

# **JRAGUNG TUNTANG BWRMU ANNUAL REPORT YEAR 2004**

## **TABLE OF CONTENTS**

### **1. SUMMARY**

- 1.1. General
- 1.2. Narbo Activities
- 1.3. Topics

### **2. ORGANIZATION**

- 2.1. Objectives
- 2.2. History
- 2.3. Organization structure
- 2.4. Financial
- 2.5. Project

### **3. NARBO ACTIVITIES**

### **4. TOPICS**

- 4.1. Flood
- 4.2. New Project

## **1. SUMMARY**

### **1.1. General**

BWRMU Jragung Tuntang is one of the Technical Implementation Unit of Water Resources Development Service Central Java Province and establish in 1998.

The main duty is operation and maintenance for Irrigation system and structure  
The finance to sustain the activity is allocated from Central Java Province budget ( local government budget )

Total employee in 2004 is 257 persons

### **1.2. Narbo Activities**

BWRMU Jragung Tuntang was participated on :

- (a). First general meeting of NARBO, February 24 to 26, 2004 in Batu East Java, Indonesia.
- (b). NARBO members consultation of R.B.O bench marking, November 29 to 30, 2004 in Batu East Java, Indonesia.

### **1.3. Topics**

- (a). Flood  
Big flood occurred in February 2004 at middle part of Tuntang River, and the impact was levee failure in 3 location
- (b). New project  
Flood management in selected river basin project ( FMSB ) activity done by DHV Consultant for Jragung Tuntang River Basin in April to November 2004. The Objective is feasibility study to solve flood & drought in this area

## **2. ORGANIZATION**

### **2.1. OBJECTIVE**

Basin Water Resources Management Unit ( BWRMU ) Jragung Tuntang is one of the BWRMU under Water Resources Development Service Central Java Province ( Dinas Pengelolaan Sumber Daya Air Provinsi Jawa Tengah )

Jragung Tuntang River Basin is located in Central Java Province while the service area covering 6 Kabupatens ( district autonomy government ) and 2 kota ( city autonomy government ). This Basin has a watershed of 4.300 square km, covers eighteen “ crossed district boundary” rivers of 620 km total length, and seven “ crossed district boundary” irrigation system of 31.083 ha. Annual precipitation deph is 3.000 mm per year in the mountaineous range and 2,500 mm in the lowland.

The Land Use of the basin is 32.6 % for rice field, 23.0 % for dry land, 21.7 % for forest, 15.13 % for housing and 7.4 % others.

Avarage annual flow of water in the basin is 5.62 billions cubic meter, used for agriculture is 1.72 billions cubic meter, Domestic – Municipal – Industries is 0.05 billions cubic meter and waste to the sea is 3.85 billion cubic meter. Potential flooded area is 50.500 ha while rate of sedimentation up to 80 ton/ha/year in Jragung Tuntang

## Physical feature and present social figures of the Jragung Tuntang River Basin

### Location

<u>Administrative location</u>	: 108°30' and 111°30' eastern longitude 5°40' and 8°30' southern latitude
<u>District and city in the river basin</u>	: 6 District ; Batang, Kendal, Demak, Grobogan, Semarang, Temanggung 2 Cities ; Semarang City and Salatiga City

### River and River Basin Area

Number of rivers and length	: 18 rivers and 620 km
River Basin Area	: 4.300 sq km

### Surface Water Availability

Avarage Precipitation	: 3.000 mm / year
Surface run off coefficient	: 0.6
Surface Water Availability	: 5.62 Bm <sup>3</sup>

### Irrigation

Irrigation Area	: 31.083 ha
Cropping Intensity	: 1.7
Irrigation Water	: 1.720 mm <sup>3</sup>

### Water Supplay

Domistic municipal Indrustry	: 50 mm <sup>3</sup>
Hydro Power	: 24.000 kwh

### Inundatian Area

Inundatian Area	: 50.500 ha
-----------------	-------------

### Socio Economy Condition

Central Java Population ( 2003 )	: 31.6 million
River Basin Population (estimated 2003 )	: 5.72 million

