



No. FC-I (23)/ 2023  
Government of Pakistan  
Ministry of Water Resources  
O/O the Chief Engineering Adviser/  
Chairman Federal Flood Commission

Chief Engineering Adviser &  
Chairman, FFC  
Tel: 051-9244600  
: 051-9244604

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Monsoon Season 2024 and Flood Management at Mangla Dam

Dear Safder Ali Khan Sb

اسلام علی خان

Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events of heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated as per PMD's reports. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories.

3. For effective preparatory arrangements towards Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including effective management of reservoirs (Mangla & Tarbela in particular) to ensure optimal utilization of inflows for filling/ releases based on the meteorology and hydrology and in alignment with Reservoirs operation rules/ SoPs.

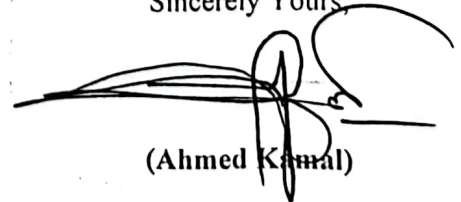
4. Considering the current water storage level of Mangla Reservoir, which exceeds that of the previous year, it is vital for Mangla Dam management to expedite all preparatory measures. This includes repairing and maintaining instrumentation systems, hydraulic gates, and other-measuring instruments. Since the issue of Barakas Nullah is still to be resolved, operation of main dam spillway would require utmost care and field excellence so that downstream man-made flooding is avoided, in case of Category-II /Category-III floods in particular. As has been advised earlier contingency plan be finalized and put in place in case the designed discharge cannot be released into Barakas Nullah.

5. Furthermore, it is essential to notify the Flood Mitigation Committee in accordance with approved Standard Operating Procedures (SOPs) well in advance. Coordination with the management of District Jhelum is of paramount importance for the removal of encroachments downstream of River Jhelum for Category II and III floods in the event of any emergency situations during the upcoming Monsoon 2024.

6. In view of the above, I would solicit your personal attention and on behalf of Mangla Dam Management to issue necessary directions to all concerned for taking pro-active measures to combat and mitigate any potential flooding issues during monsoon 2024 and without compromising dam safety.

With profound regards,

Sincerely Yours,

  
(Ahmed Kamal)

Mr. Safder Ali Khan  
General Manager,  
Mangla Dam Organization,  
Mangla Jhelum

Copy for information to:

1. Chief Secretary, Government of the Punjab, Lahore.
2. Chief Secretary, Government of Sindh, Karachi.
3. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Secretary, Government of Balochistan, Quetta.
5. Chief Secretary, Government of AJ&K, Muzaffrabad.
6. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
7. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
8. Director General, Provincial Disaster Management Authority, Govt. of Sindh, Karachi.
9. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
10. Director General, Provincial Disaster Management Authority, Govt. of Balochistan, Quetta.
11. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffrabad.
12. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
13. Secretary, Irrigation Department, Government of the Punjab, Lahore.
14. Secretary, Irrigation Department, Government of Sindh, Karachi.
15. Secretary, Irrigation Department, Government of KP, Peshawar.
16. Secretary, Irrigation Department, Government of Balochistan, Quetta.
17. Secretary, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffrabad.
18. Secretary, Water Management & Irrigation, Govt. of Gilgit-Baltistan, Gilgit.
19. Director General Pakistan Meteorological Department, Islamabad.
20. Chairman Indus River System Authority (IRSA), Islamabad.
21. Member (Water) WAPDA, WAPDA House, Lahore.
22. Chief Meteorologist, Flood Forecasting Division, Lahore.
23. General Manager, Tarbela Dam Project, Tarbela.
24. P.S to Secretary, Ministry of Water Resources, Islamabad.
25. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
26. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
27. P.S to Secretary Ministry of Aviation, Islamabad.
28. P.S to Chairman NDMA, Islamabad.
29. P.S to Chairman WAPDA, WAPDA House, Lahore.
30. P.S to Chairman SUPARCO, Islamabad.
31. P.S to CEA/CFFC, Islamabad.
32. P.S to D.G Engineers, Engineers Directorate, GHQ, Rawalpindi.



