

**GOVERNMENT OF PAKISTAN  
MINISTRY OF WATER RESOURCES**



**PRE MONSOON ACTIONS TAKEN BY FEDERAL  
FLOOD COMMISSION AND PLANNING FOR SAFE  
PASSAGE OF MONSOON 2021**

**JUNE 2021**

**OFFICE OF THE CHIEF ENGINEERING ADVISOR &  
CHAIRMAN FEDERAL FLOOD COMMISSION  
ISLAMABAD**

Federal Flood Commission (FFC) primarily plays coordination role among the Provincial as well as Federal Government Organizations dealing with flood management activities in the country. The details of major actions taken by FFC post 2020 monsoon season and pre-monsoon season 2021, besides those planned/anticipated during monsoon season 2021 are given as under:

**Post Monsoon Season 2020 Actions taken by Federal Flood Commission:**

1. FFC organizes Post Flood Season/ Monsoon Season meetings every year in order to assess the flood damages occurred to Irrigation, Drainage & Flood Protection Infrastructure and chalks out plan for rehabilitation of damaged infrastructure by Provincial Irrigation Departments & Federal Line Agencies through their own resources. Besides this, necessary directions are issued to carry out urgent nature O&M Works and other preparatory works for upcoming monsoon season. For that purpose, FFC organized Post Flood Season 2020 meeting on **16<sup>th</sup> December 2020**. Minutes of the meeting are attached as **Appendix-I**. The following directions were issued to all concerned organizations.

- (i). **Federal Flood Commission** to issue D.O. Letters at the top level to ensure that the funds released to provinces for construction of flood protection works under Normal Emergent Flood Programme are transferred to respective PIDs and then to field formations for provincial chest is badly compromising the purpose of their release. expeditious completion of these works as the undue parking of Federal PSDP funds in provincial chest is badly compromising the purpose of their release.
- (ii). **Provincial Irrigation Departments & Federal Line Agencies (PIDs & FLAs)** to ensure completion of all approved and ongoing food protection schemes taken up under Provincial ADP and Normal Emergent Flood Programme, besides, rehabilitation and Flood Damages Restoration Works including O&M works related to Barrages/Head Works/Bridges, Irrigation, Drainage and Flood Protection Infrastructure well before the start of 2021 monsoon season.
- (iii). **PIDs and FLAs** to pursue the matter with respective Provincial Authorities regarding approval and enactment of River Act (Draft prepared by FFC) for flood plains regulation i.e. removal of existing encroachments and restricting new settlements in the flood plains. The progress on the case to be shared with FFC on regular basis.
- (iv). **PIDs & FLAs** to ensure removal of encroachments from flood plains/ High Risk Zones. waterways of major and other rivers including Hill Torrents Flood Flow generating nullahas, which are under the threat of flood waters and also causing hindrance in flood flows. The progress on the job would be submitted to FFC on monthly basis till completion of the task. The entire exercise be completed well before the start of Monsoon Season 2021.
- (v). **PIDs** to furnish details of O&M funds demanded as per yardstick, allocated, released & utilized during the past 10 years including current financial year (2010-11 - 2019-20) and status of maintenance of flood protection infrastructure to FFC within a month's time.
- (vi). **PID, Punjab** to coordinate with Ravi Urban Development Authority (RUDA) for conduct of model study for "**Increasing Discharge Capacity of Shahdara Railway Bridge across River Ravi**" and ensure its implementation on fast track being a highly sensitive project with respect to vulnerability and threat of high flows from cross border. A status report on this issue be shared with FFC and other stakeholders by January 31, 2021.
- (vii). **PMD** to carry out a detailed assessment of fluctuation of daily temperatures at Skardu during Monsoon Season 2020 and its impact on seasonal flows and especially the





inflows at Tarbela reservoir and furnish a detailed report to FFC within a months' time.

