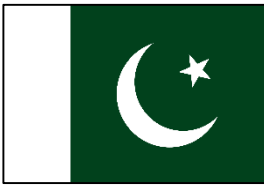




CONTINGENCY PLAN MONSOON SEASON 2017



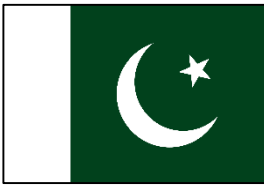
Aim



**To apprise participants on Monsoon preparedness activities
undertaken by NDMA**



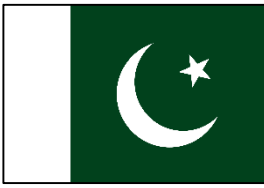
Monsoon Preparedness Activities



- Holding of Post Monsoon conference on last year experience in January 2017
- **Pre Monsoon conferences by all PDMAs / regions**
- **Visit of Chairman NDMA as part of NDMA consultative process to address the issues faced by PDMAs**
- **Rationalization of flood fighting equipment demand of Armed Forces**
- **Procurement of heavy earth moving machinery for GBDMA**
- **Holding of National Level Pre Monsoon Preparedness Conference by NDMA at Islamabad on 13 June 2017**



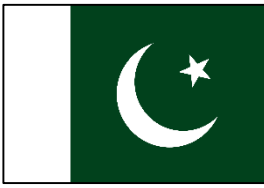
Monsoon Preparedness Activities



- Issue of National Monsoon Contingency Response Directive to all PDMAs, Ministries and departments
- **Activation of National Emergency Operation Centre at NDMA round the clock to monitor and respond at National level**
- **Activation of all emergency response flood control centres by all PDMAs, DDMAAs, Armed Forces and relevant departments**
- **Placing of Pak Airforce, Army Aviation and ANF / Mol Helicopters for emergency logistic support on short notice**



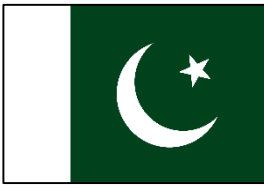
Monsoon Preparedness Activities



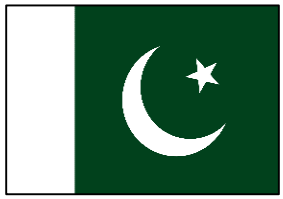
- **Media awareness campaign and regular issuance of weather / relevant advisories**
- **Maintaining logistic stocks at national level**
- **Placing all emergency services including USAR Teams ready on short notice**
- **Preparation and issue of Daily Situation report to all concerned including media**
- **Maintaining close liaison and holding regular meetings with PMD, FFC, FFD and other relevant departments**



Monsoon Preparedness Activities



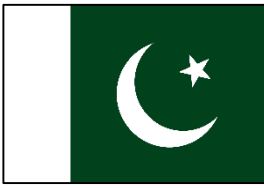
- **Coordination meeting regarding smooth operation of Lai Nullah with PMD, District Administration Rawalpindi, WASA Rawalpindi and Pak Army**
- **To enhance early warning system and coordination mechanism of trans frontier rivers with PCIW, FFD, PMD & FFC**



Thank You



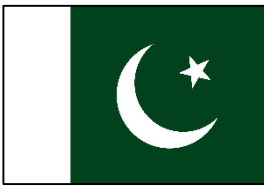
NDMA's Conclusions Pre-Monsoon Forecast 2017



- The Forecast is broad based, predicting possibility of riverine, flash, urban floods, GLOFs, cloudburst & drought in different regions of the Country including AJ&K which calls for a “**Comprehensive Response**” against all eventualities
- Interpretation of “Normal rainfall during July & Below Normal rainfall in August & September” means onset of Monsoon with variable intensity throughout the Country during Monsoon season. High probability of heavy localized rains may generate flash flooding in mountainous areas leading to landslides, while urban flooding in metropolitan areas. It merits maintenance of adequate response capacity **from the outset for entire duration of the Monsoon season**



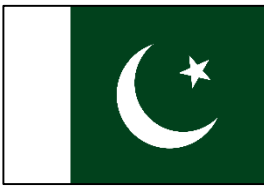
NDMA's Conclusions Pre-Monsoon Forecast 2017



