

D5. BASIC DOCUMENTS

The basic document prepared in the preparatory period and in the course of the Study were compiled here as listed below.

- D5.1 Scope of Work (Preparatory Study Team)
- D5.2 Minutes of Meeting (Preparatory Study Team)
- D5.3 Minutes of Meeting on Inception Report
- D5.4 Minutes of Meeting on Progress Report
- D5.5 Minutes of Meeting on Interim Report
- D5.6 Minutes of Meeting on Implementation of 2nd Stage Study
- D5.7 Decree of EIA Evaluation Commission
- D5.8 Minutes of Meeting on Draft Final Report

D5.1 Scope of Work (Preparatory Study Team)

SCOPE OF WORK

FOR

**THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN
LIMBOTO-BOLANGO-BONE BASIN, NORTH SULAWESI
IN THE REPUBLIC OF INDONESIA**

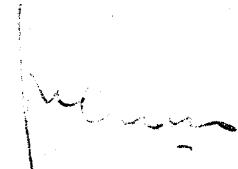
AGREED UPON BETWEEN

**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

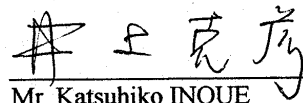
AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY

JAKARTA, February 22, 2001



Dr. Ir. Soenarno, Dipl. HE
Director General
Directorate General of Water Resources
Ministry of Settlement & Regional Infrastructure



Mr. Katsuhiko INOUE
Leader
Preparatory Study Team
Japan International Cooperation Agency

I. INTRODUCTION

In response to the request of the Government of the Republic of Indonesia (hereinafter referred to as "the Government of Indonesia"), the Government of Japan decided to conduct the Study for Flood Control and water management in Limboto-Bolango-Bone Basin, North Sulawesi in The Republic of Indonesia (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan. Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Republic of Indonesia.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. To formulate a master plan of sustainable flood control and water management plan in Limboto-Bolango-Bone Basin in Indonesia,
2. To conduct the feasibility study on the priority project(s), and
3. To transfer technology to counterpart personnel in the course of the Study.

III. STUDY AREA

The Study will cover the areas in Limboto-Bolango-Bone Basin in Indonesia (The study area map is shown in the Annex-1)

IV. SCOPE OF THE STUDY

Phase I Formulation of Master Plan

<First Stage>

1. Collection and analysis of existing data and information;
 - a) Physical conditions (meteorology, topography, geology, etc.),
 - b) Topographical, geological and soil data,
 - c) Land use data,
 - d) Related development plans and policies,
 - e) Socio-economic conditions (population, industries, land use, social infrastructure, economic conditions, etc.),
 - f) Records of inundation and flood damage data,
 - g) Current conditions of flood control facilities,
 - h) Institutions and organizations on flood control and land & water conservation, operation & maintenance, following the macro policy of Government of Indonesia,
 - i) Legislation and regulations concerned with flood control management,
 - j) Situation of flood control management, and
 - k) Measures of flood protection at community level.
2. Assessment of existing flood protection plan:
 - a) Activities of Government of Indonesia,
 - b) Limboto-Bolango-Bone Basin Water management Master Plan (CIDA), and
 - c) Related activities of other agencies, donors and NGO etc.

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3. Field reconnaissance
 - a) River conditions,
 - b) Current conditions of flood control facilities,
 - c) Land use, and
 - d) Awareness of the residents for the flood measures and flood protections at community level.
4. Field survey and Investigation
 - a) River survey including longitudinal and cross sectional profiles,
 - b) Sediment monitoring, and
 - c) Flood and inundation survey.
5. Examination and analysis
 - a) Hydrological analysis,
 - b) Flood flow analysis, and
 - c) Analysis and evaluation of flood control facilities plan.

<Second Stage>

6. Formulation of planning framework,
7. Establishment of basic policies of Master Plan,
8. Formulation of master plan,
9. Human resources training and development,
10. Operation and management plan,
11. Cost estimation,
12. Initial Environmental Examination (IEE),
13. Evaluation of master plan:
 - a) Technical evaluation,
 - b) Economic evaluation,
 - c) Social evaluation, and
14. Selection of priority project(s).

