

1. Project Title : COMPLETION OF THE EASTERN SUMATRA HIGHWAY
2. Location : Lampung, South Sumatra, Jambi
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - Creation of a higher capacity transportation artery, designed for heavy multi-axle freight vehicles meeting Heavily Loaded Roads standards, 890 km in length in Southern Sumatra (1,914 km including Riau & North Sumatra).
 - Creation of an artery of a standard adequate for safe high speed travel (ie 60 - 80 kph).
 - Creation of an environmentally stable route with minimal risk of flooding, landslides or collapse from erosion.
5. Project Description :
 - Heavily Loaded Road standards regarding width, strength and geometry are to be introduced in stages on strategic road links and applied in maintenance and upgrade programs. Severely deficient segments will be replaced through reconstruction or relocation to a new alignment.
 - Segments jeopardized by erosion, flooding or landslides are to be reworked or replaced with new links.
 - Bypasses around heavily populated areas are to be constructed where resettlement of population would be too troublesome.
 - Coordination of these programs with the Interurban Road Management System of the Dep of Highways is essential.
6. Project Duration :
 - Study : 2 year
 - Implementation : 5-7 years
7. Project Cost : US\$ 230,000,000
8. Related to Project Aid :
 - Intercity road betterment programs of AECF, ADB
 - Eastern Highway Feasibility Study, JICA funding (scheduled for completion end 1992)
 - Heavily Loaded Road JICA study (in progress)
9. Stage of Project Preparation :
 - In preparation pending completion of Eastern Highway Feasibility Study by JICA

1. Project Title : BANGKO - SUNGAI PENUH - TAPAN THROUGH KERINCI NATIONAL PARK
2. Location : Jambi Province, West Sumatra Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To provide a cross mountain link for heavy vehicles between the Trans-Sumatra Highway and the West Coast Road.
 - To improve truck access for west Jambi province and Rejang Lebong (Bengkulu) to seaports and markets at Padang and Bengkulu, in support of highland agriculture and tourism industries.
5. Project Description :
 - Reclassification of route to national status; 170 km long.
 - Preparation of environmental impact analysis in consideration of specific conditions of the Kerinci Seblat National Park
 - Upgrading to 6 m width, 10 ton ESA (strength).
 - Embankment stabilization and bridge reinforcement as necessary.
 - Implementation during Repelita VII.
6. Project Duration :
 - Study : 1 year
 - Implementation : 24 months
7. Project Cost :
 - Study : includable in normal planning budget
 - Implementation : US\$21,000,000
8. Related to Project Aid : OECF First Nine Provinces Road Improvement Programs in progress for portions of this road
9. Stage of Project Preparation : Feasibility study required

1. Project Title : KOTABARU (WEST SUMATRA) - MUARATEBO PROVINCIAL ROAD
2. Location : West Sumatra, Jambi provinces
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives : - To improve access for trucks to this agricultural area of the upper Batang Hari river valley.
5. Project Description : - Bridge improvement/replacement.
- Improvement of pavement to 5 meter width, 8 ton ESA strength. 92 km length of road.
- Roadway stabilization against landslides, collapse from erosion.
- Execution in Repelita VI or VII.
6. Project Duration : - Study : 1 year
- Implementation : 18 months
7. Project Cost : - Study : includable in Dept of Highways normal planning budget
- Implementation : US\$6,000,000
8. Related to Project Aid : None
9. Stage of Project Preparation : Feasibility study required

1. Project Title : MUARABUNGO - JAMBI CITY ROAD
2. Location : Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To improve the road to function as an east-west link between the Trans-Sumatra Highway and the Eastern Sumatra Highway suitable for heavy vehicles.
 - To improve access to the agricultural and forest areas of central Jambi province.
5. Project Description :
 - Upgrading of the road and bridges to Heavily Loaded Road standard. 248km length of road
 - Road stabilization against collapse from erosion
 - Execution in Repelita VII
 - Coordination with Heavily Loaded Road program
6. Project Duration :
 - Study : 1 year
 - Implementation : 2-4 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$20,000,000
8. Related to Project Aid : Ex-OECF, First Nine Provinces road rehabilitation ongoing programs
9. Stage of Project Preparation : JICA Heavily Loaded Road study in progress

1. Project Title : LOWER BATANGHARI KECAMATAN LOCAL ROADS
2. Location : Lower Batanghari kecamatan, Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To improve access to an interior agricultural and forestry area.
 - To improve access to Transmigration settlements in the vicinity.
5. Project Description :
 - 100 km of paved local roads in the Tembesi River valley and to the east.
 - Links to the Eastern Sumatra Highway and to the Muarabungo-Jambi national road.
 - Possible use of existing transmigration and non-status roads to expand the local road system.
6. Project Duration :
 - Study : 1 year
 - Implementation : 2 - 3 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$5,000,000
8. Related to Project Aid : IBRD Local Roads sector loan
9. Stage of Project Preparation : Feasibility study required

1. Project Title : SUNGAI BENGKAL-MERLUNG-PEMATANG LUMUT ROAD
2. Location : Tanjung Jabung kecamatan, Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To improve access from central and western Jambi to the Eastern Sumatra Highway and ports of Kuala Tungkal and Muara Sabak.
5. Project Description :
 - Reclassification to provincial road.
 - Improvement of pavement to 5 meter width, 8 ton ESA strength. 115 km length of road.
 - Roadway stabilization against landslides, collapse from erosion.
 - Execution in late Repelita VI or VII; contingent upon port upgrades in Jambi Province and completion of Eastern Sumatra Highway to Riau.
6. Project Duration :
 - Study : 1 year
 - Implementation : 2 - 3 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$12,000,000
8. Related to Project Aid : None
9. Stage of Project Preparation : Feasibility study required

1. Project Title : TANJUNG JABUNG KABUPATEN LOCAL ROADS
2. Location : Tanjung Jabung Kabupaten, Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To improve road access to Kuala Tungkal for heavy vehicles using the port.
 - To improve year round road access to coastal villages for general purposes, and to Berbak National Park for management purposes and tourism.
 - To improve access to and within the Tungkal River basin for agriculture and fishery industries.
5. Project Description :
 - Upgrading of road of 50 km to Kuala Tungkal to Heavily Loaded Road standards.
 - Improvement of 40 km shoreline earth/gravel road in Berbak Nat'l Park for all year use.
 - Improvement and construction of 100 km of local roads to S Rambai, Tebing Tinggi, and Pelabuhan Dagang in the west part of the kabupaten, linking them to the Eastern Sumatra Highway.
6. Project Duration :
 - Study : 18 months
 - Implementation : 3 years
7. Project Cost :
 - Study : includable in Highways Dept normal planning budget
 - Implementation : US\$14,000,000
8. Related to Project Aid :
 - Ongoing IBRD Local Roads Project
 - JICA Eastern Highway Study
9. Stage of Project Preparation : Feasibility study needed

1. Project Title : SWAMPLAND ROAD TO MUARA SABAK PORT TOWN
2. Location : Tanjung Jabung Kabupaten, Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives : - To provide an access road for Muara Sabak to serve during construction of the proposed port expansion program and afterwards.
5. Project Description : - Design & construction of a provincial road 35 km long from Simpang Tuan to the planned port opposite Muara Sabak on the Batang Hari River, incorporating existing roads where feasible.
- Implementation prior to or during construction of port improvements at Muara Sabak.
6. Project Duration : - Study : 6 months
- Implementation : 2 years
7. Project Cost : - Study : includable in Highways Dept planning system
- Implementation : US\$5,000,000
8. Related to Project Aid : Ongoing IBRD Local Roads Project
9. Stage of Project Preparation : Feasibility study needed, contingent on port expansion at Muara Sabak

1. Project Title : DIRECT ROAD JAMBI CITY TO MUARA SABAK PORT TOWN
2. Location : Tanjung Jabung Kabupaten, Jambi Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To provide direct road access for heavy vehicles from Jambi City to the planned expanded port at Muara Sabak on the left bank of the Batang Hari River.
 - To improve road access to central Tanjung Jabung kabupaten.
5. Project Description :
 - Construction of a national road 75 km in length meeting Heavily Loaded Road standards.
 - Implementation during or after completion of the port improvement program at Muara Sabak left bank site.
6. Project Duration :
 - Study : 18 months
 - Implementation : 2 - 3 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$18,500,000
8. Related to Project Aid : None
9. Stage of Project Preparation : Feasibility study required

1. Project Title : SAFETY IMPROVEMENT PROGRAM FOR MOUNTAIN AND RIVERSIDE ROUTES, RAILROAD CROSSINGS
2. Location : South Sumatra Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To rebuild problem sections of national and provincial mountain roads severely jeopardizing traffic safety because of landslides or collapse.
 - To build a traffic flyover over the railroad line in Baturaja.
 - To stabilize and reroute problem sections of national and provincial roads along rivers subject to weakening and collapse severely jeopardizing traffic safety.
5. Project Description :
 - Reconstruction of approximately 5 km of road in the Bukit Barisan range at various locations.
 - Construction of a flyover over the rail line in Baturaja pending pending realignment/ doubling of that line per the KP3BAKA project.
 - Reconstruction of approximately 5 km of riverside roads along the Trans-Sumatra Highway and other national and provincial roads subject to collapse from erosion.
 - Implementation during Repelita VI and VII.
6. Project Duration :
 - Study : 2 - 3 years
 - Implementation : 3 - 4 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$ 8,000,000 - 12,000,000
8. Related to Project Aid : Prior OECF Disaster Prevention Programs
9. Stage of Project Preparation : Feasibility studies required

1. Project Title : SAROLANGUN-SEKAYU-BETUNG EAST-WEST TRUNK ROAD
2. Location : South Sumatra Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To provide an east-west link between the Eastern Sumatra Highway and the Trans-Sumatra Highway for heavy vehicles.
 - To improve access to areas with large estate and wetland agricultural development.
5. Project Description :
 - Reclassification of provincial portion to national status road.
 - Upgrading of the entire length of road (224 km) and bridges to Heavily Loaded Road standard (6 meter width, 10 ton ESA strength).
 - Implementation pending upgrades of the two highways to comparable standards.
6. Project Duration :
 - Study : 1 year
 - Implementation : 2 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$30,000,000
8. Related to Project Aid : OECF First & Second 9 Provinces road improvement programs
9. Stage of Project Preparation : Feasibility study required

1. Project Title : OUTER RING ROAD FOR PALEMBANG
2. Location : Northern edge of Palembang, South Sumatra
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To provide an east-west arterial road on the northern edge of the city facilitating eastward expansion.
 - To link the northern sections of the city to the West Ring Road and the Musi II Bridge.
5. Project Description :
 - Construction of a 13 km avenue from Jl H Burlian to Jl Mayor Zen.
 - Implementation during late Repelita VI or in Repelita VII.
6. Project Duration :
 - Study : 1 year
 - Implementation : 12-18 months
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$ 4,000,000 - 5,000,000
8. Related to Project Aid : OECF, ADB road and bridge projects in Palembang, IUIDP Feasibility Report on Urban Roads, 1990.
9. Stage of Project Preparation : Feasibility study required

1. Project Title : TANJUNG PANDAN-KP BARU-SIMPANG EMPAT ROAD
2. Location : Belitung Island, South Sumatra
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives : - To provide a road suitable for full size coaches between the north coast resort areas and the island's main town and airport.
5. Project Description : - Upgrading of the 35 km road to 5 meter width, 8 ton ESA strength standard or better, and reclassification as a provincial road.
- Implementation during Repelita VI, depending upon the pace of resort development in the vicinity.
6. Project Duration : Study : 1 year
- Implementation : 1 year
7. Project Cost : Study : includable in Dept of Highways normal planning budget
- Implementation : US\$ 4,000,000
8. Related to Project Aid : IBRD Highway Sector Loan for road improvement on Belitung Island
9. Stage of Project Preparation : Feasibility study required

1. Project Title : WEST COAST ROAD IMPROVEMENT PROGRAM
2. Location : Bengkulu Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives : - To create a stabilized route over the entire 400 km length free from disasters caused by natural forces (heavy rainfall, river or ocean erosion, etc).
5. Project Description : - Reconstruction of road sections threatened by repeated embankment collapse or ocean erosion or replacement by safer alignments.
- Bridge strengthening and replacement as necessary.
- Installation of safety signs and markings along the entire route.
- Implementation during Repelita VI.
6. Project Duration : Study : 1 year
- Implementation : 3 years
7. Project Cost : - Study : includable in Dept of Highways normal planning budget
- Implementation : US\$10,000,000
8. Related to Project Aid : OECF funded disaster prevention road programs in other areas
9. Stage of Project Preparation : Feasibility study needed

