

A POSITION PAPER ON "PREPAREDNESS, RESPONSE, MITIGATION, AND DISASTER RECOVERY FOR FLOOD IN SOUTHERN NEPAL"

CONTENTS:

PREPAREDNESS

- 1) History of flooding
 - Past flood events in southern Nepal
 - Magnitude, frequency and interval of floods in southern Nepal
 - Damage assessment- Social, environmental and economic impacts
- 2) Past/existing flood studies and preparedness approach
 - Use of sound engineering and engineering judgments
 - Use of flood risk management practice in Nepal
 - Flood preparedness approach
 - Successes and failures for early warning, forecasting and preparedness
 - Long term effect in national economy, institutional and socio-cultural harmony
- 3) Causes and process of the flood events
 - Comprehensive understanding of causes of flood events
 - (a) Events caused by natural process (b) Events caused by human-made
 - Most vulnerable areas for flood: (a) Chure area (b) Southern plain area
- 4) Understanding of future flood problems in southern Nepal

RESPONSE

- 5) Flood Response
 - Responses and measures considered and implemented for managing the floods
 - Review of primary and secondary response measures (emergency shelters, evacuation, training and institutional capacity for effective response etc.)
 - Impact and importance of Water quality and public health

MITIGATION

- 6) Structural Mitigation
 - Design of infrastructures development (primarily highways and bridges)
 - River bank erosion and mass landslides, hill-slide developments
 - Design and maintenance consideration of flood mitigation infrastructure
- 7) Non Structural Mitigation
 - Buildings design requirements in flood mapped areas
 - Housing development in flood hazard area
 - Floodplain delineation and flood warning systems
 - Consideration of natural course of Rivers (Floodway, flood fringe and overland flow areas)

- Transportation and prevention of Silt deposition in floodplain area
 - Environmental aspects of integrated flood management
 - Current Policy and standards for flood management
- 8) Use of advanced technology for effective flood management
- Use of 3S technologies (GPS, GIS and RS) for floodplain delineation and flood warning system
 - Use of advanced and sustainable engineering consideration for flood management
 - Use of risk analysis for effective flood management
 - Use of meteorological data and climate change effects for the flood management

DISASTER RECOVERY

- 9) Effective flood management approach
- Suitable flood evaluation methodology and its proper implementation by governing agencies
 - Long-term Cost benefit analysis and evaluation by using effective and proper flood management
- 10) Possible ways forward for minimizing flood hazards
- By Governmental agencies and local administration authorities
 - By General public (social, cultural behavior and habits of the local people)
 - Coordination with India and international agencies- Applicable to the southern Nepal region
 - Establishing flood management task force agency (at federal and local level)
 - Policy and Institutional Research center/think tank (by mobilizing Nepali diasporas) for comprehensive watershed management
- 11) Approach for financial help from international donor agencies for the Detailed and comprehensive flood prevention study and effective disaster recovery approach
- 12) Effective options for mobilizing funds and socio-technical resources for flood recovery
- 13) CONCLUSION
- Preparedness
 - Response
 - Mitigation
 - Recovery