



**5-Day Training Workshop  
On  
"Flood Mitigation"**

---

**Title:** Constraints/Problems in Flood Control System in Pakistan

**On:** February 16, 2010

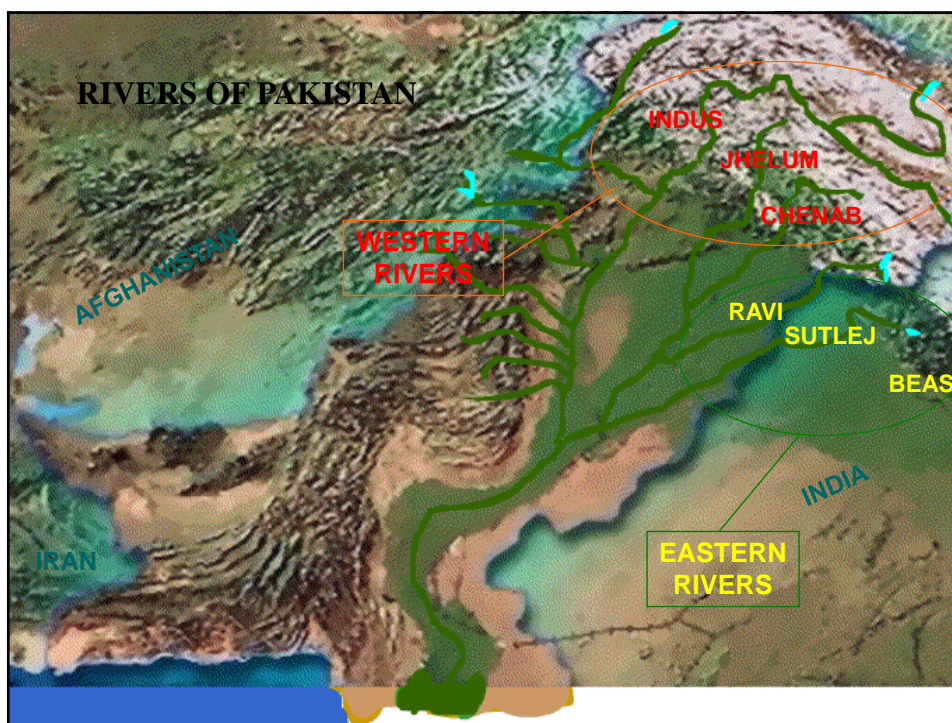
**At:** Islamabad

**Organized By:** NDMA-UNDP



---

**Pakistan's River System**



### Constraints/Problems in a Glance Federal & Provincial Levels

- **Limited Financial Resources;**
- Big gap between demand and supply;
- Important schemes remain held up due to shortage of funds;
- Consequently due to delayed provision of funds, actual river morphology changes requiring modifications in original scheme design;
- In 2007 provinces demanded Rs 130 billion for next ten year time frame against which Rs 30 billion planning for ten years was made (Rs 3 billion/year);
- Actual provision of funds remained Rs 1 billion/year during 2008, 2009 & 2010.

## Constraints/Problems in a Glance Federal & Provincial Levels

### Administrative Problems;

---

- Lengthy approval process of developmental schemes;
- Resultantly schemes cannot be implemented on ground due to short working time available prior to the start of Flood Season;
- Incomplete scheme always prone to flood damages resulting loss to national exchequer;
- Difficulties in land acquisition;
- Litigation issues (after approval/before construction/during construction) of any scheme.

## Constraints/Problems in a Glance Federal & Provincial Levels

### Technical Problems;

---

- Difficulties in non availability of stone of required size;
- Difficulties in implementation of schemes due to change in river morphology requiring change in design;
- Fresh approvals and cost implications on account of above;
- Stoppage of on-going work due to delayed payments to contractors

## Constraints/Problems in a Glance Federal & Provincial Levels

---

### Geographical Problems;

- Different physiographical conditions in different parts of Pakistan:

<b>NA:</b>	Steep slopes
<b>FATA:</b>	Law & Order, Steep slopes
<b>NWFP:</b>	Valleys and hills;
<b>Punjab:</b>	Hills/Partially hilly/Plain;
<b>Sindh:</b>	River flows on a ridge;
<b>Balochistan:</b>	Far flung areas;
<b>AJ&amp;K:</b>	Sandy soils/sliding

## Constraints/Problems in a Glance Federal & Provincial Levels

---

### Inter-agency Coordination;

- Departments work within their specific spheres;
- Need of enhanced coordination
- **Need of Modern Technology;**
  - New construction machinery, refined construction techniques;
  - Project planning, designing, siting and implementation based on modern trends



### Constraints/Problems in a Glance Federal & Provincial Levels

---

- **Modern Knowledge and Experience;**
  - More skilled labor input;
  - Time intensive planning;
  - Institutional capacity building



### Constraints/Problems in a Glance Federal & Provincial Levels

---

- **Provision of O & M funds;**
  - O & M funds not being provided for regular maintenance of flood works;
  - Results into deferred O & M;
  - Regular and gradual deterioration of structures;
  - Danger of collapse in a certain flood event

### Constraints/Problems in a Glance Federal & Provincial Levels

---

- Inadequate coverage of flood vulnerable areas;
- System's deficiency in forecasting flash flood events;
- Expansion in Remote area coverage;
- More emphasis on coastal area flood management as a priority;

### Constraints/Problems in a Glance Federal & Provincial Levels

---

- Expansion of weather radar network;
- Extended Urban flood control;
- Registering of discharges of secondary and tertiary rivers, streams, nullahs;
- Defining the flood plain extent.



**End of Presentation**

---

**Thank You**