بِسَمِ اللَّهِ رَحْمَاتِ النَّبِيِّ
EQ 8/10
Worst Disaster in the History of Pakistan
BALAKOT: Oct09 - An aerial view shows the earthquake worst hit town of Balakot a day after a 7.6 magnitude earthquake hit the region. More than 18,000 people were killed so far in the disaster.

APP
BAGH: Oct21 - A family stands over its destroyed house waits for the relief goods to be dropped by a helicopter in a village outside the Bagh. APP photo by Irshad SHeikh
RAWALPINDI: Oct17 – Helicopters carrying the relief goods preparing to take off from PAF base Chaklala for the earthquake affected areas. Helicopters resumed relief and rescue flights to earthquake zone Monday after the weather cleared. The worst earthquake of Pakistan’s history at 7.6 magnitude killed above 40 thousand people, more than 65 thousand injured and around 4 million shelter-less. APP photo by Irfan Mehmood
BAGH: Oct19 – Pakistan army soldier’s distributing relief goods in the affected people of the area. The worst earthquake of Pakistan’s history at 7.6 magnitude on 08 October killed above 42 thousand people, more than 65 thousand injured and around 2.5 million shelter-less.

APP photo by Irshad Sheikh
BAGH: Oct 19 - Pakistan Army troops with mules loaded with relief goods on the way to un-accessible earthquake hit areas of Bagh. APP
73328 DEAD AND 128304 INJURED
THE DAMAGES

- 30,000 sq km of rugged terrain
- 3.5 million Population, mostly in scattered villages
- 600,000 houses destroyed/damaged
- 6,400 km of destroyed road network
- 6,298 destroyed education facilities
- 350 destroyed health facilities
- 3,994 WATSAN schemes destroyed
- 949 Government buildings destroyed

Continued....
Response to the Earthquake

- **Immediate**
  - Rescue and relief operations
  - Crisis management, damage assessment / control
  - Maintenance / restoration of infrastructure

- **Short-Term**
  - Sustaining population and displaced persons
  - Supplementing local response capacities
  - Revival - civil administration & essential services

- **Mid-Term**
  - Early Recovery Operations

- **Long-Term**
  - Reconstruction and Rehabilitation
Challenges

- Absence of disaster management organization
- Vast affected areas & dispersed inhabitations
- Inaccurate damage assessment
- Inadequate resources; incremental employment
- Blocked roads & traffic congestion
- Handling large air traffic, relief goods
- Insufficient lift capability from abroad
- Dysfunctional civil administration
- Lack of inter agency coordination
- Handling of amputees, paraplegics and IDPs
### Joint Relief Delivered to Affected Population Oct 2005 – Mar 2006

<table>
<thead>
<tr>
<th>Relief Goods and Services Provided</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary Shelters to Families</td>
<td>385,000</td>
</tr>
<tr>
<td>Tents</td>
<td>951,790</td>
</tr>
<tr>
<td>Blankets / Quilts</td>
<td>6,361,090</td>
</tr>
<tr>
<td>Ration (in tons)</td>
<td>256,376</td>
</tr>
<tr>
<td>Medicines (in tons)</td>
<td>3,053.76</td>
</tr>
<tr>
<td>Field Hospitals Established</td>
<td>65</td>
</tr>
<tr>
<td>Field /Mobile Medical Teams</td>
<td>86</td>
</tr>
<tr>
<td>Sorties Flown</td>
<td>30,334</td>
</tr>
</tbody>
</table>
Lessons Learnt - Relief & Rescue Phase

- Create Institutional arrangement
- Damage assessment – Don’t Wait; Act
- Evolve Coordinating Mechanism, Duplicity, Accessible Areas
- Joint and Integrated Logistics
- Harnessing IOs / NGOs
- Proactive Media management
- Quick Rebuilding Capacities of the Government
- Enforcement of building codes
- Need based Expatriate Communities contribution
- Create search and rescue capability
- Initiate Awareness
- Protection of vulnerable groups – High priority
From Relief to Recovery Phase
Functional Structure

ERRA (C DWP)