1. Project Title : GATEWAY HIGHWAY SOUTH SUMATRA-BENGKULU CITY
2. Location : Bengkulu Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To provide a safe road entrance for vehicles of any size into the coastal lowland of the province by means of replacement of the 15 km steep section of the existing road.
 - To provide access for heavily vehicles (trucks and buses) to Bengkulu City and to its seaport at Pulau Baai which currently has no truck access from South Sumatra.
5. Project Description :
 - Construction of a new road below Kepahiyang to replace part or all of the substandard stretch of the existing road which is currently subject to occasional closing.
 - Adoption of Heavily Loaded Road standard for the redesign if feasible.
 - Implementation as soon as possible, no later than Repelita VI.
6. Project Duration :
 - Study : 1 year
 - Implementation : 1 - 2 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$ 11,000,000
8. Related to Project Aid : JICA Heavily Loaded Road Study, OECF First Nine Provinces Road Improvement Program
9. Stage of Project Preparation : Feasibility study required

1. Project Title : KRUI-BIHA-BENGGUNAT-SANGGI ROAD
2. Location : West Lampung Kabupaten, Lampung Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To create access to the pioneer coastal area of West Lampung kabupaten from Bandar Lampung and from points north, to stimulate development in this area.
 - To complete the West Coast Road extending from Padang (West Sumatra) via Bengkuntat to Bandar Lampung and the Java crossings.
5. Project Description :
 - Reclassification of all sections to national status. Approximately 80 km total length.
 - Upgrading of existing sections and bridges to 5 meter width, 8 ton ESA strength, and installation of safety signs and markings.
 - Implementation during Repelita VI.
6. Project Duration :
 - Study : 12 to 18 months
 - Implementation : 2 - 3 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$ 15,000,000
8. Related to Project Aid : OECF First Nine Provinces Road Improvement Program including the West Coast Road in Bengkulu Province
9. Stage of Project Preparation : Feasibility study required

1. Project Title : OUTER BYPASS AROUND BANDAR LAMPUNG
2. Location : South Lampung Kabupaten, Lampung Province
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To create a bypass for interurban traffic, particularly for heavy vehicles and traffic bound for Panjang port and Bakauheni, around the urban area of Bandar Lampung.
 - To prolong the functional life of the stretches of the Trans-Sumatra Highway currently handling high traffic volumes, specifically the Tegineneng-Tanjung Karang and Teluk Betung-Tarahan sections.
 - To create an area for additional long term urban expansion to the north and east of the present city center.
5. Project Description :
 - Construction of a road roughly parallel to the Trans-Sumatra Highway, of approximately 45 km in length from the Tegineneng/Branti vicinity on the north to the Babatan area east of Tarahan in one, two or possibly three sections, to Heavily Loaded Road standard (6 m width/10 ton ESA strength).
 - Coordination of this project with a separate one of capacity expansion of the Trans-Sumatra Highway in Bandar Lampung.
 - Implementation during Repelita VI for completion prior to the year 2000.
6. Project Duration :
 - Study : 1-2 years
 - Implementation : 2-3 years
7. Project Cost :
 - Study : includable in Dept of Highways normal planning budget
 - Implementation : US\$ 7,000,000
8. Related to Project Aid : OECF First Nine Provinces Road Betterment, IBRD Highways Sector Loan for Capacity Expansion 1992
9. Stage of Project Preparation : Feasibility study is required

1. Project Title : RURAL ROADS DEVELOPMENT PROJECT
2. Location : Jakarta, provincial and kabupaten capitals
3. Executing Agency : Dept of Highways, Ministry of Public Works
4. Objectives :
 - To extend road management capabilities already developed at national and provincial levels into the local level and to promote institutional strengthening of local government road agencies.
 - To complement existing training efforts within Bina Marga and IBRD Rural Roads Development programs which to date have covered few kabupaten in Southern Sumatra.
 - To reinforce local government capabilities in line with the general objective of gradual decentralization of government functions.
5. Project Description :
 - Continuation of the IBRD Rural Roads Development program training process through introduction of the training program into additional kabupaten in Southern Sumatra.
 - Training in the creation and use of road and bridge databases for management purposes, both in central office (Jakarta) and in provincial offices of the Dept of Highways.
 - Training in management of routine and emergency maintenance programs.
 - Training in financial and economic analysis of new road and bridge construction projects.
6. Project Duration : 12 months
7. Project Cost : US\$500,000
8. Related to Project Aid : Proyek Bantuan Penanganan Jalan Kab/Kodya (IBRD)
9. Stage of Project Preparation : Assessment of need required

1. Project Title : STUDY OF APPROPRIATE MARINE TECHNOLOGY
2. Location : Jakarta
3. Executing Agency : Directorate General of Sea Communication, Min of Transportation with ADB (or IBRD)
4. Objectives :
 - To identify any new types of vessels for passenger or freight traffic that would be suited to shallow draft conditions of Indonesia's swamplands and rivers.
 - To propose any necessary changes to government regulation and policies to promote the use of such vessels on either an experimental or commercial basis.
5. Project Description :
 - A survey of vessels in wide commercial use in other countries having extensive swampland or river shipping activity for passenger or freight transportation (LASH, LCDs, barges, hydrofoils, hovercrafts, etc) is required. Identification of any vessels well suited to conditions in Indonesia (Sumatra, Kalimantan or Irian Jaya, for example) will be made.
 - An assessment of the technical performance and operating economics of selected vessels is needed to evaluate preliminary feasibility of operation in Indonesia. The function of such vessels as feeder vessels linking inland areas and regional seaports (Jakarta, Singapore, Dumai, etc) will also be assessed.
 - Recommendation of any improvements in existing government regulation of shipping will be made. The need for any new incentives for operators or subsidization measures to promote use of new vessels on an experimental basis will also be evaluated.
 - Possible coordination with: Institut Teknologi Surabaya or Universitas Hassanudin (Ujung Pandan) in Indonesia, the Overseas Coastal Development Institute of Japan.
6. Project Duration : 6-9 months
7. Project Cost : US\$500,000
8. Related to Project Aid : Upcoming ADB study on selected river basins in Indonesia
9. Stage of Project Preparation : Assessment of need required

1. Project Title : PROGRAM FOR THE STRENGTHENING OF LOCAL GOVERNMENT CAPACITY FOR TRANSPORTATION MANAGEMENT AND PLANNING
2. Location : All provinces
3. Executing Agency : Department of Transportation, BAPPENAS, with World Bank and/or ADB assistance
4. Objectives :
 - To prepare transportation officials at national, provincial and local levels for decentralization of ownership in the nation's air and sea port infrastructure
 - To prepare them for a new regulatory environment requiring supervision of autonomous and local state enterprises
5. Project Description :
 - A training program will familiarize officials at all levels of different types of ownership arrangements (public enterprises, semipublic companies, autonomous authorities, regulated monopolies) and their economic and regulatory implications.
 - Training will also cover methods of transfer of assets from central control, and methods to protect the public interest in this process. Consideration of advantages and disadvantages to decentralization will be made.
 - The new regulatory environment will be explained and responsibilities at the national and local levels will be discussed and clarified. Consideration will be given to the experiences of other Asian countries.
6. Project Duration : 1 year
7. Project Cost : US\$500,000
8. Related to Project Aid : Land Transport Development Program-Phase II
9. Stage of Project Preparation : Not in preparation - pending decentralization measures of the government

1. **Project Title** : EXPANSION OF EXCHANGE SYSTEM
2. **Location** : Major cities (Jambi, Palembang, Bandar Lampung, Bengkulu and other kota kabupaten and kotamadya)
3. **Excuting Agency** : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. **Objectives** : To fulfill and support the following requirements for the telephone and non telephone services:
 - To accomodate the existing waiting applicants
 - To reduce waiting period for new subscription
 - To improve service grade
 - To promote regional economic activities
5. **Project Description** : Provision of telephone service facilities in accordance with demand
 - Digital switching system (local and trunk switching systems)
 - Power plant
 - Building and land
6. **Project Duration** : 240 months
7. **Project Cost** : US\$213,000,000 for upper class of cities than ikukota kabupaten (cost tentative)
8. **Related to Project Aid** : D-VA 2.2 /VI, D-VII A, etc.
9. **Stage of Project Preparation** : Under promotion

1. Project Title : EXPANSION OF OUTSIDE PLANT
2. Location : Major cities (Jambi, Palembang, Bandar Lampung, Bengkulu and other kota kabupaten and kotamadya)
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives : To fulfill and support the following requirements for the telephone and non telephone services:
 - To accomodate the existing waiting applicants
 - To reduce waiting period for new subscription
 - To improve service grade
 - To promote regional economic activities
5. Project Description : Provision of telephone service facilities in accordance with demand and together with expansion of exchange system
 - Local cable network system
 - Selection of cable systems including optical fiber cable for local cable network
 - Cable installation
6. Project Duration : 240 months
7. Project Cost : US\$450,000,000 for upper class of cities than ikukota kabupaten (cost tentative)
8. Related to Project Aid : TELKOM-III and IV Project
9. Stage of Project Preparation : Under promotion

1. Project Title : EXPANSION OF JUNCTION CIRCUITS
2. Location : Cities of multiple exchange centers
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives : - To improve SCR
- To improve speech quality
5. Project Description : - Analysis of present situation of traffic flow
- Planning of local cable network for a long period
- Selection of transmission systems
(in future, fiber optic system)
6. Project Duration : - Feasibility Study : 12 months
- Implementation : 36 months
7. Project Cost : - Feasibility study : US\$ 250,000
- Implementation : US\$20,000,000
(cost tentative)
8. Related to Project Aid : Remote area phase 3
TELKOM-III
9. Stage of Project Preparation : Feasibility study is needed

1. Project Title : EXTENSION OF CROSS-SUMATRA MICROWAVE SYSTEM
2. Location : Palembang-Mentok-Pangkal Pinang-Koba-Tanjung Panda Manager
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives :
 - To increase transmission capacity
 - Improving speech quality
5. Project Description :
 - System Design
 - Implementation
6. Project Duration :
 - Feasibility Study : 12 months
 - Implementation : 36 months
7. Project Cost :
 - Feasibility study : US\$ 500,000
 - Implementation : US\$5,000,000 (cost tentative)
8. Related to Project Aid : Remote area phase 3
9. Stage of Project Preparation : Planned already (on going)

1. Project Title : TERRESTRIAL TRANSMISSION SYSTEM EXTENDING FROM TRANS SUMATRA AND CROSS SUMATRA TRANSMISSION SYSTEM
2. Location : Locations which are currently accessible only via satellite transmission
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives :
 - To increase transmission capacity
 - To make high reliable network
 - To Improve speech quality
5. Project Description :
 - Designing the network
 - Selection of systems
 - Setting systems
6. Project Duration :
 - Feasibility Study : 12 months
 - Implementation : 36 months
7. Project Cost :
 - Feasibility study : US\$ 500,000
 - Implementation : US\$10,000,000 (cost tentative)
8. Related to Project Aid : Remote area phase 3
9. Stage of Project Preparation : On going

1. Project Title : NEW BACKBONE TRANSMISSION FIBER OPTIC SYSTEM
2. Location : (From Medan) Jambi-Palembang-Bandar Lampung (to Jakarta)
 - From Palembang, it can connect to Pangkalpinang
 - From Pangkalpinang it can connect to Pontianak, Batam and Jakarta
 - This becomes a big project of Optical Fiber cable backbone transmission system in Sumatra area
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives :
 - To meet increasing traffic
 - To make high reliable network against disaster and trouble, together with existing Trans Sumatra route
 - Arranging introduction of ISDN
5. Project Description :
 - Optical fiber cable
 - Designing implementation
 - Civil work
 - Setting cables
6. Project Duration :
 - Feasibility Study : 12 months
 - Implementation : 36 months
7. Project Cost :
 - Feasibility study : US\$ 500,000
 - Implementation
 - Phase 1. East Sumatra Ground route in Repelita VI:
From Medan to Jakarta through Pekanbaru, Jambi, Palembang, Tanjung Karang
: US\$88,944,000 (cost tentative)
 - Phase 2. Submarine route to Pontianak in Repelita VII:
From Palembang to Pontianak (in Kalimantan) through Pangkalpinang (in Bangka Island)
: US\$57,250,000 (cost tentative)
 - Phase 3. Submarine route to Batam and Jakarta in Repelita VII:
From Pangkalpinang to Jakarta and Batam-Pekanbaru
: US\$135,580,000 (cost tentative)
8. Related to Project Aid : None
9. Stage of Project Preparation : Feasibility study is needed

