieties in the germplasm collection are expected to have differing reactions to various potential rootstocks

5. Horizontal Activities and other Tasks

5.1 Planning & policy development in horticulture

The project as a whole aims to integrate and lead the development of the horticultural industry through support of some key activities, including support to the horticulture development initiatives of MAIL. In this reporting period, MAIL established a new General Directorate, called the Horticulture and Plant Services General Directorate, to include the Horticulture department and the Plant Protection and Quarantine department. The seed certification will also come under this General Directorate.

The team leader is particularly focussed on drawing together the various initiatives from donors into a cohesive development, and will work across the Ministry with the various planning and monitoring institutions. In 2007, the 2005 Agriculture Master Plan was again reformulated in line with the Afghanistan National Development Strategy (ANDS), and the seven main goals with seven sets of actions. This update took a lot of time and energy in the MAIL, although there was little movement compared to the work in 2006. For the PHDP team leader, the amount of work was not so great, since he had taken the initiative in restarting the work of the Horticulture Working Group (HWG) at the beginning of the year. This meant that the strategy for horticulture had been reformulated ahead of the starting point for the ANDS work, and the HWG work went directly into the ANDS presentations. It is hoped to continue work with a broader based Horticulture Working Group in 2008.

5.2 Administration and procurement

The administration of the project remained fairly settled during the period. Many competing influences at the Badam Bagh farm in Kabul meant that various meetings had to be attended to ensure that the programme requirements of PHDP were not overlooked in the desire of other projects to implement programmes within the relatively safe and central location of Kabul.

The procurement of works and equipment took up a lot of time of the project, including time from all the long term international experts to reviews suppliers and specifications.

The personnel at the project remained reasonably stable during this reporting period. The contract of one field horticulturist was terminated due to inability to deal with the germplasm collection protocols, and he was replaced. The germplasm lead researcher took advantage of a four month scholarship to study in USA, but he has now returned to work in the project. The project hired the services of a legal advisor on a part time basis to deal with the legal requirements for setting up nursery associations. A similar appointment has been made with a

leading local nursery grower and horticulturist to help with the technical developments in the tree nursery industry.

Table 8: Horizontal Activities and Project Management. Activity Frame

Activities	Sub-activities during the reporting period	Sub-activities planned for the next reporting period	Comments
Prepare any technical paper in relation to the Project activities the Delegation of the European Commission may require.	1. Prepare presentation & information materials for shows	1. Prepare technical papers as required 2. Provide project web pages for the MAIL website	MAIL website not up to standard in previous period, but is now being managed by ASAP
Ensure that all terms of the Financing Agreement established between the Islamic Republic of Afghanistan and the EC are fulfilled by the two signatories of the agreement.	1. Ongoing monitoring the terms of the Financing Agreement took place in the period.	1. Ongoing monitoring of the terms of the Financing Agreement on a regular basis	All procurement contracts placed by end 2007
Review at regular stages Annex III of the Contract (organisation and methodology).	1. Actions in the project were in line with the contractual obligations,	1. Review the contract and its implementation on a regular basis	
Draft Annual Work Plans that will need to be discussed with the EC and then be submitted to the HSC for approval.	1. Preparation of third annual work plan completed 2. Progress against the second annual work plan reported on in this current document	2. Accounting systems for farm operations to be put in place	
Prepare all tender documents requires for works or supplies procurement and assist in the evaluation of the bids and the supervision of the execution.	1. The main lists for the procurement were prepared. 2. The project provided persons to assist in the procurement processes.	1. Assist the EC Delegation in managing the delivery of items procured.	The EC rules and guidelines will be followed. All project funds are now allocated/contracted

6. The Related Inputs and Outputs

6.1 Technical Assistance Inputs in July to December 2007

6.1.1 Key Experts

The Team Leader and Specialist for Horticulture Policy, Strategy and Reform Mr. Gregory Cullen was in post as at 1st July and continued until 13th September. He undertook a further input from 30th October until 18th December, and returns from leave again on 8th January 2008

The Horticulturist Mr. Juan Ignacio Trives Pire was in post from 11th July until 14th September and again from 27th October to 8th December and from 20th December to 28th December. He will return from leave on 9th January

The Human Resources Development and Training Specialist, Mr Steven Wright was in post as at 1st July and continued until 11th July. He provided further input from 13th October until 7th December 2007. He will return from leave on 10th January 2008

The Agricultural Economist, Dr. Bernhard Homeyer provided a final input from 16th August until 30th October 2007. His position in the project is now abolished, as the resources are needed for other activities.

6.1.2 Short term International Experts

The second input of the short-term Germplasm Development expert, Prof Edgardo Giordani took place from 30th June until 10th July 2007. He returned for a further input from 10th-23rd November 2007.

A request was submitted to the Delegation for the use of hitherto unallocated project funds to be used for short term international experts. The request was for six months short term junior experts, and an additional four months of senior experts. The junior experts will be used to lead on specific technical training. This adjustment to the project was approved, and steps taken to begin mobilisation of the first experts under this widened programme.

6.1.3 Long term local experts

Prof Samadi, the project lead germplasm researcher, left for four months of studies in the USA from 9th August to 15th December 2007.

During the collection of the germplasm for Dehdadi farm in August 2007, it was found necessary to replace the field horticulturist. Baktash Hakimi started as field horticulturist in Mazar as from 25th November 2007

6.1.4 Short term local experts

In order to be able to employ specialist persons on short term contracts, 27 man months of long term local experts were converted into 13.5 man months of local short term experts. The change in the fee rate allows for the use of more expensive specialists for specific tasks. The initial use of these local experts has been for the input of a civil engineer on designing the Perennial Horticulture Development Centres. 3.1 man-months (69 man days) have been used for this purpose. A further 26 mandays of civil engineer were used for designing the rehabilitation of the laboratory building at Badam Bagh, Kabul. Two further short term local expert positions were created; the first post was for a legal adviser to help in setting up nursery associations and the second post was for a nursery technical adviser to help in developing support programmes for nurseries and developing various horticulture training programmes

Table 7: List of Expert Positions and planned inputs as at end 2007

No	Resource	Code	Man-Months	Category ^{*)}
1	Team Leader, Specialist for horticulture policy and strategy, reform specialist	TL	50	TL
2	Horticulturist, Support to Nucleus nurseries and demonstration orchards, knowledge development	HO	40.5	LIS
3	Agronomist/ Germplasm Expert, Support to setting up a Germplasm centres	AG	4	LIS
4	Agriculture Economist/Organisation Development Expert, Support to farmers' organisations	AE	9.5	LIS
5	Human Resources Development & Training Expert (from 2007)	HR	26	LIS
6a	Unallocated short term seniors	?	14	SIS
6b	Unallocated short term junior	?	6	SIJ
7	Senior Project Administrator	TS/PM	55	LLS
8	Training Manager (from 2007)	TM	48	LLS
9	Database & information resources Expert	IT/MI	48	LLS
10	Organisation Development Expert (from 2007)	FO	48	LLS
11	Marketing Expert (left & not replaced)	M	1.5	LLS

