



HORTSYS Final report

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Document developed in the framework of the HORTSYS project:

“Stimulation of the Indonesian horticultural sector through policy assistance and improvement of the seed quality system”

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A collaboration of:



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DG HORTICULTURE

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Summary

HORTSYS obtained subsidy from EVD through its Indonesia Facility. Partners were Directorate General Horticulture, Directorate Horticulture Seeds and Infrastructure (now Directorate Horticulture Seed and Production Inputs, henceforth 'Horticulture' for short) and BBPPMB-TPH (BPMB) from Indonesia and Naktuinbouw and Plant Research International (PRI) from the Netherlands.

Main issues were 1. Policy support to assist with the development of new regulations;
2. Provide some equipment to BPMB and 6 provincial inspection services (BPSB's);
3. Train staff of BPMB and BPSB's.

The third element included advising BPMB to be able to achieve accreditation by the International Seed Testing association (ISTA).

The Policy support was very timely because a new Horticulture law was drafted. The project produced a report: "The future of the Indonesian vegetable seed sector – Policy recommendations for improved seed availability". Recommendations were discussed at length during personal discussions with MoA staff and presented during the final meeting on 27 September 2010 (see report of this meeting). The private sector representatives present were all strongly supporting the recommendations.

Equipment was purchased in various European countries and shipped to Indonesia. There it was distributed to BPMB and 6 BPSB's; those of Bandung, Medan, Pontianak, Makassar, Solo, and Surabaya. All equipment was installed successfully with the assistance of BPMB staff.

The training approach consisted of three distinct steps: 1. training of trainers (TOT) and BPMB staff in English; 2. Translation of the course manual and give TOT training in bahasa Indonesia (with backup); and 3. Outreach training courses at 4 locations in the country, entirely done by the local staff (the trained trainers): in Medan, Pontianak, Makassar, and Malang. Staff of BPMB and various BPSB's (from Bandung, Surabaya) assisted.

The number of staff trained was larger than planned: 115 instead of the planned 50.

One outstanding item still remains: due to unforeseen problems with membership payments to ISTA, the application for accreditation was done rather late. As a result the audit visit will take place after the official closing date of the project (31 October 2010). The process of corrective actions is expected to last a few months still and it was agreed with EVD that this Means of Verification can be delivered if and when it will be obtained.

The project leader is extremely satisfied with the enthusiasm and hard work done by his Dutch and Indonesian colleagues and counterparts. This was essential for the more than 100% successful outcome of this project.

In conclusion it can be stated that all objectives have been reached, if not more.

Achievements per Result

Result	Inception phase	
1	01-11-2007 – 30-03-2008	
Sub results	Means of verification	Realisation
1. Management agreement describing the rights and (financial) obligations of all partners towards EVD.	Copy of the management agreement signed by all project partners.	Submitted
2. Formal agreement between all project partners, viz. Plant Research International B.V., Agency for Seed Quality Testing Development for Food Crops and Horticulture (BPMB-TPH), the Directorate of Horticulture Seed and Infrastructure and the Ministry of Agriculture, and Naktuinbouw.	Copy of this agreement signed by all project partners.	Submitted
3. Kick-off meeting organised by the project team for interested companies (20) and government agencies.	Report containing the list of attendees and results of the kick-off meeting.	Report of kick-off meeting
4. Agreement between the INDF project partners and the participating 6 regional Indonesian labs	Copy of this agreement.	Statements of Availability (SoA's) produced
5. List of the hardware to be purchased	Copy of this hardware list.	List of equipment submitted
6. Detailed proposal for the complete training programme. it should contain the names of trainers, trainees, number of training days, subjects and planning	Copy of the proposal for the training programme.	Included in Inception report (Annex 6)
7. Inception report that should contain a detailed implementation plan and all documents that are mentioned in this Result.	Copy of the inception report (see <i>Reporting Instructions</i>).	Elaborate report submitted as well as a report in EVD format

Result 2	Policy support 01-04-2008 – 31-10-2010	
Sub results	Means of verification	Realisation
1. Development of a system for the collection of market information and analysis for the purpose of policy development in the area of quality control and certification of the seed sector.	1. A copy of this system.	Report: "The future of the Indonesian vegetable seed sector" was written February 2010.
2. Development of new Indonesian regulations for quality control and certification of the seed sector.	1. Copy of new Indonesian regulations.	A new seed law is being drafted. It is currently under discussion by the relevant Parliamentary Commission.
3. Study tour to the Netherlands to study the seed quality and certification system by 3 representatives of the Indonesian partners.	1. Report of the trip	Report was written: Laporan perjalanan dinas ke Belanda - Dalam rangka study visit proyek HORTSYS
4. Progress report that should contain all documents that are mentioned in this Result.	1. A copy of the progress report (see <i>Reporting Instructions</i>).	Done in Periodic Reports