- Due to erratic behaviour of Monsoon, extreme rainfall events like torrential rains, cloudbursts, landslides, GLOF may render vulnerable areas isolated resulting into shortage of basic commodities i.e. food stuff, medicines etc. This entails **strategic placing of earth moving machinery alongwith food stocks, medicines & POL in such areas**
- Synchronous effect of riverine floods, flash flood and urban flood in areas vulnerable to all three flood hazards cannot be ruled out. Hence, the need to **configure correct response** in such regions / areas becomes imperative



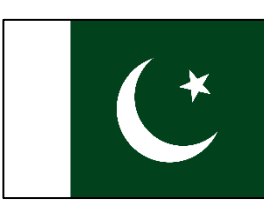
NDMA's Conclusions Pre-Monsoon Forecast 2017



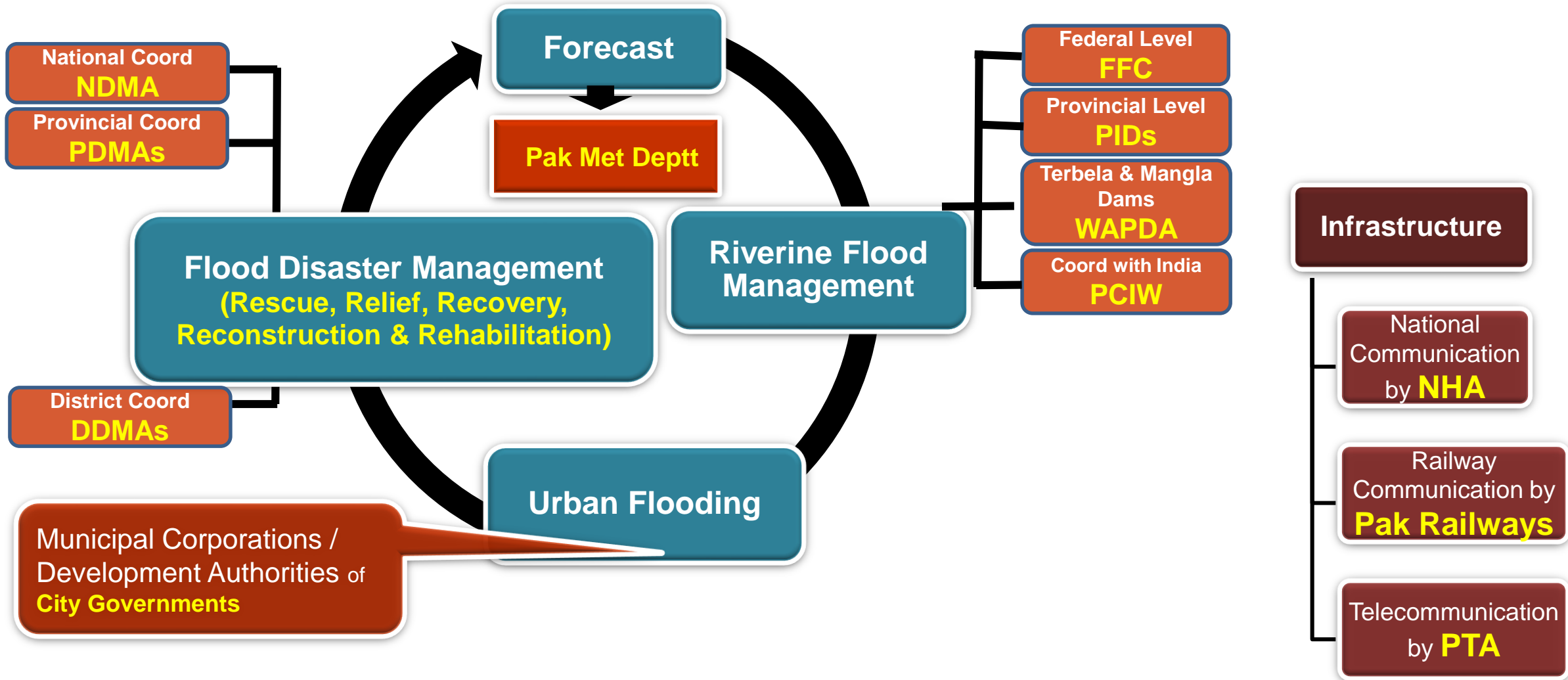
- Possibility of extreme weather events in catchment areas of eastern & western rivers viz-a-viz identified limitations of own hydro-meteorological forecasting capability may limit early warning time, hence, need to have sound **safeguards for flood fighting as well as careful management of storage dams**
- Contrarily, lack of rainfall in Southern Pakistan (arid areas of Balochistan, Sindh & Punjab) may lead to drought like conditions, warranting continuous **monitoring of drought contributing factors, careful regulation of major water reservoirs & taking adequate safeguards** i.e. stockpiling of wheat, livestock fodder, alternative arrangements for emergency water supply & lifesaving medicines