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Tel: 051-9244600  
: 051-9244604

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Monsoon Season 2024 and Flood Management at Tarbela Dam

Dear Anwar Shah

اسلام علیہ

Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events of heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated as per PMD's reports. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories.


3. For effective preparatory arrangements towards Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including effective arrangement of reservoirs (Mangla & Tarbela in particular) to ensure optional utilization of inflows for filling/ releases based on the meteorology and hydrology and in alignment with Reservoirs operation rules/ SoPs.

4. Given the current water storage levels in Tarbela Reservoir, which has exceeded compared to the previous year owing to snowmelt by the heatwave, March 2024 rainfall, and the decision of the IRSA Advisory Committee regarding dam filling, it is essential for Tarbela Dam Management to accelerate all preparatory measures. This includes repairs and maintenance of instrumentation systems, hydraulic gates, and other water measuring arrangements well in advance of the 2024 monsoon season. Additionally, it would be highly desirable to implement all arrangements in line with the contingency planning and approved Standard Operating Procedures (SOPs) in a timely manner before the onset of the 2024 monsoon season. Furthermore, it is important to ensure implementation of Contingency Plan in case of any emergent situation that may arise during the monsoon season for the ongoing construction works on Tunnel-5 of Tarbela Dam project.

5. In view of the above, I would solicit your personal attention and on behalf of Tarbela Dam Management to issue necessary directions to all concerned for taking pro-active measures to combat and mitigate any potential flooding issues during monsoon 2024 and without compromising dam safety.

With profound regards,

Sincerely Yours,

  
(Ahmed Kamal)

Mr. Anwar Shah  
General Manager,  
Tarbela Dam Project,  
Tarbela

Copy for information to:

1. Chief Secretary, Government of the Punjab, Lahore.
2. Chief Secretary, Government of Sindh, Karachi.
3. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Secretary, Government of Balochistan, Quetta.
5. Chief Secretary, Government of AJ&K, Muzaffrabad.
6. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
7. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
8. Director General, Provincial Disaster Management Authority, Govt. of Sindh, Karachi.
9. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
10. Director General, Provincial Disaster Management Authority, Govt. of Balochistan, Quetta.
11. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffrabad.
12. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
13. Secretary, Irrigation Department, Government of the Punjab, Lahore.
14. Secretary, Irrigation Department, Government of Sindh, Karachi.
15. Secretary, Irrigation Department, Government of KP, Peshawar.
16. Secretary, Irrigation Department, Government of Balochistan, Quetta.
17. Secretary, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffrabad.
18. Secretary, Water Management & Irrigation, Govt. of Gilgit-Baltistan, Gilgit.
19. Director General Pakistan Meteorological Department, Islamabad.
20. Chairman Indus River System Authority (IRSA), Islamabad.
21. Member (Water) WAPDA, WAPDA House, Lahore.
22. Chief Meteorologist, Flood Forecasting Division, Lahore.
23. General Manager, Tarbela Dam Project, Tarbela.
24. P.S to Secretary, Ministry of Water Resources, Islamabad.
25. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
26. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
27. P.S to Secretary Ministry of Aviation, Islamabad.
28. P.S to Chairman NDMA, Islamabad.
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Chairman, Federal Flood Commission

Chief Engineering Adviser &  
Chairman, FFC

Plot No. 06, Ataturk Avenue, G-5/1  
Islamabad, the May 31, 2024

Tel: 051-9244600  
051-9244604

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Wasif Khurshed Sb.

اسلام علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories. Impact of heat wave/ high temperature in the Northern Areas is already being manifested by the much increased inflows in Indus River especially.

3. In anticipation of the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, and all the flood generating nullahs, taking cognizance of most critical / vulnerable river reaches, structures etc.

4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Provincial Irrigation Department Punjab is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments, using the available legal framework of the Punjab Flood Plain Management Act-2016.