- PLAN
- APPROVE
- COORDINATE
- FACILITATE
- M & E

PROV STEERING COMMITTEE

PERRA-NWFP (PDWP)

DRAC

PROJ FORMULATION

MNSR, SHANGLA, KHSTN, ATD, BTGM

SERRA-AJ &K (PDWP)

DRAC

MZD, NEELUM, BAGH, R.KOT

FINANCIAL ALLOCATION
UN/ERRA Early Recovery Plan

- **Purpose**
  - to bridge and coordinate the transition from relief to reconstruction. The Early Recovery Plan (ERP) covers activities over a 12 month period starting from May 2006 onwards

- **Main Areas of Activities**
  - encompasses a targeted range of concrete activities that will draw on the strengths and resilience of local communities
  - eight sectors covered are:
    - Education
    - Health
    - Livelihoods
    - Water and Sanitation
    - Housing, Shelter and Camp Management
    - Needs of Vulnerable Groups
    - Governance and Disaster Risk Reduction
    - Common Services and Coordination
Lessons Learnt - Early Recovery

- Sustained coordination with local govts and ministries must for better planning
- Discourage relief NGOs from reconstruction
- High overheads, need to keep a watch
- Balance between hardware and software program
- Check duplications and overlaps – everyone in high visibility areas

Continued......
Lessons Learnt-Early Recovery

- Direct funding to NGOs by some donors
- Reasonable timeframe for discontinuation of relief activities
- Incentives and assistance for early return to normal life cycle
- Discourage perpetuation of camps/relief/free handouts
- Injection of cash in affected areas through housing and livelihood grants
Reconstruction and Rehabilitation Phase
Sectors

• Hardware
  • Housing
  • Education
  • Health
  • Water And Sanitation
  • Governance
  • Power And Telecommunication
  • Transportation

• Software
  • Livelihood
  • Social Protection
  • Environment
  • Industry and Tourism
Converting Challenge Into Opportunity

- Rationalized reconstruction in accordance with needs
- Strategic integration
- Improved svc delivery and management system-standard setting
- Hazard sensitive reconstruction
- Better planned urban centres
- Decentralized grievance redressal system
- Ensure equity (gender, level, spatial)
- Vulnerable group needs being addressed
- Induce behavioral change
- Transparency and awareness
- Capacity building and human resource development
## Total Reconstruction Cost

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>Pak Rs (Billion)</th>
<th>Equivalent US $ (Billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>24.300</td>
<td>0.405</td>
</tr>
<tr>
<td>Education</td>
<td>53.160</td>
<td>0.886</td>
</tr>
<tr>
<td>Housing</td>
<td>120.000</td>
<td>2.000</td>
</tr>
<tr>
<td>WATSAN</td>
<td>3.670</td>
<td>0.061</td>
</tr>
<tr>
<td>Governance</td>
<td>12.000</td>
<td>0.200</td>
</tr>
<tr>
<td>Telecom</td>
<td>0.630</td>
<td>0.010</td>
</tr>
<tr>
<td>Power</td>
<td>2.406</td>
<td>0.040</td>
</tr>
<tr>
<td>Transport</td>
<td>30.000</td>
<td>0.500</td>
</tr>
<tr>
<td>Social Protection</td>
<td>1.300</td>
<td>0.021</td>
</tr>
<tr>
<td>Livelihoods</td>
<td>8.200</td>
<td>0.136</td>
</tr>
<tr>
<td>Environment</td>
<td>3.620</td>
<td>0.060</td>
</tr>
<tr>
<td>Tourism</td>
<td>1.860</td>
<td>0.031</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>261.146</strong></td>
<td><strong>4.353</strong></td>
</tr>
</tbody>
</table>
What are We Dealing with?

- 30,000 sq km of rugged terrain
- 3.5 million Population, mostly in scattered villages
- 600,000 houses destroyed/damaged
- 6,400 km of destroyed road network
- 6,298 destroyed education facilities
- 350 destroyed health facilities
- 3,994 WATSAN schemes destroyed
- 949 Government buildings destroyed
What are We Dealing with?

