



**IFAR 2006 Professional Development Program  
Completion Report  
[800 words]**

**Instructions:**

Please submit the completion report by email, using this form, through the sponsoring CGIAR Center to [ifar@ifar4dev.org](mailto:ifar@ifar4dev.org) within three months after the completion of the fellowship.

*Please check if Thalwitz Scholarship*

Yes

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**Name of Applicant**

**Dr. Hardi Prasetyo**

**Title of project**

**“Supporting smallholder livestock options in post-tsunami recovery in Aceh as part of integrated natural resource management”**

**Sponsoring CGIAR Center**

**The World Agroforestry Centre (ICRAF)**

### **I. Work Program goals achieved (maximum length: 200 words)**

The short term goal of testing applicability of intensive duck raising using local resources in post-Tsunami Aceh by women groups was achieved. The long term goal of economic sustainability is on its way.

Duck production system was established in two locations affected by the tsunami, in Samatiga and Meurebo of West Aceh, with two different models. For the first group in Meurebo, ducks are raised by a women group under the supervision of a local NGO (non-government organization) which specifically deals with women empowerment. For the second group in Samatiga, ducks were distributed to 10 farmers from members of a farmers' group "Harapan Bersama". Each farmer in the two locations was given initial training in duck raising, provided with 50 pullets and enough feed until 2 months egg production. The confinement system in raising layer ducks can be adopted by the farmers, and a simple feed formulation can be applied in order to meet the nutritional requirements of laying ducks. The simple technology package was readily available and with an appropriate method of delivery of the required knowledge to the farmers it was easily applied and adopted by farmers. Both groups are very enthusiastic in responding to all the activities

### **II. Plans for follow-up (maximum length: 200 words)**

Tests of livestock intensification in post-Tsunami Aceh were planned for two years in order to monitor the farmers' groups activities and their performances in their livestock production. The applied technology for duck production has attracted interests from various international donor agencies, including Tearfund. The project has also succeeded in increasing farmers' awareness that ducks can be used as an alternative source of income if operated as an economic entity, especially for women who left the refugee barracks and moved in to their new houses. The duck rearing gives them activity and provides them with cash income from sale of eggs. The activities have attracted interests from local livestock extension workers, and they will continue to support in monitoring the progress of the farmers' groups. This project should be continued in the second year in order to monitor and supervise the groups for better performances, and also for their marketing strategy. Results were shared at the INRM workshop in Meulaboh in November 2006, ahead of the 2<sup>nd</sup> anniversary of the Tsunami (<http://www.worldagroforestry.org/sea/W-New/aceh.asp>).

Further plans exist to test a technology package for goat production, linked in with ICRAF activities to support 'nurseries of excellence' that support fodder production.

### **III. Report budget utilization including whether budget was spent as planned (maximum length: 100 words)**

Most of the budget was used as planned. Some of the budget allocated for duck feed was used for funding operational cost of the two farmers' groups, approximately 10%. 500 ducklings from improved local breed were sent from Bogor and allocated to the women group, and the other 500 ducklings were purchased locally from local breed and distributed to the second group. Feed was purchased from the local poultry shop and from rice mills. One scientist from Bogor and one scientist from North Sumatera were assigned to travel to locations five times from preparation stage to implementation and monitoring farmers activities. Activities in the locations were facilitated and supported by ICRAF staff stationed in Meulaboh, the capital city of West Aceh.

**IV. Assessment of the fellowship experience and general comments.****(maximum length: 300 words)**

Based on the immediate needs for an intergrated approach to the recovery of livelihoods in post-Tsunami Aceh, this research fellowship has provided an opportunity to initiate a joint research project with multi-disciplinary approach between ICRAF as the leading CGIAR centre in post-Tsunami Aceh, and the main national animal production research agency in Indonesia. The interaction did improve synergism between programs of the agencies and in turn improved efficiency and results. This project has at least increased awareness of many agencies the possible roles that livestock can play in different farming system or agroforestry system, either to the system or to the farmers households. This is particularly important considering that during rehabilitation of livelihood post-tsunami in West Aceh, many agricultural programs were designed and implemented individually and many of them without any clear coordination and integration between them. Discussion during seminars and workshops in related topics sponsored either by ICRAF or NARS have been effective in synchronising various activities, especially in integrated natural resources management as the main thrust of ICRAF mission. This joint project has also strengthened linkages between CGIAR system with the NARS in Indonesia, resulting from better understanding between the systems, particularly in livestock sub-sector. On the other hand the Indonesian Research Institute for Animal Production (IRIAP) has also managed to improve its understanding on the possibility of involving livestock in agroforestry system. Both agencies have agreed to promote the application of science-based technology into production system in the fields where appropriate and when supporting components available, which is the common mission of both ICRAF and IRIAP. The main challenge was to squeeze the two-year effort of testing applicability of technology packages into the one year IFAR fellowship. The basis for further cooperation has been laid.