5. Towards the above, excellent cooperation and real time coordinations with all related federal as well as provincial stakeholders/ entities would be direly needed to ensure best inter agency and inter-provincial preparedness and response actions. Round-the-clock coordination with PDMA, DDMA, dams and barrages management would pave the way in minimizing flood situation on ground. Special attention to the hill torrent areas in particular the Koh-e- Sulaiman hill torrent based on 2022 flood would be mandatory. I would also very strongly urge PID Punjab for urgent completion of all those 2022 flood damages rehabilitation & reconstruction works which PID Punjab has been implementing directly with the funding support of donors (ADB/ the World Bank etc.) and PD& SI Division Islamabad.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life and public & private properties, besides the irrigation and flood protection infrastructure.

With profound regards,

Sincerely Yours

(Ahmed Kamal)

o/c

Mr. Wasif Khurshed  
Secretary,  
Irrigation Department,  
Government of the Punjab,  
Lahore

**Copy for information to:**

1. Chief Secretary, Government of the Punjab, Lahore.
2. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
3. Chief Engineer (D&F), D&F Zone, Irrigation Department, Govt. of the Punjab, Lahore.
4. Chief Engineer, Lahore Zone, Irrigation Department, Govt. of the Punjab, Lahore.
5. Chief Engineer, Sargodha Zone, Irrigation Department, Govt. of the Punjab, Sargodha.
6. Chief Engineer, Sahiwal Zone, Irrigation Department, Govt. of the Punjab, Sahiwal.
7. Chief Engineer, Faisalabad Zone, Irrigation Department, Govt. of the Punjab, Faisalabad.
8. Chief Engineer, Multan Zone, Irrigation Department, Govt. of the Punjab, Multan.
9. Chief Engineer, Bahawalpur Zone, Irrigation Department, Govt. of the Punjab, Bahawalpur.
10. Chief Engineer, D.G. Khan Zone, Irrigation Department, Govt. of the Punjab, D.G. Khan Zone.
11. Director General Pakistan Meteorological Department, Islamabad.
12. Chief Meteorologist, Flood Forecasting Division, Lahore.
13. General Manager, Tarbela Dam Project, Tarbela.
14. General Manager, Mangla Dam Organization, Mangla.
15. P.S to Secretary, Ministry of Water Resources, Islamabad.
16. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
17. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
18. P.S to Secretary Ministry of Aviation, Islamabad.
19. P.S to Chairman NDMA, Islamabad.
20. P.S to Chairman WAPDA, WAPDA House, Lahore.
21. P.S to Chairman SUPARCO, Islamabad.
22. P.S to CEA/CFFC, Islamabad.
23. P.S to D.G Engineers, Engineers Directorate, GHQ, Rawalpindi.

*[Handwritten signature]*

4



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CEA/CFFC  
Tel: 051-9244600  
Fax: 051-9244604

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear *Hafiz Abdul Majid sb*

*اسلام علیہ*

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

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3. In anticipation of the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, and all the flood generating nullahs, taking cognizance of most critical / vulnerable river reaches, structures etc.

4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Provincial Irrigation Department Balochistan is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments, using the available legal framework in Balochistan Province.

5. Towards the above, excellent cooperation and real time coordination with all related federal as well as provincial stakeholders/ entities would be direly needed to ensure best inter agency and inter-provincial preparedness and response actions. Round-the-clock coordination with PDMA, DDMA, dams and barrages management would pave the way in minimizing flood situation on ground. Special attention to the most vulnerable areas (dams, structures etc.) badly hit by 2022 floods would be mandatory including small and medium dams, weirs, embankments etc. I would very strongly urge PID Balochistan for urgent completion of all those 2022 flood damages rehabilitation & reconstruction works which PID Balochistan has been implementing directly with the funding support of donors (ADB/ the World Bank etc.) and PD& SI Division Islamabad.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life and public & private properties, besides the irrigation and flood protection infrastructure.

