

Government of Pakistan
Ministry of Water Resources
Office of the Chief Engineering Adviser/
Chairman, Federal Flood Commission

**ACTIONS TAKEN BY FEDERAL FLOOD COMMISSION REGARDING
PREPAREDNESS FOR MONSOON SEASON 2020**

Sr. No.	Subject	Description
1.	DG Inter-Services Intelligence, Islamabad advised to devise an effective control mechanism of Coordination among all stakeholders to minimize the likely damages in the wake of 2020-Monsoon Season.	In response to DG, Inter-Services Intelligence Islamabad letter, Secretary, Ministry of Water Resources, Islamabad was informed through U.O Note regarding action taken by FFC for preparedness during Monsoon Season 2020 on 1st July 2020 .
2.	Minutes of 55 th Annual meeting of FFC held on 15 th June 2020 in office of CEA/ CFFC, Islamabad.	55 th Annual meeting of FFC was organized on 15th June 2020 , wherein necessary advice/ directives were issued to all concerned organizations dealing with flood management for initiation of preparatory measures to combat any likely floods/ flood situation during Monsoon 2020.
3.	Minutes of the meeting in interim modality for possible operation of Mangla Emergency spillway during Monsoon Season 2020.	As a follow-up of the decision taken in 55 th annual meeting of FFC, a meeting of concerned organizations to discuss the interim modality for possible operation of Mangla Dam Emergency Spillway during Monsoon Season 2020 was held on 25th June 2020 under the Chairmanship of CEA/ CFFC. Necessary decisions were taken in the meeting.
4.	Installation of Weather Surveillance Radar at Multan	Secretary, PID Punjab was requested through DO letter dated 18th June 2020 to facilitate PMD for Installation of Weather Surveillance Radar at Multan and settlement of land issue.
5.	National Monsoon Preparedness Conference-2020	FFC attended National Monsoon Preparedness Conference-2020 held on 18th June 2020 , organized by NDMA, where FFC shared their viewpoint.
6.	Army Pre-Flood Coordination Conference 2020.	FFC attended Army Pre-Flood Coordination Conference 2020 held on 10th June 2020 , organized by Arms Branch, Engineers Directorate, GHQ, Rawalpindi, where FFC shared their viewpoint.
7.	Provision of Flood Fighting Plan-2020	CEO, Pakistan Railways, was directed for early provision of Flood Fighting Plan for breaching section at “Railway Embankment Chiniot and Jhang Railway Embankment” on 10th June 2020 .
8.	Meeting regarding preparation of National Master Plan for Flood Telemetry for 15 th June 2020 in FFC, Islamabad	FFC organized meeting of all stakeholders regarding preparation of National Master Plan for Flood Telemetry on 15th June 2020 in FFC, Islamabad. Necessary decisions were taken and all concerned were advised to submit requisite list of proposed/ existing

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		telemetry stations to WAPDA/ FFC.
9.	Purchase of Flood Relief Explosive-Old GT Road	FFC wrote letter to Secretary C&W, Government of Punjab, Lahore on 4th June 2020 requesting for arrangement of explosive material for Arms Branch, Engineers Directorate, GHQ, Rawalpindi.
10.	Operation of Emergency Spillway for smooth flood mitigation at Mangla Dam	Keeping in view the increased inflows in Mangla Dam, FFC wrote letter to Chief Engineer/ PD, Mangla Dam Organization (MDO) on 2nd June 2020 requesting for views/ comments for regulating measures for mitigation of anticipated floods from Mangla Dam during current Monsoon Season-2020 without operating emergency spillway.
11.	Uninterrupted Power supply to FFD Lahore and repair/ replacement of damaged transformer at weather surveillance Radar (WSR), Rahimyar Khan	CEO, MEPCO was requested for waiving off the cost of distribution transformer for smooth functioning of transformer at Rahimyar Khan during Monsoon Season 2020. He was advised to provide uninterrupted power supply to FFD Lahore and repair/ replacement of damaged transformer installed at weather surveillance Radar (WSR), Rahimyar Khan.
12.	Water Situation of the country & actions required	Ministry of Water Resources was informed regarding Water Situation of the country & actions taken by office of CEA/ CFFC to sensitize all stake holders including WAPDA dealing with Flood Management on countrywide basis.
13.	Breaching Section Chiniot Railway Embankment	Secretary, PID Punjab was requested on 19th May 2020 for settlement of issue with Pakistan Railway for arranging necessary explosive for breaching section at Chiniot Railway Embankment.
14.	National Master Plan for Flood Telemetry	FFC submitted detail list of proposed telemetric stations of Sindh, Khyber Pakhtunkhwa and Punjab on the prescribed proforma to GM (HRM), WAPDA, Lahore on 19th May 2020 for preparation of Master Plan of Flood Telemetry on country wide basis.
15.	Preparedness of Flood Forecasting Division, Lahore and Pakistan Meteorological Department to combat the likely floods during Monsoon season 2020	FFC through Secretary, Ministry of Water Resources wrote D.O letter to Secretary, Aviation Division, Islamabad to direct PMD/FFD Lahore to ensure 100% commissioning of Islamabad and Karachi weather radars, reliable functionality of Lahore, Sialkot and Mangla weather radars besides removal of deficiencies from FEWS & IFAS Models for more accurate forecasting.
16.	Flood Monitoring & Early Warning Mangla Dam	Keeping in view the increased in flows in Jhelum River at Mangla, WAPDA & IRSA were advised to device a mechanism for proper mitigation of likely floods during Monsoon 2020 on 15th May 2020 .
17.	Monsoon Season-2020, Setting Up of Flood Communication Cell in the Office of CEA/ CFFC, Islamabad.	FFC informed all concerned organizations on 14th May 2020 regarding Setting Up of Flood Communication Cell in the Office of CEA/ CFFC, Islamabad during Monsoon Season 2020.
18.	National Master Plan for Flood	FFC wrote DO letters to PIDs & FLAs on 13th May

