

3.3.3 Basic Development Plan of Tugumukti Model Area (PDM)

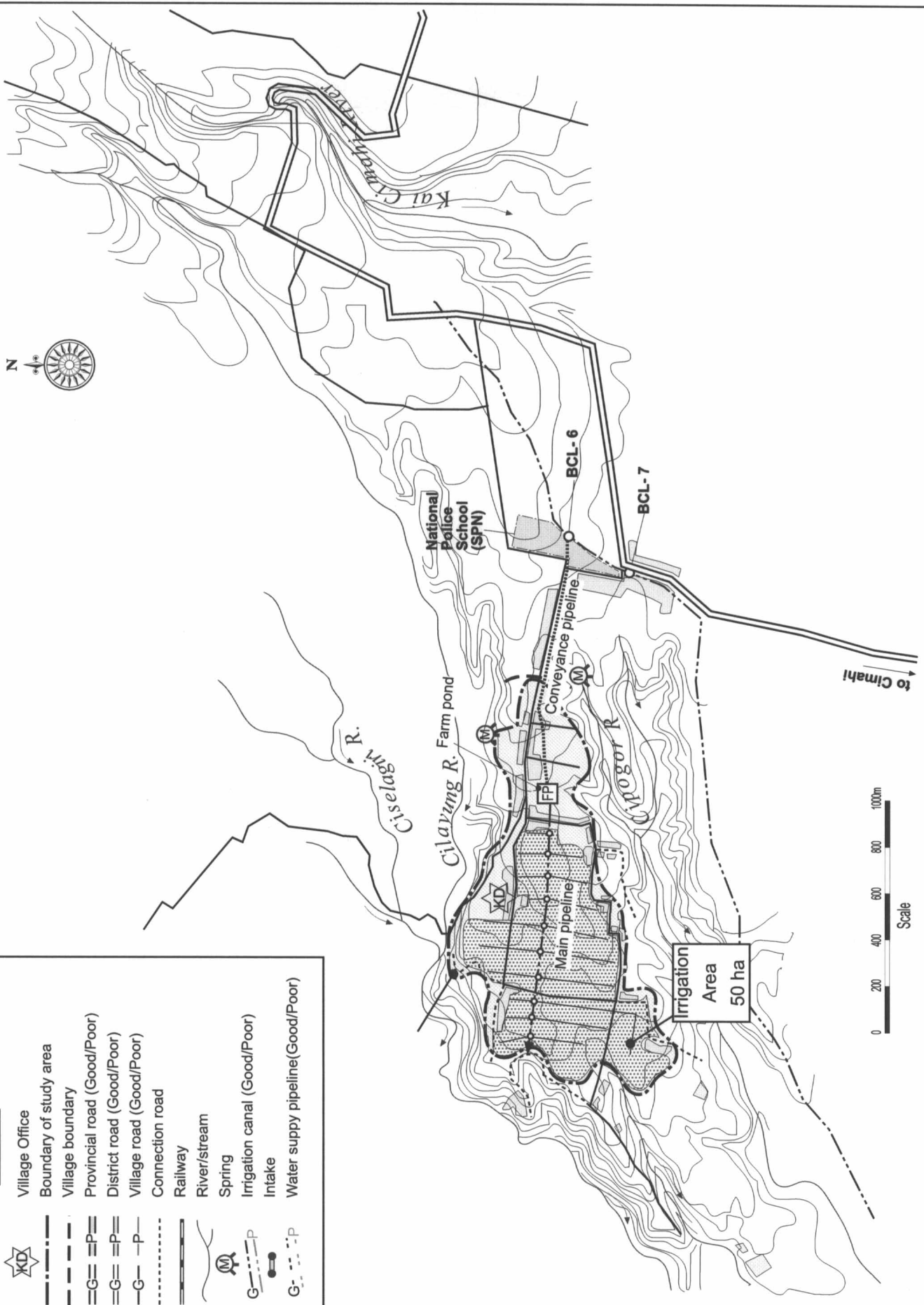
Target Group : Farmers in Tugumukti Model Area (including tenant farmers)

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 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 - 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 - 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 demo-plots. 2-1 To improve collection and delivery facilities for vegetable products. 2-2 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 : 108M/M (Rp.216 mil.) 2. Facility - Irrigation facility: 50 ha (Rp.362 mil.) - Collection/delivery facility: 5 units (Rp. 50 mil.) 3. Training of farmers/farmer groups/farmers' organizations: (Rp.116 mil.) 4. Training of Village Coordinators: (Rp. 11 mil.) 5. Administration cost: (Rp. 76 mil.) Total Cost: Rp.831 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)



