

United Nations Educational, Scientific and Cultural Organization

ed Nations - International entific and - Hydrological ganization - Programme

Institutional Aspects of Flood Management In Pakistan

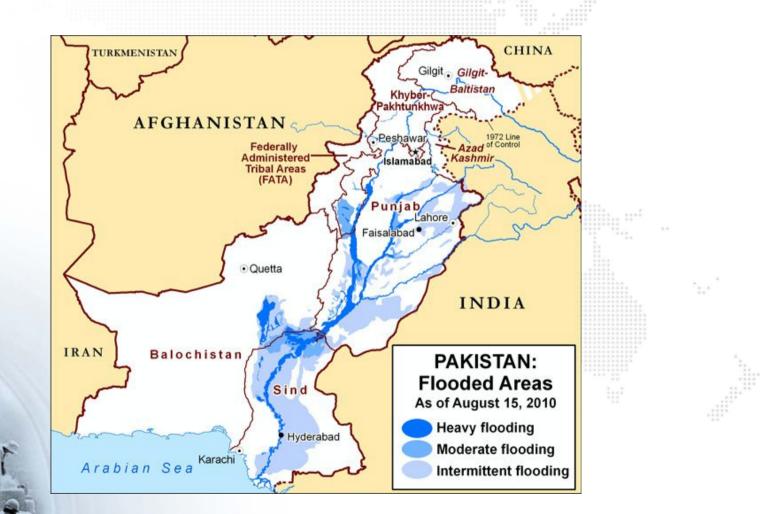
Implementation Planning Workshop on International Flood Initiative (IFI) in Asia-Pacific 10 January 2017, Tokyo, Japan Prof Shahbaz Khan, Director UNESCO Regional Science Bureau for Asia and the Pacific

Regional Sciences Bureau for Asia and the Pacific - UNESCO Office, Jakarta



Internationa

Pakistan Flood Management Challenge



Regional Sciences Bureau for Asia and the Pacific - UNESCO Office, Jakarta

United Nations Educational, Scientific and + Hydrological Cultural Organization + Programme

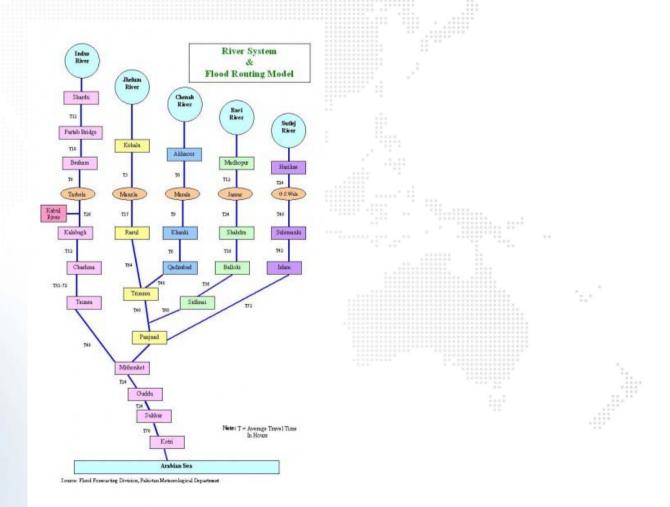


್ರಾ

International

Programme

A Complex Interconnected River System



Regional Sciences Bureau for Asia and the Pacific - UNESCO Office, Jakarta

United Nations Educational, Scientific and Hydrological Cultural Organization



United Nations International Educational, Scientific and Hydrological Cultural Organization **FLOOD MANAGEMENT – AGENCIES INVOLVED**

- 1. NDMC, NDMA, PROVINCIAL
- 2. FEDERAL FLOOD COMMISSION (FFC)
- 3. SUPARCO
- 4. PAKISTAN METROLOGICAL DEPARTMENT (NATIONAL FLOOD FORECASTING DIVISION ,NFFD)
- 5. WAPDA
- 6. PAKISTAN COMMISSIONER FOR INDUS WATERS (PCIW)
- 7. PAKISTAN ARMY
- 8. PROVINCIAL IRRIGATION AND POWER DEPARTMENTS (PIDS/PIDAS)
- 9. EMERGENCY RELIEF CELL, CABINET DIVISION, ISLAMABAD
- 10. PROVINCIAL FLOOD RELIEF DEPARTMENTS
- 11. POLICE DEPARTMENT
- 12. PAKISTAN FOREST DEPARTMENT
- 13. PAKISTAN RAILWAYS
- 14. **INFORMATION DEPARTMENT**
- **15. PROVINCIAL COMMUNICATION DEPARTMENTS**
- **16. DISTRICT ADMINISTRATIONS**



Educational, Scientific and

Hydrological
Cultural Organization

Programme

National Disaster Management Authority (NDMA)

- National Disaster Management Authority (NDMA), is the lead agency at the Federal level to deal with whole spectrum of Disaster Management Activities.
- It is the executive arm of the National Disaster Management Commission (NDMC), under the Chairmanship of the Prime Minister
- In the event of a disaster all stakeholders, including Government Ministries/Departments/Organizations, Armed Forces, INGOs, NGOs, UN Agencies work through and from part of the NDMA to conduct one window operation.
- NDMA aims to develop sustainable operational capacity and professional competence