- Most of the telecom network damaged
- Most HT and LT power network damaged
- All livelihoods sources disrupted; thousands of cattle dead; thousands of widows, orphans and disabled
- Hundreds of massive slides; millions of tons of rubble; damaged forests and watersheds
What it Takes to Rebuild

- Establishment of Institutional Set-up
- Development of operational and financial procedures supported by efficient MIS and database systems
- Detailed Damage Assessment
- Preparation of 12 Sectoral Strategies through consensus building
- Seismic survey, micro-zonation and fault line mapping

Continued….
What it Takes to Rebuild

- Revision of Building Codes, developing construction guidelines
- Designing seismically resistant building for housing, health, education and government facilities
- Survey & Enrollment of Vulnerable groups
- Detailed urban planning

Continued....
What it Takes to Rebuild

- Logistics for provision of construction material
- Preparation and approval of annual work plans, Reconstruction packages/PC-1s
- Short listing of contractors, tendering & contracting
- Putting up an effective M&E framework
Where Do We Stand One Year After

- 98-99% people have a mid-term housing solution
- Only 10% people are in tent villages as compared to 31 Mar 06
- All offices, banks, schools and health facilities are functional
- Roads & services are operational and markets are back in business

Continued....
Where Do We Stand One Year After

- Construction has gathered pace despite heavy monsoons
- All strategies finalized and reconstruction rolling
- Contingency plans prepared for a harsh winter
- Rs 62 bn have been disbursed so far
- WB review mission highly satisfied
- Behavioral Change evident
SECTORAL PROGRESS
Housing
Training
Construction Material Hub
Livelihood
Livelihood - Update

- Comprehensive Livelihoods rehabilitation strategy worth Rs 16.92 bn approved by ERRA Council
- Cash Grants Programme (Rs 5 bn) for vulnerable households launched since April 2006. 221,244 beneficiaries selected and paid Rs. 3.708 bn so far

Continued………
Livelihood - Update

- An interim Rs 5.74 bn ERRA-UN Livelihoods Support Programme launched covering 26 projects
- A programme of Rs. 3 bn micro-finance launched by Khushhali Bank
- Schemes worth Rs 3 bn in agriculture, livestock, skill development etc. under preparation
Education
Hazara University by HEC
AJ&K University MZD By Municipality of Kocheli Turkey
Govt Girls High School Chakothi by MGPO
Govt Boys High School Dhadar by USAID
Education - Update

- All education facilities made functional through interim structures
- 1574 facilities planned to be reconstructed in 06-7 including 523 by sponsors and 299 by donors
- 452 facilities (AJ&K middle schools) allocated to ADB; appraisal underway
- Annual Work Plan covering 1097 facilities for reconstruction during 06-07 by GOP finalized by districts
- 857 facilities surveyed & designed by Nespak
- Bids for 53 schools received, being evaluated
- 15 educational institutions completed; construction of 40 schools by donors & sponsors underway
- 185 pre-fabricated schools completed; 78 near completion
Health
DHQ Bagh by MSF
THQ Balakot by PAKTEL
THQ Garhi Habibullah by Kuwait Red Crescent
Operation Theatre Battagram by Japan
Rehab Center MZD by Turkey
THQ Hattian Bala by MSF
Health - Update

- All health facilities functional - interim structures
- 2006-07 reconstruction of 165, out of 305 facilities being undertaken, all funded by donors/sponsors
- 2 facilities completed (THQ Balakot & THQ Gari Habib Ullah)
- Construction of 6 facilities started
- DHQ Battagram site clearance in process
- ADB funded facilities (37) - designing/assessment in process
- DHQ Bagh, CMH/DHQ Muzaffarabad & Rawalakot designing in process

Continued……
Health - Update

- 68 prefabricated health facilities functional (49 AJK, 19 NWFP)
- 51 prefabricated health facilities under construction
- 55 transitional health facilities (PHC Services) operated by INGOs/NGOs functional
Water Supply & Sanitation Sector
WATSAN- Update