- (viii). **PMD** to ensure that the Weather Radar at Karachi is fully operational before the onset of next Monsoon Season 2021
- (ix). **PID, Sindh** to coordinate with concerned provincial authorities for timely provision of Environmental Study to EAD for actualization of CDWP approved PMD project of installation of Weather Radar at Sukkur.
- (x). **PCIW** to coordinate with the concerned organizations and hold a meeting of Focal Persons within a fortnight to achieve a way forward for efficient working of Special Transfrontier Flood Desk at PCIW during monsoon 2021.
- (xi). **Engineers Directorate, GHQ, Rawalpindi** to make arrangements relocation of Pak Army buildings by HQ 1-Corps from waterway of Barakas Nullah in Mangla garrison, as per results of topographic survey being conducted by MDO, WAPDA so that the waterway is cleared before Monsoon Season 2021 to pass surplus flood water through Emergency Spillway in case of emergency situation.
- (xii). **Engineers Directorate, GHQ, Rawalpindi** to conduct a meeting of all stakeholders finalization and implementation of recommendations made in Kartarpur Corridor Project Model Study conducted by IRI, Nanipur.
- (xiii). **Mangla Dam Organization (MDO), WAPDA** to expedite completion of ongoing topographic survey and geotechnical investigations by end of February 2021. The design of the channel alongwith quantum of work for rehabilitation of Barakas Nullah be optimized in consultation with Pak Army 1-Corp Mangla, for early start of proposed rehabilitation of Barakas Nullah e.i May 2021.
- (xiv). **WAPDA's (H&W Wing)** to make utmost efforts for early completion remaining work of repair and upgradation Flood Telemetry Network i.e 30 June 2021. The progress report be shared with FFC on monthly basis till completion of task.
- (xv). **Deputy Commissioner, Rawalpindi** to ensure removal of encroachments from the banks/ bed of Lai Nullah well before start of Monsoon Season 2021.
- (xvi). **RDA, Rawalpindi** to expedite work on Lai Expressway project to resolve the flooding problem in Rawalpindi city. The progress on Lai Expressway project may also be shared with FFC on regular basis.
- (xvii). **Managing Director WASA Rawalpindi** to carry out fresh site survey and prepare plan for dredging/ desilting of Lai Nullah at critical reaches and process the same for approval and funding arrangements by Provincial Government. The desilting wok be completed before start of Monsoon Season 2021. The progress be shared with FFC on monthly basis till completion of task.

2. A meeting of concerned organizations to discuss the **Interim Modality for possible operation of Mangla Dam Emergency Spillway during Monsoon Season 2021** was held on **29<sup>th</sup> July 2020** under the Chairmanship of Secretary, Ministry of Water Resources. Necessary decisions were taken in the meeting. Minutes of the meetings are attached as **Appendix-II**.

3. FFC organized a meeting of all stakeholders regarding preparation of National Master Plan for Flood Telemetry on **29<sup>th</sup> July 2020** under the Chairmanship of Secretary, Ministry of Water Resources, Islamabad. Minutes of the meetings are attached as **Appendix-III**.

4. A meeting to review the scope & objectives of federally funded Normal/Emergent Flood Programme was organized on **24<sup>th</sup> September 2020** under the Chairmanship of Secretary, Ministry of Water Resources in the Committee Room of Ministry of Water Resources, Islamabad. Minutes of the meeting are attached as **Appendix-IV**