No	Resource	Code	Man-Months	Category ^{*)}
12	Lead Germplasm Research	NM	54	LLS
13	Germplasm development officer	GD	48	LLS
14	Field horticulturist (1) Kabul	FH1	50.5	LLS
15	Field horticulturist (2) Herat	FH2	52	LLS
16	Field horticulturist (3) Balkh (from 2007)	FH3	47	LLS
17	Field horticulturist (4) Kunduz	FH4	48	LLS
18	Field horticulturist (5) Nangarhar	FH5	53	LLS
19	Field horticulturist (6) Kandahar (from 2007)	FH6	47	LLS
20	Short term local experts (includes civil engineers)	?	13.5	SLS

*) Categories: TL = team leader; LIS = Long-term International Senior; SIS = Short-term International Senior; SIJ=Short-term international Junior, LLS= Long-term local senior. SLS = short term local senior

Table 8: Expert Inputs in 2007 in Days (actual to end December)

MONTH	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Actual 2007	Work Plan total days
International Experts (possible days- six days per week)	24	24	24	26	27	25	27	25	23	24	25	23	297	297
Team Leader	14	24	25	16	14	25	27	27	11	1	25	15	224	220
Horticulturist	-	22	24	25	17	-	20	28	14	6	28	12	196	198
Agricultural Economist (Org. devpt)	-	-	11	25	26	-		12	25	26	-	-	125	121
Training	-	13	26	-	14	25	11	-	-	17	25	7	138	154
Short term	-	17	6	-		1	9	-	-	-	14	-	47	66
Local Experts														
Senior Project Administrator	24	23	22	24	21	25	24	22	24	25	24	21	279	279
Germplasm lead researcher	26	24	22	16	18	20	23	8	-	-	-	9	166	279
Germplasm development officer	24	26	20	23	21	19	24	24	19	22	26	14	262	279
Training Manager	-	18	23	25	25	25	24	25	24	25	24	18	256	279
Database & Information Resources	23	23	23	24	25	25	25	28	21	22	26	19	284	279
Organisation Development Expert	-	18	22	25	27	25	26	25	23	27	23	18	259	279
Field Horticulturist Jalalabad	26	23	23	25	27	25	25	26	23	27	25	24	299	279
Field Horticulturist Herat	25	24	23	25	27	25	28	25	24	25	25	25	301	279
Field Horticulturist Mazar	-	17	23	25	27	25	17	13	-	-	5	24	176	279
Field Horticulturist Kunduz	25	23	23	25	27	19	25	25	24	23	22	20	281	279
Field Horticulturist Kabul	25	24	19	25	27	25	25	25	20	21	25	25	286	279
Field Horticulturist Kandahar	-	22	23	25	27	25	29	26	25	18	25	19	264	210
Short term	27	14	14	9	5	1	6	23	17	7	7	11	141	0

The estimates for local experts are averages, taking into account public holidays and annual leave, to be taken at convenient times by mutual consent

The estimates for international experts are meant to be indicative of total input days and approximate dates, and are subject to change

"Possible day" are days in the month, less Fridays, and less public holidays (estimate only- with moveable dates on Islamic calendar)

6.2 Project Facilities and Logistics

The project team has been established in the green building (formerly the advisers' building) at the MAIL. The project was initially given the ground floor space, which was insufficient, but another room was given as from early 2007. This has proved adequate if not generous, as there is no separate meeting room space.

At the Badam Bagh (Kabul) research farm, and at the four of the five provincial farms designated for project activities, there are no facilities, or insufficient facilities, so the project has prepared the design and specifications for the proposed Perennial Horticulture Development Centres. The full specifications and bills of quantities were worked up for each site and delivered to the EC Delegation for the commencement. The full programme of construction depended upon surplus funds for supplies being allocated to works. In December 2007 it became clear that this re-allocation of budget lines would not be allowed by the EC Delegation. The budget available will only allow for rehabilitation of the Badam Bagh, Kabul building, and a basic building in Herat. In Kandahar, JICA had funded the building of a large farm office and laboratory at Kohkaran Farm. Since JICA are not implementing any programme there due to the prevailing security situation, PHDP is using the building as a PHD Centre, in conjunction with the farm activities.

The procurement of the vehicles for the project was delayed, but the project has managed to operate with hired vehicles. The only disadvantage is that the Incidentals fund has had to be used for this expenditure.

6.3 Project Management

The project team has the task to realise the different project results in close cooperation with the MAIL as direct counterpart. The project has been implemented under the guidance and oversight of the Project Steering Committee/Horticulture Steering Committee, even though there was no formal meeting during 2007. The Consultant's head office has on one hand mobilised the team and provided backstopping and quality control, and on the other hand managed the contractual aspects with EC Delegation in Afghanistan.

6.3.1 Consultant's Responsibilities

The Consultant is responsible for mobilising experts, backstopping, fulfilling reporting requirements and quality control. It has made arrangements for exchange of information

and using maximum flexibility for mobilising short term experts and providing technical backstopping, based on expert resources, experiences and knowledge within each of the firms, providing the best available experts and knowledge to the project.

A backstopping mission by the Project Director has been implemented during the reporting period.

The submission of reports has been in accordance with the ToR. This report is the third of the Interim Progress Reports which are to be prepared every six months. The progress is reported against the Logical Framework which developed for the Inception Report in September 2006. Compared to the previous progress report, an additional cross-cutting element has again been added to the project. The additional cross cutting element is the adaptive research programme of the project, and this will continue to be reported on in future progress reports.

6.4 The Identification and Timing of major Milestones

Major milestones were proposed for completing key activities or for achieving defined project results, and progress to date against these milestones is laid out below.

Table 9: Major Milestones achieved to date

Milestone	Date	Description & comments
Project commencement	20 May 2006	Team Leader in place 20 May
Overlap with Horticulture Policy & Strategy Adviser	Until 7 June 2006	Joint travel to evaluate project sites
Arrival Project Horticulturist	19 June 2006	Undertook joint travel with TL and separate travel to evaluate project sites
Recruitment first local experts	1 July 2006	Project administrator and Horticulture marketing specialist commenced work
First Horticulture Steering Committee meeting	12 July 2006	Issue raised on recruitment of local expert staff, which was subject of further meetings and recruitment stalled until 1 September 2006
Arrival Project Germplasm Expert	24 July 2006	Completed travel to all main project areas and assessed germplasm resources and collections
Arrival Project Organisation Development Expert	16 August 2006	Made some initial orientation visits to Kunduz and Mazar-i-Sharif before the Inception Report completion.