Phase II Feasibility study on the priority project(s)

1. Supplementary data collection and field survey,
2. Facility Plan,
3. Construction Plan,
4. Organization for operation and maintenance plan including institutional framework,
5. Human resources development,
6. Cost estimation,
7. Environmental Impact Assessment (EIA),
8. Project evaluation:
 - a) Technical aspects,
 - b) Financial aspects,
 - c) Social aspects, and
 - d) Economical aspects.
9. Project implementation plan

V. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the tentative schedule as attached in the annex-2.

VI. REPORTS

JICA shall prepare and submit the following reports in English to the Government of Indonesia.

1. Inception Report:
Twenty (20) copies at the commencement of the study in Indonesia.
2. Progress Report:
Twenty (20) copies at the end of the first stage of phase I in Indonesia.
3. Interim Report:
Twenty (20) copies at the end of the second stage of phase I in Indonesia.
4. Draft Final Report:
Twenty (20) copies at the end of Phase II work in Indonesia.
The Government of Indonesia shall submit its comments within one (1) month after receipt of the Draft Final Report.
5. Final Report:
Thirty (30) copies within one (1) month after JICA's receipt of the comments on the Draft Final Report.

VII. UNDERTAKINGS OF THE GOVERNMENT OF INDONESIA

1. To facilitate the smooth conduct of the Study, the Government of Indonesia shall take necessary measures:
 - (1) To secure the safety of the Japanese study team (hereinafter referred to as "the Team"),
 - (2) To permit the members of the Team to enter, leave and sojourn in Indonesia for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
 - (3) To exempt the members of the Team from taxes, duties, fees and any other charges on equipment, machinery, vehicles, and other materials brought into Indonesia for the conduct of the Study,
 - (4) To exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study,
 - (5) To provide necessary facilities to the Team for the remittances as well as the utilization of the funds introduced into Indonesia from Japan in connection with the implementation of the Study,

- (6) To secure permission for the Team to enter into private properties or restricted areas for the conduct of the Study,
 - (7) To secure permission for the Team to take all data and documents including photographs and maps related to the Study out of Indonesia to Japan, and
 - (8) To provide medical services as needed. Its expenses will be charged to members of the Team.
2. The Government of Indonesia shall bear claims, if any arise, against the members of the Team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.
 3. Directorate General of Water Resources, Ministry of Settlement and Regional Infrastructure shall act as a counterpart agency to the Team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
 4. Directorate General of Water Resources shall at its own expense, provide the Team with the following, in cooperation with other organizations concerned:
 - (1) Available data and information related to the Study,
 - (2) Counterpart personnel,
 - (3) Suitable office space with necessary equipment,
 - (4) Necessary vehicles with drivers, fuel and spare parts for carrying out the Study, and
 - (5) Credentials or identification cards.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

1. To dispatch, at its own expense, the Team to Indonesia, and
2. To pursue technology transfer to Indonesia counterpart personnel in the course of the Study.

IX. CONSULTATION

JICA and Directorate General of Water Resources, Ministry of Settlement and Regional Infrastructure, will consult with each other in respect of any matter that may arise from or in connection with the Study.

Tentative Schedule

ANNEX 1

| Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------|------|---|---|---|-----|---|---|---|------|----|----|----|----|------|----|-----|
| Schedule | | | | | | | | | | | | | | | | |
| | Δ | | | | Δ | | | | Δ | | | | | Δ | | Δ |
| | IC/R | | | | P/R | | | | IT/R | | | | | DF/R | | F/R |

IC/R: Inception Report
P/R: Progress Report
IT/R: Interim Report

DF/R: Draft Final Report
F/R: Final Report

附页

D5.2 Minutes of Meeting (Preparatory Study Team)

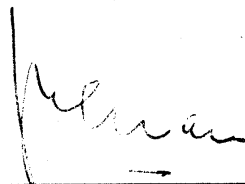
**MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN
LIMBOTO-BOLANGO-BONE BASIN, NORTH SULAWESI
IN THE REPUBLIC OF INDONESIA**

AGREED UPON BETWEEN

**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

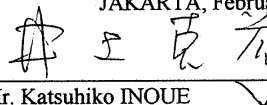
AND

THE JAPAN INTERNATIONAL COOPERATION AGENCY



Dr. Ir. Soenarno, Dipl. HE
Director General
Directorate General of Water Resources
Ministry of Settlement & Regional Infrastructure

JAKARTA, February 22, 2001



Mr. Katsuhiko INOUE
Leader
Preparatory Study Team
Japan International Cooperation Agency

In response to the request of the Government of the Republic of Indonesia (hereinafter referred to as "the Government of Indonesia"), the Government of Japan decided to conduct the Study for Flood Control and water management in Limboto-Bolango-Bone Basin, North Sulawesi in The Republic of Indonesia (hereinafter referred to as "the Study") through the Japan International Cooperation Agency (hereinafter referred to as "JICA").