5. FFC organized a meeting on **30<sup>th</sup> September 2020** under the Chairmanship of CEA/ CFFC regarding **Digital Water Accounting & Flood Warning Management Solutions**. Minutes of the meeting are attached as **Appendix-V**
6. The **11<sup>th</sup> Progress Review Meetings of FFC's** was organized on **28<sup>th</sup> October 2020** to review progress related to directions given by the Honorable Supreme Court of Pakistan regarding Constitution Petition No. 62 of 2010 filed by Ms. Marvi Memon versus Federation of Pakistan. Minutes of the meeting are attached as **Appendix-VI**.
7. FFC took up the case with Provincial Irrigation Departments and Federal Line Agencies to finalize the prioritized the list of emergent flood protection schemes and taken up twenty nine (29) flood protection schemes for execution under Normal/Emergent Flood Programme (2020-21).
8. FFC attended the **Pak Army Post Flood Coordination Conference -2020** held on **17<sup>th</sup> December 2020** in Engineers Directorate GHQ, Rawalpindi. Details of Notice/ nomination letter are attached as **Appendix-VII**.
9. A meeting was organized in office of CEA/ CFFC under the Chairmanship of CEA/ CFFC on **19<sup>th</sup> Janaury 2021** for **finalization of Concept Clearance Paper (CCP) for Installation of Early Warning System under TIKa Grant-in-Aid**. Minutes of the meeting are attached as **Appendix-VIII**.
10. A meeting was organized in office of CEA/CFFC under the Chairmanship of CEA/ CFFC for the **Revision in the design criteria and implementation methodology of flood protection projects in Pakistan** held on **26<sup>th</sup> Janaury 2021**. Minutes of the meeting are attached as **Appendix-IX**.
11. Three (3) meetings of Scrutinizing Committee of FFC were organized on **10<sup>th</sup> March 2021, 26<sup>th</sup> March 2021 & 13<sup>th</sup> April 2021** during current financial year (2020-21), wherein six 6 numbers flood protection scheme were examined and four (4) technically cleared subject to compliance of certain observations for further processing through DDWP of Ministry of Water Resources. Minutes of the meeting are attached as **Appendix-X**.
12. A meeting was organized in office of CEA/CFFC under the Chairmanship of CEA/ CFFC on **10<sup>th</sup> March 2021** regarding **Financing of Umbrella PC-I of Flood Protection Sector Project (FPSP-III), Estimated Cost R.s 95.980 Billion**. Minutes of the meeting are attached as **Appendix-XI**.
13. A meeting was organized in office of CEA/CFFC under the Chairmanship of CEA/ CFFC on **10<sup>th</sup> March 2021** regarding **Procurement and Installation of Forty Five (45) flood telemetry stations being funded by JICA through Grant-in-Aid Programme**. Minutes of the meeting are attached as **Appendix-XII**.
14. FFC organized a meeting in the Committee Room of office of CEA/ CFFC regarding **Updation of Lag Time and Flood Limits/ Classification of Major Rivers of the country** held on **11<sup>th</sup> March 2021** under the Chairmanship of CEA/CFFC. Minutes of the meeting are attached as **Appendix-XIII**.
15. A follow-up meeting was organized in office of CEA/CFFC under the Chairmanship of CEA/ CFFC for the **Revision in the design criteria and implementation methodology of flood protection projects in Pakistan** held on **17<sup>th</sup> March 2021**. Minutes of the meeting are attached as **Appendix-XIV**.



16. FFC wrote various D.O letters to stakeholders during the current financial year. Details are given as under;

- a. D.O letter to Chief Secretaries of four provinces and FLAs on **15<sup>th</sup> July 2020** advising for the approval and strict enforcement of Provincial Flood Plain Management Act.
- b. Secretary, PID Punjab was requested through D.O letter dated **16<sup>th</sup> July 2020 & 18<sup>th</sup> July 2020** to facilitate PMD for Installation of Weather Surveillance Radar at Multan and settlement of land issue.
- c. FFC wrote D.O letter to Chairman, IRSA on **17<sup>th</sup> August 2020** advising for pre-emptive measures to avoid any catastrophic situation during the period 19<sup>th</sup> to 21<sup>st</sup> August 2020.
- d. D.O letter to Additional Chief Secretaries/ Chairman (P&D) Board of four provinces and FLAs on **2<sup>nd</sup> October 2020** advising for the submission of Completion Reports (PC-IVs) of completed flood protection projects to FFC.
- e. The lists of schemes received from Provincial Irrigation Departments & FLAs (Merged Area, GB & AJ&K) in August 2020 to be executed under PSDP (2020-21) were returned with the advice to review their priority list of schemes and re-submit community benefited schemes through this office D.O letter on **8<sup>th</sup> October 2020**.
- f. D.O letter to Chairman, CPEC Authority requesting for possible financing of flood protection initiatives of Federal Flood Commission through CPEC funds on **8<sup>th</sup> October 2020**.
- g. D.O letter to Chairman, WAPDA on **4<sup>th</sup> December 2020** regarding National Master Plan for River Water & Flood Telemetry.
- h. D.O letter to Chairman, WAPDA on **7<sup>th</sup> December 2020** advising for the submission of PC-I of Procurement and Installation of Forty Five (45) flood telemetry stations being funded by JICA through Grant-in-Aid Programme. Copies of D.O letters are attached as **Appendix-XV**.

