

3.3 Basic Development Plan of Eight Model Areas

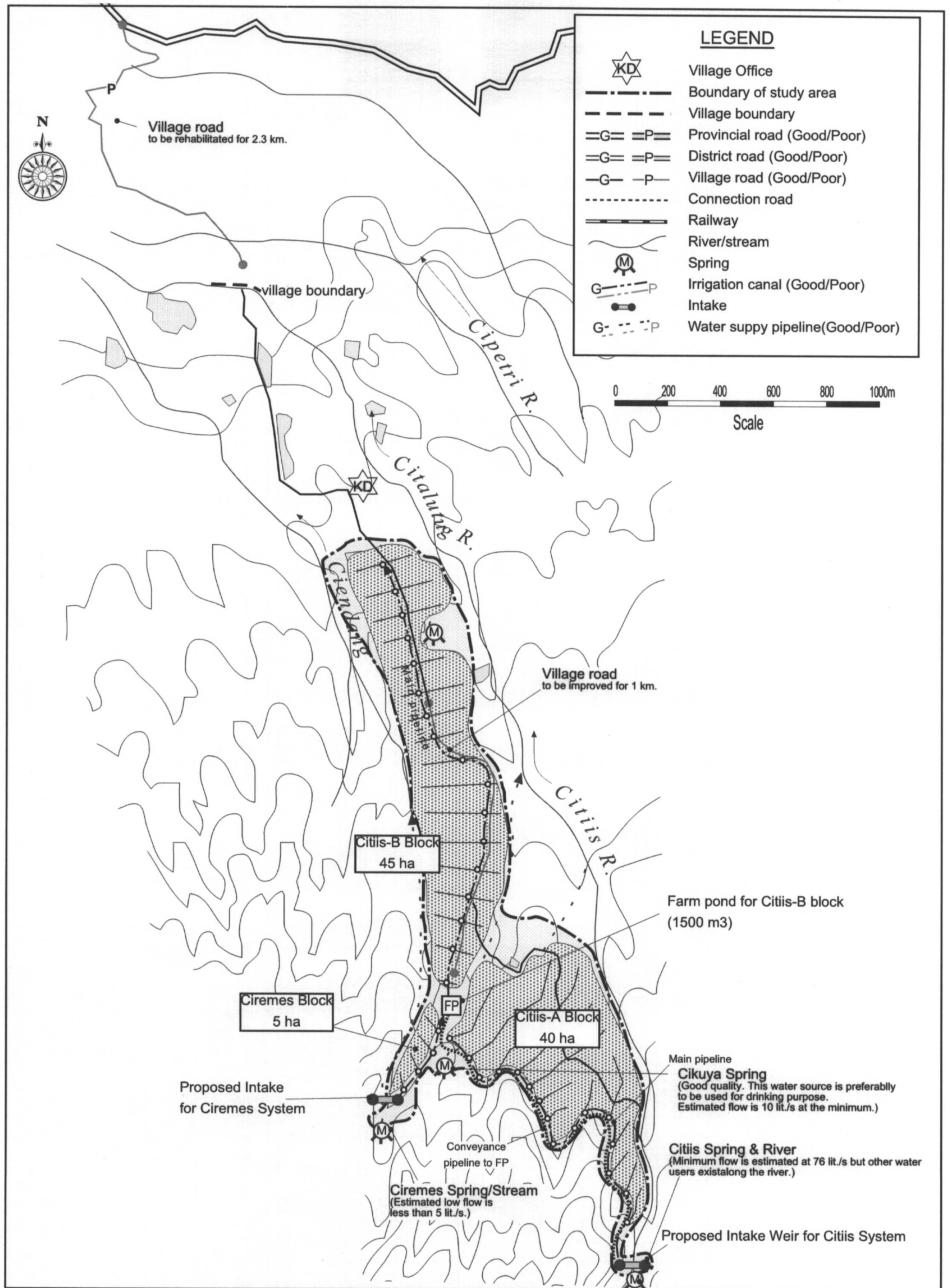
The basic development plans of eight model areas are presented here in the form of PDM (Project Design Matrix), describing the project summary (overall goal, project purpose, output and activities), specific inputs for the model areas and overall inputs related to all model areas, verifiable indicators, means of verification, and important assumptions. Following to PDM are the preliminary project layouts of eight model areas.