Milestone	Date	Description & comments
Preparation terms of reference for calls for proposals from NGOs	September 2006	The draft terms of reference were circulated to the HSC members before the end of August 2006
Preparation plans for Perennial Horticulture Development Centres with procurement proposals	September 2006	Perennial Horticulture Development Centres to include demonstration orchards variety collections and mother stock nurseries on same sites. Workshop on proposals completed
Inception report	September 2006	Includes decisions on sites of project implementation, revisions in Project Logical Framework, and other decisions discussed at the Horticulture Steering Committee.
Work plan 2006	September 2006	Covers from project commencement to end 2006
Adoption of Inception Report and Work Plan 2006	October 2006	Inception report & work plan agreed By EC Delegation and adopted by Steering Committee
Master Plan input completed	Nov 2006	Recasting existing data in summary format only
Detailed procurement for Perennial Horticulture Development Centres prepared and sent to EC Delegation.	Dec 2006	Included in Work Plan 2007 following initial procurement list in the Inception Report
Prepare and plant germplasm collections	Nov/Dec 2006	Seed for rootstocks of almonds, peaches, apricots sown
Prepare and plant demonstration orchards & vineyards	Nov/Dec 2006-	Identification of sources of planting materials, for planting by March 2007
Work plan 2007/8 <i>With similar timing for subsequent years</i>	Dec 2006	Inclusion plans for demonstration orchards & nucleus nurseries; training programmes year 2; extension & demonstration programme
Progress report May-December 2007	Jan 2007	
Completion of technical assessment of NGO proposals	6 Feb 2007	Assessment process at EC Delegation; nine NGO projects passed the technical assessment process
Completion of local expert staff recruitment	10 Feb 2007	Included field horticulturist for Kandahar and all other positions
First of a series of technical seminars	21 Feb 2007	Six planned for 2007 & six for 2008

Milestone	Date	Description & comments
Training for project staff	24-26 Feb 2007	All project staff given practical and office training and information about project aims & objectives
Initial meeting of Horticulture Working Group	15 March	First meeting with ASAP and HLP to settle basis for working group activities
Strategy of formation nursery growers' association prepared	March 2007	Initial associations in formation by May 2007; within an informal strategy for development of associations
Nursery codes of conduct <i>Initial drafts</i>	April 2007	Work ongoing on development of standards as from June 2007 with NGO cooperation
First formation meeting nursery growers	30 April 2007	First meeting at Shakardara district, Kabul province, with declaration of intent expressed
Study tour to Bulgaria for Horticulture Steering Committee	11-19 May 2007	Also provincial directors of agriculture of project provinces. View of EC horticulture development project over last seven years in Bulgaria
Workshop on nursery association development	24 June 2007	Presentation of comprehensive PHDP strategy to NGO partners & other key players
Completion 2 nd Progress Report	10 July 2007	Draft sent to EC delegation for approval
Completion ANDS horticulture plan	10 July 2007	Completion of the horticulture implementation plan as MAIL submission to ANDS
First germplasm collection from in situ trees	12 August 2007	First budwood collected from in situ mother trees, and first budding at PHD Centres on 13 August
Completion of budding of stone fruit and citrus accessions	September 2007	Completion of budding to ex situ collections of 467 accessions of stone fruit and 58 accessions of citrus, including 39 accessions donated from Italy
Two nursery associations began registration	18 Nov 2007	Shakardara and Paghman district nursery associations submitted registration applications to Ministry of Justice
Work Plan 2008	8 Dec 2007	Draft of Work Plan 2008 submitted to EC Delegation for approval
Completion project procurement	21 Dec 2007	No further procurement for PHDP is allowed. Any unspent funds to be returned to Brussels

6.5 Finance

The PHD Programme has a total budget of approx. 12,500,000 EURO which is split in several budget lines. The EC Delegation keeps track of the overall budget. Expenditures for the budget lines for technical assistance, incidental expenditures, vehicles, agricultural machinery, equipment, inputs and works are contracted as per the following tables, and represent a maximum expenditure, and an actual expenditure if all line items are used up and all supplies and works are delivered.

All previously unallocated budget lines for the project have now been allocated. The changes made in the six months of the reporting period are now shown in the following tables.

TECHNICAL ASSISTANCE EXPENDITURES

	BUDGET €	ACTUAL EXPENDITURE TO DATE €	% OF BUDGET
Fees			
Team Leader	836,000	285,000	34%
Long term International Experts	1,232,000	529,900	43%
Short term International Experts – Senior	227,920	34,780	15%
Original	162,800		
Additional	65,120		
Short term international Experts – Junior	64,680		
Original	0		
Additional	64,680		
Long term Local Experts	1,122,000	328,695	29%
Short term Local Experts	50,490	26,350	52%
Sub-total	3,533,090	1,204,725	34%
Incidental Expenditures			
Original	914,200		
Reallocated from other items	73,356		
Sub-total	987,556	273,622	28%
TOTAL	4,520,606	1,478,347	33%

Incidental Expenditure

As per ToR the incidental expenditure budget provisions are to be used for:

- Travel costs and subsistence allowances for missions to be undertaken as part of this contract from the base of operations in the beneficiary country, Kabul. This includes per

diem allowances for MAI staff, associated with the project e.g. for attending workshops and seminars and the experts, away from their basis of operation;

- Incentives for government staff;
- Studies and data collection for the project
- Training, Workshops and seminars.

The Contractor is responsible for ensuring that incidental expenditure conforms to the EC contract conditions. The Contractor will seek prior approvals from the EC Delegation before spending. The Contractor is responsible for overall management of project budgets to ensure sufficient money is available over the five years for necessary project expenditure.

Some reallocation of various project budget (unallocated) expenditure lines has been made by the EC Delegation. No unallocated expenditure budget lines remain.

A general outline of the expected expenditures under the Incidental Expenditures budget is shown in Annex B of the report, in line with the Contractor's responsibility for overall management of project budgets to ensure sufficient money is available over the five years for the necessary project expenditure.

SUPPLIES AND WORKS FOR DO / NN / GERMPASM CENTRES EXPENDITURES

	Contracted as at 31 December 2007
Civil Works	99,757.24
Cars & Motorcycles	267,392.00
Furniture	89,190.83
IT equipment	81,038.51
Field Tools	29,474.20
Tractors, field equipment & inputs	160,305.00
TOTAL	727,157.78

The supplies and works represent contracts made by the EC Delegation as at the end of 2007. No new contracts will be made, so except for any shortfalls in supply by contractors, these amounts of money represent the final payments to be made under the project under these budget lines.

DIVERSE EXPENDITURES

It was noted in the previous progress report that it was planned to re-allocate the remaining budget for operational costs after the procurement was complete. However, clarification of the EC rules meant that the unspent funds from the budget lines for the procurement of supplies and works will be returned to the Commission. The previously reserved budget lines for diverse expenditure have been allocated

partly to the Consultant, for the provision of extra technical assistance input, as shown in the table of Technical Assistance Expenditures (above), and partly to increased Incidental Expenditures. The increased Incidental Expenditures allocation will cover a substantial amount for technical publications, approximately 40,000 euros. The other additional money will probably be used for study tours not previously planned, or for other capacity building exercises. The EC Delegation will be consulted on the use of these extra funds, within the same rules as pertaining to the other Incidental Expenditures.

EXPENDITURES FOR GRANTS FOR NGOs

	BUDGET €	ACTUAL EXPENDITURE TO DATE €	% OF BUDGET
Support to Farmers through NGOs; grants contracted or allocated	6,500,000	6,499,989.61	100%
TOTAL	6,500,000	6,499,989.61	100%

ANNEXES

Annex A Logical Framework for the project

Annex B Incidental expenditure budget for the whole project (outline)

Note that expenditures for farm operations labour are included in detail in the annual work plan for 2008. These expenditures are used as a basis for estimating the farm operations expenditures to the end of 2010 (the last six months of the project are in a run down phase, as per original terms of reference). Expenditures for farm operations labour until the end of the project will come from Incidental Expenses. No other operational funds will be allocated from the project budget.