17. One of the main functions of FFC is to monitor the flood projects being executed through Normal/Emergent Flood Programme. In spite of limited manpower and logistic support, the FFC monitoring team carried out 34 Nos. site visits and issued the Inspection Reports, (**Appendix-XVI**). The details of monitoring visits carried out by the FFC Monitoring Teams carried out during July 2020 to June 2021 (financial year 2020-21) are given as under;

Sr. #	Name of Scheme	Approved Cost (Rs. Million)	Date of Field Visits
1.	Construction of flood protection works at Pakora Hoto, Skardu, Gilgit-Baltistan.	25.000	14 <sup>th</sup> -17 <sup>th</sup> September 2021.
2.	Construction of flood protection works at Surmo.	16.428	
3.	Construction of protective bund at Ghursey	24.113	
4.	Construction of protective bund at Sailling (Phase-II)	12.786	
5.	Construction of flood protection works at vulnerable locations & its tributaries in District Bannu.	20.00	5 <sup>th</sup> October 2020



Sr. #	Name of Scheme	Approved Cost (Rs. Million)	Date of Field Visits
6.	Construction of J-Head Spur at RD 20+000 and Guide Head Spur at RD 25+000 Mgassan Branch District Muzaffargarh, D.G Khan Zone.	513.399	24 <sup>th</sup> - 26 <sup>th</sup> November 2020
7.	Restoration of J-Head Spur at RD 165+000 at Link No. 1, District D.G Khan	246.980	
8.	Restoration of J-Head Spur at RD 167+000 of Link No. 1, District D.G Khan	144.950	
9.	Extension of Existing J-Head Spur at RD 188+000 of Line No. 1	133.597	
10.	Construction of 9 No. stone studs to protect villages and abadies (Manjhota, Sewang, Sasti and Sangi) from flood flows of Sanghar Hill Torrent, D.G Khan Zone	55.431	
11.	Construction of flood protection works on right side of Ismaila Drain in Ismaila Village, Swabi.	8.660	4 <sup>th</sup> December 2020.
12.	Construction of flood protection work for the protection of agricultural land U/S & D/S of causeway along Ismaila Drain (Naranji nullah in Village Ismaila), District Swabi.	15.00	
13.	Extension of Existing Flood Protection Structures at Brarkot left bank of River Kunhar.	15.761	29 <sup>th</sup> December 2020
14.	Construction of flood protection works on right side of Ismaila Drain in Ismaila Village, Swabi.	8.660	22 <sup>nd</sup> to 23 <sup>rd</sup> January 2021.
15.	Construction of flood protection work for the protection of agricultural land U/S & D/S of causeway along Ismaila Drain (Naranji nullah in Village Ismaila), District Swabi.	15.000	
16.	Construction of flood protection work at Sawal Dher Bakrai Khapa, District Mardan	7.00	
17.	Construction of 9 No. stone studs to protect villages and abadies (Manjhota, Sewang, Sasti and Sangi) from flood flows of Sanghar Hill Torrent	55.431	28 <sup>th</sup> March 2021
18.	Construction/ Improvement of flood protection works along Bullar Nullah for protection of Daulat Minor at Rd 40000-49500 & agricultural land, village abadies at Village Gidar (Mahmood Abad) Gumbat & Kandar area, District Mardan.	14.81	9 <sup>th</sup> April 2021
19.	Construction of guide walls for protection of Khandaq right to Munawar forward situated along right bank of river Munawar Tawi.	108.622	5 <sup>th</sup> May 2021

