

Inventory Survey of Check Dams in the Intensive Area

CD - 10

Page 1/2

Survey Date **06-Nov-00**

1) Location

Name of the Dam **Tounelet**
 Coordinatate **01°07'57"** N **124°50'21"** E
 Name of the Location **Tounelet, Sub-district Langowan**

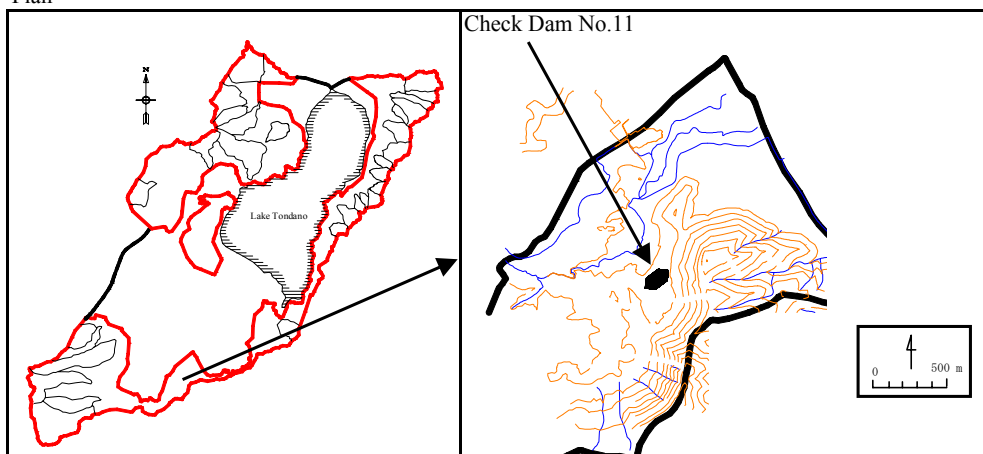
2) History

Year of construction **1997/1998**
 Government agency **District Forest Service**

3) Catchment Area

Sub-watershed No. **-**
 Name of the Downstream River **-**
 Catchment area **19** ha
 Estimated original river gradient **8.0** %
 Landuse of the upstream **Forest/Arable Upland**

Plan



4) Dam Body

Dam Type **Earth Fill Dam** Crest Length **40.0** m
Dam Pengendali Crest Width **3.5** m
 D/S Slope **1:1.75** - Dam Height **4.5** m

Note :
 D/S = Downstream

View



Condition

**The Study on Critical Land and Protection Forest
 Rehabilitation at Tondano Watershed
 in the Republic of Indonesia**

Japan International Cooperation Agency

Figure HAT3.11

**Inventory Survey of Existing Check Dam
 (CD-10) (1/2)**

Inventory Survey of Check Dams in the Intensive Area

CD - 10

Page 2/2

Survey Date **06-Nov-00**

5) Spillway

Spillway Bed Width **1.2** m
Spillway Height **0.6** m

Material **Wet Masonry**

View of spillway



Condition

6) Intake Gate

Type **Sluice Gate**

View of intake gate



Condition

7) Water Supply

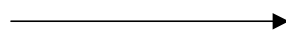
Intention for Water Supply	Yes
Purpose of Water Supply	Irrigation
Present Land Use of the Downstream	Paddy Field
Condition of Irrigation Facilities	Unknown

8) Sedimentation

Status of Sediment Control	Functioning
Deposition Gradient	N/A %
Sedimentation Yield	N/A m ³
	N/A ton/ha/year

9) Dam Lake

General View of Dam Lake



**The Study on Critical Land and Protection Forest
Rehabilitation at Tondano Watershed
in the Republic of Indonesia**

Japan International Cooperation Agency

Figure HAT3.11

**Inventory Survey of Existing Check Dam
(CD-10) (2/2)**