1. Project Title : RURAL TELECOMMUNICATION SYSTEM
2. Location : All desas in the southern part of Sumatra
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives :
 - To improve accessibility to telephone service
 - To promote regional economic activities
 - To ensure social equity
5. Project Description :
 - Feasibility study of introduction of rural telecommunication
 - Detail site survey
 - Making introduction plan
 - Basic / Detailed engineering design
 - Procurement of transmission system, Power plant, building and land
 - Construction of rural telecommunication network
 - Connecting of public telephone sets and normal telephone sets
6. Project Duration :
 - Feasibility Study : 12 months
 - Implementation : 60 months
7. Project Cost :
 - Feasibility study : US\$ 1,000,000
 - Implementation : US\$300,000,000 (cost tentative)
 - In this area, there are about 240 kecamatans and about 6,400 desas
 - Therefore, there are about 27 desas in each kecamatan
 - It may be assumed that each kecamatan has two digital radio multi access systems (each system covers about 14 desas)
 - Assuming each desa has 5 telephone lines, one system has 70 lines
 - Cost of one system is assumed about US\$700,000
8. Related to Project Aid : Remote area phase 3
9. Stage of Project Preparation : Feasibility study is needed

1. Project Title : LEASED LINE SERVICE
2. Location : For big traffic subscribers, inside the city and to other big cities, like Jakarta, Surabaya, Medan etc.
3. Executing Agency : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. Objectives :
 - To improve SCR by turning the big calling traffic of big organization aside to the leased lines
 - For leased line users to be able to connect to the opposite parties quickly
 - To make sophisticated information system, like banking system, health care system, airline seat reservation system, etc.
 - PT. TELKOM can earn stable income from leased line service besides normal telephone charge
 - Before introducing ISDN service in the city, they can get the service from Jakarta using the digital leased line service
5. Project Description : Digital circuits in trunk lines
6. Project Duration : 12 months
7. Project Cost : US\$ 0.0(use existing channels)
(cost tentative)
8. Related to Project Aid : None
9. Stage of Project Preparation : Preparing good quality subscriber;s line

1. **Project Title** : ESTABLISHMENT OF DEMAND FORECAST SYSTEM
2. **Location** : In all exchange center
 - First in WITEL-III
 - At the next, in Tertiary center (Palembang center) as a pilot case,
 - Then next, in secondary centers and primary centers
3. **Excuting Agency** : Directorate General of Post and Telecommunications, Ministry of Tourism, Post and Telecommunications
4. **Objectives** :
 - To make expansion program effectively (saving fund by investing suitable sites based on the demand forecast)
 - To catch customers demand
5. **Project Description** :
 - Establishment of organization system in PT. TELKOM
 - Using personal computer
 - Training and on the job training
6. **Project Duration** : 48 months
7. **Project Cost** : Technical adviser : US\$ 250,000
(cost tentative)
8. **Related to Project Aid** : None
9. **Stage of Project Preparation** : Under promotion

1. Project Title : MASTER PLAN FOR JAMBI WATER SUPPLY AND SEWERAGE SYSTEM
2. Location : Kotamadya Jambi (Jambi Province)
3. Executing Agency : Directorate General of Human Settlement Development, Ministry of Public Works
4. Objectives : - To increase water supply ratio in Jambi city to catch up the national goals as a province capital.
- To formulate a long-term master plan for water supply and a sewerage treatment plan simultaneously considering the increased service ratio of water supply.
5. Project Description : - The water supply ratio of Jambi City was 40% in 1991 and will be more than 50% after the planned Secondary Cities Urban Development Project, which will be not yet sufficient as a capital city of a province.
- In accordance with the expecting increase of water supply and consumption in the future, an appropriate sewerage treatment system is necessary to prevent water pollution and water overflow in the urban drainage and the river.
- The proposed master plan aims to formulate the long-term water supply and sewerage treatment plan, including the estimate of the long-term requirement of the sewerage treatment capacity and assessment of the optimum sewerage treatment system.
- The proposed master plan is expected to integrate with the city's other infrastructure development plans (like urban road).
6. Project Duration : 1 year with 80 M/M for the master plan.
7. Project Cost : US\$2,500,000
8. Related to Project Aid : SCUDP (Secondary Cities Urban Development Project)
9. Stage of Project Preparation :

1. Project Title : MASTER PLAN FOR JAMBI FLOOD CONTROL
2. Location : Kotamadya Jambi (Jambi Province)
3. Executing Agency : Directorate General of Water Resources Development,
Ministry of Public Works
4. Objectives : To mitigate flood damage in the flood prone areas of Jambi.
5. Project Description : - Jambi City suffers from serious floodings, and needs a flood control work. The recent flood damage is becoming more serious because residential areas have expanded to the flood prone areas, and also it is said that the flood is more severe recently than before because of degradation of water holding capacity of the upstream areas.
- There are some possibilities to mitigate and/or prevent a flood damage: 1) Levee embankment along Batang Hari River, 2) Polder dyking for flood prone areas, 3) Improvement of urban drainage system with pumped facilities, 4) Mondahara flood way to divert the river flow from the upstream of Jambi city to Mondahara River by constructing an artificial channel with 25 km length, 5) Jambi flood way in the outskirts of Jambi City so that flood water will bypass the city.
- The proposed master plan include topographic survey, hydraulic research, review various idea of flood control, and identify an appropriate flood control system in Jambi.
6. Project Duration : 2 years with 100 M/M for the Master plan and Feasibility study.
7. Project Cost : US\$3,100,000
8. Stage of Project Preparation :

1. Project Title : SECONDARY CITIES URBAN DEVELOPMENT PROJECT(SCUDP)
2. Location : Kuala Tungkal (Jambi Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- Secondary Cities Urban Development Project (SCUDP) is one type of IUIDP (Integrated Urban Infrastructure Development Project) for secondary cities. Kuala Tungkal has been selected as a city to be included in the project, starting in around 1995. The proposed project will assist it financially.
 - Since SCUDP is a mid-term investment plan, it is necessary to evaluate it and expand it for longer-term urban development. The proposed project will conduct technical assistance for that purpose.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$1,500,000 for implementation.
8. Related to Project Aid : Secondary Cities Urban Development Project, partly funded by Asian Development Bank.
9. Stage of Project Preparation : Feasibility study is necessary.

1. Project Title : MASTER PLAN FOR PALEMBANG CITY DEVELOPMENT
2. Location : Palembang (South Sumatra Province)
3. Executing Agency : Kotamadya Palembang
4. Objectives :
- To complement the city's long-term master plan (20 years), based on the reality and thorough analysis of the present condition, problems, constraints, and its potential.
 - To strengthen the planning ability of the local government based on not only technical aspect but socio-economic aspects.
5. Project Description :
- Palembang City has a master plan, however, it seems that the plan does not reflect the city's reality and problems, especially those of kampungs, and lacks how to solve the problems to realize the city's goals. The current master plan seems to involve resettlement of people, especially those along the Musi River, and if it is the case, the city should offer alternative houses and working places which are convenient for people.
 - The proposed master plan will analyze the present condition of the city's present conditions of all aspects, such as population, economy, society, social services, infrastructure, and environment.
 - The proposed master plan will analyze potential in terms of natural resources, economy, population, and spatial structure.
 - The proposed master plan will clarify the city's goals, roles and strategy, based on the analysis above and with special attention to people in kampung.
6. Project Duration : 1 year
7. Project Cost : US\$100,000.
8. Stage of Project Preparation :

1. Project Title : MASTER PLAN FOR PALEMBANG URBAN DRAINAGE AND SEWERAGE TREATMENT
2. Location : Palembang (South Sumatra Province)
3. Executing Agency : Directorate General of Human Settlement, Ministry of Public Works
4. Objectives : To provide an urban drainage master plan in an integrated way with related infrastructures such as sanitation and urban flood control.
5. Project Description : - Palembang city has an area of about 14,000 ha and population of 1,384,000. The current drainage system is based on outline designs and insufficient. This outline designs was carried out for some parts of the urban areas. However, the urban areas have grown since then, and now need a comprehensive drainage master plan. The plan is expected to integrate with the other urban infrastructure development plans.
- Drainage improvement is currently in progress within the frame of IUIDP, which will be completed in 1996. However, the improvement work is not smooth due to many illegal settlements along the river, and the serious backwater effect from the mainstream of Musi River. Another problem is that there is no sewerage treatment system in the city and the drainage water is seriously polluted.
- The proposed master plan study includes the followings: (a) The long term drainage network plan for the whole city to avoid the further settlement problem, (b) The technical assessment for the smooth drainage to the Musi River, considering the gated structure, pump facilities and so on, (c) The long term sewerage treatment system in parallel with the urban drainage system.
6. Project Duration : 2 years with 120 M/M for the master plan.
7. Project Cost : US\$3,700,000 for the master plan.
8. Related to Project Aid : IUIDP for Palembang by ADB.
9. Stage of Project Preparation :

1. Project Title : KAMPUNG DEVELOPMENT PROGRAM
2. Location : Palembang (South Sumatra Province)
3. Executing Agency : Kotamadya Palembang, Directorate General of Human Settlement, Ministry of Public Works, Ministry of Industry, Ministry of Education, Bank Indonesia
4. Objectives :
- To improve the living conditions and incomes of people, especially with low-income, through improving the physical environment, offering informal education and training, and establishing a credit union.
 - To improve basic needs fulfillment.
 - To increase people's participation for effective and sustainable development activities.
5. Project Description :
- The proposed program has three components: Kampung Improvement Project (KIP, betterment of physical conditions), Human Resource Development Project (skills training, informal education), Credit Union (provision of a credit scheme).
 - NGO/university has a major role to support people's organizations.
The first stage: selection of NGO or university, and consultants; situation survey.
The second stage: F/S. selection of kampungs, and their further profiles; identification and/or promotion of local self-help groups; social preparation and consultation with self-help groups; design of projects; establishment of the management system for KIP; decision of contents of training; establishment of monitoring and feed back system; financial training for self-help groups.
The third stage: implementation
6. Project Duration :
- 3 months for the first stage
 - 6 months for the second stage
 - 5 years for KIP and human resource development, 3 years for a credit union pilot project.
7. Project Cost : US\$80,000 for NGO and consultants. The cost of implementation is to be decided during the F/S stage.
8. Related to Project Aid : Kampung Improvement Program funded by Asian Development Bank.
9. Stage of Project Preparation :
- Economically and socially the program will be sound, since the program will increase people's incomes directly and indirectly through three components, and basic needs will be improved. A detailed economic and financial analysis is to be done during the F/S stage.

1. Project Title : SPATIAL PLAN
2. Location : Kabupaten Belitung (South Sumatra Province)
3. Executing Agency : BAPPEDA TK II
4. Objectives : - To articulate the city's long-term master plan (20 years), based on the analysis of the present condition, problems, constraints, and its potential, especially for tourism.
- To strengthen the planning ability of the local government based on not only technical aspect but socio-economic aspects.
5. Project Description : - The proposed master plan will analyze the present condition of the city's present conditions of all aspects, such as population, economy, society, social services, infrastructure, and environment.
- The proposed master plan will analyze potential in terms of natural resources, economy, population, and spatial structure.
- The proposed master plan will clarify the city's goals, roles and strategy, based on the analysis above. It will include an appropriate infrastructure plan considering the potential for tourism.
6. Project Duration : 1 year
7. Project Cost : US\$70,000.
8. Stage of Project Preparation :

1. Project Title : INTEGRATED URBAN INFRASTRUCTURE DEVELOPMENT PROGRAM(IUIDP)
2. Location : Lubuk Linggau (South Sumatra Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- Lubuk Linggau has conducted IUIDP by local government's fund. Our project will evaluate those past projects and present condition.
 - To assist in making a planning of urban infrastructure, institution building, and finance, based on the evaluation above.
 - To assist in funding project implementation.
6. Project Duration : 1 year for the study and 5 years for implementation.
7. Project Cost : US\$4,000,000
8. Stage of Project Preparation : Master plan is necessary.