### Regional Gross Domestic Products

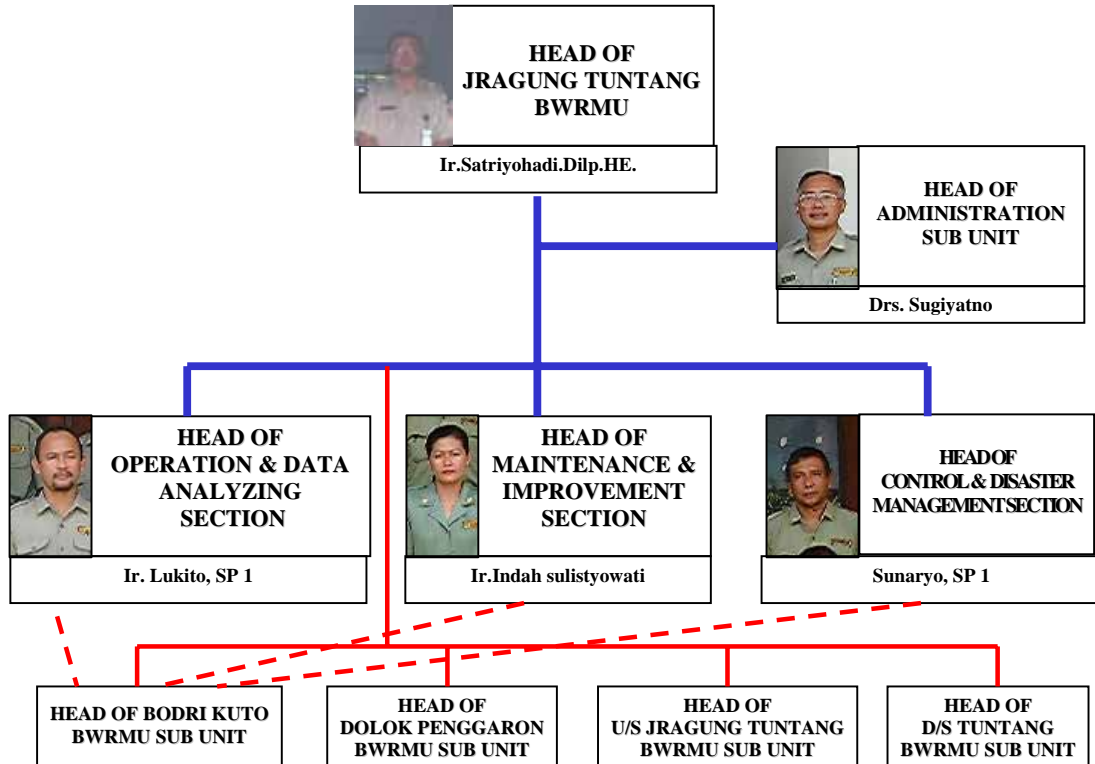
Central Java ( 2003 )	: Rp. 156 Trillion
-----------------------	--------------------

## **2.2. HISTORY**

BWRMU Jragung Tuntang was established on 1998 based on region rule of the Central Java Province ( Peraturan Daerah ) No.04 Year 1998 dated February 25, 1998, At that time in Central Java Province consist of 8 BWRMU'S and then in year 2002 was change to 6 BWRMU'S, Based on region rule of Central Java Province ( Peraturan daerah ) No. 01 year 2002 dated April 2, 2002. And the office address is Jl. Madukoro Blok AA – BB No. 1 C Semarang.