The Preparatory Team (hereinafter referred to as "the Team") headed by Mr. Katsuhiko Inoue, visited the Republic of Indonesia from February 11 to February 24, 2001, where field reconnaissance was carried out and a series of meetings was held in connection with Draft Scope of Work with Directorate General of Water Resources, Ministry of Settlement and Regional Infrastructure (hereinafter DGWR), and other authorities concerned (See Appendix-1; Minutes of Meeting Between The Chairperson of BAPPEDA, North Sulawesi Province and JICA Preparatory Study Team on the Study and Appendix-2; Minutes of Meeting Minutes Between The Head of Water Resources Development, North Sulawesi Province and JICA Preparatory Study Team on the Study)

The list of attendants is shown in the Annex-1.

This document sets forth the main issues discussed in the course of the preparation of S/W for the purpose of better understanding for S/W.

1. Steering Committee

DGWR agreed on the necessity of establishing steering committee for this Study, which shall function as an ultimate coordination authority and indicate a proper direction of the Study whenever required. The Committee shall be organized under the responsibility of DGWR, and the participating members shall include representatives from Central Government, Gorontalo Province, North Sulawesi Province and other related organizations. The results of the Study shall be presented in the committee, and final authorization of the reports will be made at the committee.

2. Decree from DGWR

DGWR agreed to issue a decree to North Sulawesi and Gorontalo Provincial Government to provide engineering staffs, office space with suitable equipment and any related data/documents to augment any supports to the Study team.

3. Financial Support

Government of Indonesia shall provide financial support related to Item 2 mentioned above through DGWR. The Government of Indonesia expressed that due to budgetary and administrative constraints, it would be difficult to provide appropriate number of vehicles. The Team recognized the situation and agreed to convey this issue to JICA Head Quarter for consideration.

4. Capacity Building

Both DGWR and the Team agreed on the necessity to carry out a capacity building in this Study through the feasibility study performed by Indonesian side on some urgent flood control measures. The JICA Study team shall provide necessary technical advice and financial support including site investigation work.

It was agreed by the both parties that counterpart training in Japan shall be an integral part of the

transfer of technology in the capacity building, and therefore shall be better served by personnel from Provincial governments.

5. Public Consultation

Both parties agreed on the necessity of implementing public consultation in this Study. Implementation of public consultation shall be under the responsibility of local government (head of local organizations), and the JICA Study team shall provide necessary information during the course of the Study. JICA's assistance on preparation of river management regulation is an important component of the public consultation, and DGWR acknowledged that preparation of river management regulation is a prerequisite for its selection for future implementation.

6. Report Presentation

Because of the reason why the present governmental situation, DGWR required having enough discussion for report preparation at each phase/stage between two parties during the course of the Study.

The Team understood this requirement and accepted to record this issue in this minute.

Annex-1 List of Attendance

(Indonesian side)

Ministry of Settlement and Regional Infrastructure

Directorate of Technical Guidance

Ir. Marhuarar Napitupulu

Mr. Bambang Hargono (Sub-Directorate of Raw Water, River, Reservoir and Lake)

Mr. Pudjartono (Chief of Section of River and Raw Water)

Directorate of Water Resources Management,

Mr. Raymond Kemur (Sub-Directorate of Basin Water Resources Planning)

(Japanese Side)

Preparatory Study Team

Mr. Katsuhiko INOUE (Leader)

Mr. Akira NIWA (Sub-leader)

Ms. Yuko EBIHARA (Study Planning)

Mr. Kunio ARAI (Hydraulics / Hydrology)

Mr. Fumio FUKUDA (Drainage Planning)

JICA Expert

Mr. Motoharu YOKOMORI

Mr. Fumihiko ISHIZAKA

Handwritten signature and initials.

