

# Title: Roadmap towards Effective Flood Hazard Mapping in Cambodia

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## The Curriculum of the training courses

I hope that this training course will be good chance to gain knowledge how to producing flood hazard map and how to use it effectively.

In past the Department of Hydrology and River Works using software the flood forecasting model that produce only bulletin and this information we send it to heading, local authority and concerning agency. This training will teach to improvement of the base information (hydrological information, meteorology and topographic data, historical inundation and flood information hydraulic and river engineering run off analysis) to make a flood hazard map and how to distribution of these production to local authority to use this map for evacuation to safety during a flood disasters in city/urban area the training course are most impressive and relevant they had improve my professional knowledge work in hydrological flood forecast:

In general parts of the training were impressive, insightful and relevant the improved my professional knowledge on hydrology, hydraulic and river engineering. Technical know-how on the methods to promote public awareness on flood damage mitigation is enhanced. I consider topics on Hydrological Statistics; Flood runoff analysis and inundation analysis; Hydrologic Observation all objective is very relevant most of the topics were very familiar.

## **For Effective Flood Disaster Mitigation in the Cambodia**

Flooding from the rivers and from local rainfall is an annual phenomenon in Cambodia and people living in the country have involved strategies to make the most of the water and to mitigate the effects of excess. The annual floods have become an essential element in the life of the people. However, the hydrological floods even are sometimes of height magnitude that loss of life and property occurs.

Flood mitigation requires real-time information on weather and hydrological forecasting, so that forecasts and warnings can be issued to people at risk place, for example to merchants who may need to remove goods stored at ground level to upper storeys forecasts of flooding are now become very interested for stakeholders and local authority also for international Tran-boundary. In Cambodia, flooding is not restricted to the floodplains towns and rural areas (average flood and minimum flood, inundation), but the subject flash flooding and heavy flood is generally heavy not stability social and national economic losses. These disasters, floods in particular occur mainly because of our geographical location the many of these emergency situations cannot be avoided, but however the flood is very dangerous, for this situation the flood must be take to account to management for emergency, therefore must be ensuring the availability of financial, human and material resources. It is meant to help network and coordinate individuals, agencies and organizations to affect a rapid and effective response this is where Flood Hazard Mapping comes in.

### **Actions to be taking after back to country**

- Within one year  
To developing one Flood Hazard Map for the target areas of small Sub-basin that become flashes floods it was severely hit by a flood event happened Our Flood Forecasting Office has established with local administration for the implementation of activities as public information to distribution of flood information the area is availability of some data has been the subject of some project studies these initial studies will be important inputs to be undertaking.
- Short Term Studies
  - The study on the feasibility of producing a Flood Hazard Map for cities/municipalities within existing installs recorders of water levels in the river basins.
- Mid/Long-term Project  
Improvement of the present format of the flood forecasting bulletins which our office is issuing by incorporating some basic points from Flood Hazard Map information on rainfall and water level, and finally gives a hydrological forecast on what would be the effect of such within the next day by cooperating some line agency aspects drawn up from Flood Hazard Maps, I sure that would be a better reception

and comprehension by the residents as well as people involved in rescue and relief operations.

- Before the next batch of trainees

If projects described above are put into activities, the candidates for the next trainings must be involved in all the activities for undertakings. This is not only to prepare them for the training but for them to be able to contribute something that has been done for successfully.

### **Advice / Suggestions for Effective Flood Management in Japan**

The present, Japan has a very good method of flood management. But still we could not say it is perfect. Maybe there is a need for review of some of its existing flood hazard maps. Some might have been too complicated that a common person would never be able to understand even so many information dissemination has been conducted. Many things had been identified on the discussion on town-watching activity. I would say those are very relevant.

### **Advice / Suggestions for Training Course**

Training Course It is not enough just to listen to lectures. It should be longer is also important to do more exercises and practice to present something from their own sides especially on the- job training is very important and also the training program should be selected small river basin to make a pilot site training group for make individually studies, one more is very important is the tool on activities as software for hydro-meteorological data analysis, hydrology, hydraulic model, flood hazards mapping developing by using Arc view GIS most go to specific that fuscous only technical not too much generally it is everybody learns from each other this way everybody can gets benefited when they back to own country they gate this methods to apply they country.