1. Project Title : SECONDARY CITIES URBAN DEVELOPMENT PROJECT(SCUDP)
2. Location : Lahat (South Sumatra Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- Secondary Cities Urban Development Project (SCUDP), is one type of IUIDP (Integrated Urban Infrastructure Development Project) for secondary cities. Lahat has been selected as a city to be included in the project, starting in around 1995. The proposed project will assist it financially.
 - Since SCUDP is a mid-term investment plan, it is necessary to evaluate it and expand it for longer-term urban development. The proposed project will conduct technical assistance for that purpose.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$3,800,000 for implementation.
8. Related to Project Aid : Secondary Cities Urban Development Project, partly funded by Asian Development Bank.
9. Stage of Project Preparation : F/S is necessary.

1. Project Title : SECONDARY CITIES URBAN DEVELOPMENT PROJECT(SCUDP)
2. Location : Baturaja (South Sumatra Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- Secondary Cities Urban Development Project (SCUDP) is one type of IUIDP (Integrated Urban Infrastructure Development Project) for secondary cities. Baturaja has been selected as a city to be included in the project, starting in around 1990. The proposed project will assist it financially.
 - Since SCUDP is a mid-term investment plan, it is necessary to evaluate it and expand it for longer-term urban development. The proposed project will conduct technical assistance for that purpose.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$4,000,000 for implementation.
8. Related to Project Aid : Secondary Cities Urban Development Project, partly funded by Asian Development Bank.
9. Stage of Project Preparation : Evaluation is necessary.

1. Project Title : SECONDARY CITIES URBAN DEVELOPMENT PROJECT(SCUDP)
2. Location : Manna, Bintuhan (Bengkulu Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- SCUDP is one type of IUIDP (Integrated Urban Infrastructure Development Project) for secondary cities. Manna and Bintuhan have been selected as cities to be included in the project, starting in around 1995. The proposed project will assist it financially.
 - Since SCUDP is a mid-term investment plan, it is necessary to evaluate it and expand it for longer-term urban development. The proposed project will conduct technical assistance for that purpose.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$2,100,000 for implementation.
8. Related to Project Aid : Secondary Cities Urban Development Project, partly funded by Asian Development Bank.
9. Stage of Project Preparation : Feasibility study is necessary.

1. Project Title : SECONDARY CITIES URBAN DEVELOPMENT PROJECT(SCUDP)
2. Location : Kota Bumi, Menggala (Lampung Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
5. Project Description :
- SCUDP is one type of IUIDP (Integrated Urban Infrastructure Development Project) for secondary cities. Kota Bumi and Menggala have been selected as cities to be included in the project, starting in around 1995. The proposed project will assist it financially.
 - Since SCUDP is a mid-term investment plan, it is necessary to evaluate it and expand it for longer-term urban development. The proposed project will conduct technical assistance for that purpose.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$5,100,000 for implementation.
8. Related to Project Aid : Secondary Cities Urban Development Project, partly funded by Asian Development Bank.
9. Stage of Project Preparation : Feasibility study is necessary.

1. Project Title : MASTER PLAN FOR BANDAR LAMPUNG CITY DEVELOPMENT
2. Location : Bandar Lampung (Lampung Province)
3. Executing Agency : Kotamadya Bandar Lampung
4. Objectives : - To complement the city's long-term master plan (20 years), based on the thorough analysis of the present condition, problems, constraints, and its potential.
- To strengthen the planning ability of the local government based on not only technical aspect but socio-economic aspects.
5. Project Description : - Bandar Lampung City has a master plan, however, it seems not sufficient especially because the city is expected to grow fast and its strategic importance will be bigger. Also the city needs to pay a careful attention to the problems of people in kampungs, especially those living along the coastal line. The master plan should clarify how to solve the problems. If the city plans to involve resettlement of people, it should offer alternative houses and working places which are convenient for people.
- The proposed master plan will analyze the present condition of the city's present conditions of all aspects, such as population, economy, society, social services, infrastructure, and environment.
- The proposed master plan will analyze potential in terms of natural resources, economy, population, and spatial structure.
- The proposed master plan will clarify the city's goals, roles and strategy, based on the analysis above and with special attention to people in kampung.
6. Project Duration : 1 year
7. Project Cost : US\$1,500,000.
8. Stage of Project Preparation :

1. Project Title : WATER SUPPLY FOR BANDAR LAMPUNG
2. Location : Bandar Lampung (Lampung Province)
3. Executing Agency : Directorate General of Water Resources Development,
Ministry of Public Works
4. Objectives : - To review the existing long-term water supply plan for
Bandar Lampung city.
- To forecast the long-term water demand by municipal and
industrial use in Bandar Lampung city.
- To increase water supply ratio considering the city's
increasing population.
5. Project Description : - The water supply ratio of Bandar Lampung was 13% in
1989 and will be 41% in 1995 after the planned
BandarLampung Urban Development Project, which will be
stillinsufficient as a capital city of a province.
- According to the long-term water supply master plan for
Bandar Lampung city, Way Sekampung River has a role to
supply water for potable and industrial use for the city.
However, all the surface water of the river in dry season is
diverted to Way Sekampung Irrigation area and there is no
room for the potable and industrial purpose.
- Bandar Lampung city is considered as an economic
development center and is expected to grow further. The
estimated population on 2010 is 1,479,000, and water
resources are the major constraints for the
furtherdevelopment.
- The scope of the proposed study is to review the long term
water supply masterplan for Bandarlampung city and the
irrigation extension plan of Way Sekampung
- System.
6. Project Duration : 6 months for the study and 2 years for implementation.
7. Project Cost : - US\$1,100,000 for water allocation study.
- US\$2,500,000 for implementation.
8. Related to Project Aid : Bandar Lampung Urban Development Project by Asian
Development Bank.
9. Stage of Project Preparation : The review of the study is necessary.

1. Project Title : MASTER PLAN FOR BANDAR LAMPUNG SEWERAGE TREATMENT
2. Location : Bandar Lampung City (Lampung Province)
3. Executing Agency : Directorate General of Human Settlement Development, Ministry of Public Works
4. Objectives : - To formulate a long-term master plan for sewerage treatment system of Bandar Lampung.
5. Project Description : - Bandar Lampung is located on the southern fringe of Sumatra Island facing to the Lampung Bay, with an area of 192 km² and the fourth largest population in Sumatra of over half of a million people. Because of the advantage of the location as the connecting point between Java and Sumatra, it has grown and is expected to continue growing in the future. The further growth will depend on the development of industry and tourism. Bandar Lampung puts emphasis on the environmental aspects both for industry and tourism, and for people.
- The Lampung Bay is polluted by the recent drastic growth of industry and population, without the sufficient sewerage treatment system. There is no piped sewerage system in the city. Most of the city's households have toilets and three-quarters of the toilets discharge into septic tanks or other on-site disposal system, of which ten percent of the discharge flow into open drains or streams. The serious cause of the coastal pollution is the current septic treatment system. There is no sewerage treatment plant in the city. The septic collected by the municipality is discharged into the solid waste landfills, while the majority of households which de-sludge their tanks discharge the septic directly into nearby streams.
- Under the circumstance above, the urgent issues for the sewerage treatment for Bandar Lampung is treated in Integrated Urban Infrastructure Development Project (IUIDP) in 1990. However, it is not sufficient. It includes the following facilities:
- | | |
|-------------------------|----------|
| Vacuum track: | 4 units; |
| Public toilet: | 3 units; |
| Septic Treatment Plant: | 1 unit; |
- Establishment of Sanitation Information Service Center
- The proposed master plan aims to formulate the long term sewerage treatment plan considering the further expansion of water supply system. The proposed scope of the master plan are 1) estimate of the long term requirement of the sewerage treatment capacity, 2) assessment of the optimum sewerage treatment system in the long term, and 3) long term investment plan for sewerage system.
6. Project Duration : 1 year with 80 M/M for the master plan.
7. Project Cost : US\$2,500,000
8. Related to Project Aid : IUIDP by ADB
9. Stage of Project Preparation :

1. Project Title : KAMPUNG IMPROVEMENT PROGRAM(KIP)
2. Location : Bandar Lampung (Lampung Province)
3. Executing Agency : Kotamadya Bandar Lampung, Directorate General of Human Settlement
4. Objectives :
 - To improve the living conditions of people living in a bad conditions through improving and/or offering basic infrastructure.
 - To improve basic needs fulfillment.
 - To increase people's productivity through reduced incidence of diseases caused by unhealthy living environment.
 - To conduct bottom-up planning.
5. Project Description :
 - Bandar Lampung has conducted Urban Development Project funded by Asian Development Bank. KIP is included in the project. Our project will evaluate the present KIP in terms of the coverage, suitability of the selected components (whether they consider people's needs), project design, and so on.
 - The proposed project will assist in formulating a complementary project.
 - The proposed project will finance those proposed projects.
6. Project Duration :
 - 3 months for the evaluation
 - 5 years for implementation.
7. Project Cost : US\$20,000 for evaluation (local consultants).The cost of implementation is to be decided during the F/S stage.
8. Related to Project Aid : Kampung Improvement Project as one component of Bandar Lampung Urban Development Project, funded by Asian Development Bank.
9. Stage of Project Preparation : Evaluation is necessary.

1. Project Title : SPATIAL PLAN
2. Location : Bakauheni (Lampung Province)
3. Executing Agency : Bakauheni city
4. Objectives : - To articulate the city's long-term master plan (20 years), based on the analysis of the present condition, problems, constraints, and its potential.
- To strengthen the planning ability of the local government based on not only technical aspect but socio-economic aspects.
5. Project Description : - The proposed master plan will analyze the present condition of the city's present conditions of all aspects, such as population, economy, society, social services, infrastructure, and environment.
- The proposed master plan will analyze potential in terms of natural resources, economy, population, and spatial structure.
- The proposed master plan will clarify the city's goals, roles and strategy, based on the analysis above.
6. Project Duration : 1 year
7. Project Cost : US\$500,000.
8. Stage of Project Preparation :

1. Project Title : INTEGRATED URBAN INFRASTRUCTURE DEVELOPMENT PROGRAM (UIDP)
2. Location : Bakauheni (Lampung Province)
3. Executing Agency : Directorate General of Human Settlements, Ministry of Public Works
4. Objectives :
- To improve the living environment in urban areas through improving urban social infrastructure.
 - To improve urban infrastructure in an integrated manner.
 - To promote decentralization of responsibilities for urban infrastructure planning, implementation and operation to local governments through strengthening the capabilities of the local government for planning, implementation, operation and maintenance.
 - To strengthen local government's capability to mobilize resources and optimize the use of funds.
 - To support urban activities through improved urban infrastructure.
 - To assist in making a long-term urban infrastructure plan based on the city's master plan.
 - To assist in formulating a mid-term investment plan
 - To assist in funding implementation.
6. Project Duration : 5 years for implementation, 1 year for evaluation and planning for extension of the project.
7. Project Cost : US\$800,000 for master planning.
8. Stage of Project Preparation : Master plan is necessary.

1. Project Title : RURAL DEVELOPMENT PROJECT(SUPPORT FOR TRANS BANDEP)
2. Location : Kabupaten Tanjung Jabung (Jambi Province)
3. Executing Agency : Ministry of Transmigration
4. Objectives :
- To increase agricultural productivity in the desas which suffer from low productivity due to sparse population by allocating self-motivated transmigrants.
 - To increase incomes and living standards of farmers by improving agricultural productivity.
 - To make a model of TransBandep to replicate in other areas with a small population.
 - To promote land registration for both local farmers and self-motivated farmers.
5. Project Description :
- To assess land potential.
 - To assess environmental impacts by newly introduced products.
 - To survey economic conditions and socio-cultural background of both local people and transmigrants.
 - To support both local farmers and transmigrants equally by offering various services such as extension and health services.
 - To promote both local farmers and transmigrants to register their land.
 - To prepare basic rural infrastructure such as roads, bridges, market facilities and so on.
6. Project Duration : 2 years
7. Project Cost : US\$6,000,000
9. Stage of Project Preparation : The study to identify suitable land is necessary.