**Minutes of Meeting
Between
The Chairperson of BAPPEDA, North Sulawesi Province and JICA
Preparatory Study Team on
The Study on Flood Control and Water Management in
Limboto-Bolango-Bone Basin**

1. Background

Several years ago the Mayor of Gorontalo met the President of Indonesia, Mr. Habibie, requesting the president to help solve the flood problem in Gorontalo. An integrated solution to Flood Problem in Gorontalo has not been carried out since coronial time. Based on CIDA Water Resources Management Master Plan, the Mayor asked the help of the president of the follow up of the flood control implementation. It was then the president ordered the Minister of Public Works to follow it up. The Minister visited the province of North Sulawesi and the site (Gorontalo and Limboto) and followed up by Director General of Water Resources Development. The Director General of Water Resources Development prepared a proposal document for the Government of Japan to assist in financing the Flood Control Works. The Government of Japan, through JBIC, financed limited urgent flood control works in North Sulawesi especially in Gorontalo city. The implementation was done through the Flood Control Project of the Provincial Water Resources Service of North Sulawesi. However, for a proper and comprehensive solution of Gorontalo Flood Problem, the Government of Japan assists Indonesia through JICA to conduct a study entitled "the Study on Flood Control and Water Management in Limboto-Bolango-Bone Basin"(hereinafter called as "the Study") for about 16 months before construction of the required flood control structures.

2. Discussion on Counterparts

JICA Team visited North Sulawesi Province to finalize the formulation of scope of works of the Study. However, as the decentralization and autonomy spirit is now taking place, a number of groups of Kabupaten want to be a separate province from the existing provinces. Gorontalo is one of the cases, which already accepted by national parliament. A temporary Governor for the new province of Gorontalo will be inaugurated by Minister of Home Affairs this coming Friday, 16th February 2001. The Governor for the time being will be alone without staff. As we understand the number and qualification of the water related human resources in Gorontalo is very limited to fulfill the function or to run the water resources activities properly. Now, as it becomes a new province, more human resources are required especially at the level of planning and design capability. Up to now, the planning and design activities for water resources development in Gorontalo have been and are still executed by the staff of provincial Water Resources Service of North Sulawesi. Most likely, due to the facts and present condition, in the future, these types activities will still be done through Water Resources Service (SDP; Sub Dinas Pengairan) of North Sulawesi.

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JICA would like to see counterparts from Indonesian side coming more from the provincial level and some from Kabupaten as well as Municipality level and limited number from Jakarta. However, it seems that it will be a big problem to implement the study (or for the success of the study) during this transitional period of decentralization if provincial water resources related engineers are not included in the counterpart team.

3. Actions by Provincial BAPPEDA of North Sulawesi

North Sulawesi Provincial BAPPEDA shall prepare a letter of Governor of North Sulawesi to the new Governor of Gorontalo on the subject as follows;

- (1) In order to ensure the successful execution of the Study, the Government of North Sulawesi will provide the Gorontalo province necessary information and required assistance should any problems arise.
- (2) Due to the limited number and especially qualified engineers in Planning & Design, the government of North Sulawesi provides/assigns several water related engineers from Water Resources Service in Manado to work and assist the Japanese consultant in executing the works. The engineers will be those who were involved in the previous work in preparing the Limboto-Bolango-Bone Basin Water Resources Master Plan. They will work as counterpart.
- (3) Copy of the letter will be sent to JICA Mission.
- (4) Have a discussion on public consultation after the preparatory team has field trip to Gorontalo.

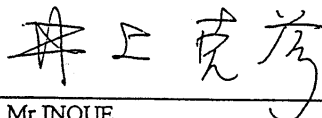
4. Agreement

Both heads of North Sulawesi BAPPEDA and of JICA preparatory Study Team agreed to with each other on February 16th, 2001 to sign on this minute.

A list of those who attended the meeting is shown in Annex-1.