Annex C Incentives for MAIL staff

Annex D Progress on Nursery Association Development

Annex E Mission reports of Prof Edgardo Giordani

Annex F Germplasm collection status report

Annex G No of fruit tree nurseries per district and province

Annex H Short description of EC visibility actions

Annex A Logical Framework

The logical framework for the project is an important tool for the implementation and monitoring of the project, as it gives clear direction to the Implementing contractor and other stakeholders as to what should be achieved and how to measure the achievements

Intervention Logic	Objectively Verifiable Indicators	Means of Verification	Risks and Assumptions	Project Progress
<p>Overall Objectives:</p> <p>To contribute to poverty alleviation in particular for the rural population;</p> <p>To contribute to the general economic recovery of Afghanistan;</p>	<p>Increase of farmers' income from horticulture</p> <p>Average increase in horticulture exports of 22% per year (according to Agriculture Master Plan);</p> <p>Increase in GDP from horticulture;</p>	<p>Central Statistics Office Annual Reports, AREU Rural Livelihoods Research reports;</p> <p>Reports of IMF/WB on economic development;</p>	<p><i>"The successful implementation of the horticulture component of the Agriculture Master Plan is key to transforming Afghanistan's rural economy. A robust and vibrant rural economy will improve the livelihoods of hundreds of thousands of farmers, increase profits for the private sector, and improve Afghanistan's macro-economic indicators of income and trade".</i> Agriculture Master Plan 2005</p>	
<p>Project Purpose:</p> <p>Development of a demand oriented and export-led perennial horticulture industry. <i>(in support of Agriculture Master Plan goal)</i></p>	<p>By the end of the programme net benefit from horticulture has increased at least by 20% in average on production level by implementing farmers compared to start-up phase of project.</p>	<p>Reports from implementing partners and general progress monitoring reports of the project;</p> <p>MAI annual and provincial reports.</p>	<p>The components of net benefit include better net prices, higher yields from existing areas due to improved production techniques and larger crop areas because of replanting programmes.</p>	

Intervention Logic	Objectively Verifiable Indicators	Means of Verification	Risks and Assumptions	Project Progress
<p>Result 1:</p> <p>The MAIL is structured and equipped to support the development of an expanding private sector horticulture industry.</p>	<ol style="list-style-type: none"> 1. Horticultural research and extension workers are trained and able to provide services to the private sector at central and regional level in the country within 3 years of the start of the project ; 2. Central programme activities implemented (specific extension training, other training, extension materials, education support) at least 3 years after start of project; 	<p>Training assessments</p> <p>Horticulture policy/strategy documents;</p> <p>Minutes of coordinating committees/ workshop proceedings;</p> <p>Minutes from coordination meetings;</p> <p>Reports from training activities;</p> <p>Records of extension material production;</p> <p>Reports from higher education;</p>	<p>MAIL accepts restructuring and formation of new coordination bodies. <i>(The project will facilitate development of a HVH Task Force with a Steering Committee);</i></p>	<p>MAIL has created a new structure with Director General Horticulture & Plant Services, and also a Horticulture Dept and PHDP has adapted to new structure.</p> <p>Training programmes for selected research & extension workers, completed one year, of three year cycle general training</p>

Intervention Logic	Objectively Verifiable Indicators	Means of Verification	Risks and Assumptions	Project Progress
<p>Result 2:</p> <p>Demonstration Orchards are operational and have the ability to perform extension services on request of the private sector. The agronomic potential is better understood and used to formulate detailed policies and strategies.</p>	<ol style="list-style-type: none"> 1. Six MAIL research farms include functional Perennial Horticulture Centres at least three years after project start, with demonstration orchards planted and training courses given for at least 5 major crops by staff of MAI Perennial Horticulture Centres. 2. Number of farmers (in farmers' organisation context) having attended training courses and demonstration farm visits; 3. Number of farmers implementing advice provided by demonstration plots (via their farmer groups); 	<p>Research reports;</p> <p>Training course materials;</p> <p>Attendance list training courses & visitors list (open days)</p> <p>Farmer field reports;</p> <p>Extension material;</p> <p>Departmental reports;</p>	<p>Sufficient suitable support staff can be recruited and located;</p> <p>The demonstration orchards will be used as training of trainer facilities, and provide the models for other demonstration orchards set up elsewhere by other projects;</p>	<p>Building available at Kandahar. Buildings to be available at Herat & Kabul with PHDP funds. Other sites not funded as yet.</p> <p>Main demonstrations to be planted 2009 with selected germplasm.</p> <p>Some farmer training already delivered, on & off PHD Centre sites.</p>

Intervention Logic	Objectively Verifiable Indicators	Means of Verification	Risks and Assumptions	Project Progress
<p>Result 3:</p> <p>The private sector fruit and nut tree production industry is providing sufficient and healthy plant material to meet the demand of the growing private horticulture sector.</p>	<ol style="list-style-type: none"> 1. Regulatory framework is put in action at least 3 years after start of project; (Codes of practice for nursery production agreed after one year) 2. Sufficient numbers of certified mother stock nurseries producing clean, healthy materials for the private sector nursery industry 2. Number of trees/vines produced to acceptable standards at least three years after project start. 3. Number of farmers using advice provided by nurseries (via their farmer groups); 	<p>Surveys of private sector tree nurseries</p> <p>Research reports;</p> <p>Delivery notes to nurseries;</p> <p>Farmer field reports;</p> <p>Departmental reports;</p>	<p>The private sector is essentially responsible for the whole fruit tree production chain, including development of disease free mother stock nurseries, with regulatory systems to be developed in partnership with the government. Current production of fruit trees in government stations is not supported by PHDP and should eventually be phased out, following principles developed elsewhere that it is not government role to be producer and regulator</p>	<p>Nursery survey complete</p> <p>Nursery association structure development in 2007 under way</p> <p>Codes of practice & basic standards developed</p> <p>Project NGOs co-opted into nursery development activities</p>

<i>Intervention Logic</i>	<i>Objectively Verifiable Indicators</i>	<i>Means of Verification</i>	<i>Risks and Assumptions</i>	<i>Project Progress</i>
<p>Result 4 :</p> <p>The full range of Afghanistan's fruit and nut tree crop varieties is collected into secure locations, and is catalogued and evaluated for the benefit of the Afghanistan horticulture industry.</p>	<ol style="list-style-type: none"> 1. For most important horticulture species core germplasm collections are established by year 3 after project start. 2. The MAIL Perennial Horticulture Centres act as sources of true to type planting materials 3. The variety collections are collected into electronic databases available on the MAIL website 	<p>Annual reports of MAIL;</p> <p>Perennial Horticulture Centre records;</p> <p>MAIL website databases</p>	<p>Major collection efforts can be completed in 3 years; evaluation of germplasm will take longer - 6 to 15 years.</p> <p>The collected varieties are not necessarily disease free, and a cleaning up and verification procedure needs to be included before commercial production of varieties can proceed</p> <p>A germplasm development strategy can be added, probably developed at the end of year 3, to include breeding programme proposals;</p>	<p>60% of collection completed within first 18 months. Project on schedule for 100% collection within 30 months of project start</p> <p>Electronic databases transferable to MAIL website within 24 months</p> <p>A germplasm collection strategy is available</p>