1. Project Title : RURAL DEVELOPMENT PROJECT
2. Location : Kabupaten Lahat / Musi Rawas (South Sumatra Province)
3. Executing Agency : Department of High Ways, Ministry of Public Works,
Ministry of Health
4. Objectives : - To increase road access for farmers in isolated areas to
markets and/or other facilities.
- To increase farmers' incomes through selling more products
by better access to markets.
- To improve health facilities especially in isolated areas.
- To expand informal adult education programs.
5. Project Description : - To provide all-weather gravel roads totaling approximately
200 km mainly in under serviced areas, such as Rawas Ilir,
Rawas Ulu, Muara Rupit, Pulau Pinang, Kota Agung,
Merapi, Tanjung Sakti, and Ulu Musi.
- To rehabilitate health centers and subcenters (tentatively, 10
centers and 50 subcenters), upgrade subcenters to centers
(tentatively, 10 subcenters) and construct new subcenters
(tentatively, 10 subcenters)
- To organize adult education programs for rural communities
with high incidences of illiteracy
6. Project Duration : Study and Planning: 6 months per component
Implementation: 10 years
7. Project Cost : Study and Planning: US\$ 200,000 per component
Implementation: Roads US\$ 7,600,000
Health Care US\$ 700,000
(buildings, equipment and vehicles)
Adult Education US\$100,000 per year
8. Stage of Project Preparation : Master plan study is necessary.

1. Project Title : PARTICIPATORY RURAL DEVELOPMENT PROGRAM
2. Location : Kecamatan Blambangan Umpu (Kabupaten Lampung Utara, Lampung Province)
3. Executing Agency : Directorate General of Rural Development, Ministry of Home Affairs
4. Objectives :
- To increase incomes and living standards of farmers by identifying sustainable farming systems, providing a credit scheme, and improvement of rural infrastructure.
 - To improve women's economic and social conditions by giving them skill training in various business activities.
 - To increase farmers' participation for effective and sustainable development activities.
 - To enhance ability of sarjanas (university graduates) through working with farmers in the field.
5. Project Description :
- The proposed program has four components: agricultural research and extension with farmers' participation, skill training for women, provision of a credit scheme to farmers, improvement of rural infrastructure
 - NGO has a major role to support farmers' organization.
 - Sarjanas are expected to work together with farmers as partners.
- The first stage: Selection of NGO, sarjanas, and consultants; situation survey.
- The second stage: F/S. selection of desas and farmers, and their further profile; identification and/or promotion of farmers' organizations; social preparation and discussion with farmers; farmers participatory research with sarjanas; setting up the system of regular monitoring, evaluation and feedback.
- The third stage: involving consultants with farmers participatory research and extension, construction of rural infrastructure, provision of credit
6. Project Duration :
- 2 months for the first stage
 - 1 year for the second stage
 - 3 years for the third stage
7. Project Cost : US\$190,000 for NGO and consultants
The cost of implementation is to be decided during the F/S stage.
8. Stage of Project Preparation :
- Economically and socially the program will be sound, since the program will increase productivity of agriculture and farmers' incomes directly and indirectly, and especially poorer will benefit from the program. A detailed economic and financial analysis is to be done during the F/S stage.

1. Project Title : RURAL DEVELOPMENT PROGRAM FOR CONSERVATION AND AGRICULTURAL DIVERSIFICATION
2. Location : The western part of Kabupaten Lampung Selatan (Lampung Province)
3. Executing Agency : Ministry of Forestry, Ministry of Public Works, Ministry of Home Affairs in cooperation with BAPPEDA TK. I Lampung
4. Objectives : - To improve and diversify coffee production thereby raise the coffee farmers' income level.
- To reduce illegal coffee cultivation in the protected areas.
- To faster local farmers' initiatives thereby raising their environmental awareness and encourage their participation.
5. Project Description : - The Program consists of four components:
Intensification/diversification: Replace coffee trees with higher yield varieties while introducing various new crops (such as cocoa, durian, melinjo, vanilla, banana, chilli, honey).
A careful Kecamatan-wise study is required to decide appropriate crops. Factors to be studies: soil suitability, local preference, marketing conditions, local initiatives, etc.
Local roads improvement: Improve Kabupaten roads to market the products.
Leader training: Train community leaders to promote the program. Support two existing programs by BANGDA (KPD and UED). Provide scholarships to the participants.
Land titling: Facilitate land titling among the target farmers.
6. Project Duration : - F/S 1 year
Implementation 5 years
7. Project Cost : F/S US\$300,000
Implementation US\$3,700,000
8. Related to Project Aid : To be coordinated with the Estate Crops Development in Critical Watershed Areas Project (ADB) and the Upper Way Sekampung Watershed Development Project (whose study financed by the Netherlands).
9. Stage of Project Preparation : Project idea.

1. Project Title : INTEGRATED AREA DEVELOPMENT PROGRAM (PKT)
2. Location : Sarolangun Bangko, Batang Hari (Jambi Province)
3. Executing Agency : Directorate General of Rural Development, Ministry of Home Affairs
4. Objectives : - To increase the welfare of low-income community in desas with special problems such is poverty, isolation, critical areas and coastal areas.
- To stimulate development of socio-economic activities in the community by diversifying community's economic activities and by stimulating community self-help.
5. Project Description : - To increase productivity of people's productive activities, both agriculture and non-agricultural activities.
- To provide community with training for developing capability and skills.
- To strengthen formal and non-formal organizations
- To develop credit and marketing activities.
- To improve infrastructure and facilities, such as irrigation network, road, transportations, bridges, water supply, health, and rural electrification.
- To improve the quality of natural resources and environment.
- To offer an advice for the planning
- To offer financial assistance for the implementation
6. Project Duration : 1 year
7. Project Cost : US\$150,000 for study and implementation.
8. Stage of Project Preparation : Master plan study is necessary.

1. Project Title : INTEGRATED AREA DEVELOPMENT PROGRAM (PKT)
2. Location : OKU, Muara Enim, MUBA (South Sumatra Province)
3. Executing Agency : Directorate General of Rural Development, Ministry of Home Affairs
4. Objectives :
- To increase the welfare of low-income community in desas with special problems such is poverty, isolation, critical areas and coastal areas.
 - To stimulate development of socio-economic activities in the community by diversifying community's economic activities and by stimulating community self-help.
5. Project Description :
- To increase productivity of people's productive activities, both agriculture and non-agricultural activities.
 - To provide community with training for developing capability and skills.
 - To strengthen formal and non-formal organizations
 - To develop credit and marketing activities.
 - To improve infrastructure and facilities, such as irrigation network, road, transportations, bridges, water supply, health, and rural electrification.
 - To improve the quality of natural resources and environment.
 - To offer an advice for the planning
 - To offer financial assistance for the implementation
6. Project Duration : 1 year
7. Project Cost : US\$150,000 for study and implementation.
8. Stage of Project Preparation : Master plan study is necessary.

1. Project Title : INTEGRATED AREA DEVELOPMENT PROGRAM (PKT)
2. Location : Bengkulu Utara (Bengkulu Province)
3. Executing Agency : Directorate General of Rural Development, Ministry of Home Affairs
4. Objectives :
- To increase the welfare of low-income community in desas with special problems such is poverty, isolation, critical areas and coastal areas.
 - To stimulate development of socio-economic activities in the community by diversifying community's economic activities and by stimulating community self-help.
5. Project Description :
- To increase productivity of people's productive activities, both agriculture and non-agricultural activities.
 - To provide community with training for developing capability and skills.
 - To strengthen formal and non-formal organizations
 - To develop credit and marketing activities.
 - To improve infrastructure and facilities, such as irrigation network, road, transportations, bridges, water supply, health, and rural electrification.
 - To improve the quality of natural resources and environment.
 - To offer an advice for the planning
 - To offer financial assistance for the implementation
6. Project Duration : 1 year
7. Project Cost : US\$150,000 for study and implementation.
8. Stage of Project Preparation : Master plan study is necessary.

1. Project Title : INTEGRATED AREA DEVELOPMENT PROGRAM (PKT)
2. Location : Lampung Tengah (Lampung Province)
3. Executing Agency : Directorate General of Rural Development, Ministry of Home Affairs
4. Objectives :
- To increase the welfare of low-income community in desas with special problems such is poverty, isolation, critical areas and coastal areas.
 - To stimulate development of socio-economic activities in the community by diversifying community's economic activities and by stimulating community self-help.
5. Project Description :
- To increase productivity of people's productive activities, both agriculture and non-agricultural activities.
 - To provide community with training for developing capability and skills.
 - To strengthen formal and non-formal organizations
 - To develop credit and marketing activities.
 - To improve infrastructure and facilities, such as irrigation network, road, transportations, bridges, water supply, health, and rural electrification.
 - To improve the quality of natural resources and environment.
 - To offer an advice for the planning
 - To offer financial assistance for the implementation
6. Project Duration : 1 year
7. Project Cost : US\$150,000 for study and implementation.
8. Stage of Project Preparation : Master plan study is necessary.

1. Project Title : PILOT DEMONSTRATION ON SUSTAINABLE INTEGRATED MANAGEMENT OF NATURAL FOREST
2. Location : A 100-ha plot on chosen forest concession in Sarolangun Bangko or Bungo Tebo, Jambi.
3. Executing Agency : Directorate General of Forest Utilization (DGFU), through Regional Forestry Office (Kanwil Kehutanan) in Jambi.
4. Objectives :
 - To establish a demonstration forest plot where the proper and complete implementation of the Indonesian Selective Cutting and Planting System (TPTI) is applied as an example for forest concession (HPH) holders.
 - To enhance understanding and awareness of HPH holders on the importance of TPTI as a system for sustained management of the natural production forest.
 - To open the minds of forestry officials on a site adapted/modified TPTI best suited for a specific location, thereby creating an attitude of flexibility in controlling the implementation of the TPTI by HPH holders.
5. Project Description :
 - One demonstration plot of 100 ha within a chosen HPH, representing one unit of an annual cutting block, will be established with distinct marks around its boundary.
 - Proper and complete implementation of the TPTI will be carried out within this demonstration unit, taking into consideration flexible deviations that need to be adopted to the particular site conditions of the unit which might necessitate appropriate treatment.
 - All treatments on the forest stand and the cost incurred will be carefully recorded and tabulated for subsequent analyses. Results of treatment will also be carefully measured, recorded and analyzed.
6. Project Duration : 3 years
7. Project Cost : US\$ 260,000
8. Related to Project Aid : Technical Assistance on Research from France and ITTO (International Tropical Timber Organization), Natural Forest Management Projects through UK, ITTO and Germany.
9. Stage of Project Preparation : Selection of the demonstration site is needed.

1. Project Title : TECHNICAL ASSISTANCE TO TIMBER COMPANIES COLLABORATING IN SMALL SCALE INDUSTRY DEVELOPMENT FOR FOREST DWELLERS
2. Location : Pegunungan Duakla, Sarolangun Bangko, Jambi.
3. Executing Agency : Interested timber companies (e.g. P.T. Intam Petraderma).
4. Objectives :
 - To assess locally available resources based on which processing or other small-scale industry could be developed and which complements, rather than competes with, timber company activities.
 - To facilitate/organize/promote experimental small-scale processing activities owned and managed by local communities.
 - To train selected timber company personnel in collaborative work with communities, and selected community residents in processing and marketing skills.
5. Project Description :
 - This project is designed to develop mechanisms whereby the resources of private enterprises can be tapped, to their own benefit, in solving the problems related to shifting cultivation representing a real threat to tropical rainforests.
 - Forest dwelling people use a wide variety of products which may be suitable for small-scale industrial expansion, and need to be investigated and evaluated in detail.
 - A specialist in small-scale industry will work together with anthropologists, timber concession personnel, and villagers, identifying potentially viable small-scale industries.
 - Companies will provide junior staff and small amounts of 'seed money' for collaborative work. The project will provide technical assistance on the techniques of the small-scale industrial processing and marketing of products. Timber company personnel will be made available to work with foreign experts, and to learn new methods for village development.
6. Project Duration : 36 months
7. Project Cost : US\$ 300,000
8. Related to Project Aid : Not yet identified.
9. Stage of Project Preparation : F/S is needed including a detailed survey on interests and concerns of timber companies.