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

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

Japan International Cooperation Agency

3.3.4 Basic Development Plan of Gekbrong Model Area (PDM)

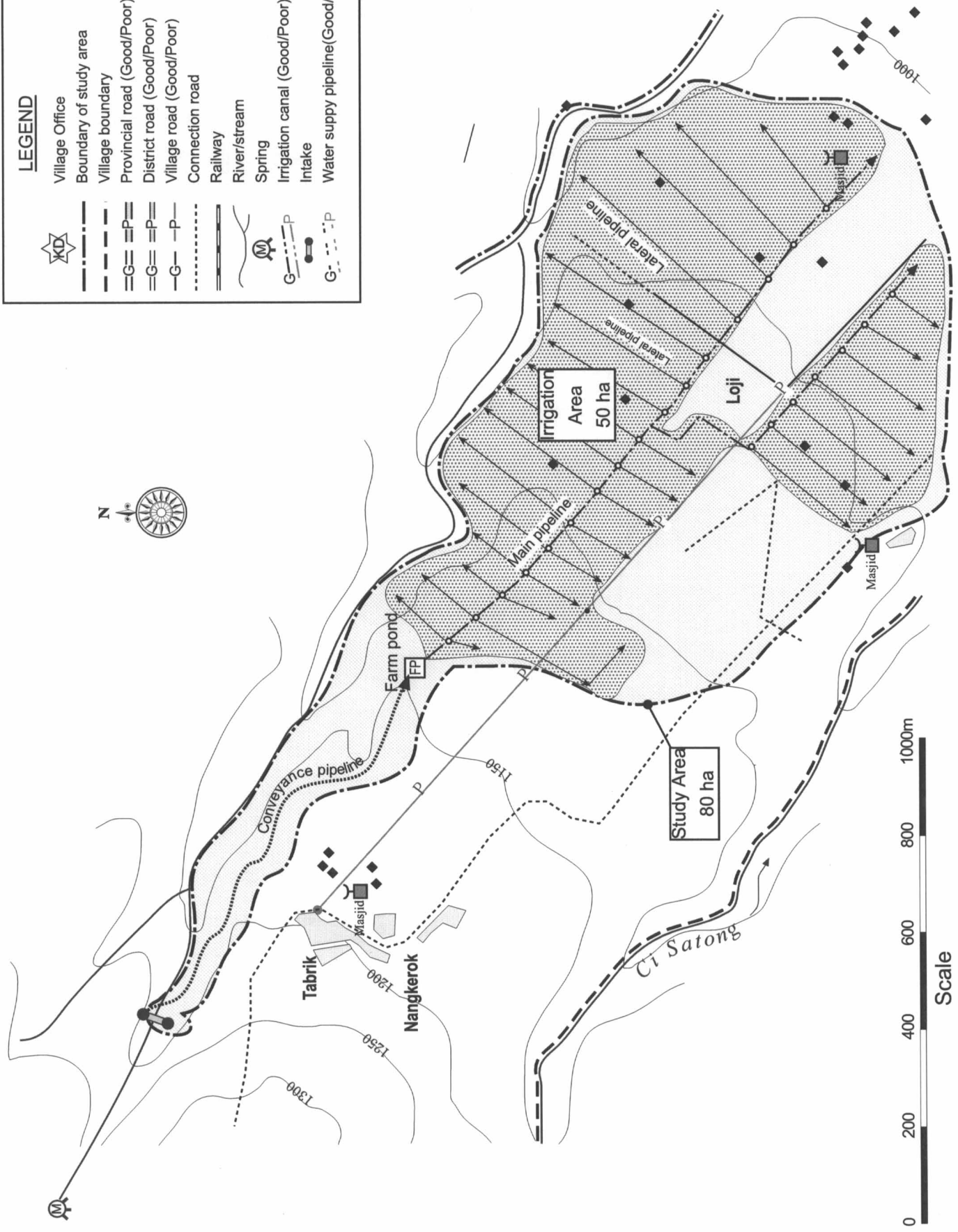
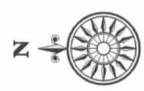
Target Group : Farmers in Gekbrong Model Area (including tenant farmers)

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 : 108M/M (Rp.216 mil.) 2. Facility - Irrigation facility: 50 ha (Rp.401 mil.) - Village marketing road: 1.75 km (Rp.271 mil.) - Collection/delivery facility: 5 units (Rp. 50 mil.) - Rural water supply system: 200 households (Rp.120 mil.) 3. Training of farmers/farmer groups/farmers' organizations: (Rp.117 mil.) 4. Training of Village Coordinators: (Rp. 11 mil.) 5. Administration cost: (Rp.119 mil.) Total Cost: Rp.1,305 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.

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	Railway
	River/stream
	Spring
	Irrigation canal (Good/Poor)
	Intake
	Water supply pipeline (Good/Poor)



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