4. Annual Work Plan

Outcome	Output	Activities	Responsible party	Dec'06		Jan'07				Feb'07				Mar'07				Apr'07				May'07			
				3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Outcome 1: Compiled collection of baseline studies that analyze the threat of climate change and variability on glacial lakes of Bhutan	▪Creation of a database of existing study on GLOF ▪Identification of existing gaps in climate vulnerability studies and project feasibility studies related to GLOF hazard risks	▪Create a database for all existing studies and completed projects focusing on climate change and variability impacts on Bhutan which will be used as baseline information for the designing of a comprehensive FSP.	DGM, NEC																						
Outcome 2: Hazard zonation and vulnerability mapping for the Chamkhar Valley and Punakha-Wangdi Valley implemented	▪Community vulnerability assessed through field surveys ▪Staff trained in GLOF hazard risks ▪RS/GIS data and graphic materials produced and maintained ▪Direct field observation data and RS data analyzed and GLOF hazard zonation and vulnerability maps produced	▪Collect data on topography, slope stability, geology, hydro-geology, socio-economy, and land use and cover which will entail 6 months field work ▪Train DGM officials in GIS/RS techniques at a regional/international institute ▪Produce a set of maps based on field observation and GIS/RS analysis ▪Procurement of field and office equipments *	DGM																						
Outcome 3: Assessment of most suitable Early Warning System for GLOF threat in Punakha-Wangdi Valley completed	▪Comparative assessment of Early Warning Systems in operation in other countries ▪GLOF related hazards and risks in Punakha-Wangdi valley assessed	▪Assessment of an integrated EWS focusing on technological capabilities, economic installation and maintenance feasibilities ▪Site assessment of GLOF EWS in Punakha-Wangdi Valley	DGM																						
Outcome 4: Implementation plan for the FSP	▪Undertake stakeholder consultations and make all stakeholders clear of their role and responsibilities during FSP implementation ▪Institutional arrangements for FSP implementation at national, intermediate and local level	▪Conduct a mapping of all stakeholders and institutional arrangements necessary for implementation of FSP at national, intermediate and local level ▪Identify gaps in institutional arrangements in order to strengthen key agencies that will be responsible for carrying out the FSP activities	DGM, DLG																						
Outcome 5: FSP executive summary document and the UNDP Project document	▪FSP document developed for submission to the GEF secretariat ▪UNDP Project document developed	▪Development of an FSP clearly outlining the scope of the FSP along with the goal, objective and outcomes of the project, the relevant stakeholders, the sustainability and replicability of the project and the financial mechanism for project funding ▪A UNDP Project document will be prepared with a strong emphasis of the outcomes of the project	UNDP																						