- Funding secured for 2274 schemes. Work on 450 started (220 completed). All these schemes are grant-funded.
- Cost estimation/PC-1s for departmental buildings completed. PC-1s worth Rs 735 M approved, worth Rs 413 M in pipeline.
- Grant to carry out feasibility studies of major Water Supply Sanitation and Solid Waste Management schemes, principally agreed by French Govt.
Telecom
Telecom - Update

- All telecom links restored in affected areas through alternate means
- Umbrella PC-1 worth Rs. 630 million approved by ERRA Board and CDWP
- Anticipatory approval of Rs. 315 million received from ECNEC and transfer of funds in process
Power
Power - Update

- All HT/LT links restored through temporary measures
- Funding of Rs 2.4 bn secured and tendering in process
- PC-1s for SHYDO & AJK HEB Projects costing Rs 0.146 bn approved
- The amount of 51 million released to SHYDO & AJKHEB for their projects.
- Rs 7.8M released to IESCO for relief camps, Rs 79.23M to AJKED and Rs 93.237M for PESCO, in process.
- PC-1’s of AJKED Projects of worth Rs 590.129M approved and release of funds in process.
- Approval of PC-1,s for PESCO, and IESCO projects worth Rs. 654.887M under process.
Roads/Transport
Roads/Transport - Update

- All critical links being kept open
- PC-1 for reconstruction / rehabilitation of 175 KM damaged national highways costing Rs. 6 bn have been cleared by ERRA board and approved by CDWP
- Anticipatory approval from Chairman ECNEC for incurrence of Rs 1200 Million during 2006/07 has been received. Construction work is expected to start during current month
- Project consultants and contractors hired for NHA projects and reconstruction to start soon
- PC-1s costing Rs 4.50 bn, for priority provincial / state roads being prepared
- 17 PC-1s costing Rs 1136 M approved
- Construction of four bridges on MZD-Chakothi road started by JICA. Completion by end July 2007
Governance - Update

- Total 949 buildings to be reconstructed
- PC-1’s for high priority / first year (2006-07) schemes approved with total cost of Rs 1.725 bn for NWFP & AJK
- Dist Govt complexes of MZD, Bagh, Rawalakot and Shangla being sponsored/donated by Turkey, Saudi Arabia and IDB
- Detail designing of the approved building schemes assigned to NESPAK in progress
- NESPAK prepared Architectural Plan for the buildings of Abbottabad, Mansehra Battagram and Kohistan districts of NWFP
- Rs 80 million have been released to NWFP Govt for construction of High Court Building Bench in Abbottabad
Social Protection - Update

- A Project for rehabilitation of disabled and paraplegics worth Rs. 742 million considered by CDWP on November 27, 2006 and endorsed for ECNEC’s approval.
- A capacity building assessment of ERRA, Ministry of Social Welfare, Social Welfare Departments NWFP and AJK is being conducted under DFID’s financial and technical assistance.
- Cash grant being extended for the most vulnerable
- NGOs are undertaking projects for vulnerable groups e.g. provision of houses, psychosocial support etc. with the approval of ERRA in different areas.
Environment
Environment - Update

- Environmental Strategy with estimated budget of Rs 3.619 bn has been approved by ERRA Council
- Comprehensive rubble removal/recycling project of Rs 409.26 million approved for MZD
- A modern rubble recycling plant being established in MZD with Belgian assistance
- First training programme on Environmental Assessment was held on 16 Dec 2006 in MZD
- Rubble removal management committees formulated in each district of NWFP
- Institutional capacity building in process
- UNDP/UNEP project on environment recovery in earthquake affected area amounting USD 12.00 million has been approved by ERRA
Monitoring and Evaluation
Ensuring Transparency and Impact
Core Principles of the Framework

- **Joint and Harmonized M&E**: providing a robust M&E umbrella for all stakeholders
- **Results focus**: Focusing on results and impacts as well as budgets
- **Lesson Learning**: Providing information for continuous lesson learning and programme planning as well as accountability
- **People Focus**: Involving all stakeholders and including direct feedback from beneficiaries
- **Transparency and Communication**: Demonstrating independence, and communicating the right information to the right people
Thank You