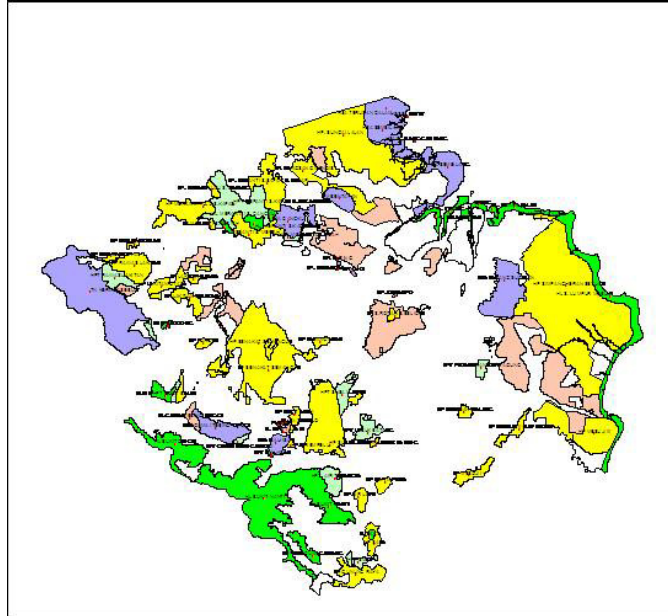


1. Program Title: Program 3-7

Rehabilitation of Existing Protected Forests

2. Location

Subject sites are the existing Conservation Forests (HSA), and Protection Forests (HL). Priority is given to the six forests that have resident staff: HSA. Padang Sugihan, HSA. Bentayan, HSA. Dangku, HSA. Gumai Pasemah, HSA. Isau-Isau Pasemah, PLG/TWA. Bukit Serelo. HSA. Sungai Sembilang is expected to be transferred to the National Park.



3. Objectives

- To cover the designated area with tree species native to the locations.
- To rehabilitate biodiversity within the designated protected areas.

4. Executing Agency

- Provincial Conservation Office (Balai KSDA) : Responsible for program development, budget, selecting priority area, calling for outside experts, forest border construction, evaluation of monitoring results.
- Extension offices at protected forests: Responsible for implementing programs, cooperation with local communities, monitoring the forest condition and the habitats, training of local residents as field workers.
- Provincial Forestry Office: Responsible for assisting preparation of nurseries, supplying seeds and saplings, policing against illegal logging.

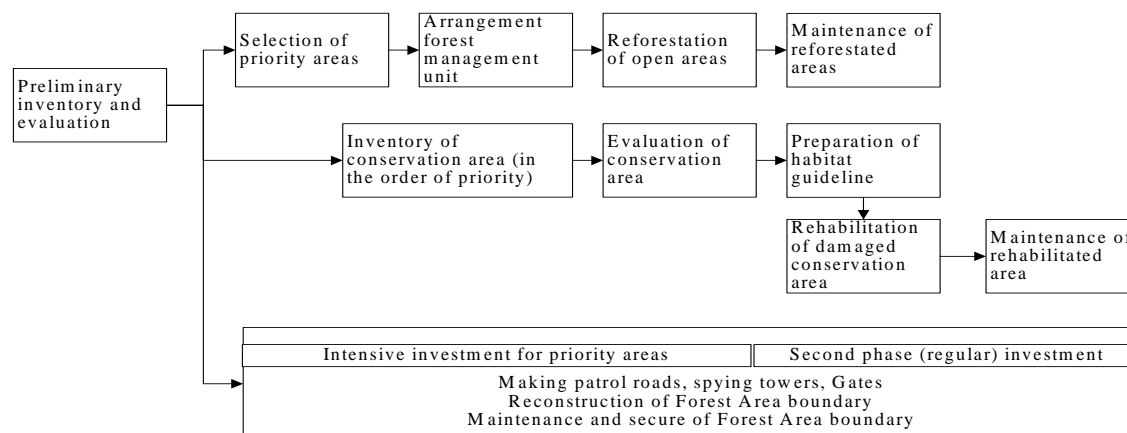
5. Program Description

The program is composed of the following six (6) activities:

- Forest border construction,
- Forest rehabilitation (priority on where currently not covered by tree vegetation),
- Habitat rehabilitation (priority on where tree vegetation remains),
- Law enforcement,
- Human resource development
- Monitoring and research

5. Program Description (continuous)

Steps for rehabilitation of new protected forest are as follows:



It is recommended that the Musi River Basin be included in "List of Priority River Basins for Reforestation (Ministry of Forest – Kimpraswil)" and "River Basins for Reforestation and Rehabilitation on SK21 (Ministry of Forest)".