Visualized Monsoon 2017 Contingencies

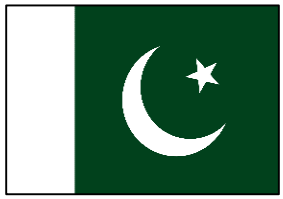


- **Scenario 1.** Most Likely - **Below Normal to Normal Monsoon**
(Response to be based on Scenario 1)
- **Scenario 2.** Probable - **Erratic Monsoon**
- **Scenario 3.** Less Probable - **Intense Monsoon**
- **Scenario 4.** Most Dangerous - **Abnormal Monsoon**



Tiers of Response

- **1st Tier.** ***Local response by DDMA's*** with support of District / Provincial / Army resources
- **2nd Tier.** ***Provincial effort*** in support of District Authorities
- **3rd Tier.** NDMA response (***National effort / National resources***) in support of Province with / without external assistance



NATIONAL RESPONSE GUIDELINES



Preparedness

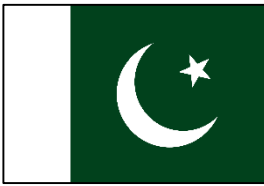


Enhanced Response Guidelines

- **Resource mapping** & timely intimation to NDMA
- ***Adoption of NDMA's Standardized Situation Report (SITREP) Format***
- **Timely information** regarding incidents & response
- Innovative use of **modern technology**
- **Special conferences** for any extreme events will assist timely decision making
- Placement of **earth moving machinery** in mountainous districts of AJK, GB & KP



Preparedness

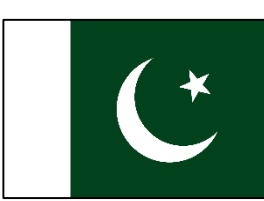


Enhanced Response Guidelines

- Broad guidelines for protective measures against **Flash Flood, GLOF, Urban Flooding, Avalanches, Drought** are reflected in Directive for analysis & adoption as per regional dictates
- **Inter Provincial / Regional coordination**
- Flood mitigation measures below **Mangla Dam** & Rehabilitation of **Shori Nullah Bund**
- **Requisition process** of Armed Forces has been explained in the Directive
- **Assessment parameters** for rationalization of flood rescue equipment have been elaborated in the Directive



Early Warning

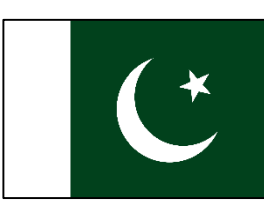


Flood Early Warning

- **PMD** will be the Focal Organisation for providing flood early warning
- Flood Forecasting Division (**FFD**) will disseminate daily flood bulletin
- ***No other agency is allowed to issue any forecast on weather / flood. Only PMD's alert will be relayed by stakeholders***
- PMD will critically analyse contributing factors for **drought in arid zone** of the Country and timely intimate to NDMA



Early Warning

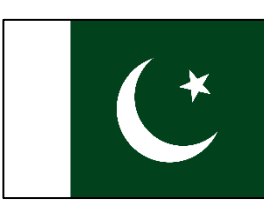


Community Early Warning

- NDMA will be the **focal agency** to collaborate with PTA for issuing of SMS alerts
- SMS will be drafted (**160 Roman Urdu letters**) by respective PDMAs and forwarded to NDMA 24 hours in advance
- To ward off panic & improper response, SMS will be **Tehsil / city specific**
- **Community based indigenous early warning system** must be institutionalized in areas vulnerable to flash floods, landslides, GLOF, avalanches
- **Special vigilance** during dark hours & periods of intense rains like watchmen, loudspeakers / megaphones, whistles, SMS alerts, telephone calls etc
- ***To ward off “False Warning”, implementation of Clause 35 of NDM Act 2010 will be invoked***