3.3.1 Basic Development Plan of Mekarjaya Model Area (PDM)

Target Group : Farmers in Mekarjaya Model Area (including tenant farmers)

Project Term : 5 years

Project Summary	Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal Development model of the model area is expanded over highland area of West Java Province.	Increased number of similar schemes	District and Subdistrict Agricultural Service Offices	Ministry of Agriculture continuously adopts the horticultural dev. policy.
Project Purpose Farmers' income is increased and living standard is improved through stabilization of vegetable production.	Increase rate of farm income (to be adjusted using GDP deflator)	Farm surveys to be made in project monitoring works	Economic situations of Indonesia do not aggravate seriously.
Outputs 1. Vegetable production system is improved. 1-1 Irrigation water is supplied. 1-2 Research information on vegetable crop cultivation technology is available. 1-3 Farmers' vegetable production technology is improved. 2. Marketing system of vegetable products is improved. 2-1 Farmers' collection and delivery activities are improved. 2-2 Village transportation system is improved. 2-3 Crop planning is formulated by farmers based on market needs. 3. Farmers' organizations are activated in agricultural dev. 3-1 Farmers/farmer groups are reorganized. Capacity of farmers' organizations is improved in 3-2 O&M of rural facilities, marketing of vegetables, farm inputs & credit supply, and organizational management.	Vegetable cropping intensity Unit yields of vegetable crops Amount of farm inputs Amount and value of jointly delivered vegetables Number of in-coming middlemen Changes in cropping intensity Date of registration and number of members Planned and actual cropping patterns Number of credit users and loan amount Handling amount and value of farm inputs Operation of Farmers' Cooperative Operation of Farm Water Users Association	Record of Farm Water Users Association Farm surveys Farm surveys Record of Farmers' Cooperative Information from Farmers' Cooperative Record of WUA/Farm surveys Registration records of Coop. and WUA Record of WUA and farm surveys Record of Farmers' Cooperative Record of Farmers' Cooperative Balance sheet of Farmers' Cooperative Balance sheet of Farm Water Users Association	Existing marketing and transportation system for vegetables do not aggravate seriously. Relevant research institutes continue their research works.
Activities 1-1 To develop irrigation facility. 1-2 To establish linkage with relevant research institutes. 1-3 To operate farmers field school along with demoplots. 2-1 To improve collection and delivery facilities for vegetable products. 2-2 To improve village marketing road. 2-3 To train farmers on crop planning based on market needs involving private sector. 3-1 To train farmers/farmer groups in forming Farmers' Cooperative, Farm Water Users Association, and Rural Water Supply Users Association. 3-2 To train farmers' organizations on: 3-2.1 operation and management of rural facility, 3-2.2 joint purchase of farm inputs and tools, 3-2.3 joint collection and delivery of vegetable products, 3-2.4 post-harvest handling and packaging, 3-2.5 credit handling and management, and 3-2.6 organization management.	Inputs for this Model Area Manpower - Village Coordinators : 324M/M (Rp.648 mil.) Facility - Irrigation facility: 100 ha (Rp.658 mil.) - Village marketing road: 3.3 km (Rp.511 mil.) - Collection/delivery facility: 10 units (Rp.100 mil.) Training of farmers/farmer groups/farmers' organizations: (Rp.242 mil.) Training of Village Coordinators: (Rp. 16 mil.) Administration cost: (Rp.218 mil.) Total Cost: Rp.2,393 million	Inputs for All Model Areas) Manpower - External experts: 540 M/M (Rp.25,290 mil.) Facility - Adaptive Trial Farm Improvement: 2 ha (Rp.320 mil.) Machine/Equipment - Car: 2 units - Computer: 5 units - Photo copy machine: 1 unit - Motorcycle for Village Coordinator: 25 units (Rp.425mil.) Training of Task Team: (Rp.471 mil.) Administration cost: (Rp.2,650 mil.) Total Cost: Rp.29,156 million	Cooperation of relevant research institutes is provided. Cooperation of relevant agencies at provincial, district and subdistrict levels is provided. Cooperation of private sector is provided. Pre-conditions Farmers in the model area participate in the Project. Ministry of Agriculture and West Java Province Agricultural Service Office continue their support to the Project.