## 2.3. ORGANIZATION STRUCTURE

### 2.3.1. JRAGUNG TUNTANG BWRMU ORGANIZATION STRUCTURE



### 2.3.2 STAFF / EMPLOYEE

a. The total number of staff / employee on year 2004 is 237 persons consist of 177 person is Government Official ( Pegawai Negeri ) or around 67 % and the other 60 persons is Non Government Official ( Harian Lepas ) or around 33 %.

b. The background education the government official are :

Graduated degree 22 person consist of :

Civil engineer	: Post graduate = 6
	Graduate = 9
Economist	: 2
Law degree	: 2
Political degree	: 2
English degree	: 1

Bachelor degree 16 persons consist of :

English degree	: 15
Non technical bachelor	: 1
<u>High school to primary school</u>	<u>139 persons</u>

## 2.4. FINANCIAL

The finance sources for Jragung Tuntang BWRMU activities is come from Province Central Java Budget ( Anggaran Pendapatan dan Belanja Daerah Provinsi Jawa Tengah ) Implementation of Activities was year by year is called fiscal year budget. The budget validity is from January till December

Total budget for 2004 fiscal year is Rp. 3.118.244.000,- and the composition as bellow :

- Administration Sub unit : Rp.829.786.000,-
- Operation & analyzing section : Rp.234.500.000,-
- Maintenance & improvement section : Rp.1.799.800.000,-
- Control & disaster management section : Rp.248.300.000,-

## 2.5. PROJECTS

### a). The main duty of Jragung Tuntang BWRMU

- Operation and maintenance for irrigation system & structure
- Coordination with Regional Government ( Kabupaten ) specially to solve the irrigation system problem
- To produce the hydrological data, to arrange water allocation for the farmer, to monitor water quality of the river
- To publish permission of taking surface water ( to the people or other ).
- To publish permission of land tax ( the land which is belonging to the Water Resources Development Service Central Java Province )
- Flood and drought management

### b). The outline of implementing project ( fiscal year 2004 )

#### Contracted implementation

- Budget : Rp.567.995.000,-
- Number of packages : 4
- The objective : maintenance of river and main irrigation canal

#### Self implemented ( swakelola )

- Budget : Rp.795.551.300,-
- Number of packages : 30
- The objective : Maintenance of secondary irrigation canal, river flood plain, demolish water hyacinth

## 3. NARBO ACTIVITIES

BWRMU Jragung Tuntang carried out the activity following in 2004 :

- (a). Participated of Asian River Basin Organization ( NARBO ) from February 24 to 26, 2004 in BATU, MALANG east Java Indonesia.
- (b). Participated the NARBO members Consultation of R.B.O bench marking activity from November 29 to 30, 2004 in BATU, MALANG, East Java Indonesia.

## 4. TOPICS

### 4.1. Flood

In February 2004 big flood occurred at middle part of Tuntang River ( The Biggest River ). The capacity of River discharge is around 800 m<sup>3</sup>/s and the

flood coming with discharge around 1100 m<sup>3</sup>/s. The effect was levee failure at 3 location ( Village's Tri Sari, Papan Rejo, Ginggang Tani ) all of these levee failed already repaired in year 2004.

4.2. Sedimentation

Mostly rivers and irrigation canals at BWRMU Jragung Tuntang has sedimentation problem. The average sediment thickness in the River and Irrigation 0,30 meter/year

4.3. New project

There was flood management in selected river basin project ( FMSB ) activity in 2004. the objective of this activity is problem solving ( feasibility study ) for flood, drought surrounding Jragung Tuntang River's area.