1. Project Title : PILOT DEMONSTRATION ON INTEGRATED AND SUSTAINABLE MANGROVE FOREST MANAGEMENT
2. Location : In and around Hutan Bakau Pantai Timur Strict Nature Reserve (6,500 ha) along the coast of Jambi Province, amounting to 18,700 ha (KJP) in total.
3. Executing Agency : Directorate General of Forest Utilization (PH) in cooperation with PHPA, RRL, Directorate General of Fisheries, and Forest Services of the Jambi Province.
4. Objectives :
 - To establish and demonstrate an integrated and sustainable system of mangrove ecosystem management, in particular for marine products and preservation of wildlife habitats.
 - To demonstrate the proper rehabilitation or reforestation with mangrove species where already degraded in and around the reserve.
 - To promote income earning activities for local communities through activities such as production of non-timber forest products and wildlife farming.
 - To train selected personnel through on the job training, study tours and fellowships.
5. Project Description :
 - The team of foreign experts would be expected to travel to the location to establish the demonstration areas for sustainable mangrove ecosystem management, provide necessary equipment and train some 12 local professional and technical staff in integrated and sustainable approach.
 - The charcoal export trade is almost entirely based on Sumatra mangrove forests. Mangroves are also exploited for producing wood chips for pulp.
 - Very little research has been done on mangrove rehabilitation and regeneration, and results to date are unsatisfactory.
 - Destruction of the fragile coastal ecosystems has caused so grave concern that introduction of techniques for an integrated and sustainable mangrove management become urgent.
6. Project Duration :
 - Study : 12 months
 - Implementation : 36 months
7. Project Cost :
 - Study : US\$ 583,900
 - Implementation : US\$ 2,163,500
8. Related to Project Aid under AWB. :
 - Improved Wetland Management & Conservation Project
 - Support to Conservation & Environment Project under UK.
9. Stage of Project Preparation : Socially and environmentally the project will be very sound, although economic evaluation on environment is to be examined to justify comprehensive economic value during the F/S stage.

1. **Project Title** : TECHNICAL AND ECONOMIC EVALUATION OF LOGGING RESIDUES AND THEIR UTILIZATION
2. **Location** : A selected concession near Pelabuhan Dagang, Tanjung Jabung, Jambi.
3. **Executing Agency** : Directorate General of Forest Utilization (DGFU) in cooperation with Agency for Forestry Research and Development (AFRD).
4. **Objectives** :
 - To minimize logging wastes currently encountered in logging operations to ensure maximal utilization of every tree that is felled.
 - To promote waste reduction by utilization of logging residues, introduction of appropriate equipment for salvaging utilizable residues (e.g. mobile sawmills and chippers), and alternative logging methods to reduce waste.
 - To identify impediments to use of residues and recommend means of overcoming them.
 - To provide indicative investment requirements for utilization of logging residues.
5. **Project Description** :
 - DGFU will identify one concession where there are large amounts of logging residues and where there are small-scale business enterprises, which are short of raw material supplies and which are in a position to utilize the logging residues.
 - A study of the local small-scale businesses using wood in the vicinity of the concession will be necessary to establish a genuine demand for wood raw material supply which can be monitored for the study.
 - Ways and means of encouraging residue utilization, including necessary changes in existing rules, regulations and royalty rates, will be studied and recommendations should be made.
6. **Project Duration** : 3 years
7. **Project Cost** : US\$ 940,000
8. **Related to Project Aid** : Not yet identified.
9. **Stage of Project Preparation** : Selection of the concession is needed.

1. Project Title : INDUSTRIAL FOREST PLANTATION
2. Location : The whole Province of South Sumatra including Bangka and Belitung Island.
3. Executing Agency : Directorate General for Reforestation and Land Rehabilitation (RRL), Dinas Kehutanan, and Kantor Wilayah Kehutanan (Regional Forestry Office).
4. Objectives :
- To identify suitable sites for establishing industrial forest plantations with emphasis being given to the rehabilitation of degraded land, and taking into consideration the recommended development areas (RDAs) with agricultural and forestry development potential.
 - To establish the pattern of wood flow and assess the size and desirability of investment needs.
 - To identify the institutional, legal, social and biogenetic aspects, timber or non-timber production areas, and procedural requirements or improvements.
 - To extend the required planning and monitoring system to the province to strengthen technical and institutional capability for programme and project preparation at provincial and concession levels.
 - To rehabilitate forested and grassland appropriate for industrial forest plantation.
5. Project Description :
- The province needs to be prioritized and expansion of industrial forest plantation should proceed accordingly.
 - The analyses of soil for nutrients, texture and suitability for plantations, etc. will be carried out in cooperation with Forest Research Institutes and/or the laboratories in the province.
 - Computerised data base will be established in the province within the early years, at the same time as the execution of land capability surveys.
 - Full use would be made of existing resource and ecological survey data, records from timber concessionaires, air photography and remote sensing.
 - At the 2nd stage of the project, about 20,000 ha will be selected and planted, being based on the results of Phase 1.
6. Project Duration :
- | | | |
|----------------|---|---------|
| Study | : | 1 year |
| Implementation | : | 10 year |
7. Project Cost :
- | | | |
|----------------|---|-----------------|
| Study | : | US\$ 226,700 |
| Implementation | : | US\$ 10,000,000 |
8. Related to Project Aid : Plantation Master Plan Project under WB.
9. Stage of Project Preparation :
- The opportunity cost of industrial forest plantation, indirect environmental benefits and economic impacts on timber industry need to be estimated for complete economic analysis. The initial assessment has identified social and environmental soundness of the project. But, F/S should include EIA especially on ecological aspect.

1. Project Title : PILOT PROJECT FOR THE REHABILITATION OF DEGRADED LANDS THROUGH AGRO-FORESTRY SYSTEM
2. Location : Ipuh Transmigration area, Bengkulu Utara, Bengkulu.
3. Executing Agency : Ministry of Forestry in cooperation with the Department of Transmigration.
4. Objectives :
 - To review existing agricultural system in all its aspects (including home gardens, orchards, ladang, sawah, income, time allocation, market and division of labour).
 - To determine and test, in collaboration with farmers, a small number of development alternatives (e.g. mixtures of trees and food crops, trees and animal husbandry, improved processing or marketing, enhancement of small-scale industries or crafts) identified as having potential for increasing local incomes and for rehabilitating problem lands.
 - To extend successful agro-forestry systems, identified by the above process, to nearby communities and other comparable transmigration areas, making use of existing community organizations to maximize effect.
 - To train 60 provincial level field personnel in the methods of working collaboratively with villagers.
5. Project Description :
 - The transmigration areas has become degraded. Soils which are too infertile for sustained food crop production have been used. Since the area is already settled, alternatives which can provide subsistence to the people and rehabilitate the critical lands, must be found.
 - This project can build on the substantial number of agro-forestry systems research and development activities which Indonesia has already done.
 - The project will ultimately tap the creativity of transmigrates in solving their problems.
6. Project Duration : 60 months
7. Project Cost : US\$ 1,800,000
8. Related to Project Aid : Transmigration Second Stage Development Project (TSSDP).
9. Stage of Project Preparation : F/S is needed, considering any future plan of transmigration.

1. Project Title : KERINCI SEBLAT NATIONAL PARK DEVELOPMENT
2. Location : Park areas in the provinces of Jambi, South Sumatra and Bengkulu (about 1,110,000 ha in total).
3. Executing Agency : Directorate General of Forest Protection & Nature Conservation (PHPA).
4. Objectives :
 - To assist PHPA to review, update and implement the management plan prepared and implemented, being based on survey and inventory of the park, and establish zonation.
 - To maintain or enhance the value of the area for tourism development and establishment by improving facilities and preparing a guide map as well as a guidebook.
 - To improve PHPA management capacity and develop professional and vocational expertise to manage the park, through on-the-job training, workshops, study tours and overseas training for selected personnel.
 - To develop a plan for tourism.
 - To develop greater public conservation awareness and establish cooperation among the surrounding communities, through a education outreach programme.
5. Project Description :
 - The project will revise the management plan, taking into account the need for boundary revision and the tourism potential of the park.
 - Equipment will be provided including facilities such as a visitor center, nature trails, guest house, field posts, communication services, vehicles and boats.
 - Park rangers will be trained in monitoring and management skills. And guidance materials will be prepared for an extension programme, aimed at surrounding population.
 - To protect the area from further disturbance, buffer zone projects will be developed in collaboration with local community leaders and NGOs.
 - The project will reconcile human needs with the management objectives of the park, being designed to supply wood and rattan and to generate alternative sources of income for adjacent communities.
6. Project Duration : 4 years
7. Project Cost : US\$ 5,604,000
8. Related to Project Aid : Integrated Conservation & Development Project (ICDP) under GEF (Global Environmental Facility, WB).
9. Stage of Project Preparation : WB has already committed some loan for the same type of project.

1. Project Title : UTILIZATION OF WOOD PROCESSING INDUSTRY RESIDUES
2. Location : 4 selected mills in the southern part of Sumatra.
3. Executing Agency : Directorate General of Forest Utilization (DGFU) in cooperation with Agency for Forestry Research & Development (AFRD), Ministry of Industry, and Forestry Industry Associations.
4. Objectives :
 - To maximize the economic utilization of wood residues generated in wood processing industries through the establishment of satellite wood using industries, integrated or otherwise with residues generating primary processing industries.
 - To improve utilization of residues from primary processing of wood in the sawmilling and plywood industries.
 - To integrated wood-using industries for fuller utilization of raw material.
 - To promote alternative panel products (APP) which can be produced from logging and mill residues.
5. Project Description :
 - This project will study two selected samples of large plywood and two sawmilling plants in the region, and wood residues produced and utilized by them.
 - The study will be undertaken by AFRD staff with wood-technology experience in collaboration with DGFU and the Ministry of Industries.
 - Fellowships will be awarded to staff member of AFRD to visit countries with developed integrated wood industries. Based on experience in other countries and market potential for products based on mill residues, proposals will be made for improved utilization of mill residues.
6. Project Duration : 4 years
7. Project Cost : US\$ 120,000
8. Related to Project Aid : Not yet identified.
9. Stage of Project Preparation : Selection of the appropriate mills is needed.

1. Project Title : RURAL RATTAN DEVELOPMENT FOR SMALLHOLDERS
2. Location : The whole region of the Southern Part of Sumatra.
3. Executing Agency : Directorate General of Reforestation & Land Rehabilitation (RRL), and Inhutanis (state-owned companies in forestry).
4. Objectives :
 - To improve management of rattan resources including: rattan harvesting, collection, handling and transportation from the natural forest by smallholders and/or transmigrants.
 - To establish rattan planting in the forest and forest fringes.
 - To promote primary/intermediate processing of rattan by rural communities with women as the primary beneficiaries.
 - To provide small-scale entrepreneurs with credit facilities for establishing rattan plantation.
5. Project Description :
 - Selected concession areas in the region would be chosen, where rattan is commonly found and where smallholders and/or transmigrants are causing pressure on the natural forest.
 - RRL would assign 2 professional staff and 8 extension agents to the project and would build 2 extension centers distributed in the region with facilities for nursery of rattan, and rattan primary processing.
 - The 8 extension agents would each work with 20 contact farmers who in turn would reach 10 farm families with a rattan training and extension package promoting sustainable rattan production from the forest plus smallholder plantations over a total of some 3,000 ha by year 5 or 600 ha establishment per year.
 - Each family will be allocated 2.5 ha of which 2 ha will be planted with rattan and 0.5 ha used for homestead and other uses.
 - Women would be encouraged to carry out the rattan primary processing as a village-based industry.
6. Project Duration : 5 years.
7. Project Cost : US\$ 5,380,000
8. Related to Project Aid : 1st NES (Nucleus Estate Smallholder)-Rattan Development Project under ADB loan.
9. Stage of Project Preparation : Formal pre-F/S or F/S is needed.

1. Project Title : ESTABLISHMENT OF RESIN-BASED INDUSTRIES
2. Location : Dry mountainous areas above 500 m elevation in the Southern Part of Sumatra.
3. Executing Agency : Inhutanis (state-owned companies in forestry) and the Ministry of Forestry.
4. Objectives :
 - To carry out feasibility study for establishment of pine plantation, of Nucleus Estate Smallholders (NES) type, consisting of 500 ha of nucleus estate by the government and 600 ha by 300 smallholder families.
 - To carry out feasibility study for establishment of a resin processing factory in the region.
 - To establish one resin processing factory in the region.
 - To increase productivity through research and training of field staff and workers, in particular in the new areas selected for resin tapping.
 - To encourage production of higher value-added products from resin, and to adopt better marketing strategies and policies.
5. Project Description :
 - The feasibility studies will be followed-up by actual establishment of 1,100 ha of NES plantation.
 - The project will be implemented through Inhutanis. A new resin processing factory will be established with a 5,000-ton plant in the region.
 - The project will train trainers in new tapping technology known as 'rill method' in the expanded new tapping areas where the new processing factory will be located. Tapping can be done without any damage to tree growth under this method from 11 to 20 years of age when the plantation is to be cut for pulping.
6. Project Duration :
 - Study : 6 months
 - Implementation : 42 months
7. Project Cost :
 - Study : US\$ 9,000
 - Implementation : US\$ 1,485,300
8. Related to Project Aid : Large-Scale Expansion Plans of Perum Perhutani (a State-owned company responsible for the forests on Jawa).
9. Stage of Project Preparation : Formal pre-F/S is needed before the F/S.