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	Telemetry	2020 requesting to share the respective priority list of new flood telemetry stations for inclusion in the National Master Plan on country wide basis, likely financing out of ADB/ NDRMF.
19.	Monitoring/ Surveillance. Mangla Dam Project: Reservoir filling 1230 ft Post-MCL timing guideline from Dam Safety Organization- WAPDA.	Keeping in view the current hydrological situation i.e. excess snow fall resulting the excess snow melt flow, Member (Water), WAPDA was advised through letter on 11 th May 2020 to furnish, Flood Fighting Plans, Dam Safety Monitoring Plan 2020, complete SOP of Mangla Dam & detailed filling criteria for Mangla Dam beyond EL: 1230 feet, in consultation with FFD/ PMD and IRSA.
20.	Preparatory Measures by Flood Management Organizations to combat 2020-Monsoon Season	DO letter issued to Member (Water), WAPDA for early completion of all necessary preparatory works including repair/ calibration of all seepage measuring devices and instruments to ensure safety of Tarbela and Mangla Dam on 11th May 2020 .
21.		Considering the Monsoon shift and climate change impact, CDA was advised for necessary preparation to combat any urban flooding on 11th May 2020 .
22.	Operation of emergency spillway for smooth flood mitigation at Mangla Dam	FFC wrote letter to WAPDA on 8th May 2020 to submit viable proposal of interim modality to FFC for operation of emergency spillway for smooth flood mitigation in Mangla Dam during Monsoon Season 2020.
23.	General Preparedness Warning at Mangla reservoir level 1210 ft. SPD	Necessary direction were issued to all concerned organizations i.e. Secretary, PID, Punjab, DG, PDMA, DG, SDMA AJ&K, Deputy Commissioner Jhelum and Deputy Commissioner Mirpur, AJ&K on 8th May 2020 to remain vigilant and take all necessary preparatory mechanism to combat any likely emergency situation due to increase in flows in River Jhelum.
24.	Rehabilitation work of Barakas Nullah for Safe Passage of 20,000 cusecs discharge from emergency spillway of Mangla Dam	FFC wrote letter to Arms Branch, Engineers Directorate, GHQ Rawalpindi on 8th May 2020 requesting to arrange special joint meeting of WAPDA, Engineers Directorate, FFC and other concerned quarters in Engineers Directorate GHQ Rawalpindi to resolve the issue regarding rehabilitation work of Barakas Nullah.
25.	Preparation of Contingency plan by Flood Management Organization to combat the likely flood during Monsoon 2020	As a follow-up, all Provinces and FLAs were again advised to complete the preparatory works well before 30 th June 2020. DO letter issued to Chief Secretaries of Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan, Gilgit-Balistan and AJ&K.
26.	Safety of Tarbela Dam in view of the current scenario of storage in Mega Dams.	Keeping in view the current water situation and expected monsoon rains and snow melt office of CEA/ CFCC wrote letter to Chairman WAPDA on 30th April 2020 to update on the current state of affairs and also issue necessary advise for expediting follow up action for compliance of findings/ recommendations of annual report 2019 of Mangla and Tarbela Dams.