18. As per decision taken in meeting under Chairmanship of Secretary, Ministry of Water Resources, held on **24<sup>th</sup> September 2020**, the Inspection Team of FFC visited the sites of proposed flood protection projects to be implemented under Normal/ Emergent Flood Programme (2020-21/ 2021-22) and issued Inspection Reports (**Appendix-XVII**)

20.	Providing Stone Apron, Stone Pitching L.S. Bund Mile 16/7 to 17/2 in Northern Dadu	180.638	5 <sup>th</sup> to 7 <sup>th</sup> January 2021.
21.	Constructing 5 Nos. Stone Studs at mile 12/3 + 350 to 12/7 along S.M Bund in Kandiaro Bund Sub Division.	176.612	



22.	Strengthening & Widening of Stone Apron of Main Bund, T-Head Spur & J-Head Spur of Main Bund at Munarki Point Mile 43/2 to 44/2+560 in Lower Pinyari Division Sujawal.	168.353	
23.	Construction Of Flood Protection Bund Downstream of Kochi Bridge on left side of Kurram River in Lower Kurram.	44.899	11 <sup>th</sup> January 2021
24.	Checking erosive action of River Indus (left side) along 1-AR Minor in the area of Lundi Pitafi, District Muzaffargarh.	309.028	19 <sup>th</sup> to 21 <sup>st</sup> January 2021
25.	Checking erosive action of River Chenab at RD 31+000 of Massan Flood Bund and at RD 6+300 of J-Head Spur no. 1, District Jhang.	113.823	
26.	Protection from erosive action of River Jhelum on left side near village megha Kai Tehsil Shahpur, District Sargodha, diversion structure near Gaga village, Tehsil Bhera and to save the land/ abadies near Chak Mubarak, District Sargodha	164.00	
27.	Construction of Flood Protection Structures along Swat River and its Tributary in Tehsil Matta & Khwazakhela District Swat.	165.00	30 <sup>th</sup> Januray 2021
28.	Construction of flood protection of Umaidabad Durraigi area, <b>District Lasbella</b>	22.50	23 <sup>rd</sup> to 26 <sup>th</sup> February 2021
29.	Construction of flood protection of Mirwani Darakala Whad Area, <b>District Khuzdar</b>	2.00	
30.	Construction of flood protection of Khalilbadari Shad area, <b>District Khuzdar</b> .	2.00	
31.	Construction of flood protection scheme Sari Kauran Washaab, <b>District Panjgoor</b>	20.00	
32.	Construction of flood protection bund for agriculture land of Honuk Shahbug Kerichi area, <b>District Washuk</b>	2.50	
33.	Construction of flood protection bund for right side of Killi Mir Gahwar khan Khaliq Abad Mangochar, <b>District Kalat</b> .	2.00	
34.	Construction of flood protection bund in Gresha Area, Tehsil Nal, <b>District Khuzdar</b>	20.00	

19. Three (3) Progress Review meetings, first on 5<sup>th</sup> August 2020, second on 16<sup>th</sup> December 2020 & third on 2<sup>nd</sup> February 2021 were organized to review the progress of ongoing flood projects being executed under Normal/Emergent Flood Programme, for the current year (2020-21). Minutes of the meetings were issued with necessary directions to the Provincial Irrigation Department & Federal Line Agencies for compliance of decisions recorded in the minutes. Minutes of the meetings are attached as Annexure-XVIII.

#### Pre Monsoon Season 2021, actions taken by Federal Flood Commission

1. FFC chalks out Pre-emptive measures for better flood management during monsoon season each year, which are circulated to all stakeholders for taking further action at their end. For that purpose, first Pre-Monsoon Meeting of Federal Flood Commission was also held on 27<sup>th</sup> April 2021 to review the progress on decisions taken in Post 2020 Floods Meeting and other preparatory works for upcoming Monsoon Season 2021. Minutes of the 1<sup>st</sup> Pre-Monsoon 2021 meeting of Federal Flood Commission are attached as Appendix-XIX.