<i>Intervention Logic</i>	<i>Objectively Verifiable Indicators</i>	<i>Means of Verification</i>	<i>Risks and Assumptions</i>	<i>Project Progress</i>
<p>Result 5:</p> <p>Support to farmers is given through their organisations and with the assistance of NGOs in the field of production increase, demonstration, quality improvement, post harvest handling and marketing.</p>	<ol style="list-style-type: none"> 1. Number of farmer groups having developed a business plan and offering services to members after year 3 of start of project; 2. Number of farmers receiving regularly, production means and advice from their farmer groups after year 3 of start of project; 3. Number of farmers using processing and marketing facilities of their farmer groups by year 3 after start of project; 4. Number of farmer groups having reached economic sustainability by the end of project. 	<p>NGO reports and business plans</p> <p>Sample surveys;</p>	<p>Sufficient suitable support staff can be recruited and located;</p>	<p>10 NGO projects contracted by delegation</p> <p>PHDP is monitoring progress and providing technical leadership where necessary</p>

Perennial Horticulture Development Project

Annex B Project budgets, with latest projections

Incidental Expenditure projection for 2006 - 2011

Projections calculated at 15th January 2008 based on 2007 averages

	Months	days out per month @ \$65/day	DSA	flights/month @ \$150/flight	flight cost total	TOTAL
Expert (cost per item US\$)						
Team Leader	49.5	1	\$2,763	1	\$6,306	\$9,069
Horticulturist	40	6	\$14,905	1	\$8,790	\$23,695
Agronomist	6	5	\$2,465	1	\$430	\$2,895
Ag. Economist	12	5	\$3,060	1	\$1,350	\$4,410
HRD/Training	22.5	2	\$2,925	1	\$3,255	\$6,180
Short term international staff	20	6	\$7,800	2	\$2,900	\$10,700
Project administrator	56.5	0.5	\$2,031	0.5	\$3,668	\$5,699
Database & information	52	3	\$10,140	0.5	\$3,405	\$13,545
Training manager	50	1	\$3,255	1	\$2,753	\$6,008
Organisation Devpt	50	1.5	\$5,363	1	\$2,753	\$8,115
Hortic. Marketing/Germplasm devpt	52	5	\$15,280	1	\$5,445	\$20,725
Germplasm research	48	7	\$21,260	1	\$5,088	\$26,348
Field Horticulturist BB	50.5	3	\$9,398	1	\$0	\$9,398
Field Horticulturist He	50	2	\$6,970		\$2,245	\$9,215
Field Horticulturist DD	46	4	\$11,185	0.5	\$0	\$11,185
Field Horticulturist Ku	50	4	\$12,355		\$0	\$12,355
Field Horticulturist Jal	51	2	\$6,570		\$0	\$6,570
Field Horticulturist Kan	44	6	\$17,160		\$3,180	\$20,340
short term & MAIL	15		\$4,000	0.5	\$1,720	\$5,720
Drivers (6 at Dos/NNs)@45 per day	48	12	\$37,530	1	\$0	\$37,530
Drivers(3 at HQ) @45 per day	48	1	\$3,120		\$0	\$3,120
Hire cars, incidentals, total until project cars arrive (estimate)						\$105,650
Total months (or equivalent) local & MAIL staff	615					
Totals	765		\$199,534		\$53,286	\$358,470

The estimate for the cost in euros is 262,300 euros at an estimated average exchange rate of US\$1.40 from 2008 onwards.

Perennial Horticulture Development Project

Estimate of project incidental expenditures to end project

Item (all figures are euros)	2006	2007	2008	2009	2010	2011	TOTAL
DSA/flights/car hire	25,500	108,800	42,100	44,200	41,100	600	262,300
Training (inclusive shows in 2007)	6,000	36,000	50,000	65,000	60,000		217,000
Extra study tours			20,000	20,000	20,000		60,000
Shows and similar events			5,000	5,000	5,000		15,000
Publications			20,000	20,000			40,000
MAIL incentives (fixed positions)		40,200	54,300	57,000	57,000		208,500
Other incentives (germplasm collection etc)			10,000	10,000	10,000		30,000
Farm operations (labour)	550	11,400	16,980	32,860	51,218		113,008
TOTAL	32,050	196,400	218,380	254,060	244,318	600	945,808
Incidentals - total available							987,556
Unallocated incidentals (represents about 4% contingency)							41,748

Notes:

Farm expenses adjusted 30% annually for increased activity; a better estimate is needed. No farm operations are funded after 2010. For training, we can add more training, study tours etc

Distribution of farm operational expenses to different budget lines

	2006	2007	2008	2009	2010	TOTAL	%
Total farm operational expenses			87,000	113,100	147,030	347,130	100%
<i>Consisting of</i>							
Fertiliser & manure (Supplies already purchased)			30,000	35,000	37,000	102,000	29%
Fuel, water, chemicals (Contractor responsibility)		11,000	40,020	45,240	58,812	155,072	45%
labour cost (incidentals)	550	11,400	16,980	32,860	51,218	113,008	33%

ANNEX C: STAFF OF THE MINISTRY OF AGRICULTURE & IRRIGATION

The Project has a detailed programme for cooperating with the staff of the Ministry of Agriculture and Irrigation in the implementation of the project. These staff are located at each of the Perennial Horticulture Development Centres at the six main regional research centres where the project is developing the variety collections, demonstration orchards and mother stock nurseries.

After careful consideration of the tasks that needed to be done at the Perennial Horticulture Development Centres, it was decided to focus on four members of the provincial research farms to be nominated by the Ministry to cooperate actively with the project and participate in the PHDP.

These four positions were designated as:

- Horticulture Development Coordinator
- Orchard management specialist
- Germplasm collection specialist
- Horticulture Extension coordinator

Within the PHDP budget for Incidental Expenses, it had been agreed by the EC that there could be payments for MAIL staff that were not subject to the higher pay scales that will come into place after the PRR process (Civil Service Reform). The following scale of payments was agreed (some time after the workshop of the 11-12 September 2006, following debate in the Ministry:

- Horticulture Development Centre coordinator to take general responsibility, payment US\$250 per month
- Other staff members US\$200 per month
- Per diems only when away from station

Germplasm testing, germplasm clean-up, and nucleus nursery

It is hoped that an additional team from the MAIL will be recruited to work at Badam Bagh, Kabul to develop expertise in testing collected germplasm for viruses and other pernicious diseases, cleaning up the materials, and multiplying the materials in protected environments for distribution to registered mother stock nurseries. While the Aga Khan Foundation has received an EC grant under PHDP to operate the germplasm clean up facility under a two year contract, provision is being made for four MAIL staff to be nominated to work in the facility at Badam Bagh during the life of the AKF project

Four staff would be nominated as:

- Germplasm lead technician
- Germplasm technician (3 posts)

Horticulture Department

The initial proposal for support to the Horticulture Task Force has now been transferred to support to the MAIL staff in the Horticulture & Plant Services General Directorate and the Horticulture Department, particularly those dealing with:

- Planning & policy evaluation
- Monitoring & evaluation
- Database and information resources
- Technical & training coordination

Perennial Horticulture Development Project

Incentives for Ministry staff – projected expenditure (until not later than end December 2010)

