

## Inventory Survey of Check Dams in the Intensive Area

Inventory ID No.

CD - 4

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Survey Date **22-Nov-00**

### 1) Location

Name of the Dam

**Roong**

Coordinate

**01°15'57"**

**N**

**124°53'32"**

**E**

**Tounsaru, Sub-district Tondano**

### 2) History

Year of construction

**1982/1983**

Government agency

**BRLKT**

### 3) Catchment Area

Sub-watershed No.

**5**

Name of the Downstream River

**Tounsaru**

Catchment area

**100** ha

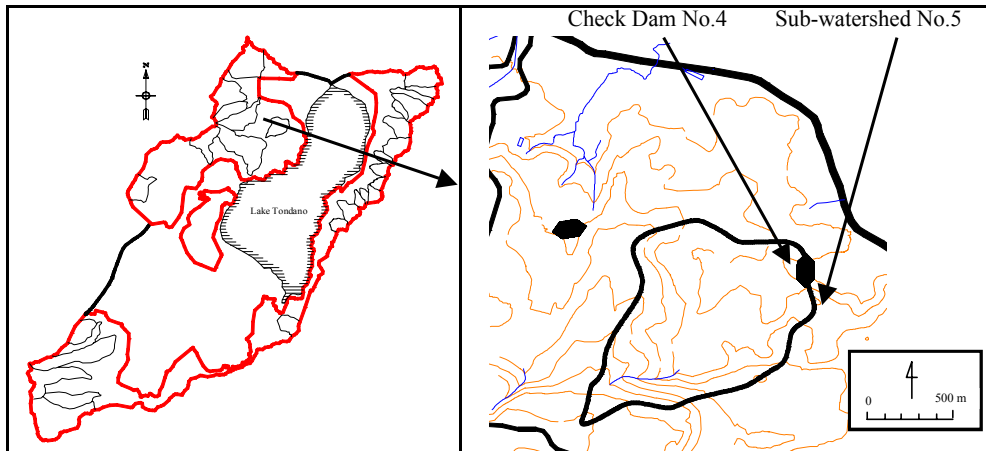
Estimated original river gradient

**4.8** %

Landuse of the upstream

**Forest**

Plan



### 4) Dam Body

Dam Type

**Earth Fill Dam**

Crest Length

**40.0** m

**Dam Pengendali**

Crest Width

**3.5** m

D/S Slope

**1:2.5** -

Dam Height

**4.5** m

Note :

D/S = Downstream

View from downstream



Condition



**The Study on Critical Land and Protection Forest  
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Japan International Cooperation Agency

**Figure HAT3.5**

**Inventory Survey of Existing Check Dam  
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### 5) Spillway

Spillway Bed Width **4.0** m  
Spillway Height **1.0** m

Material **Wet Masonry**

View of spillway

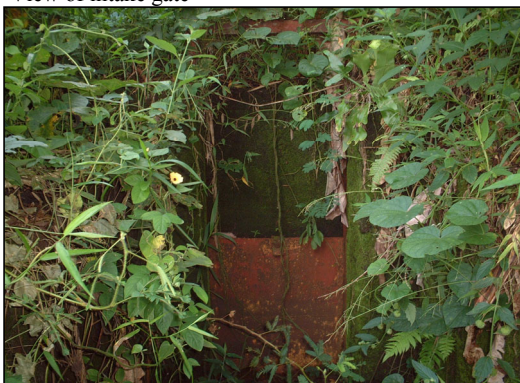


Condition

### 6) Intake Gate

Type **Sluice Gate**

View of intake gate



Condition

### 7) Water Supply

Intention for Water Supply **Yes**  
Purpose of Water Supply **Irrigation**  
Present Land Use of the Downstream **Grassland**  
Condition of Irrigation Facilities **Not Functioning**

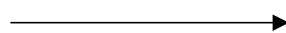
### 8) Sedimentation

Status of Sediment Control **Functioning**  
Deposition Gradient **0.5** %  
Sedimentation Yield **2,800** m<sup>3</sup>  
**2.0** ton/ha/year

Assumed Apparent-specific Gravity of Soil = 1.3 ton/m<sup>3</sup>

### 9) Dam Lake

General View of Dam Lake



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**Figure HAT3.5**

**Inventory Survey of Existing Check Dam  
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