With profound regards,

Sincerely Yours,

(Ahmed Kamal)

Mr. Hafiz Abdul Majid  
Secretary,  
Irrigation Department,  
Government of Balochistan,  
Quetta

Copy for information to:

1. Chief Secretary, Government of Balochistan, Quetta.
2. Director General, Provincial Disaster Management Authority, Govt. of Balochistan, Quetta.
3. Chief Engineer Quetta, Irrigation Department, Government of Balochistan, Quetta.
4. Chief Engineer Canal Irrigation Quetta, Irrigation Department, Govt. of Balochistan, Quetta.
5. Chief Engineer Khuzdar, Irrigation Department, Government of Balochistan, Khuzdar.
6. Chief Engineer Mekran, Irrigation Department, Government of Balochistan, Mekran.
7. Director General Pakistan Meteorological Department, Islamabad.
8. Chief Meteorologist, Flood Forecasting Division, Lahore.
9. General Manager, Tarbela Dam Project, Tarbela.
10. General Manager, Mangla Dam Organization, Mangla
11. P.S to Secretary Ministry of Aviation, Islamabad.
12. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
13. P.S to Secretary, Ministry of Water Resources, Islamabad.
14. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
15. P.S to Chairman NDMA, Islamabad.
16. P.S to Chairman WAPDA, WAPDA House, Lahore.
17. P.S to Chairman SUPARCO, Islamabad.
18. P.S to CEA/CFFC, Islamabad.
19. P.S to D.G Engineers, Engineers Directorate, GHQ, Rawalpindi.

*O/c*





CEA/CFFC  
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Chairman Federal Flood Commission

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Amir Mehmood Mirza Sb

اسلام علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories. Impact of heat wave/ high temperature in the Northern Areas is already being manifested by the much increased inflows in Indus River especially.

3. In anticipation of the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, and all the flood generating nullahs, taking cognizance of most critical/ vulnerable river reaches and sparsely located hill torrents in particular the AJ&K hill torrent in Chenab catchment.

4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Irrigation and Small Dams Organization, AJ& K is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments, using the available legal framework in AJ&K.

5. Towards the above, excellent cooperation and real time coordination with all related federal as well as provincial stakeholders/ entities would be direly needed to ensure best inter agency and inter-provincial preparedness and response actions. Round-the-clock coordination with SDMA, DDMA, dams and barrages management would pave the way in minimizing flood situation on ground. Special attention to the most vulnerable areas would be mandatory including flood protection structures under your jurisdiction.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all the concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life, public and private properties, besides the irrigation and flood protection infrastructure.

With profound regards,

Sincerely Yours,

(Ahmed Kamal)

Mr. Amir Mehmood Mirza  
Secretary,  
Irrigation & Small Dams Organization,  
Government of Government of AJ&K  
Muzaffarabad

**Copy for information to:**

1. Chief Secretary, Government of AJ&K, Muzaffrabad.
2. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffrabad.
3. Director General Irrigation, Government of AJ&K, Muzaffrabad.
4. Deputy Director Irrigation Muzaffrabad, Government of AJ&K, Muzaffrabad.
5. Deputy Director Irrigation Poonch Division, Government of AJ&K, Rawalakot.
6. Deputy Director Irrigation Mirpur, Government of AJ&K, Mirpur.
7. Director General Pakistan Meteorological Department, Islamabad.
8. Chief Meteorologist, Flood Forecasting Division, Lahore.
9. General Manager, Tarbela Dam Project, Tarbela.
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6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Muhammad Azam Khan - Sahib

احمد علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

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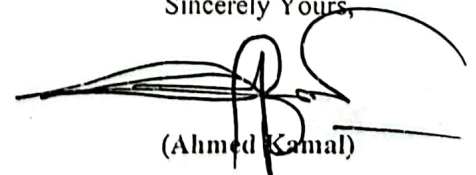
4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Water Management & Irrigation, Gilgit-Baltistan is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments using the available legal framework in Gilgit-Baltistan.

5. Towards the above, excellent cooperation and real time coordination with all related federal as well as provincial stakeholders/entities would be direly needed to ensure best inter-agency and inter-provincial preparedness and response actions. Round-the-clock coordination with GBDMA and DDMA would pave the way in minimizing flood situation on ground. Special attention to the most vulnerable areas would be mandatory.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all the concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life, public and private properties, besides the irrigation and flood protection infrastructure.

With profound regards,

Sincerely Yours,



(Ahmed Kamal)

Mr. Muhammad Azam Khan  
Secretary,  
Water Management & Irrigation  
Government of Gilgit-Baltistan  
Gilgit

**Copy for information to:**

1. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
2. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
3. Director Water Management & Irrigation, Government of Gilgit-Baltistan, Gilgit.
4. Director General Pakistan Meteorological Department, Islamabad.
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May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear *Muhammad Tahir Orakzai Sb*

اسلام علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories. Impact of heat wave/ high temperature in the Northern Areas is already being manifested by the much increased inflows in Indus River especially.