Kabul-Badam Bagh (from March 2007)	US\$	months	US\$	Kunduz (from February 2007)			
PHD Centre coordinator	250	46	11,500	PHD Centre coordinator	250	47	11,750
Horticulturist	200	46	9,200	Horticulturist	200	47	9,400
Germplasm coordinator	200	46	9,200	Germplasm coordinator	200	47	9,400
Extension coordinator	200	46	9,200	Extension coordinator	200	47	9,400
			39,100				39,950
Kabul-Badam Bagh Nuclear Stock (May 2008)				Jalalabad (from February 2007)			
Micropropagation technician	250	32	8,000	PHD Centre coordinator	250	47	11,750
Virus testing technician	200	32	6,400	Horticulturist	200	47	9,400
Field testing technician	200	32	6,400	Germplasm coordinator	200	47	9,400
Clean plants systems monitor	200	32	6,400	Extension coordinator	200	47	9,400
			27,200				39,950
Herat –Urdokhan (from January 2007)				Kandahar-Kohkaran (August 2007)			
PHD Centre coordinator	250	48	12,000	PHD Centre coordinator	250	41	10,250
Horticulturist	200	48	9,600	Horticulturist	200	41	8,200
Germplasm coordinator	200	48	9,600	Germplasm coordinator	200	41	8,200
Extension coordinator	200	48	9,600	Extension coordinator	200	41	8,200
			40,800				34,850
Mazar – Dehdadi (from March 2007)				Horticulture Department (April 2007)			
PHD Centre coordinator	250	46	11,500	Planning & policy evaluation	250	45	11,250
Horticulturist	200	46	9,200	Monitoring & evaluation	250	45	11,250
Germplasm coordinator	200	46	9,200	Database and information resources	200	45	9,000
Extension coordinator	200	46	9,200	Technical & training coordination	200	45	9,000
			39,100				40,500
				Total			\$301,450

Variations in the start dates for payment of incentives cause the variation in expected payments under the incentive scheme.

Annex D Progress on Nursery Association Development

Shakardarah Nursery Growers' Association Establishment Meetings

District of Kabul Province	Date 2007	Agenda Of meetings	Outcomes	Participants					
				N.G.	NGOs	Dist. Agr. Dir	MAIL (HD)	PHDP	Total
Shakardarah	30 th April	PHDP program and benefits of associations	NG showed interest in establishment of association	34	0	3	0	3	40
	20 th July	Principals and functions of association	NGs were informed properly	11	SAB 2	1	1	2	17
	2 nd August	Discussion on draft By-law and selection of founder members	The drafted by-law was reviewed and 10 founder member were selected by NG	16	SAB 1	1	1	2	21
	30 th September	General Assembly session to: Ratify the by-law and election of board of directors and chairman	<ul style="list-style-type: none"> •Ratified the by-law •Elected 9-member board of director •Elected the chairman •Ratified the logo of association •Selected the office location 	30	SAB 1	0	0	2	33
Total # of participants				91	4	5	2	9	111

Paghman Nursery Growers' Association Establishment Meetings

District of Kabul Province	Date	Agenda Of meetings	Outcome	Participants					
				N.G.	NGOs	Dist. Agr. Dir	MAIL (HD)	PHDP	Total
Paghman	16 th July	PHDP program and benefits of associations	NG showed interest in establishment of association	22	SAB 1	3	1	2	29
	7 th August	Principles and functions of association	NGs were informed properly	35	SAB 1	3	1	2	42
	18 th August	Discussion on draft By-law and selection of founder members	The drafted by-law was reviewed and 10 founder member were selected by NG	18	SAB 1	3	1	2	25
	11 th September	Further discussion on the by-law and preparation for holding the first session of General Assembly	•The draft by-law was finalized Proper decisions were taken for holding the General Assembly meeting : determination of place, participants list, draft agenda, timing etc	12	SAB 2	2	1	3	20
	15 th September	General Assembly session to: Ratify the by-law and election of board of directors and chairman	•Ratified the by-law •Elected 7-member board of director •Elected the chairman •Ratified the logo of association •Selected the office location	34	SAB 1	2	0	3	40
Total # of participants				121	6	13	4	12	156

Bagram Nursery Growers' Association Establishment Meetings

District of Parwan Province	Date	Agenda Of meetings	Out comes	Participants					
				N.G.	NGOs	Dist. Agri. Dir.	MAIL (H.D)	PHDP	Total
Bagram	16 th May	PHDP program and benefits of associations	NG showed interest in establishment of association	34	0	3	0	3	40
	30 th July	Principals and functions of association	NGs were informed properly	24	SAB 1	5	1	3	34
	23 rd August	Discussion on draft By-law and selection of founder members	The drafted by-law was reviewed and 10 founder member were selected by NG	9	SAB 1	2	1	2	15
	5 th September	Further discussion on the by-law and preparation for holding the first session of General Assembly	•The draft by-law was finalized •Proper decisions were taken for holding the General Assembly meeting : determination of place, participants list, draft agenda, timing etc.	11	SAB 2	2	0	2	17
	3 rd November	General Assembly session to: Ratify the by-law and election of board of directors and chairman	•Ratified the by-law •Elected 7 -member board of director •Elected the chairman •Ratified the logo of association •Selected the office location •Fixing the membership fee	25	SAB 2	1	0	1	29
Total # of participants				103	6	13	2	11	135

Nangarhar, Samangan, & Kunduz Nursery Growers' Associations Establishment Meetings

Province	District	Date 2007	Agenda of meetings	Outcomes of meeting	Participants					
					N.G.	NGO	Agr. Dep	MAIL(HD)	PHDP	Total
Nangarhar	Jalalabad	21 st May	PHDP program and benefits of associations	NG showed interest in establishment of association	18	0	1	0	5	24
Samangan	Aybak	10 th Oct.	PHDP program and benefits of associations	NG showed interest in establishment of association	40	2 AfghanAid & AKF	7	0	3	52
Kunduz	Kunduz City	23 rd Oct.	PHDP program and benefits of associations	NG showed interest in establishment of association	42	0	13	0	10	65

Summary Information on establishment of Nursery Growers' Associations (NGA)

[So far established and under progress]

Number of NGA	Number of Provinces	Number of Districts	Number of Meetings	Participants					
				NG	NGOs	Agriculture Dept Staff	MAIL (HD)	PHDP	Total
6	5	6	17	415	18 SAB, AKF, & Afghanaid	52	8	50	543

Also to be included is Herat, where a nursery growers' association has been formed by CHA under their PHDP funding, and at the instigation of PHDP

ANNEX E: Mission reports of Edgardo Giordani (Germplasm short term expert)

First report: Input of 29th June-10th July, 2007

Purpose of visit

To contribute to develop management of the in situ inventoried genotypes

To provide information and to define a strategy for propagation of in situ collected accessions

To give presentation on cleaning and maintaining fruit germplasm

Report on the day-to-day activities

June 29, 2007 - FIRENZE

Air travelling to Kabul

June 30, 2007 - KABUL

Meeting with Team leader and experts of PHDP

July 1, 2007 - KABUL

Briefing with PHDP staff; visit to Dean of Faculty of Agriculture – Kabul University

July 2, 2007 - KABUL

Defining the strategy to manage inventoried accessions; preparing presentation on cleaning germplasm; organizing the First Pomological Exhibition of Fruit Germplasm

July 3 - KABUL

Defining the strategy to manage inventoried accessions; preparing presentation on cleaning germplasm; organizing the First Pomological Exhibition of Fruit Germplasm; meeting with H. Suter on germplasm indexing

July 4 - KABUL

First Pomological Exhibition of Fruit Germplasm. Workshop on Germplasm cleaning: presentation on Cleaning and maintaining propagation material.