6. Implementation Schedule

Implementation schedule is as follows:

Priority Program		1st Year				2nd Year				3rd Year				4th Year				5th Year				6th Year				7th Year			
No.	Title	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
3-7	Rehabilitation of existing protected forests																												
3-7-1	Forest border construction																												
	-Reconstruction of forest area boundary																												
	-Maintenance and secure of forest area boundary																												
3-7-2	Monitoring and research																												
	-Selection of priority areas																												
	-Inventory of preserved area																												
	-Evaluation of conservation area																												
	-Preparation of habitat guideline																												
3-7-3	Human resource development																												
	-Arrangement forest management unit																												
	-Reforestation of open areas																												
	-Maintenance of reforested areas																												
3-7-4	Reforestation																												
	-Making patrol roads, spying towers, gates																												
3-7-5	Law enforcement																												
	-Rehabilitation of damaged conservation area																												
	-Maintenance of rehabilitated area																												

7. Program Cost

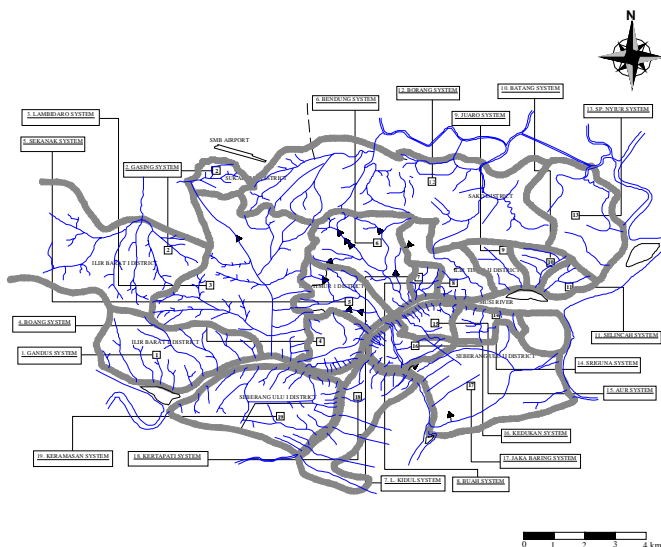
Forest border construction (42 x 30 km)	Rp. 2,232 million
Monitoring and research (6 sites)	Rp. 227 million
Human resource development (6 sites)	Rp. 150 million
Reforestation (6 sites, 1,200 ha)	Rp. 4,168 million
Law enforcement (6 sites)	Rp. 4,810 million
<u>Forest rehabilitation (200 ha)</u>	<u>Rp. 1,900 million</u>
Total	Rp. 13,487 million

8. Others

1. Program Title: Program 4-1
Community Drainage Management

2. Location

- Whole Palembang City (401 km²)
- Tertiary to household drainage channels
- The applied cases will be the model of all the other cities in the Musi River Basin.



3. Objectives

For the improvement of urban environment, involvement of the community is indispensable. Though improvement or new construction of infrastructure will be needed, improved environment can be achieved with the people's willingness. This program is proposed as the start of the urban environment improvement. The objectives of this program are:

- To improve urban water environment
- To empower communities to manage micro-drainage channels properly