Result 3	Equipping the Central BPMB laboratory and 6 regional laboratories 01-07-2008 – 30-06-2010	
Sub results	Means of verification	Realisation
1. Central BPMB laboratory equipped with the new INDF equipment.	1. Protocols of reception and installation of the equipment. 2. Photos of the new BPMB laboratory.	1. Protocol of transfer of goods to BPMB and 5 labs.pdf 2. Photo BPMB.jpg
2. Six (6) regional labs appropriately equipped	1. Protocols of reception and installation of the equipment. 2. Photos of the 6 newly furnished regional laboratories.	1. a. Protocol of transfer of goods to BPMB and 5 labs.pdf (one lab at Bandung only received small equipment, because they had enough germinators) b. Protocol of transfer of goods to Medan.pdf 2. Photo *.jpg (5 photos; Bandung only small equipment, therefore no photo)
3. Progress report that should contain all documents that are mentioned in this Result.	1. A copy of the progress report (see <i>Reporting Instructions</i>).	Done in Periodic Report 4

Result	Training	
4	01-07-2008 – 30-06-2010	
Sub results	Means of verification	Realisation
1. Curriculum development for seed testing and certification. Training of six (6) analysts at the Central Laboratory in Jakarta during five (5) days. This will be done in the English language.	1. Copy of the curriculum. 2. Report containing the training logbook of the results of the training performed. This should contain the names of the trainers, trainees, training subjects, and the number of training days. 3. Training certificates of the 6 trainees.	1. Manual Course 1 (folder on CD with all the files) 2. a. Programme Course 1.doc b. List of papers with presenters.doc c. absensi hortsys.jpg d. Photos of the course e. Compilation Course evaluation1st HORTSYS Course.doc 3. Certificate HORTSYS.jpg In total 15 analysts trained
2. Train-the-Trainers programme for 12 analysts during a minimum of 5 days. Analysts of 6 regional laboratories (3 on Java, 1 on Sumatra, 1 on Kalimantan, and 1 on Sulawesi) will be trained.	1. Report containing the training logbook of the results of the training performed. This should contain the names of the trainers, trainees, training subjects, and the number of training days. 2. Training certificates of the 12 trainees.	1. a. Manual Course 2 and 3 (folder on CD with all the files) b. Course programme HORTSYS Step 2.doc c. Kompilasi-Course evaluation form 2 nd HORTSYS Course.doc d. Absensi 16-11-2009 e. Photos of the course 2. Certificate.jpg In total 22 analysts trained
3. Training programme in 4 regions by eight (8) Indonesian trainers for 32 regional analysts of 16 other regional laboratories. This programme will be in Bahasa Indonesia.	1. Report containing the training logbook of the results of the training performed. This should contain the names of the trainers, trainees, training subjects, and the number of training days. 2. Training certificates of the 32 trainees.	As above, but x 4 see 4 separate folders on CD In total 78 analysts trained
4. Central BPMB laboratory accredited by ISTA	1. Copy ISTA accreditation.	Still on-going. Audit will take place on 2 November 2010.
5. Progress report that should contain all documents that are mentioned in this Result.	1. A copy of the progress report (see <i>Reporting Instructions</i>).	Done in Periodic Reports.

An extra element was added to Result 4: training of two personnel from BPMB at the Training Course on Seed Quality Assurance in New Zealand 2009. This was achieved and a report of the trip was written: "Report of ISTA workshop on quality assurance in seed testing Massey University, New Zealand, 19-23 October 2009 " (NZL Report.pdf)

Result 5	Dissemination and final reporting 01-08-2010 – 31-10-2010	
Sub results	Means of verification	Realisation
1. Evaluation of the results of this project.	1. Copy of this evaluation report.	1. Short evaluation report 2. The actual evaluation is contained in the present (Final) report : 1. this table concerning the deliverables and 2. the following chapter regarding the development-related issues.
2. Agreement between all project partners aimed at future cooperation.	1. Copy of the cooperation agreement signed by all project partners.	MoU between DG Horticulture, BPMB, Naktuinbouw and PRI.
3. Final meeting for all stakeholders (government and private sector).	1. Report containing the list of participants and the results of this final meeting.	HORTSYS-Final meeting report.jpg

Evaluation of spin-off effects

Effects on poverty alleviation

Seeds are the basis for a healthy and profitable horticulture. The project has contributed to knowledge increase at various levels of the sector, which will result in more knowledge-based decisions by certification agencies, seed testing organisations, government policy officials, and law makers. This will result in a better understanding of how seeds move, what determines their quality and how farmers are best served.