July 5 – PANJSHIR

Visit to orchards and selection of in situ accessions of apricot, mulberry tree, peach and apple.

July 6, 2007 - KABUL

July 7, 2007 - KABUL

Preparing strategy for propagation of germplasm: checking passport data

July 8, 2007 - KABUL

Preparing strategy for propagation of germplasm: checking description of accessions and propagation needs

July 9, 2007 - KABUL

Meeting with team leader and staff on future activities for germplasm management

July 10, 2007 - KABUL

Travel to Firenze

Inputs and comments

A visit to the Dean of the Faculty of Agriculture – University of Kabul was paid in order to assess the completion of agreement between this university and the University of Florence – Italy. As a first step in cooperation, the University of Florence donated a free on-line and hard copy subscription to the journal *Advances in Horticultural Science* (Edited by the Department of Horticulture) and to the journal *Phytopathologia Mediterranea*. Contacts have been taken with Prof. Q. Saifi (Vice Chancellor for Academic Staff) and with the Director of the library in order to improve cooperation in the field of library management. Plans for establishing a collection of trees of different species in the fields of the Faculty of Agriculture have been done.

In the frame of the programmed workshops the presentation regarding “Cleaning and maintaining propagation material” was given. The relevance of traceability of clean propagation material was pointed out.

A first pomological exhibition have been organized with the staff of germplasm, in order to show to the participants the variability/quality of some of the in situ collected accessions and to train the staff on this subject. The “First Pomological Exhibition of Fruit Germplasm” included 28 different samples of fruits (grapes, peaches, plums, apricots, cherries and apples) which were presented with a label together with a catalogue indicating species, cultivar name, origin and place of harvesting, main use.

Visits to orchards and nurseries producing mainly apricots, mulberries, peaches and apples in the district of Bazarak (Jangalak and Hanis villages) have been done. Different plants of apricots cultivars (Shakarpara, Agabanu, Hazara, Kaisi, among others), of peaches and of mulberry trees were differentiated and /or described. Almost all apricots have small or medium size round fruits, predominant flesh colour is whitish-yellow, and taste is very sweet (up to 25 ° Brix of sugar content). An apple tree (Nazok Badan cultivar), interesting because of its early ripening time, nice skin colour, good taste and high market value, was marked. Among peaches, Pish Jawras and Boshqabi were inspected. Marakari, Kabut and Khodi were the mulberry cultivars checked. The selected accessions have a high value for interesting productive traits and also as source of genetic variability for future breeding plans.

The activity of survey has been checked and up-to-date results have been evaluated. The survey and the inventory is still under way, nevertheless almost 275 genotypes have been already marked. Passport data have been collected for each one; also a minimal first description has been done for each accession, together with pictures of the tree, leaves and fruits. Data is being input in database. For the end of the year 2007 it is expected that all passport data and description data (reported as Remarks) will be input in database.

Taking into account cultivar value (market demand, actual production relevance and some characteristics), the best ones have been selected for propagation in order to establish the ex situ collections, the demonstration orchards and in some cases to duplicate the in situ accession within the collection site (namely farms). The genotypes selected for propagation belong to a subset of the in situ collected accessions which will undergo to a more intense in situ characterisation process (re-visiting the genotypes in different phenological stages, improved fruit evaluation, etc.).

Certified citrus material for a first multiplication stock will be imported: a strategy for its management in Afghanistan is under definition.

The aspects of germplasm management that should be developed in the next inputs, for which strategies and protocols should be defined, are: the further activities of inventorying (improving the in situ collection); the characterisation of the in situ accessions (namely for the subset of selected accessions under propagation); the preparation of a web page on fruit genetic resources in Afghanistan; the establishment of an online database (definition of database accessibility, outputs, etc.); the internationalisation of information on fruit genetic

resources (contacts with Bioversity, etc.); the management of possible material for exchange/utilisation in foreign countries under the FAO International Treaty on Plant Genetic Resources for Food and Agriculture (sustainability and equitable participation in sharing benefits from the utilisation of germplasm).

Proposals to develop projects between the University of Florence and the University of Kabul regarding: a) the translation into local languages of an atlas of temperate fruit tree species (botanical description and descriptors list for 40 species); b) the introduction and in field evaluation of persimmon cultivars and of different “berries” species and cultivars, are under preparation. They will be submitted to different potential donors for funding.

Training activity

During the whole mission different topics regarding germplasm, nurseries and fruit culture in general were discussed. The formal training activities were:

- Oral presentation on “Cleaning and maintaining propagation material” – Workshop on germplasm cleaning (04/07/07);
- In field training on description of in situ accessions;
- Training on management of a pomological exhibition (choosing and labelling samples, preparing the catalogue, the database and the fruit presentation).

Outputs

- Presentation on “Cleaning and maintaining propagation material”
- A report on “Management of the in situ germplasm collection: propagation and first characterisation strategies” has been developed.

Kabul, July 10, 2007

Edgardo Giordani

Second report: *Input of 9th-22nd November 2007*

Purpose of visit

To follow the development of activities on germplasm (in situ collection, first characterisation, nurseries)

To define the work plan for 2008

To train germplasm managers on germplasm tasks

To contribute to develop management of germplasm collection and preservation centre.

To provide information on demonstration orchards.

To give presentation on orchard design and orchard establishment

Report on the day-to-day activities

November 9, 2007 - FIRENZE

Air travelling to Kabul

November 10, 2007 - KABUL

Arrival at Kabul – Meeting with Team leader

November 11, 2007 - Jalalabad

Discussion with the FH and Ignacio Trives on the first steps to follow for the management of data collected from the in situ registered accessions and on the decisions to be taken for the propagation of local accessions. Visit to the nurseries in Farm- e- Jadid to see the nurseries of fruit tree species (almond, apricot, citrus, persimmon and guava).

November 12, 2007 – Jalalabad - Kabul

Meeting with Purdue University team at University of Kabul

November 13, 2007 – Kabul

Preparing presentations

November 14, 2007 – Kabul

Giving presentations on “Orchard and vineyard design” and “Vineyard establishment” at Seminar

November 15 – Kabul - Herat

Visit to the AgFair Herat and discussion with FH of Herat and Kandahar and with the Germplasm Development Officer

November 16 - Herat

Visit to Urdokhan Research Station (stone fruit nurseries, rootstock for pome fruits, demonstration orchards)

Meeting with Laura Imburgia (CRS)

Defining propagation plans for 2008 with PHDP field horticulturists

November 17 - Herat

Visit to the Dean of the Faculty of Agriculture – University of Herat

Defining propagation plans for 2008 with field horticulturists

November 18 – Herat – Kabul

Verifying activities done on germplasm

November 19 – Kabul

Verifying activities done on germplasm (in situ registration, first characterisation, data input and database)

November 20 – Kabul

Preparing report and presentation on planning activities for 2008

November 21 – Kabul

Preparing report and presentation on planning activities for 2008

November 22 – Kabul

Preparing reports

Meeting with staff of Italian Embassy for cooperation, mobility and training requirements.