3. In anticipation of the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, and all the flood generating nullahs, taking cognizance of most critical/ vulnerable river reaches, structures etc.

4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Provincial Irrigation Department Khyber Pakhtunkhwa is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments, using the available legal framework in Khyber Pakhtunkhwa Province.

5. Towards the above, excellent cooperation and real time coordination with all related federal as well as provincial stakeholders/ entities would be direly needed to ensure best inter-agency and inter-provincial preparedness and response actions. Round-the-clock coordination with PDMA, DDMA, dams and barrages management would pave the way in minimizing flood situation on ground. Special attention to the most vulnerable areas, hit badly by the 2022 floods would be mandatory including the Munda Head Work, CRBC damage restoration etc. I would very strongly urge PID KP for urgent completion of all those 2022 flood damages rehabilitation & reconstruction works which PID KP has been implementing directly with the funding support of donors (ADB/ the World Bank etc.) and PD& SI Division Islamabad.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life and public & private properties, besides the irrigation and flood protection infrastructure.

With profound regards

Sincerely Yours,

(Ahmed Kana)

Mr. Muhammad Tahir Orakzai  
Secretary,  
Irrigation Department,  
Government of Khyber Pakhtunkhwa,  
Peshawar

**Copy for information to:**

1. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
2. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
3. Chief Engineer North, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Engineer South, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
5. Chief Engineer Merged Areas KP, Irrigation Department, Govt. of KP, Peshawar.
6. Director General Pakistan Meteorological Department, Islamabad.
7. Chief Meteorologist, Flood Forecasting Division, Lahore.
8. General Manager, Tarbela Dam Project, Tarbela.
9. General Manager, Mangla Dam Organization, Mangla.
10. P.S to Secretary Ministry of Aviation, Islamabad.
11. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
12. P.S to Secretary, Ministry of Water Resources, Islamabad.
13. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
14. P.S to Chairman NDMA, Islamabad.
15. P.S to Chairman WAPDA, WAPDA House, Lahore.
16. P.S to Chairman SUPARCO, Islamabad.
17. P.S to CEA/CFFC, Islamabad.
18. P.S to D.G Engineers, Engineers Directorate, GHQ, Rawalpindi.



CEA/CFFC  
Tel: 051-9244600  
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No. FC-I (23)/ 2023  
Government of Pakistan  
Ministry of Water Resources  
O/O the Chief Engineering Adviser/  
Chairman Federal Flood Commission

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Zarif Iqbal Khoro sb

اسلام علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been evident through recent events such as heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) causing significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories. Impact of heat wave/ high temperature in the Northern Areas is already being manifested by the much increased inflows in Indus River especially.

3. In anticipation of the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. During the meetings deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, and all the flood generating nullahs, taking cognizance of most critical/ vulnerable river reaches, structures etc.

4. In view of global climatic changes, we must be well-prepared to avoid any eventuality similar to 2022. Therefore, the Provincial Irrigation Department Sindh is required to complete all preparatory actions well before the onset of Monsoon 2024. These actions include, but are not limited to, the provision of necessary material stock at vulnerable locations, the arrangement of necessary equipment and manpower to combat likely floods, the implementation of flood fighting plans, and the removal of encroachments, using the available legal framework in Sindh Province.

5. Towards the above, excellent cooperation and real time coordination with all related federal as well as provincial stakeholders/ entities would be direly needed to ensure best inter agency and inter-provincial preparedness and response actions. Round-the-clock coordination with PDMA, DDMA, dams and barrages management would pave the way in minimizing flood situation on ground. Special attention to the hill torrent areas in particular the Kirther Range hill torrents based on 2022 floods would be mandatory including the F.P Bund, Humal Lake, Mancher Lake, MNV Drain related issues. I would also very strongly urge PID Sindh for urgent completion of all those rehabilitation & reconstruction works which PID Sindh has been implementing directly with the funding support of donors (ADB/ the World Bank etc.) and PD& SI Division Islamabad, besides compliance of decisions of various meetings of Sindh Flood Relief Committee taken under the then Minister for Water Resources.