1. Project Title : INTEGRATED SOCIAL FORESTRY FOR THE PRODUCTION OF FUELWOOD, FOOD AND OTHER PRODUCTS AS CASH CROPS
2. Location : Highlands in the Southern Part of Sumatra.
3. Executing Agency : Agency for Forestry Research and Development (AFRD).
4. Objectives :
 - To protect highland areas in the region from soil erosion and to meet the demand for fuelwood for cooking and for poles used in fencing.
 - To develop alternatives to the current high rate of fuelwood use such as through testing and introduction of improved stoves.
 - To increase local incomes and general welfare.
 - To train ten foresters in the region, in methods of working collaboratively with communities.
5. Project Description :
 - An agro-forestry expert supported by community action specialists, experienced in integrated rural development, will interact with the community in the project areas to maximize their exposure to improved farming systems and the role of trees in rural economy.
 - This project will involve local people in improved forest management, in an integrated fashion. The focus will be on plantations in protection forest buffer zones, consisting of different combinations of food crops, fuelwood, and other cash crop species, chosen collaboratively with local people.
 - These plantations will be planned so as to protect the soil from erosion, to regulate water flow, to supply sufficient fuelwood and poles for local consumption, and to increase people's incomes by producing additional marketable products.
6. Project Duration : 5 years
7. Project Cost : US\$ 760,000/site
8. Related to Project Aid : Not yet identified.
9. Stage of Project Preparation : F/S is needed.

1. Project Title : REHABILITATION OF CRITICAL WATERSHEDS
2. Location : Critical forest areas in the southern part of Sumatra.
3. Executing Agency : Directorate General of Reforestation and Land Rehabilitation (RRL), Ministry of forestry.
4. Objectives :
 - To review the overall condition of critical forest areas requiring soil conservation measures and select pilot demonstration sites of about 500 ha per province.
 - To develop appropriate technological packages including: (a) survey and studies, (b) soil conservation techniques, (c) forestry and food security, (d) institutional arrangement, and (e) extension techniques.
 - To carry out demonstration activities based on the packages above.
 - To train the selected number of personnel.
5. Project Description :
 - Several agencies and institutions of different sectors are involved in upland conservation, e.g. Public Works, Agriculture, Forestry, Interior and local governments.
 - A project implementation committee will be formed in order to facilitate activities of the project efficiently..The committee will consist of the representatives of all the agencies concerned as above.
 - The project will encourage participation of villagers and NGOs in its activities from design through implementation so that project objectives may be achieved fully and with maximum impact.
6. Project Duration :
 - Study : 1 year
 - Implementation : 5 years
7. Project Cost :
 - Study : US\$ 164,000/province
 - Implementation : US\$ 250,000/province
8. Related to Project Aid : The Regreening Programme carried out in 23 provinces under the government's Repelita VI.
9. Stage of Project Preparation : F/S is needed.

1. Project Title : CENTER FOR INTEGRATED DEVELOPMENT OF SHIFTING CULTIVATORS
2. Location : Areas having the highest density of shifting cultivation in the southern part of Sumatra.
3. Executing Agency : The Ministry of Forestry
4. Objectives :
 - To compare known and better farming systems of shifting cultivation with intensive high input agriculture supplemented with off-farm income earning activities at the project sites for developing appropriate models for rationalization of shifting cultivation.
 - To institutionalize collection and dissemination of information of shifting cultivation gathered by various ministries and other bodies.
 - To train selected personnel through study tours abroad and local seminars.
 - To institutionalize access to family planning among shifting cultivators to improve social welfare.
5. Project Description :
 - The project will carry out a survey of areas and people involved in shifting cultivation including socio-economic surveys and identify representative areas the project sites having density of shifting cultivators, taking into consideration market accessibility and ecological situation.
 - Among many shifting cultivator groups, women are active in agro-forestry and other income-generating activities. So the needs of women in the community are to be incorporated as an essential component of the project.
 - The Ministry of Forestry, the leading agency of this project, will form an Inter-Ministry Coordinating Committee (IMCC) consisting representatives of all the government agencies concerned with aspects of shifting cultivation, to attain better results through better coordination of field activities.
6. Project Duration : 5 years
7. Project Cost : US\$ 3,180,000
8. Related to Project Aid : Not yet identified.
9. Stage of Project Preparation : A detailed F/S is needed.

1. Project Title : WATER QUALITY PROTECTION MANAGEMENT
2. Location : Provincial capitals, and the downstreams of Batang Hari (Jambi) and Musi (South Sumatra) Rivers.
3. Executing Agency : Environmental Impact Control Agency (BAPEDAL) and the State Ministry for Population & Environment (KLH), in cooperation with the Provincial Agencies for Population & Environment (BKLH).
4. Objectives :
 - To apply water quality standards, and promote early introduction of environmental impact assessment.
 - To strengthen monitoring plans and evaluation systems to check water pollution due to upstream industries such as coal/gold mining and food processing as well as market/waste disposal.
 - To put the system into initial implementation to improve and conserve the water quality of important main river downstreams and drainage systems of the capitals.
5. Project Description :
 - Indonesian laws and regulations on water quality will be reviewed. They include EIA guidelines, effluent discharge and quality standards, land use regulations and others.
 - Existing data, study reports, and organizations related to water quality and management will be examined for their present quality and expected functions relevant to the project.
 - An environmental monitoring and evaluation system will be designed and implemented.
 - A data processing system will be established, consisting of data related to natural conditions and socio-economic conditions. Relationships between these different kinds of data will change over times as will be monitored.
6. Project Duration : 2 years
7. Project Cost : US\$ 5,000,000
8. Related to Project Aid :
 - Nationwide Clean River Programme (PROKASIH) supported by Canada, Australia, Germany, USA, Belgium, Japan, UNDP and WB.
 - Integrated Urban Infrastructure Development Programme (IUIDP) supported by ADB.
9. Stage of Project Preparation : F/S is needed.

1. Project Title : ESTABLISHMENT OF IDEP MANAGEMENT UNIT (IMU)
2. Location : Jambi, Palembang and Bandar Lampung (for Tk. I), Kuala Tungkal, Palembang, Lubuk Linggau/Lahat, Manna, Kota Bumi and Bandar Lampung/Kalianda (for Tk.II).
3. Executing Agency : BAPPEDA Tk.I and Tk.II
4. Objectives :
- To coordinate the central, provincial and kabupaten /kotamadya governments and foreign donor agencies in preparing and implementing the IDEP programs / projects
 - To assess, revise and prepare the annual and multiyear IDEP programs / projects, and submit them to the National and Local Steering Committee for IDEP (NSCI and LSCI)
 - To take bugetary measures and identify fund sources for the IDEP
 - To improve and strengthen institutional and financial capabilities in the provincial and kabupaten / kotamadya governments
 - To monitor the progress / results of the excuted IDEP programs / projects and evaluate them
5. Project Description :
- The project comprises of :
- For each IDEP, six IMUs and six IMU IIs are established as a functional unit inside BAPPEDA Tk.I (Jambi, South Sumatra, Bengkulu and Lumpung) and inside BAPPEDA Tk. II (Tanjung Jabang, Palembang, Lubuk Linggau / Lahat, Bengkulu SElatan, Kota Bumi and Bandar Lampung / Kalianda), respectively. Each IMU and IMU II is staffed with ten and five Indonesian staff workers including a high-qualified unit manager, respectively. For the purpose of strengthen the unit, the project assists each IMU and IMU II for 10 years mainly by means of providing the salary of the Indonesian staff workers.
 - To assist each IMU and promote the implementation of the IDEP programs and projects, this project dispatches a regional development expert to each unit for a period of 5 years. The experts residing in BAPPEDA Tk. I take care of both IMU and IMU II. The cost for this component includes the provision of personal computers and other necessary equipments.
 - For BAPPEDA Tk. I and II staff, this project provides some training programs aiming at strengthening their capability of project management, financial management, intersectoral planning, etc.
6. Project Duration :
- IMU : 10 years
 - Experts : 5 years
7. Project Costs :
- IMU :US\$ 1,200,000
 - Experts :US\$ 9,300,000
8. Related to Project Aid : None
9. Stage of Project Preparation : None

1. Project Title : LAND RESERVATION AND TITLING SUPPORT
2. Location : Provincial capitals
3. Executing Agency : BAPPEDA Tk.I in co-ordination with BPN (National Land Board)
4. Objectives :
 - To reserve land for certain uses to facilitate the undertaking of developmental projects
 - To raise significantly the number of farmers in the province who have formal title to the land they currently cultivate under traditional (adat) use-rights
 - To develop the capacity of Province and Kabupaten level staff to implement and/or monitor quickly and effectively procedures for formal land registration and titling in co-ordination with BNP
5. Project Description :
 - Spatial Planning and Land Reservation
 - Establish spatial plans for Kabupaten and Province concerned
 - Designate land to be preserved for certain uses
 - Land Titling
 - Review of existing mechanisms for land registration and titling at province and kabupaten levels including the roles and responsibilities of BAPPEDA I, BNP I and BAPPEDA II staff (3 months foreign expert)
 - Preparation of a Plan of Action to streamline procedures, including monitoring, and train staff in their effective implementation (included in above)
 - Implement the recommendations (periodic input over 5 years - to be determined in Plan of Action)
6. Project Duration : 5 years
7. Project Cost :
 - Spatial Planning :US\$500,000 (per Plan)
 - Review, Plan preparation :US\$ 75,000
 - Implementation :US\$300,000 (est)
8. Related to Project Aid : None
9. Stage of Project Preparation : None

1. Project Title : SWAMPLAND TECHNOLOGY INSTITUTE
2. Location : Undetermined
3. Executing Agency : Bandung Institute of Technology (ITB), BPPT
4. Objectives : - To promote the adoption of appropriate technologies in the swamplands of Indonesia (and of Southeast Asia generally) in a manner consistent with national development objectives by providing guidance and training to all levels of government.
- To conduct practical research in various disciplines in problems and potentials of swamplands and river basins of Indonesia to develop technologies suited to their preservation and sustainable exploitation.
- To achieve a cross-fertilization of knowledge in areas including transportation, agriculture, water resource management, environmental preservation and industrial development.
5. Project Description : - The Institute initially can reside within a sponsoring institution such as the ITB, BPPT or the Universitas Sriwijaya (Palembang) requiring a minimum of new resources.
- Foreign funding from ASEAN, the ADB, UNDP or the FAO, for example can probably be secured. Backing from ASEAN would be appropriate since many member nations could benefit from the technological output of such an institute. Singaporean support is a possibility in view of that nation's vested interest in the development and prosperity of Southeast Asia.
- Two or three core disciplines can be selected and developed and a plan devised for later introduction of other disciplines. Possible initial core disciplines are transportation, water resources management and agriculture, followed later by areas such as fisheries and environmental protection of plant and animal life.
- A grant from a foreign development agency can be awarded to a sponsoring agency such as a university, ITB or BPPT to assess the feasibility for such a polytechnic institute, to formulate a plan defining purpose, required resources and implementation, and to secure long term funding from supporting agencies in Indonesia and abroad.
6. Project Duration : - Study :2 years
- Implementation :Long term (undetermined)
7. Project Cost : Initial grant of US250,000
8. Related Aid Projects : None
9. Stage of Project Preparation : Assessment of need required

Part 4 Project Long Lists

1. AGRICULTURE

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
General					
A-1	Wholesale Market Development	Region	T, I (F)	<ul style="list-style-type: none"> - Study on the wholesale marketing system - Establishment of market facilities in major cities - Institution building (municipal governments and private sector) 	M
Food Crops					
A-2	On-Farm Land Development	Bengkulu Selatan, Lahat, Lampung Selatan	F	<ul style="list-style-type: none"> - Training of kabupaten officers in charge of on-farm land development - Organization of farmers for self-help activities - Provision of necessary equipment and supplies 	H
A-3	High Altitude Horticulture Development	Rejang Lebong (Bengkulu), Lahat (South Sumatra), Lampung Barat (Lampung), Kerinci (Jambi)	T, F	<ul style="list-style-type: none"> - Organization and training of farmers for joint marketing - Marketing facilities for collecting, sorting, packing and storage (including cold storage) - Market information services - Establishment of revolving funds for production credit 	H
A-4	Upland Cropping Systems Development in Hilly Areas	Lampung Barat, Selatan and Utara, Lahat, OKU, Rejang Lebong, Kerinci	T, F	<ul style="list-style-type: none"> - Analysis of land use - Identification of suitable cropping system, including conservation measures (inter-cropping with tree crops, agroforestry, terracing etc.) - Establishment of demonstration plots 	H
A-5	Tidal Swamp Cropping Systems Development	MUBA (South Sumatra)	T, F	<ul style="list-style-type: none"> - Analysis of existing Pasang Surut land use - Identification of suitable cropping systems, including on-farm land development - Establishment of demonstration plots 	M

Notes:

Suggested Type of Implementation indicates:

R: Government self-financed ("Rupiah project")

T: requires technical assistance

F: requires financial assistance

I: private investment

Priority is indicated as:

H: high M: medium L: low

Shaded projects are IDEP components. Bold letter projects are prefeasibility projects.