4. Executing Agency

- Dinas Kimpraswil of Palembang Municipality with participation of NGOs

5. Program Description

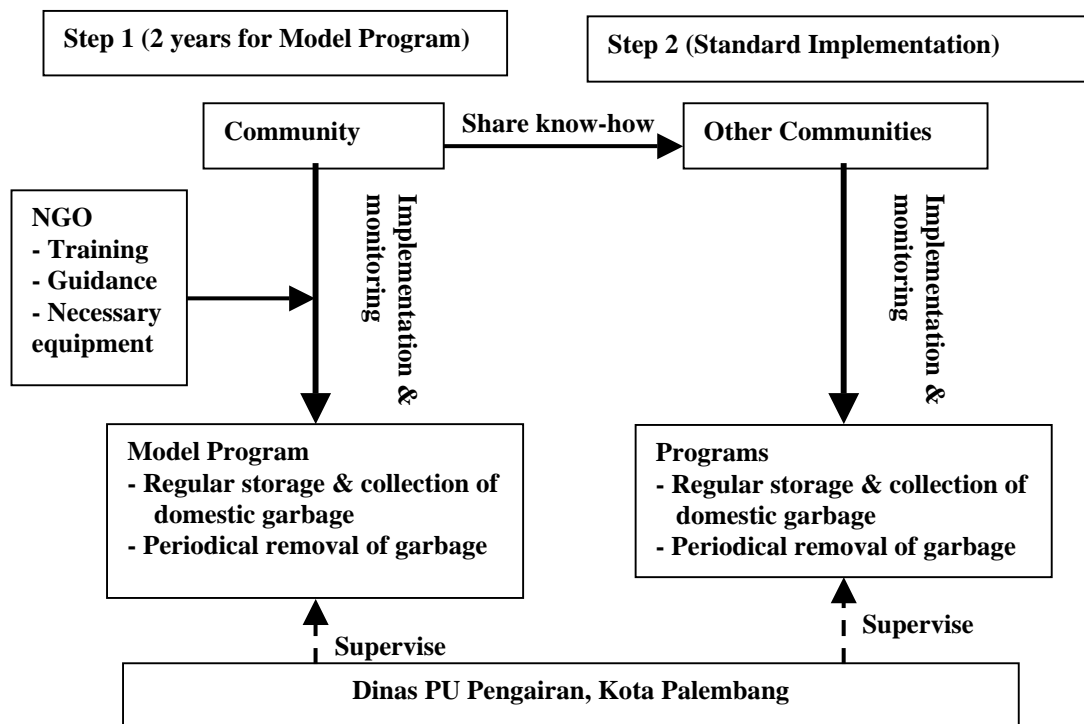
The Program aims to improve urban water environment by active participation of community members with assistance of NGOs. The Program consists of the following major activities:

- To select one drainage area as a model project area,
- To hold public consultation meetings to discuss current issues, measures to be taken, implementation method, etc.,
- To establish a system to store and collect domestic garbage regularly,
- Periodical removal of domestic garbage, wild plants, and mud sediment from drainage channels by community participation,

5. Program Description (continuous)

- Public information for prevention of garbage dump,
- To hold meetings to evaluate the activities,
- To spread the activities to other drainage areas by transferring know-how obtained through the model project

Steps for community drainage program are as follows:



6. Implementation Schedule

Implementation schedule is as follows:

Priority Program		1st Year				2nd Year				3rd Year				4th Year				5th Year				6th Year				7th Year			
No.	Title	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
4-1	Community drainage management																												
4-1-1	Model project																												
4-1-2	Monitoring of past project																												
4-1-3	Standard implementation																												

7. Program Cost

1. Direct Cost
 - Model project Rp.400,000,000
2. Indirect Cost
 - Physical Contingency Rp. 40,000,000
3. Total Rp.440,000,000

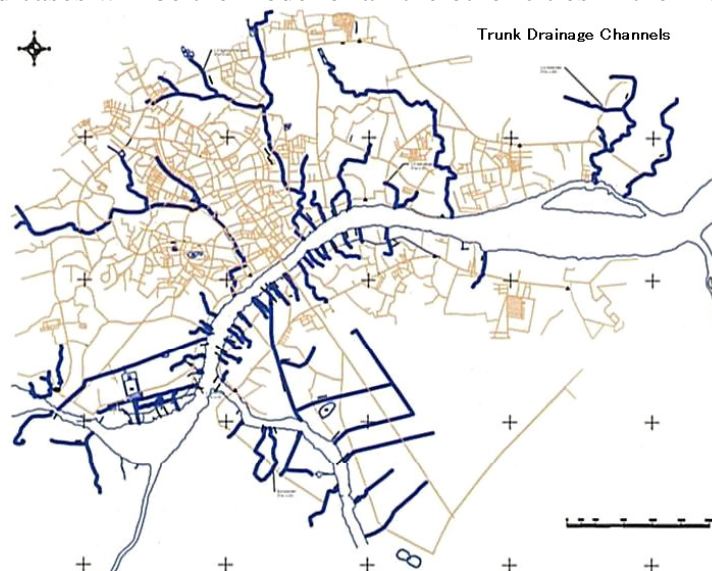
8. Others

1. Program Title: Program 4-3

Trunk Drainage Channels Rehabilitation

2. Location

- Whole Palembang City (401 km²)
- Primary to secondary drainage channels
- The applied cases will be the model of all the other cities in the Musi River Basin.