THE FEASIBILITY STUDY ON THE INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT IN HIGHLAND AREA IN THE REPUBLIC OF INDONESIA

Japan International Cooperation Agency

Agricultural and Rural Infrastructure Improvement Plan Mekarjaya Model Area














3.3.2 Basic Development Plan of Langensari Model Area (PDM)

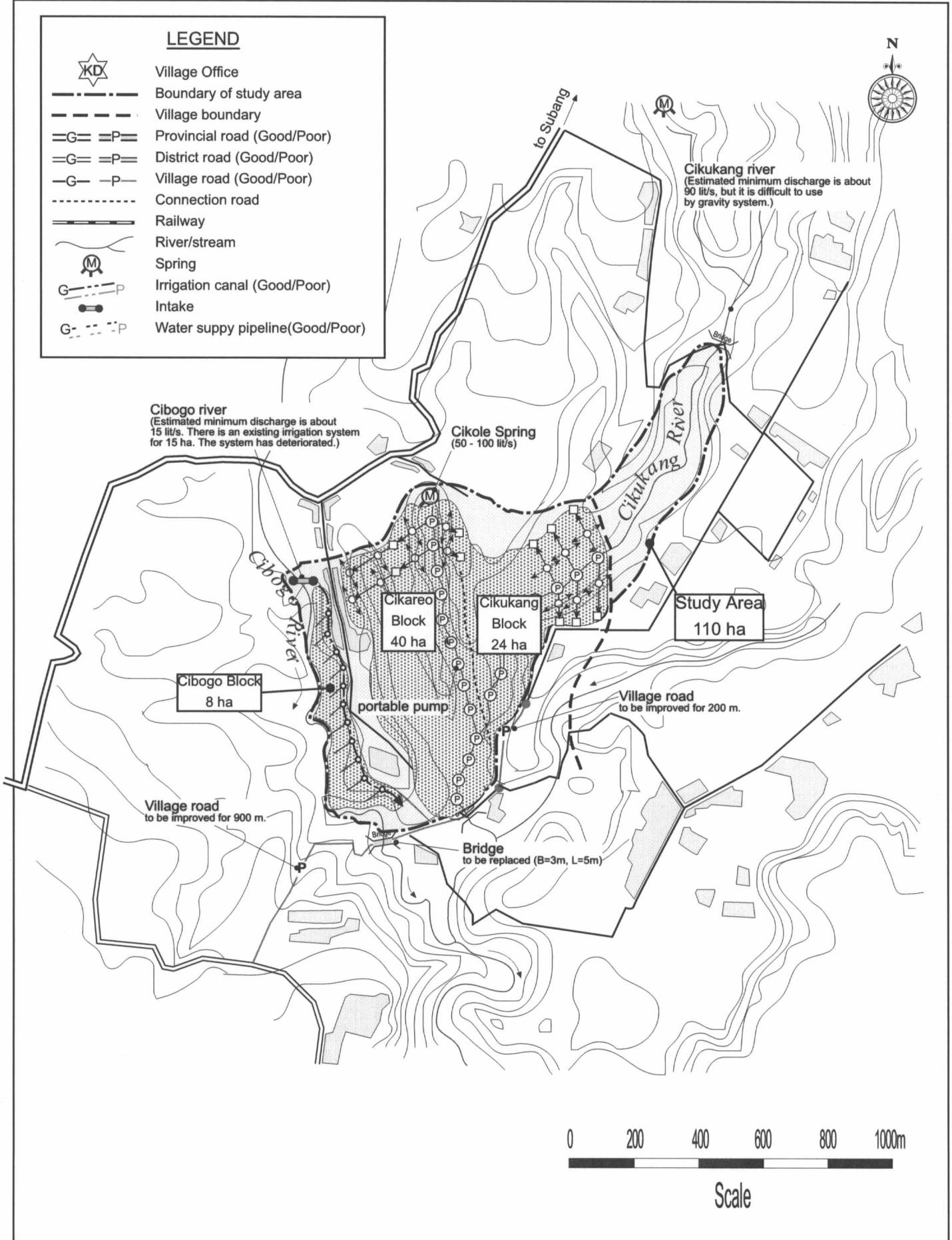
Target Group : Farmers in Langensari Model Area (including tenant farmers)