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27.	Data of snow fall 2018-19 and 2019-20 in upper Indus Basin	Office of CEA/ CFFC wrote letter to Chairman, Member (Water) & GM (HRM) WAPDA on 29th April 2020 requested to share brief on current state of affairs alongwith predicted in flows to Tarbela Dam due to snow melt and their likely impact on flood during Monsoon season.
28.	Brief on snow fall in Pakistan	Dam Safety Council, Office of CEA/ CFFC wrote letter to PMD on 28 th April 2020 requesting to furnish brief on snow fall occurred in Pakistan during 2019-20.
29.	Flood Fighting Plans of Barrages/ Head-works for Monsoon Season 2020	FFC wrote letter to PID, Punjab on 27th April 2020 for provision of Flood Fighting Plans of all Divisions/ Barrages/ Head works in Punjab.
30.	Preparation of Telephone Directory Monsoon Season-2020	FFC wrote letter to all concerned organization on 24th April 2020 regarding Preparation of Telephone Directory for Monsoon Season-2020 on prescribed format.
31.	Provision of wireless operator for the 2020-Monsoon Season for flood communication cell of Federal Flood Commission	FFC wrote letter to Member (Water) WAPDA on 24th April 2020 for provision of services of Wireless Operator for Monsoon Season 2020.
32.	Rehabilitation work of Barakas Nullah for safe passage of 20,000 cusecs discharge from emergency spillway of Mangla Dam, minutes of meeting held at Engineers Directorate, GHQ, Rawalpindi on 25 th February 2020	FFC wrote letter to Arms Branch, Engineers Directorate, GHQ Rawalpindi on 21st April 2020 to resolve outstanding issues regarding Rehabilitation work of Barakas Nullah.
33.	<p>PC-Is of 4 Nos. Development projects of PMD under Umbrella PC-I of FPSP-III of NFPP-IV;</p> <p>(i) Installation and replacement of weather Radars of PMD under FPSP-III, Sialkot Lahore and Rahim Yar Khan, Estimated Cost Rs. 1,960.00 million.</p> <p>(ii) Installation of Automatic weather stations in Balochistan and Khyber Pakhtunkhwa under FPSP-III, Estimated Cost Rs. 235.00 million.</p> <p>(iii) Establishment of Four flood early warning centers at Gilgit, Peshawar, Multan and Quetta under FPSP-III.</p> <p>(iv) Installation of Weather Radars at Mangla and Cherat under FPSP-III, Estimated Cost Rs. 1,315.00 million.</p>	PMD submitted PC-Is of 4 new Development Projects which were scrutinized by FFC and necessary comments were shared with PMD on 20th April 2020.
34.	Pre-emptive measures to be taken by flood Management related Organizations prior to start of Monsoon Season 2020	As FFC's 1 st Monsoon Preparatory meeting could not be held due to Pandemic COVID-19, accordingly FFC wrote letters to all stakeholders wherein necessary directions were issued for preparation of respective Contingency Plans including all related preparatory measures to combat the any likely flood situation

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		during the monsoon season 2020, on 9th April 2020 .
35.	Rehabilitation works of Barakas Nullah	FFC wrote a letter on 31st March 2020 to Chief Engineer (MDO), Mangla for taking immediate action on recommendations made in the meeting held in Arms Branch, Engineers Directorate, GHQ Rawalpindi on 25 th February 2020 regarding availability of funds for the project, execution of the project, revision of SOPs for passage of flood from Mangla Dam, alternate option of routing Mangla Dam overflow & design of rehabilitation of Barakas Nullah.
36.	FFC Composition, Charter of Duties, Flood Risk Management Mechanism & FFC Past Achievement	FFC Composition, Charter of Duties, Flood Risk Management Mechanism & FFC Past Achievement
37.	Establishment of Flood Communication Cell and Duty Rooster for Monsoon 2020	As per annual practice FFC has established Flood Communication Cell (15th June - 15th October 2020) and issues Daily Flood Situation Report (DFSR) during Monsoon Season 2020.
38.	Installation of Weather Surveillance Radar at Multan under Government of Japan- JICA Grant-in-Aid	FFC wrote DO letter to Secretary, PID Punjab on 16th July 2020 requesting to for resolving the issue of land required for installation of Multan Weather Radar.
39.	Draft Provincial Flood Plain Management Act-2015	FFC wrote DO letter to Chief Secretaries of four Provinces and FLAs on 15th July 2020 requesting to early approval and enforcement of Flood Plain Management/ River Act ensuring removal of existing settlements in river flood plains.