



DAM BREAK ANALYSIS AND EMERGENCY ACTION PLAN



EGAT

DAM BREAK ANALYSIS and EAP (Emergency Action Plan)

Scope of services

1. Topographic survey by the surveying camera, echo sounder and global navigation satellite system to collect data for analysis
2. Analysis of all possible cases of dam break and analysis of water flow from the dam break downstream (reservoir routing and dynamic flood routing)
3. Preparation of a flood map, affected areas and areas for evacuation
4. Preparation of data in geographic information system (GIS) from the dam break model
5. Study the impact and analysis of loss of life and property which may occur as a result of the dam break
6. Preparation of emergency action plan with clearly defined steps and explanation so that the dam owner can communicate, warn and notify the organizations responsible for emergency downstream

Dam Break Analysis

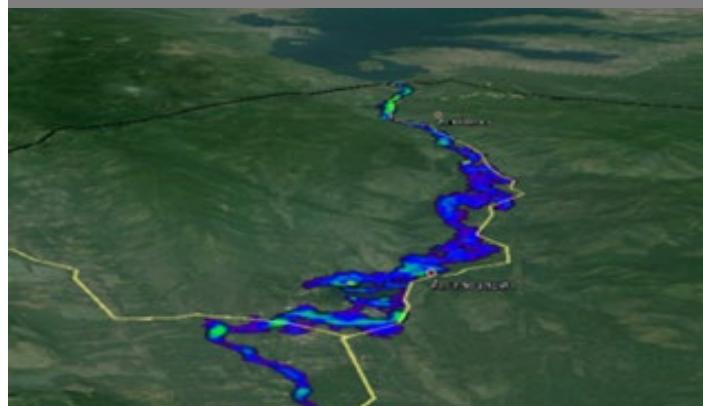
The purpose of the dam break analysis is to analyze the impact which may occur in the case of damages of dam such as the water seepage through dams, displacement of slope failure or dam break in order to prepare the flood map. The flood map which is prepared in accordance with the Guidelines of the International Commission on Large Dams (ICOLD) and the US Federal Emergency Management Agency (FEMA) consists of the flood level and the flooding time in each area. The map will show the result in geographic information system (GIS) which is useful for preparing the emergency action plan (EAP) and database for public disaster management.

Emergency Action Plan (EAP)

Emergency action plan constitutes a part of security and safety process of the dam and a part of disaster management measure. The preparation of the emergency action plan in conformity with the FEMA guidelines is an attempt to cope with emergency with the minimum loss and to build confidence to the people living downstream of the dam.

Advantages

- ✓ Building public confidence as there are preventive measures for the loss of life and property
- ✓ Emergency action plan can be used for the dam's premium deduction
- ✓ Reducing the possibility of compensation for the damage caused by an effect downstream



Dam break model

EGAT's experiences

Providing services to EGAT's dams countrywide with water storage capacity of over 1,000 million cubic meters



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