6. In view of the above, I would solicit your personal attention to issue necessary directions to all concerned for taking timely actions in the larger national interest to combat any untoward situation in any rain/ flood emergency including safety of human life and public & private properties, besides the irrigation and flood protection infrastructure.

With profound regards,

Sincerely Yours,

(Ahmed Kamal)

Mr. Zarif Iqbal Khoro  
Secretary,  
Irrigation Department,  
Government of Sindh,  
Karachi

**Copy for information to:**

1. Chief Secretary, Government of Sindh, Karachi.
2. Director General, Provincial Disaster Management Authority, Govt. of Sindh, Karachi.
3. Chief Engineer Guddu Barrage Region, Irrigation Department, Govt. of Sindh, Sukkur
4. Chief Engineer Sukkur Barrage, Left Bank Region, Irrigation Depart. Govt. of Sindh, Sukkur.
5. Chief Engineer Sukkur Barrage, Left Bank Region, Irrigation Depart., Govt. of Sindh, Larkana.
6. Chief Engineer Kotri Barrage Region, Irrigation Department, Govt. of Sindh, Hyderabad.
7. Managing Director Sindh Irrigation & Development Authority (SIDA), Hyderabad.
8. Chief Engineer Development Region Hyderabad, Irrigation Department, Govt. of Sindh, Hyderabad.
9. Director General Pakistan Meteorological Department, Islamabad.
10. Chief Meteorologist, Flood Forecasting Division, Lahore.
11. General Manager, Tarbela Dam Project, Tarbela.
12. General Manager, Mangla Dam Organization, Mangla.
13. P.S to Secretary Ministry of Aviation, Islamabad.
14. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
15. P.S to Secretary, Ministry of Water Resources, Islamabad.
16. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
17. P.S to Chairman NDMA, Islamabad.
18. P.S to Chairman WAPDA, WAPDA House, Lahore.
19. P.S to Chairman SUPARCO, Islamabad.
20. P.S to CEA/CFFC, Islamabad.
21. P.S to D.G Engineers, Engineers Directorate, GHQ, Rawalpindi.





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O/O the Chief Engineering Adviser/  
Chairman Federal Flood Commission

Chief Engineering Adviser &  
Chairman, FFC  
Tel: 051-9244600  
: 051-9244604

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Sir,

اسلام آباد

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been clearly manifested by the recent events of heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) resulting into significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated as per PMD's reports. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories.

3. For effective flood management during the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024. During the meetings detailed deliberations were made upon pivotal measures, including the urgent need to remove encroachments from the flood plains of rivers, streams, nullahs and the upkeep road network of NHA and the bridges of both Pakistan Railways & NHA.

4. Given the ongoing global climatic changes, it is imperative that we are adequately prepared to prevent any occurrences akin to those experienced in 2022. Therefore, the National Highway Authority (NHA) is tasked with completing all preparatory measures well in advance of the onset of Monsoon 2024. Furthermore, NHA is requested to mobilize essential resources, on priority, at critical sections of national highways on country-wide basis for prompt flood mitigation and response measures, besides ensuring inspection of all bridges crossing streams, nullahs, and main rivers facilitating clear waterways by removal of debris for smooth water flow during Monsoon 2024, while also avoiding any significant backflow upstream of the bridges.

5. In view of the above, I would solicit your personal attention to kindly issue necessary directions to your all the concerned field formations for taking timely action in the greater national interest to minimize potential flood damages and keep functional the important communication routes.