Mr. J. Saruan
Chairman, BAPPEDA,
North Sulawesi Province



Mr. INOUE
Leader
Preparatory Study Team
Japan International Cooperation Agency

Annex-1

(Indonesian side)

BAPPEDA, North Sulawesi Province

Mr. J. Saruan (Chairperson)

Mr. D.F. Poluan (staff)

Mr. Halomoan Pakpahan (staff)

Ms. Ria Dunggio (staff)

Directorate of Water Resources Management,

Ministry of Settlement and Regional Infrastructure

Mr. Raymond Kemur (Sub-Directorate of Basin Water Resources Planning)

Water Resources Service, Province of North Sulawesi (PENGAIKARAN)

Mr. Bistok Sigalingging, MSc

Mr. Hendrik Wauran

Mr. Dave J.I. Muchaimin

(Japanese Side)

Preparatory Study Team

Mr. Katsuhiko INOUE (Leader)

Mr. Akira NIWA (Sub-leader)

Ms. Yuko EBIHARA (Study Planning)

Mr. Kunio ARAI (Hydraulics / Hydrology)

Mr. Fumio FUKUDA (Drainage Planning)

Mr. Fumihiko ISHIZAKA (JICA Expert)

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**Minutes of Meeting Between
The Head of Water Resources Development, North Sulawesi
Province and
JICA Preparatory Study Team on
The Study on Flood Control and Water Management in
Limboto-Bolango-Bone Basin**

The Preparatory Team for the Study on Flood Control and Water Management in Limboto-Bolango-Bone Basin (hereinafter referred to as "the Team"), headed by Mr. Katsuhiko Inoue, carried out the field reconnaissance and a series of meetings was held with Head of Water Resources Development, North Sulawesi (Sub Dinas Pengairan in Manado, North Sulawesi, hereinafter referred to as "SDP") in connection with Scope of Work (hereinafter referred to as "S/W") of the Study on Flood Control and Water Management in Limboto-Bolango-Bone Basin (hereinafter referred to as "the Study") and the Minutes of Meeting between The Chairperson of BAPPEDA, North Sulawesi Province and JICA Preparatory Study Team on The Study.

The draft of S/W proposed by the Team was discussed in detail between SDP and the Team on February 19th and 20th, 2001. Following are the results of discussion, which should be noted.

The list of attendants is shown in the Annex-1.

1. Steering Committee

In order to conduct the Study smoothly, both SDP and the Team understand the necessity of a steering committee, which will indicate proper direction of the Study, when required.

This committee is expected to be organized by Directorate General of Water Resources (hereinafter referred to as "DGWR"), and consists of Central Government, Gorontalo Province, North Sulawesi Province and other related organization. The authorization of the Reports will be done by Steering Committee.

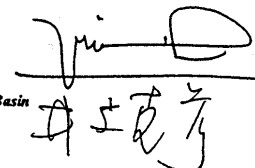
2. Decree from DGWR

A decree is required from DGWR to provide necessary engineering staff and office space with suitable equipments, data etc. SDP also mentioned that it is difficult to provide electricity, vehicles and telephone at its own expense. The team agreed on this requirement and will convey the requirements to DGWR.

3. Capacity Building

In this Study, capacity building to the counterpart personnel will be especially carried out through the implementation of feasibility study on urgent flood control project mainly by Indonesian side. The JICA Study Team will provide necessary advice and support.

Minutes of Meeting between SDP and the Team for The Study on Flood Control and Water Management in LBB Basin



Further, SDP requested that JICA conduct counterpart training in Japan as well as on the job training for the purpose of the smooth transfer of technology during the Study. The Team agreed to convey this request to the JICA Head Quarters for consideration.

4. Public consultation

Public consultation will be held by local government (Head of local organizations) at least three times during the course of the Study, those are;

- 1) Inception,
- 2) Master Plan formulation and
- 3) Draft Final Report

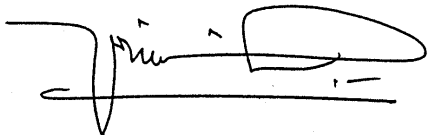
The Study Team will assist the activity by providing necessary information and explanation of the Reports. The procedure of implementing public consultation shall be decided on the steering committee.

5. Assistance on River Management Regulation

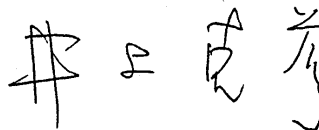
SDP requested to the Team to include the preparation of a River-Area-Management Regulation. The Team agreed on the necessity and will convey to JICA Head Quarters.