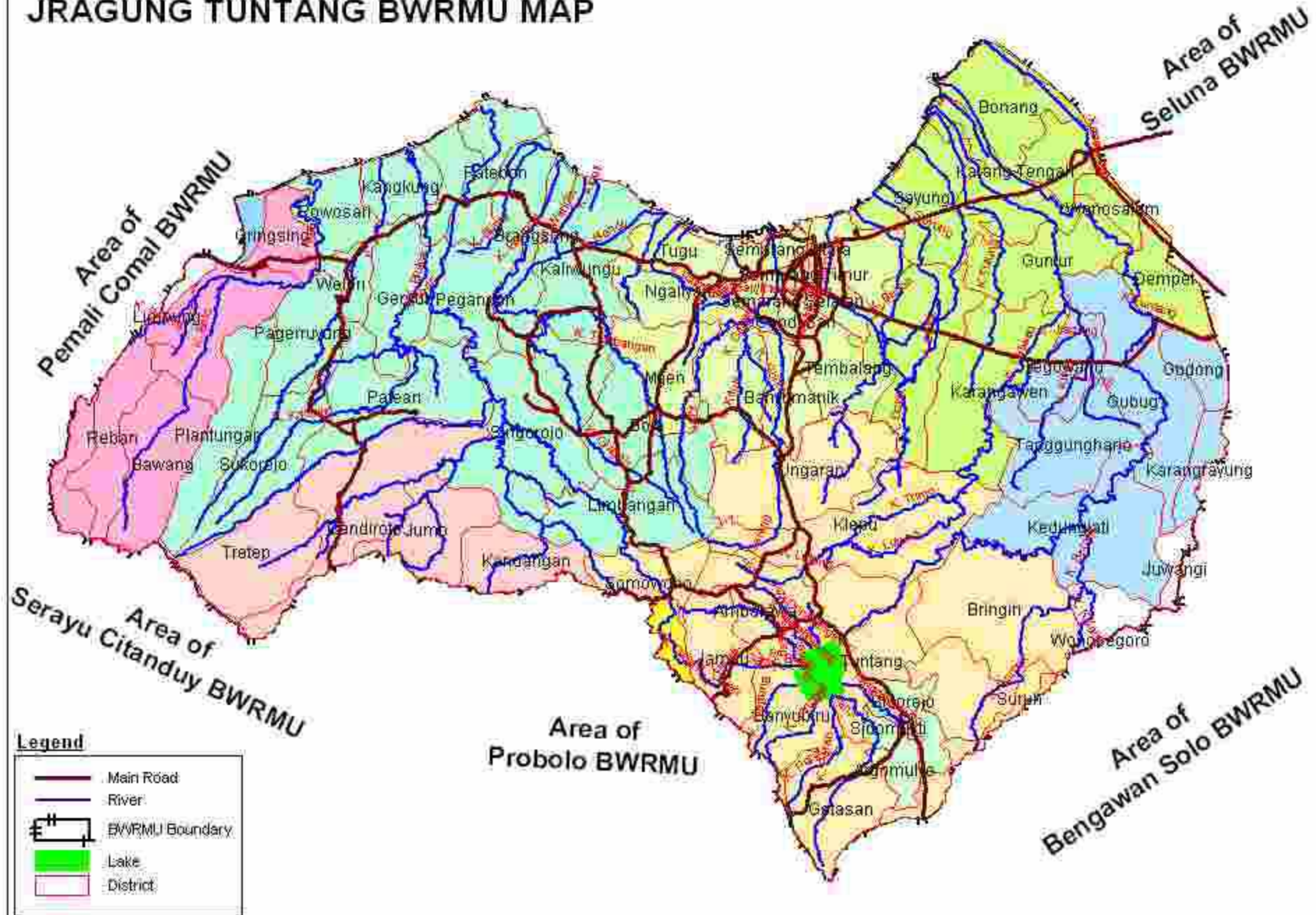
The activity done by DHV Consultant from April to November 2004, and budget come from ADB grant. ADB will give loan for Implementation work (Construction etc) in 2005.

Semarang, March 30, 2005






Head Of  
Jragung Tuntang BWRMU

( Ir. Satriyohadi, Dilp. HE )

# JRAGUNG TUNTANG BWRMU MAP



## Legend

-  Main Road
-  River
-  BWRMU Boundary
-  Lake
-  District

# JAVA ISLAND MAP



## Legend

- Point
- +— Province Boundary
- BMRMU Jragung Tumpang Area
- River
- Road