Project Term : 5 years

Project Summary	Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal Development model of the model area is expanded over highland area of West Java Province.	- Increased number of similar schemes	- District and Subdistrict Agricultural Service Offices	- Ministry of Agriculture continuously adopts the horticultural dev. policy.
Project Purpose Farmers' income is increased and living standard is improved through stabilization of vegetable production.	- Increase rate of farm income (to be adjusted using GDP deflator)	- Farm surveys to be made in project monitoring works	- Economic situations of Indonesia do not aggravate seriously.
Outputs 1. Vegetable production system is improved. 1-1 Irrigation water is supplied together with domestic water. 1-2 Research information on vegetable crop cultivation technology is available. 1-3 Farmers' vegetable production technology is improved. 2. Marketing system of vegetable products is improved. 2-1 Farmers' collection and delivery activities are improved. 2-2 Village transportation system is improved. 2-3 Crop planning is formulated by farmers based on market needs. 3. Farmers' organizations are activated in agricultural dev. 3-1 Farmers/farmer groups are reorganized. 3-2 Capacity of farmers' organizations is improved in O&M of rural facilities, marketing of vegetables, farm inputs & credit supply, and organizational management.	- Vegetable cropping intensity - Unit yields of vegetable crops - Amount of farm inputs - Amount and value of jointly delivered vegetables - Number of in-coming middlemen - Changes in cropping intensity - Date of registration and number of members - Planned and actual cropping patterns - Number of credit users and loan amount - Handling amount and value of farm inputs - Operation of Farmers' Cooperative - Operation of Farm Water Users Association - Operation of Rural Water Supply Users Association.	- Record of Farm Water Users Association - Farm surveys - Farm surveys - Record of Farmers' Cooperative - Information from Farmers' Cooperative - Record of WUA/Farm surveys - Registration records of Coop. and WUA - Record of WUA and farm surveys - Record of Farmers' Cooperative - Record of Farmers' Cooperative - Balance sheet of Farmers' Cooperative - Balance sheet of Farm Water Users Association - Balance sheet of Rural Water Supply Users Ass.	- Existing marketing and transportation system for vegetables do not aggravate seriously. - Relevant research institutes continue their research works.
Activities 1-1 To develop irrigation facility including rural water supply. 1-2 To establish linkage with relevant research institutes. 1-3 To operate farmers field school along with demo-plots. 2-1 To improve collection and delivery facilities for vegetable products. 2-2 To improve village marketing road. 2-3 To train farmers on crop planning based on market needs involving private sector. 3-1 To train farmers/farmer groups in forming Farmers' Cooperative, Farm Water Users Association, and Rural Water Supply Users Association. 3-2 To train farmers' organizations on: 3-2.1 operation and management of rural facility, 3-2.2 joint purchase of farm inputs and tools, 3-2.3 joint collection and delivery of vegetable products, 3-2.4 post-harvest handling and packaging, 3-2.5 credit handling and management, and 3-2.6 organization management.	Inputs for this Model Area 1. Manpower - Village Coordinators : 162M/M (Rp.324 mil.) 2. Facility - Irrigation facility: 72 ha (Rp.513 mil.) - Village marketing road: 1.2 km (Rp.211 mil.) - Collection/delivery facility: 7 units (Rp. 70 mil.) - Rural water supply system: 600 households (Rp.240 mil.) 3. Training of farmers/farmer groups/farmers' organizations: (Rp.169 mil.) 4. Training of Village Coordinators: (Rp. 12 mil.) 5. Administration cost: (Rp.154 mil.) Total Cost: Rp.1,693 million	(Inputs for All Model Areas) 1. Manpower - External experts: 540 M/M (Rp.25,290 mil.) 2. Facility - Adaptive Trial Farm Improvement: 2 ha (Rp.320 mil.) 3. Machine/Equipment - Car: 2 units - Computer: 5 units - Photo copy machine: 1 unit - Motorcycle for Village Coordinator: 25 units (Rp.425mil.) 4. Training of Task Team: (Rp.471 mil.) 5. Administration cost: (Rp.2,650 mil.) Total Cost: Rp.29,156 million	- Cooperation of relevant research institutes is provided. - Cooperation of relevant agencies at provincial, district and subdistrict levels is provided. - Cooperation of private sector is provided. Pre-conditions - Farmers in the model area participate in the Project. - Ministry of Agriculture and West Java Province Agricultural Service Office continue their support to the Project.

LEGEND

-  Village Office
-  Boundary of study area
-  Village boundary
-  Provincial road (Good/Poor)
-  District road (Good/Poor)
-  Village road (Good/Poor)
-  Connection road
-  Railway
-  River/stream
-  Spring
-  Irrigation canal (Good/Poor)
-  Intake
-  Water supply pipeline (Good/Poor)



Scale

THE FEASIBILITY STUDY ON THE INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT IN HIGHLAND AREA IN THE REPUBLIC OF INDONESIA

**Agricultural and Rural Infrastructure Improvement Plan
Langensari Model Area**

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