Farmers are growing vegetables as a cash crop, but often the quality and therefore the sales price is very low. They will benefit from a wider choice of varieties, and seeds of better quality. They will also get better advice from field inspectors visiting their field.

The income of farmers will consequently increase due to the production of varieties that are more desired on the market, reduction of crop due to less seed-transmitted diseases, and their produce will fetch a higher price because it will have a higher quality and hence a higher sales price.

At the same time the farmer's family will benefit from consumption of more vegetables, providing them with essential vitamins and other health-promoting substances.

Institutionalisation of the knowledge that has been transferred

The training programme in three distinct stages was especially designed to increase the chances of sustainability and continuity. The programme started with an elaborate programme in English for the more experienced staff. This had two goals: on the one hand improving the level of expertise of staff of the central laboratory (BPMB) and a six of the more advanced labs in the country; and on the other hand preparing them to become teachers in the following courses.

In the second year all training material has been translated into bahasa Indonesia and the training entirely given by Indonesian staff. The project leader was only present for backup and questions and answers at the end of the training days. This resulted in more self-confidence and training skills of the trained trainers.

In the third year, the outreach phase, the trainings were held at location in four important vegetable producing provinces. These were attended by trainees from about 30 different provinces, 78 participants in all.

As expressed by staff of BPMB, they feel more confident as centre of expertise now and will be able to perform their coordinating task better. They already received requests for training and already during this project period will receive a number of trainees from a number of seed companies in East Java.

It was also concluded that this type of training should become a yearly event, because the number of untrained staff is still high. Moreover, staff turnover is quite large with people being transferred from one official job to another resulting in a constant need for training. The Director of Horticulture Seed and Production Inputs has expressed his intention to allocate a yearly budget for this purpose.

Effects of the project on the horticultural sector

At the policy level, the discussions about the seed regulations have resulted in a number of recommendations. These were discussed during the final meeting and got wide support, especially from the private sector. This project was very timely because during the last year DG Horticulture was preparing a new separate law, especially for vegetables. This law is based on the notion that the horticultural sector needs a separate law because it cannot develop with regulations based on agriculture. The recommendations are therefore very much focussed on this development. In the future years during which this law will be

detailed and implemented with decrees and regulations these recommendations can be used as a basis. The authorities appreciated our initiative very much and we have the mutual intention to develop this further together.

Spin-off effects for the private sector

The private sector has expressed its concern about existing regulations and is greatly favouring the suggestions that have been made. If included in the new law and subsequent regulations, this will result in a more level playing field for national and international companies alike. It will speed up the registration of varieties, it will no longer result in rejection of varieties on basis of agronomic criteria (and open up the way for consumer preferences and farmer's choice), there will now be a central seed testing authority available for second opinion as well as an institute that can issue international ISTA certificates for the first time in Indonesia which are often needed for export.

The increased knowledge base of various partners as well as related authorities which were involved in our discussions will inevitably lead to a better organised seed sector.

In the end, the farmer will benefit, because (s)he will get better access to quality seed of a wider choice of varieties.

Practical experiences with knowledge transfer in Indonesia

The approach taken (the three-step approach) proved very successful and will also be used in future projects, in Indonesia and elsewhere. It was based on the fact that very few people manage the English language properly, and at the same time teachers from Europe do not speak bahasa Indonesia, and certainly not at an acceptable level. With this approach this language barrier could be overcome.

Another problem are the rather poor facilities and conditions under which people have to work. The equipment and facilities are hardly ever adequate. This means that training must be very basic and tuned to their conditions. It was therefore fortunate that some equipment could be bought for them with which they are now familiar.

Finally, we were struck by the enthusiasm of both our Indonesian teaching colleagues and the participants. They were all very eager to learn, because they could use the knowledge directly in their work. This has opened their eyes and will undoubtedly have a snowball effect. They now know what needs improvement and how to use their new contacts. This is already working during the project and will continue afterwards.

Related documents

Apart from the semi-annual reports, the project yielded the following documents.

BBPPMB-TPH 2008. Training Manual developed in the framework of the HORTSYS project. Parts 1 and 2.

BBPPMB-TPH 2009. Materi Pelatihan Tahap 2 (Training Manual step 2)

BBPPMB-TPH 2010. Materi Pelatihan Regional (Training Manual step 3)

Van der Burg, WJ 2010. The future of the Indonesian vegetable seed sector – Policy recommendations for improved seed availability. Internal project report. 25 pp.