6. Agreement

Both Head of SDP and the Team Leader of JICA preparatory Study Team agreed to with each other on February 20th, 2001 to sign on this minute.



Mr. Johannes O. Kaligis, Ir, MEngSc.
Head of Water Resources Development
North Sulawesi Province



Mr. Katsuhiko INOUE
Leader
Preparatory Study Team
Japan International Cooperation Agency

Annex-1 List of Attendance

(Indonesian side)

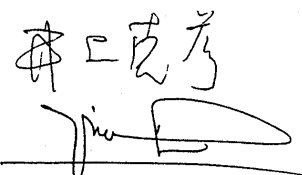
Directorate of Water Resources Management,
Ministry of Settlement and Regional Infrastructure
Mr. Raymond Kemur (Sub-Directorate of Basin Water Resources Planning)

Water Resources Service, Province of North Sulawesi (PENGAIKARAN)
Mr. Johannes O. Kaligis, Ir, MEngSc.
Mr. Bistok Sigalingging, MSc

(Japanese Side)

Preparatory Study Team
Mr. Katsuhiko INOUE (Leader)
Mr. Akira NIWA (Sub-leader)
Ms. Yuko EBIHARA (Study Planning)
Mr. Kunio ARAI (Hydraulics / Hydrology)
Mr. Fumio FUKUDA (Drainage Planning)

JICA Expert
Mr. Motoharu YOKOMORI
Mr. Fumihiko ISHIZAKA
JICA Indonesia Office
Ms. Lingga Kartika

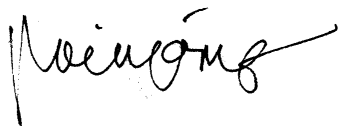


D5.3 Minutes of Meeting on Inception Report

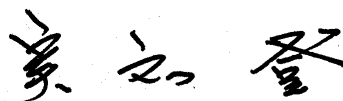
**MINUTES OF MEETINGS
OF
DISCUSSIONS ON INCEPTION REPORT
FOR
THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO-BOLANGO-BONE BASIN
IN THE REPUBLIC OF INDONESIA**

**AGREED UPON BETWEEN
DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE
AND
JAPAN INTERNATIONAL COOPERATION AGENCY**

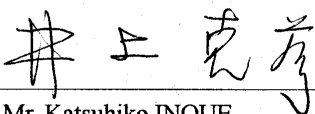
Manado, June 27, 2001



Dr. Ir. Roestam Sjarief, MNRM
Director, PSDA,
Ministry of Settlement
and Regional Infrastructure



Mr. Noboru JITSUHIRO
Team Leader, JICA Study Team,
Japan International Cooperation Agency



Mr. Katsuhiko INOUE
Chairman, Advisory Committee,
Japan International Cooperation Agency

**MINUTES OF MEETINGS
OF DISCUSSIONS ON INCEPTION REPORT
FOR THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO-BOLANGO-BONE BASIN
IN THE REPUBLIC OF INDONESIA**

1. **Inception Report:** The JICA Study Team for the Study on Flood Control and Water Management in Limboto-Bolango-Bone Basin in the Republic of Indonesia (the Study Team) submitted twenty (20) copy of the Inception Report (the Report) to the Directorate General of Water Resources Development (DGWRD), and the Report was explained to and discussed with the DGWRD in Jakarta on 22 June 2001 and the Steering Committee for the Study in Manado on 27 June 2001. Attendants to these meetings are listed in ATTACHMENT-1.

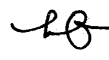


The Inception Report was accepted in principle, by the Steering Committee.
Major comments and points of discussion are briefed as follows:

Comprehensive Flood Mitigation

- 1) A comprehensive approach for flood mitigation is important, especially for non-structural measures like land use regulation and conservation of natural retarding areas, in consideration of regional development plan and zoning.
- 2) Water quality of Lake Limboto and flora and fauna in the Study Area should be studied carefully. The proposed dam projects include environmental issues. For example, a species of eel is identified in the rivers in the Study Area.
- 3) Lake Limboto is used for the fishermen, while surrounding areas of the lake are used as fertile farmlands. A careful study must be made to decide design lake water levels, when the lake is proposed for flood storage.
- 4) There is a comment that the clogging of river mouth by river sediment or littoral drift may cause to raise the flood water level in the upstream reaches.