Meeting with Henri Suter, AKF.

November 23, 2007

Travel to Firenze

Kabul, November 23, 2007

Annex F: Germplasm collection status report

Species	Number of varieties registered in nursery survey	Number of unique varieties registered within in situ collection	Number of accessions registered within in situ collection	Number of varieties budded in ex situ site (PHD Centre)
Almond	28	42	103	41
Apple	46	43	55	0
Apricot	53	57	137	57
Cherry	6	5	9	0
Citron	0	1	2	3
Fig	3	4	6	0
Grapefruit	0	3	7	6
Grape	13	96	142	0
Guava	2	0	0	0
Jamun	1	0	0	0
Lemon	2	2	4	5
Lime	1	2	2	1
Loquat	1	2	3	0
Mandarin	0	2	3	12
Mango	1	0	0	0
Mulberry	6	6	7	0
Olive	4	0	0	0
Orange	2	15	26	25
Peach	56	58	94	58
Pear	17	15	18	0
Persimmon	10	12	14	0
Plum	42	53	89	53
Pluot (plum x apricot hybrid)	3	3	3	3
Pomegranate	3	27	44	0
Pomelo	0	2	3	2
Quince	3	2	7	0
Rough lemon	0	1	1	1
Sour cherry	0	2	11	0
Sour orange	1	0	0	0
Trifoliate (rootstock)	0	1	1	1
Walnut	6	0	0	0
Total	310	456	791	268

All the stone fruit and citrus varieties (except rootstock varieties) were budded in 2007. One additional almond variety was added to the in situ collection after the budding season. Nearly all the rest of the species will be budded or cuttings rooted in 2008

Annex G: Numbers of fruit tree nurseries per district and province

CENTRE	PROVINCE	DISTRICT	Total	
HERAT	Badghis	Qadis	22	
		Qala-I- Naw	2	
	Badghis Total		24	
	Ghor	Shahrak	4	
	Ghor Total		4	
	Hirat		Ghoryan	2
			Zinda Jan	2
			Karukh	3
			Pashtun Zarghun	8
			Injil	12
			Shindand	12
			Guzara	80
	Hirat Total		119	
	HERAT Total			147
JALALABAD	Laghman	Mihtarlam	60	
	Laghman Total		60	
	Nangarhar		Dih Bala	1
			Kuz Kunar	1
			Sherzad	1
			Kama	2
			Surkh Rod	2
			Chaparhar	3
			Khogyani	5
			Rodat	5
			Bati Kot	8
			Jalalabad	17
	Nangarhar Total		45	
JALALABAD Total			105	
KABUL	Ghazni	Dih Yak	1	
		Ghazni	22	
	Ghazni Total		23	
	Kabul		Khaki Jabbar	1
			Dih Sabz	2
			Istalif	3
			Kalakan	3
			Bagrami	5
			Chahar Asyab	6
			Surobi	7
			Qarabagh	9
			Guldara	14
			Kabul	17
			Mir Bacha Kot	21
			Paghman	40
	Shakar Dara	88		
	Kabul Total		216	
Kapisa		Nijrab	4	
		Mahmud Raqi	39	

Perennial Horticulture Development Project

Kapisa Total		43	
Logar	Puli Alam	5	
	Charkh	7	
	Muhammad Agha	12	
	Baraki Barak	17	
Logar Total		41	
Parwan	Hisa-I-Awali Panjshe	2	
	Panjsher	3	
	Chaharikar	10	
	Shinwari	22	
	Shekh Ali	24	
	Surkhi Parsa	24	
	Ghorband	31	
	Bagram	41	
	Jabalussaraj	51	
Parwan Total		208	
Wardak	Day Mirdad	1	
	Markazi Bihsud	5	
	Chak	23	
	Saydabad	23	
	Maydan Shahr	30	
	Jalrez	33	
	Nirkh	49	
Wardak Total		164	
KABUL Total		695	
KANDAHAR	Hilmand	Nad Ali	1
		Nawa-I- Barakzayi	11
		Lashkar Gah	14
	Hilmand Total		26
	Kandahar	Daman	2
		Arghandab	10
		Kandahar	63
Kandahar Total		75	
KANDAHAR Total		101	
KUNDUZ	Baghlan	Burka	1
		Puli Khumri	1
		Dushi	2
		Khinjan	2
		Nahrin	2
		Dahana-I- Ghor	7
		Baghlani Jadid	10
	Baghlan Total		25

Perennial Horticulture Development Project

	Kunduz	Aliabad	1
		Khanabad	1
		Qala-I- Zal	1
		Archi	2
		Imam Sahib	2
		Kunduz	8
		Chahar Dara	44
		Kunduz Total	59
	Takhar	Rustaq	1
		Warsaj	1
		Bangi	2
		Farkhar	2
		Kalafgan	2
		Yangi Qala	2
		Khwaja Ghar	3
Taluqan		6	
Takhar Total	19		
KUNDUZ Total		103	
MAZAR	Balkh	Kaldar	1
		Chimtal	2
		Dihdadi	2
		Balkh	4
		Chahar Bolak	7
		Kishindih	10
		Dawlatabad	24
		Sholgara	24
		Nahri Shahi	50
		Khulm	92
		Balkh Total	216
		Faryab	Dawlatabad
	Khwaja Sabz Posh		2
	Qaysar		7
	Shirin Tagab		8
	Faryab Total	19	
	Jawzjan	Aqcha	1
		Shibirghan	14
	Jawzjan Total	15	
	Samangan	Aybak	128
		Hazrati Sultan	15
Khuram Wa Sarbagh		8	
Samangan Total	151		
Sari Pul	Sari Pul	8	
	Sozma Qala	8	
Sari Pul Total	16		
MAZAR Total		417	
NATIONAL TOTAL		1568	

Annex H Short description of EC visibility actions

The project vehicles were delivered in January 2008 (after the period of this report). It is the intention of the project not to use EC logos on vehicles due to the increased danger of providing vehicle identification to terrorists.

1. The Project uses a distinctive project logo in conjunction with the blue EU flag on all stationery, including business cards and letterheads. This theme is carried consistently through all publications and printed materials of the project. No logos or identification of the contractor is carried on these materials, which enhances the visibility of the EC (this is partly a practical reason, as the contractor is a consortium of three companies, each with their own logos).
2. The Project provides all invitations to workshops and seminars in the standard project format as above
3. The Project prepared a sign for the office in the MAIL, including the project logo and the EU flag. This was not allowed to be displayed in the MAIL compound at Kabul, and was transferred to Badam Bagh Farm in Kabul. Other MAIL farms are not in prominent locations and only small signage is used
4. The Project has participated in Agricultural Fairs in 2007 in Kabul (twice), Mazar, Jalalabad, Herat (also a Seed Fair). The stands included banners with the EU flag. Various materials have been prepared for the shows, and the project logo is always shown, and the EU flag where possible, depending on the context. (For instance, the pictures related to the National Collection of Varieties shows the project logo and the MAIL logo)
5. The Project has prepared illustrated leaflets in English, Dari and Pashto languages for distribution at shows. These leaflets include the EU flag to denote the EC funding.
6. The Project has plans for several information booklets that will clear show that they are sponsored by the EC.
7. The Project implementing NGOs are also enjoined to provide EC visibility actions.