Response, Rescue & Relief

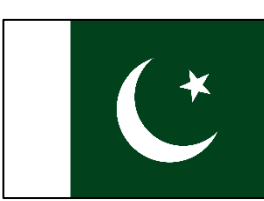


Flood Rescue Measures

- Availability, serviceability of flood rescue equipment (Boats, OBMs etc) & trained OBM Operators
- Readiness of USAR Teams
- USAR Team for Balochistan will be provided through NDMA. Employment of Pak Army USAR Team will be coordinated through NDMA
- ***NDMA has rationalized demand of Army flood equipment. PDMA's to complete provision to Army before onset of Monsoon 2017***



Response, Rescue & Relief

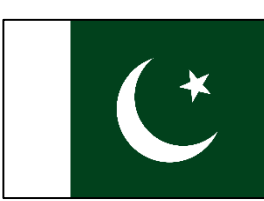


Disaster Management Planning

- Resource mapping & coordination with volunteers (Civil Defence, Boy Scouts, Girl Guides), UN Agencies, NGOs / INGOs and ambulances at district level
- Need based planning of relief camps
- Prepositioning of earth moving machinery at vulnerable locations
- NHA & C&W Departments to ensure such arrangements, baily bridges & enhanced number of maintenance teams at critical sections
- Updation of respective Flood Contingency Plans
- Planning for the needs and concerns of vulnerable groups



Response, Rescue & Relief

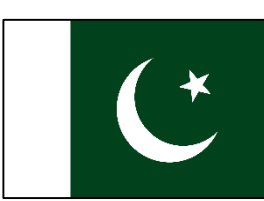


Rescue Operations

- **Availability of staff** especially emergency services on holidays
- Integration of Rescue 1122, Emergency Services, Civil Defence, Volunteers & Police / Law Enforcement Agencies during rescue operations
- **Aviation effort** will be requisitioned through NDMA by respective PDMAs with a reaction time of 24 hours. Expenditures will be borne by respective Province
- **Forced evacuation** be planned in case of limited warning time
- Rescue priority be given to **Vulnerable Groups** (aged, disabled, women & children)
- **NHA & Pakistan Railways** will restore the communication infrastructure ASP
- **SUPARCO** will provide satellite imageries & projected development of floods
- **Disaster tourism** must be curbed



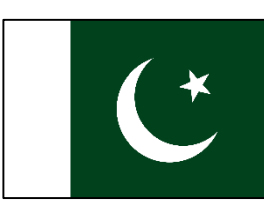
Coordination Aspects



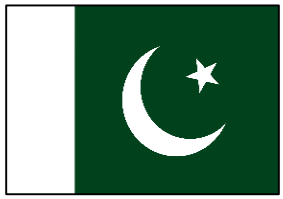
- All stakeholders will monitor flood situation through emergency operation centres from **1st July to 15th September 2017**
- All stakeholders including **Armed Forces, FFC, FFD, PMD, SUPARCO** involved in flood disaster management will nominate Liaison Officers for NEOC by **30 June 2017**
- **Daily Coordination Conference** will be held by NDMA during a flood situation in NEOC at 0900 hours. All LOs will attend
- Information about any significant event will be shared & interpreted by PMD
- All significant information will be immediately passed to NEOC by respective PDMAAs



Coordination Aspects



- Facility of **Video Conference System** may be utilized for effective communication
- Support of **UN Agencies & INGOs / NGOs** will be utilised in a coordinated manner in preparedness, relief, post disaster assessments & rehabilitation phases
- Capabilities of each organisation must be ascertained to ensure its optimal utilisation / employment
- Need based **employment of UN Agencies** will be regulated by NDMA and PDMAs. Efforts will be made to avoid saturation of such agencies in a particular region
- **NGOs / INGOs** duly cleared / approved by concerned ministries will be allowed to assist relief operations



THANK YOU