Public Consultation

- 1) Objectives of the public consultation proposed by the Study Team are

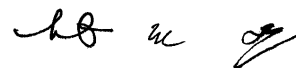
accepted. In addition, public education and awareness through the public consultation should also be included.

Capacity Building

- 1) Sustainable flood mitigation measures are also one of key requirements of the Project by development of the capacity of the local government and communities, centered on the preventive measures with community-based development. Technical guidance to the urgent small-scale project would contribute much to this.
2. **Steering Committee:** The Directorate General of Water Resources (DGWR) of the Ministry of Settlement and Regional Infrastructure (KIMPRASWIL) is the executing agency for the Study, and organized Steering Committee for the Study with officials from central government and provincial governments of Gorontalo and North Sulawesi as shown in ATTACHMENT-2.
3. **Counterpart Personnel:** The DGWR also organized Counterpart Team for the Study with the staff of Water Resources Development Services (WRD Services) of Gorontalo and North Sulawesi provinces as shown in ATTACHMENT-3. Counterpart personnel is an integral part of capacity building, and actual assignment program of each counterpart personnel will be determined in the course of the Study.

Gorontalo Province has no budget this year to cover travel fee and allowance for their counterpart. The Gorontalo Province requested the DGWR to provide budget for this. The Team will discuss this matter with Director General of Water Resources at the wrap-up meeting.

4. **Arrangement of Office for the Study Team:** Office for the Study Team will be prepared in WRD Services of North Sulawesi Province in Manado and office in Gorontalo will be provided by DGWR project. The Manado office will be used as a main office of the Study Team since most of the data required for the Study are currently available in Manado. The Gorontalo office will be used for field survey and investigation.



The GOI will provide the Study Team with office space and basic office equipment/facilities as follows:

| Item | Quantity | Unit Cost (Rp.) | Ceiling Amount (Rp.) |
|--------------------------------|----------|--------------------|-------------------------|
| Desk | 10 | 200,000 | 2,000,000,000 |
| Chair | 15 | 100,000 | 1,500,000 |
| Meeting table | 1 | 150,000 | 150,000 |
| Chair | 5 | 100,000 | 500,000 |
| Book cupboard / filing cabinet | 5 | 350,000 | 1,750,000 |
| AC | 2 | 3,500,000 | 7,000,000 |
| Copy machine | 1 | 20,000,000 | 20,000,000 |
| Fax machine | 1 | 1,500,000 | 1,500,000 |
| Computer | 1 | 12,500,000 | 12,500,000 |
| Rent car | 14months | 3,000,000 | 42,000,000 |
| Car operation & maintenance | 14months | 1,000,000 | 14,000,000 |
| Telephone | 7months | 500,000 | 3,500,000 |
| Electricity | 7months | 500,000 | 3,500,000 |
| Office rent | 7months | 1,500,000 | 10,500,000 |

(END)

ATTACHMENT-1
(1/3)

HARAP DIISI SELENGKAPNYA DAN DITINGGAL DI RUANG SIDANG

DAFTAR HADIR RAPAT

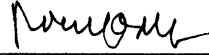


RUANG SIDANG : JATI LUHUR
 ACARA : PRESENTATION: STUDY FLOOD CONTROL & WATER MGT IN LBB BASIN
 HARI / TANGGAL : Friday, 22 June 2001
 JAM : 13.30
 PIMPINAN : Head for Basin Water Res. Planning, Directorate PSDA