3. Objectives

There are total of 19 drainage system in Palembang Municipality. Though the trunk channels have been improved in major drainage basins in the City center, deterioration of the facilities and deposition of mud are identified in almost all channels. Strengthening of the capability of the regular maintenance of the structures shall be a prerequisite to the new construction of the facilities. The objectives of this program are:

- To improve urban water environment by drainage system rehabilitation
- To establish a system for drainage system rehabilitation
- To strengthen regular maintenance capacity of the drainage facilities
- To improve capacity of drainage channels and sanitary condition, and scenery in the city

4. Executing Agency

- Dinas Kimpraswil, Palembang Municipality

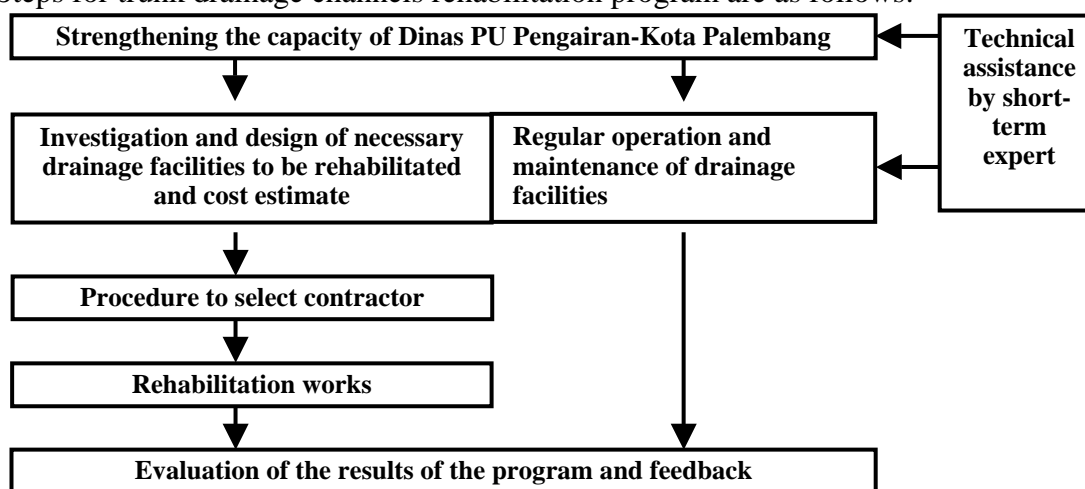
5. Program Description

The Program is intended to strengthen the capacity of Dinas PU Pengairan-Kota Palembang to rehabilitate and maintain the drainage facilities and to improve urban water environment by proper rehabilitation and maintenance of the trunk drainage channels in Palembang Municipality. The Program consists of the following major activities:

5. Program Description (continuous)

- To strengthen the capacity of personnel and organization of Dinas PU Pengairan-Kota Palembang to rehabilitate and maintain the drainage facilities with a technical assistance of a short-term expert, To investigate and design necessary drainage facilities to be rehabilitated and to estimate project cost,
- To select contractor to undertake the rehabilitation works,
- To conduct rehabilitation works including rehabilitation of existing drainage facilities, excavation of garbage and sediment,
- To conduct regular maintenance of the drainage channels,
- To evaluate the results of the program periodically and improve the program continuously.

Steps for trunk drainage channels rehabilitation program are as follows:



6. Implementation Schedule

Implementation schedule is as follows:

Priority Program		1st Year				2nd Year				3rd Year				4th Year				5th Year				6th Year				7th Year			
No.	Title	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
4-3	Trunk drainage channels rehabilitation																												
4-3-1	Establishment of rehabilitation system	█	█	█	█																								
4-3-2	Trunk channels rehabilitation					█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

7. Program Cost

1. Direct Cost

Excavation of Garbage and Mud	Rp. 7,875,000,000
Rehabilitation of Trunk Drainage Channels	Rp. 20,000,000,000

3. Indirect Cost

Administration Cost	Rp. 1,394,000,000
Engineering Service Cost	Rp. 1,181,000,000
Physical Contingency	Rp. 3,045,000,000

4. Total

Rp. 33,495,000,000

8. Others