International

United Nations

Educational, Scientific and

Hydrological Cultural Organization

Programme

FUNCTIONS OF FEDERAL FLOOD COMMISSION

- **I) PREPARATION OF NATIONAL FLOOD PROTECTION PLANS**
- II) APPROVAL OF FLOOD CONTROL SCHEMES PREPARED BY PROVINCIAL GOVERNMENTS AND CONCERNED FEDERAL AGENCIES
- III) REVIEW OF FLOOD DAMAGES TO PUBLIC SECTOR INFRASTRUCTURE AND REVIEW OF PLANS FOR RESTORATION AND RECONSTRUCTION WORKS
- IV) MEASURES FOR IMPROVEMENTS IN FLOOD FORECASTING AND WARNING SYSTEM
- V) STANDARDIZATION OF DESIGNS AND SPECIFICATIONS FOR FLOOD PROTECTION WORKS
- VI) EVALUATION AND MONITORING RELATING TO PROGRESS OF IMPLEMENTATION OF THE NATIONAL FLOOD PROTECTION PLAN(NFPP)
- VII) PREPARATION OF A RESEARCH PROGRAM FOR FLOOD CONTROL AND PROTECTION
- VIII) RECOMMENDATIONS REGARDING PRINCIPLES OF REGULATION OF RESERVOIRS FOR FLOOD CONTROL

NOTE: RESPONSIBILITY OF IMPLEMENTATION RESTS WITH THE PROVINCES



United Nations Educational, Scientific and + Hydrological Cultural Organization . Programme

ROLE OF WAPDA DURING FLOODS

- FLOOD SEASON (JUNE 15 OCT. 15)
- **TRANSMISSION OF RAINFALL & RUNOFF DATA TO** NFFD – LAHORE
 - a) FLOOD FORECASTING TELEMETERY NETWORK
 - b) HIGH FREQUENCY RADIO COMMUNICATION NETWORK
- **OPERATION OF TARBELA, MANGLA AND CHASHMA** RESERVOIRS.

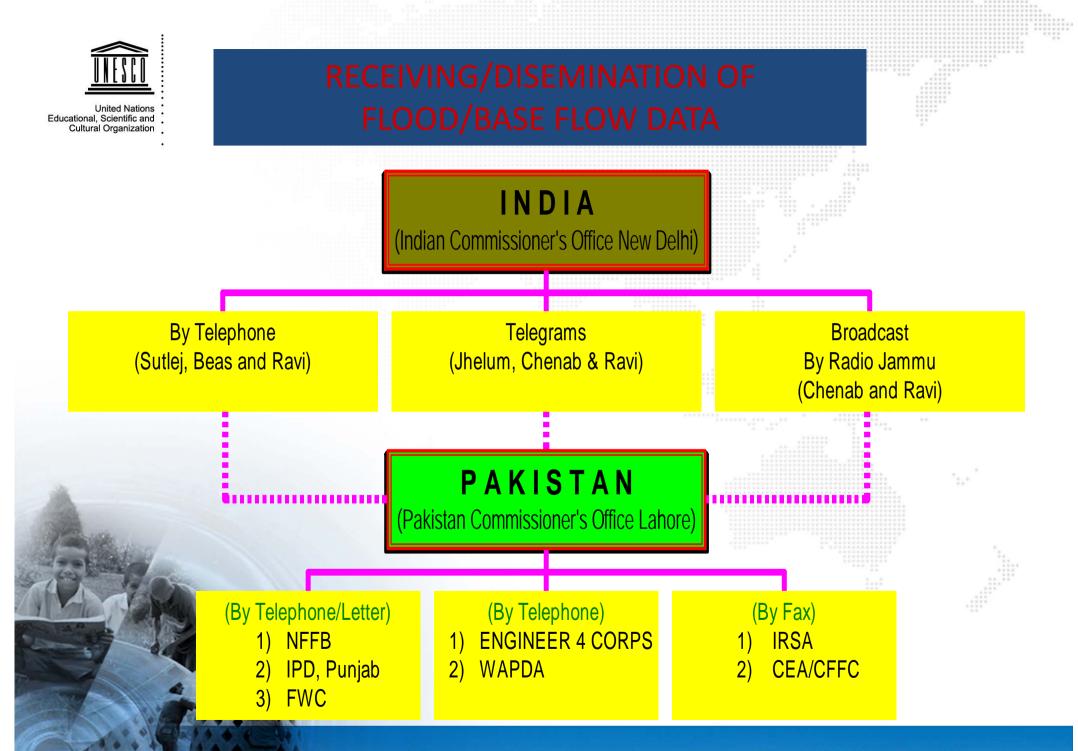
Regional Sciences Bureau for Asia and the Pacific - UNESCO Office, Jakarta



United Nations + Internat Educational, Scientific and United

RESERVOIRS OPERATION

- **BASIC OBJECTIVE WATER CONSERVATION**
- FLOOD REGULATION Secondary
- OPERATION ACCORDING TO PRE-DETERMINED CRITERIA (SoP)
 - PROJECT SAFETY TOP PROIRITY
 - Flood Warnings (Low , Medium, High)during filling and Maximum Conservation Level
 Temporary rise above maximum conservation level
 Conjunctive operation



Regional Sciences Bureau for Asia and the Pacific - UNESCO Office, Jakarta