With profound regards,

Sincerely Yours,

(Ahmed Kamal)

Mr. Arshad Majeed  
Chairman,  
National Highway Authority,  
Islamabad

Copy for information to:

1. Chief Secretary, Government of the Punjab, Lahore.
2. Chief Secretary, Government of Sindh, Karachi.
3. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Secretary, Government of Balochistan, Quetta.
5. Chief Secretary, Government of AJ&K, Muzaffrabad.
6. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
7. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
8. Director General, Provincial Disaster Management Authority, Govt. of Sindh, Karachi.
9. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
10. Director General, Provincial Disaster Management Authority, Govt. of Balochistan, Quetta.
11. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffrabad.
12. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
13. Secretary, Irrigation Department, Government of the Punjab, Lahore.
14. Secretary, Irrigation Department, Government of Sindh, Karachi.
15. Secretary, Irrigation Department, Government of KP, Peshawar.
16. Secretary, Irrigation Department, Government of Balochistan, Quetta.
17. Secretary, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffrabad.
18. Secretary, Water Management & Irrigation, Govt. of Gilgit-Baltistan, Gilgit.
19. Director General Pakistan Meteorological Department, Islamabad.
20. Member (Water) WAPDA, WAPDA House, Lahore.
21. Chief Meteorologist, Flood Forecasting Division, Lahore.
22. General Manager, Mangla Dam Organization, Mangla.
23. Chief Executive Officer, Pakistan Railways, Lahore.
24. P.S to Secretary, Ministry of Water Resources, Islamabad.
25. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
26. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
27. P.S to Secretary Ministry of Aviation, Islamabad. \*
28. P.S to Chairman NDMA, Islamabad.
29. P.S to Chairman WAPDA, WAPDA House, Lahore.
30. P.S to Chairman Indus River System Authority (IRSA), Islamabad.
31. P.S to Chairman SUPARCO, Islamabad.
32. P.S to CEA/CFFC, Islamabad.
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Fax: 051-9244604

6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Urgent Preparations for Monsoon Season 2024 and Flood Management

Dear Sir

اسلام علیہ

As you are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change. This vulnerability has been clearly manifested by the recent events of heatwaves, GLOFs, Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant flooding, besides excessive rainfall in upper catchments of Sutlej River (in India) resulting into significant floods in Monsoon 2023.

2. Typically, the monsoon season commences towards the end of June each year. However, owing to the prevailing heat wave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated as per PMD's reports. The Pakistan Meteorological Department (PMD) has forecasted above-normal precipitation in northern Punjab, lower Khyber Pakhtunkhwa and southern Sindh, heightening the risk of flash floods in mountainous regions, urban inundation in low-lying areas and potential GLOF events in northern territories.

3. For effective flood management during the Monsoon 2024, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup> 2024 respectively. Key discussions focused on the urgent need to remove encroachments from the floodplains of the rivers, streams and nullahs. As Pakistan Railways operates a nation-wide rail network that often intersects major rivers of the Indus River System, it is crucial to ensure the timely opening of closed bays of railway bridges over these rivers to allow safe passage of floodwaters and prevent upstream flooding. Additionally, preparing and adhering to contingency plans would be equally essential to protect lives and property in the event of any emergency during the Monsoon 2024.

4. In view of the above, I would solicit your personal attention to kindly issue necessary directions to your all concerned field formations for taking timely action in the greater national interest by completing all preparatory actions well before the onset of Monsoon 2024.

With profound regards,

Sincerely Yours,

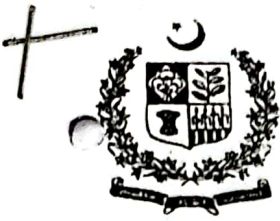
(Ahmed Kamal)

Mr. Aamir Ali Baloch  
Chief Executive Officer,  
Pakistan Railways,  
Lahore

**Copy for information to:**

1. Chief Secretary, Government of the Punjab, Lahore.
2. Chief Secretary, Government of Sindh, Karachi.
3. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Secretary, Government of Balochistan, Quetta.
5. Chief Secretary, Government of AJ&K, Muzaffrabad.
6. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
7. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
8. Director General, Provincial Disaster Management Authority, Govt. of Sindh, Karachi.
9. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
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11. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffrabad.
12. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
13. Secretary, Irrigation Department, Government of the Punjab, Lahore.
14. Secretary, Irrigation Department, Government of Sindh, Karachi.
15. Secretary, Irrigation Department, Government of KP, Peshawar.
16. Secretary, Irrigation Department, Government of Balochistan, Quetta.
17. Secretary, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffrabad.
18. Secretary, Water Management & Irrigation, Govt. of Gilgit-Baltistan, Gilgit.
19. Director General Pakistan Meteorological Department; Islamabad.
20. Member (Water) WAPDA, WAPDA House, Lahore.
21. Chief Meteorologist, Flood Forecasting Division, Lahore.
22. General Manager, Mangla Dam Organization, Mangla.
23. P.S to Secretary, Ministry of Water Resources, Islamabad.
24. P.S to Secretary, Ministry of Planning, Development and Special Initiatives, Islamabad.
25. P.S to Secretary Ministry of Climate Change & Environmental Coordination, Islamabad.
26. P.S to Secretary Ministry of Aviation, Islamabad.
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6-Ataturk Avenue, G-5/1, Islamabad  
May 31, 2024