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
A-6	Cropping Systems Development in Marginal Upland Areas	Four Provinces	T, F	<ul style="list-style-type: none"> - Analysis of existing land use - Identification of suitable cropping systems with poultry/small livestock and/or fruit tree components - Establishment of demonstration plots 	M
A-7	Inland Swamp Cropping Systems Development	OKI (South Sumatra)	T, F	<ul style="list-style-type: none"> - Analysis of existing lebak/payo land use - Identification of suitable cropping systems, including on-farm land development - Establishment of demonstration plots 	L
A-8	Post-harvest Technology Improvement (paddy, palawija)	Four Provinces	T	<ul style="list-style-type: none"> - Study of existing technologies and identification of improvements 	M
A-9	Strengthening of Provincial Seed Multiplication and Distribution Systems (paddy, palawija)	Four Provinces	T, F	<ul style="list-style-type: none"> - Improvement of nurseries - Provision of equipment - Organization and training of seed farmers 	H
A-10	Strengthening of Extension Centers (BPP)	Four Provinces (Mainly under-serviced kabupatens)	F	<ul style="list-style-type: none"> - Improvement of facilities and equipment - Strengthening of the outreach programs 	L
A-11	Study of Vegetable and Fruit Marketing	Region	T	<ul style="list-style-type: none"> - Analysis of existing marketing practices and horizons - Identification of promising crops relative to regional and outside markets 	M
A-12	Development of Cold Storage Facilities in Urban Markets	Major Cities	I	<ul style="list-style-type: none"> - Improvement of quality of perishables in storage 	L
<i>Estate Crops</i>					
A-13	Development of Smallholder Estate Crops	Four Provinces	F	<ul style="list-style-type: none"> - New planting and replanting - Organization and training of farmers 	H
A-14	Smallholder Tree Crop Marketing Development	Four Provinces	T, F	<ul style="list-style-type: none"> - Study of existing on-farm processing and marketing practices at the sites of PMUs and PRPTEs - Organization and training of farmers in quality improvement and joint marketing - Improvement of farmers' facilities (KUD) 	M

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
A-15	Strengthening of Institutional Supports for Smallholder Estate Crops	Four Provinces	T, F	<ul style="list-style-type: none"> - Study on existing sites of PMUs and PRPTEs and inventory of facilities - Improvement of facilities (nurseries and demonstration plots) and training of field staff 	M
A-16	Nucleus Estate and Smallholder Development	Mainly in South Sumatra, Jambi	I	<ul style="list-style-type: none"> - Participation of the smallholders in the estate development 	H
A-17	Large Scale Estate Development	Four Provinces	I	<ul style="list-style-type: none"> - Establishment of large-scale estates 	H
<u>Livestock/Poultry</u>					
A-18	Strengthening of Veterinary and Artificial Insemination Services	Four Provinces	T, F	<ul style="list-style-type: none"> - Expansion and improvement of facilities and services - Staff training 	M
A-19	Beef Cattle Breeding Centers	Four Provinces	T, F	<ul style="list-style-type: none"> - Strengthening of Provincial breeding capacities and regional network development - Training of extension workers farmers 	M
A-20	NES-type Beef Cattle Farming Development	Four Provinces	I, R	<ul style="list-style-type: none"> - Establishment of commercial cattle fattening farms - Organization and training of cattle-raising farmers - Organization and training of fodder producing farmers 	M
A-21	Development of Commercial Poultry Farms	South Sumatra, Jambi	I	<ul style="list-style-type: none"> - Increased production of broilers and layer eggs 	H
A-22	Improvement of Slaughter Facilities and Cold Storage in Urban Centers	Major Cities	I	<ul style="list-style-type: none"> - Improvement of meat marketing and processing 	L
A-23	Poultry and Small Livestock Development in Marginal Areas	Four Provinces	T, R	<ul style="list-style-type: none"> - Distribution of chickens and goats - Organization and training of farmers in animal/poultry raising and fodder and feed production 	L

2. FISHERIES

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
Batang Hari River Basin Fisheries Development Project					M
B-1	Batang Hari River Basin Stock Assessment Survey	Batang Hari (Jambi)	T	- Fish stock assessment (to be included in the comprehensive master plan study)	
B-2	Oxbow Lakes Fishery Development	Batang Hari (Jambi)	F	- Lake rehabilitation - Restocking of fry - Fish cage culture	
Coastal Fisheries Management Project					H
B-3	Coastal Fishery Resource Inventory Management and Enhancement	Tanjung Jabung (Jambi)	T	- Preparation of data base inventory - Preparation of resource management model	
B-4	Artificial Reef Development	Tanjung Jabung (Jambi)	F	- Creation of new fishing grounds and sanctuary areas - Development of appropriate fishing gears	
B-5	Aquaculture Demonstration Farms	Alang-alang, Nipahpanjang, Air Hitam, Kualatunkal (Jambi)	F	- Establishment of model shrimp/fish farms - Shellfish culture experiment	
KUD-Based Fish Processing and Marketing Promotion Project					L
B-6	Pilot-scale Fish Processing Units	Kerinci/Bungo Tebo (Jambi) Pangkalpinang (South Sumatra) Kodya Bengkulu (Bengkulu) Lampung Tengah (Lampung)	F	- Establishment of pilot-scale fish processing units	
B-7	KUD-based Fish Marketing Promotion	Bangka (South Sumatra) Lampung Selatan (Lampung)	P	- Establishment of ice plant and storage - Supply of marketing equipment	

Notes:

Suggested Type of Implementation indicates:

R: Government self-financed ("Rupiah project")

T: requires technical assistance

F: requires financial assistance

I: private investment

Priority is indicated as:

H: high M: medium L: low

Shaded projects are IDEP components. Bold letter projects are prefeasibility projects.

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
Brackishwater Shrimp Culture Industrialization Project					M
B-8	Brackishwater Shrimp Culture Industrialization	Bangka (South Sumatra) Tanjung Jabung (Jambi) Lampung Tengah/Selatan (Lampung)	I, F	<ul style="list-style-type: none"> - Promotion of brackishwater shrimp farming industry (NES scheme) - Rehabilitation of the existing traditional tambak (promotion of KUD-based tambak management) - Expansion of shrimp hatchery in Kalianda - Construction of shrimp hatchery in Pulau Berhala 	
Freshwater Giant Prawn Culture Development Project					M
B-9	Freshwater Giant Prawn Culture Development	Musi Rawas/Lahat/O.K.U. (South Sumatra)	I or F	<ul style="list-style-type: none"> - Promotion of freshwater giant prawn farming 	
B-10	Freshwater Giant Prawn Hatchery and Feed Plant	Bengkulu	I or F	<ul style="list-style-type: none"> - Establishment of fresh-water giant prawn hatchery 	
Fishing Village Community Development Project					L
B-11	Fishing Boats Motorization	Bengkulu Lampung Barat	F	<ul style="list-style-type: none"> - Supply of outboard engines and maintenance service 	
B-12	Fishing Village Community Development	Ipuh, Manna (Bengkulu)	F	<ul style="list-style-type: none"> - Establishment of fishermen's centers; KUD office, auction hall, workshop, meeting room, fuel storage, ice plant storage, etc. - Coastal line protection from sea erosion 	
Offshore Fisheries Development Project in Western Waters					H
B-13	Purse Seine Fishery Development	Pulau Baai (Bengkulu)	I	<ul style="list-style-type: none"> - Construction of 10-20 G/T Purse Seiners - Establishment of ice plant and storage - Training of fishermen 	
B-14	Krui Fish Landing Center (PPI)	Krui (Lampung)	F	<ul style="list-style-type: none"> - Establishment of new fish landing center including basic onshore facilities; auction hall, slipway, workshop, office, meeting hall, etc. 	
B-15	Small-Scale Tuna Fishery Development	Krui (Lampung) Pulau Baai (Bengkulu)	I	<ul style="list-style-type: none"> - Construction of 10-20 G/T tuna long-line fishing boats - Establishment of ice plant and storage - Training of fishermen 	

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
B-16	Fish Aggregating Device	Pulau Bani, Manna (Bengkulu) Kotaagung, Krui (Lampung)	F	- Installation of FAD	
Mariculture Development Project					L
B-17	Mariculture Development	Lampung	F	- Improvement of seed distribution network - Supply of culture materials - Coral reef rehabilitation - Pilot-scale caragenan processing plant	
Swamp Fishery Development Project					L
B-18	Swamp Fishery Development	Musi Banyuasin, O.K.I. (South Sumatra) Lampung Utara (Lampung) Tanjung Jabung (Jambi)	T, F	- Strengthening of activities and facilities related to research, demonstration, extension services for swamp fishery - Restocking of fry - Fish cage/pen/pond culture - Swamp fishery management	
Freshwater Aquaculture Infrastructure Improvement Project					L
B-19	Freshwater Fish Hatchery Technical Development	South Sumatra Jambi Lampung	T	- Technical guidance for seed production of high-value species - Improvement of hatching equipment	
B-20	Aquaculture Water Supply Stabilization	South Sumatra Jambi Lampung	T, F	- Improvement of sub-canal system	
Fisheries Education and Training Project					M
B-21	Upgrading of KUD's Management Capability	Whole Region	T, R	- Promotion of friendship association between Indonesian and Japanese fishery cooperative societies - Provision of local scholarship program at desa level	
B-22	Fisheries Senior High School (SPP Perikanan)	Kota Agung (Lampung)	F	- Establishment of SPP for creation of appropriate human resources for fisheries development in the southern part of Sumatra	

3. INDUSTRY

No.	Project Title	Location	Suggested Type of Implementation	Description	Priority
Public Sector					
C-1	Survey of Present Processing Situation	All provinces	T	- Cooperation with KADIN and industrial associations	M
C-2	Investigation of Natural Resources	All provinces	T	- Basic step for "resource-oriented processing industry"	H
C-3	Investigation of Improving Processing	All provinces	T	- Dispatch a study team to neighbouring countries	M
C-4	Development of Industrial Estates	Lampung South Sumatra	F	- Intensive development of infrastructure in limited area	H
C-5	Upgrading of Institutes of R & D in Industry	South Sumatra, Lampung	F	- Modernization and upgrading of equipment and buildings	H
C-6	Improvement of Vocational Training Centers	All provinces	T, F	- Strengthening the function of BLK and KIK	H
C-7	Establishment of Market Information Center	All provinces	T	- Cooperation with BPEN and KADIN	M
C-8	Improvement of IIS and Institutional Financing	Nation	T	- Improvement of related systems	H
C-9	Promotion of Establishing Linkages	All provinces	T	- Areal, inter-industrial and within industry linkage	M
C-10	Investment Promotion	All provinces	T	- Both for domestic and foreign investors	H
C-11	Organizing the Public Agency	All provinces	T	- Banded operation of BKPMs of four provinces	M
Private Sector					
C-12	Meat Processing	Lampung	I	- Supply processed products to Java and the "Growth Triangle"	L

- Notes:
- 1) Suggested Type of Implementation indicates:
 - R: Government self-financed ("Rupiah project")
 - T: requires technical assistance
 - F: requires financial assistance
 - I: private investment
 - 2) In "Description" M denotes that the project was already listed in "Location of Basic Industry of Indonesia (July, 1988)," by Ministry of Industry
 - 3) Priority is indicated as:
 - H: high
 - M: medium
 - L: low
 - 4) Shaded projects are IDEP components. Bold letter projects are prefeasibility projects.