| NO | NAMA | JABATAN | INSTANSI | TELEPON | TANDATANGAN |
|----|--------------------------------|------------------------------|----------------|---------|-----------------|
| 1 | Raymond Kemur | Kasubdit Perenc. Wab. Sungai | Dit. PSDA | 7221907 | Raymond |
| 2 | Djurniprono | Kas.ogram. PHS | Dit. PSDA | | Djurniprono |
| 3 | Dwi Puryanto | Kesi. I, ABSWD. | Dit. SDA Timun | | Dwi Puryanto |
| 4 | Jumam Agur | Kasubdit CT Tim. | Dit. SDA Tim. | 7395500 | Jumam Agur |
| 5 | Anon Kio | STAF | - " - | - " - | Anon Kio |
| 6 | Arti Partono | Staf. Dit Binket | Dit Binket | - | Arti Partono |
| 7 | ISHIZAKA Fuminiko | JICA Expert | JICA | 7229588 | ISHIZAKA |
| 8 | KOBAYASHI Makoto | JICA study team | | | 小林 真 |
| 9 | Kono Hiroaki | JICA STUDY TEAM | | | 河野 宏昭 |
| 10 | Suparman | JICA study team | | | Suparman |
| 11 | Masayuki SHIRAIISHI | " | " | | Shiraiishi |
| 12 | ARAKI Hideki | " | " | | 荒木 秀樹 |
| 13 | Noboru JITSUMIRO | " | " | | 吉住 伸 |
| 14 | Bambang Haryono (Part only) | KSD AAS DW | Dit Binket | | Bambang Haryono |
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ATTACHMENT- 1
(2/3)

**DAFTAR HADIR
RAPAT DENGAN TIM JICA**

Hari / tanggal : Rabu, 27 Juni 2001

| NO. | N A M A | JABATAN | TANDA TANGAN |
|-----|---------------------------------|--------------------------|---|
| 1 | DR. Ir. ROESTAM SJARIEF, MNRM. | DIREKTUR PSDA |  |
| 2 | DR. Ir. LUCKY SONDAKH, MSc. | KEPALA BAPELITBANG SULUT |  |
| 3 | DR. Ir. NELSON POMALINGGO, MSc. | KETUA BAPPEDA GORONTALO |  |
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**DAFTAR HADIR
RAPAT DENGAN TIM JICA**

ATTACHMENT- 1
(3/3)

Hari / tanggal : Rabu, 27 Juni 2001

| NO. | N A M A | JABATAN | TANDA TANGAN |
|-----|-------------------|----------------------------|--------------------------|
| 1 | F.B. Napuan | Kadis SDA Sulnt | <i>Napuan</i> |
| 2 | Muljono | " RW Kimpras | <i>Muljono</i> |
| 3 | H.F. SAMPOUR. | WAKADU. SDA. | <i>Sampour</i> |
| 4 | J.O. Kalgis | Staf SDA | <i>J.O. Kalgis</i> |
| 5 | Jantje Lousay | Dinas PUK Hlo | <i>Jantje Lousay</i> |
| 6 | SUGIARTO. | Kasubdin PSDA Gorontalo | <i>Sugiarto</i> |
| 7 | Bisrok S | limp PSAPB | <i>Bisrok S</i> |
| 8 | R. TOEMANDOK | KASUBDIN CP | <i>R. Toemandok</i> |
| 9 | KINDANGEN S.A. | BAPELITBANG | <i>Kindangen S.A.</i> |
| 10 | L.J. LIWOSO | " " | <i>L.J. Liwoso</i> |
| 11 | A.G. Kawaku | " " | <i>A.G. Kawaku</i> |
| 12 | K. Batutaute | " " | <i>K. Batutaute</i> |
| 13 | Jost L. Rumanpuk | " " | <i>Jost L. Rumanpuk</i> |
| 14 | DAVE MUCHAIMIN | DINAS SDA | <i>Dave Muchaimin</i> |
| 15 | Judy. Widagdo. | Sub Dis SRP | <i>Judy. Widagdo.</i> |
| 16 | Raymond Kemur | KSP Perane. Wil. Suga | <i>Raymond Kemur</i> |
| 17 | Makoto KOBAMA | JICA Study Team | <i>Makoto Kobama</i> |
| 18 | Masayuki SHIRASHI | " | <i>Masayuki Shirashi</i> |
| 19 | Hiroaki Kono | " | <i>Hiroaki Kono</i> |
| 20 | ISHIZAKA Fumihiko | JICA Expert | <i>F. Ishizaka</i> |
| 21 | HOSHI Hirofumi | ARR, JICA Indonesia office | <i>H. Hoshi</i> |
| 22 | AKIRA NIWA | JICA Advisory Comm. | <i>A. Niwa</i> |
| 23 | Katsuhiko IINOUE | " | <i>K. Inoue</i> |
| 24 | Noboru JITSUHIRO | JICA Study Team | <i>N. Jitsuhiro</i> |
| 25 | Hideki ARAKI | " | <i>H. Araki</i> |
| 26 | | | |