Sub: Monsoon Season 2024 and Country-Wide Flood Management

Dear *Mahr Sahibzad Khan Sb.*

As we are aware, Pakistan is among the top ten (10) countries most vulnerable to climate change and its impacts. This vulnerability has been clearly manifested by the recent events of extreme heatwaves, GLOFs, progressive Arabian Sea cyclones, unprecedented rainfall during Monsoon 2022 leading to significant pluvial flooding in-particular, besides noticeable rainfall in the upper catchments of Sutlej River (in India) resulting into high floods in Monsoon 2023.

- As we are approaching Monsoon 2024, I am writing to underscore the importance of implementing proactive preparedness and precautionary measures in an effort to mitigate the potential risks associated with the upcoming rainy season. The Pakistan Meteorological Department's expertise and capabilities in weather forecasting play a crucial role in assisting the nation in preparing for and responding to weather-related challenges. Given the significant impact that monsoon rains can have on various sectors of economy besides on the daily life of communities, it is imperative that we undertake all-inclusive comprehensive measures to minimize potential adverse effects.
- Typically, the monsoon season commences towards the end of June each year. However, due to the prevailing heatwave across the country, the onset of the Monsoon of 2024 may occur earlier than anticipated as has also been indicated by PMD. In anticipation of this and for pro-active engagements on the subject, the Federal Flood Commission (FFC) convened two preparatory meetings on March 4<sup>th</sup> and April 26<sup>th</sup>, 2024 respectively, wherein detailed discussions were made on pivotal measures, including the availability of timely forecasts for flood preparedness, the effectiveness of Met Weather Radar operationability, strong day-to-day collaboration among all related stakeholders etc.
- In the aftermath of 2022 floods, PMD must have initiated new measures to further strengthen its core capability relating to nation-wide effective, near real time flood forecasting. The effective implementation of this capability shall ensure success of joint efforts by all related departments to better manage 2024 monsoon both at federal as well as provincial levels.
- On above account it is essential to emphasize here that the success of all evacuation and flood mitigation efforts heavily relies on the accuracy and effectiveness of forecasts. Therefore, I would request PMD to ensure timely maintenance and operation of all necessary equipment, including weather radars, weather stations, and modeling tools, well in advance of the onset of the 2024 monsoon season to optimize their performance.
- Foregoing in view and based on decisions contained in the minutes of above mentioned meetings, I am sure that the Pakistan Meteorological Department would be able to provide timely and accurate forecasts of monsoon rainfall patterns, severe weather events and areas susceptible to potential flooding. Additionally, I would urge the Pakistan Meteorological Department to prioritize the implementation of precautionary measures to safeguard lives, livelihoods, and infrastructure during Monsoon 2024.
- Your personal attention to above task, undoubtedly will serve the greater national interest towards effective flood management.

With profound regards,

Sincerely Yours,

(Ahmed Kamal)

Mr. Mahr Sahibzad Khan  
Director General,  
Pakistan Meteorological Department,  
Islamabad

**Copy for information to:**

1. Chief Secretary, Government of the Punjab, Lahore.
2. Chief Secretary, Government of Sindh, Karachi.
3. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
4. Chief Secretary, Government of Balochistan, Quetta.
5. Chief Secretary, Government of AJ&K, Muzaffrabad.
6. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
7. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
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9. Director General, Provincial Disaster Management Authority, Govt. of KP, Peshawar.
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12. Director General, Gilgit-Baltistan Disaster Management Authority, Govt. of GB, Gilgit.
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