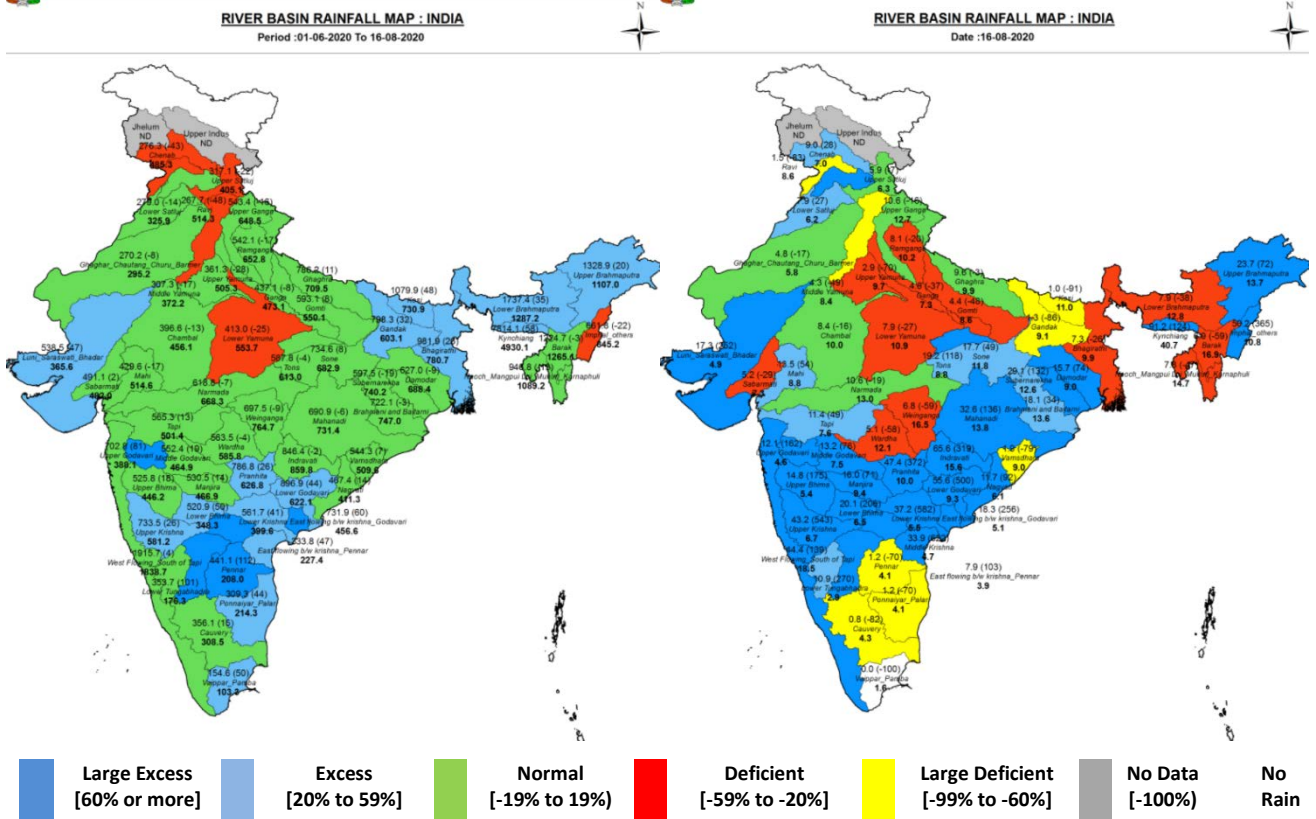




Central Water Commission
Daily Flood Situation Report cum Advisories
16-08-2020

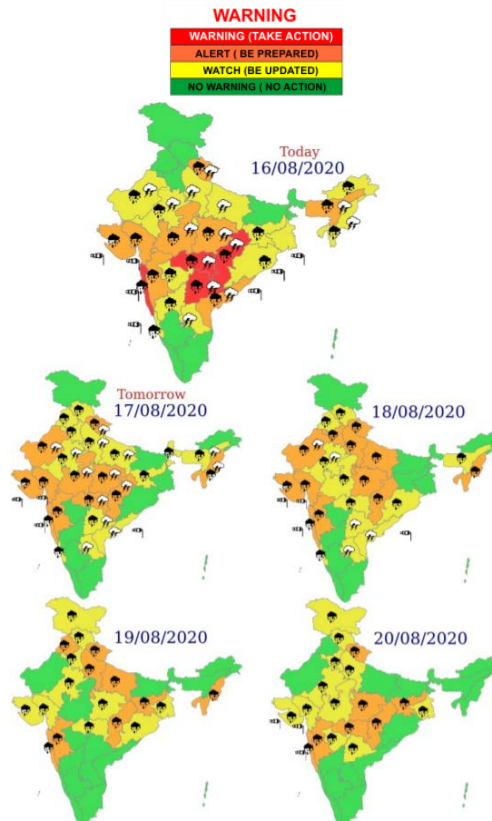
1.0 IMD information

1.1 Basin wise departure from normal of cumulative and daily rainfall



Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm)
 b) Percentage departures of rainfall are shown in brackets.

1.2 Rainfall forecast for next 5 days issued on 16th August 2020 (Midday) by IMD



2.0 CWC inferences

2.1 Flood Situation on 16th August 2020

2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 16th August 2020, 29 Stations (15 in Bihar, 5 in Assam, 4 in Uttar Pradesh, 1 each in Andhra Pradesh, Jharkhand, Odisha, Telangana and West Bengal) are flowing in Severe Flood Situation and 32 stations (14 in Bihar, 8 in Assam, 5 in Uttar Pradesh, 2 each in Andhra Pradesh & Telangana and 1 in Arunachal Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 35 Barrages and Dams (12 in Karnataka, 4 each in Madhya Pradesh & Maharashtra, 3 in Tamilnadu, 2 each in Andhra Pradesh, Uttar Pradesh, Telangana & West Bengal and 1 each in Gujarat, Jharkhand, Rajasthan & Odisha).

PART - I: LEVEL FORECAST		
S.No.	Flood Situations	Numbers of Forecasting Sites
A	Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled)	0
B	Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL))	29
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	32
Total number of sites above Warning Level (A+B+C)		61
PART - II: INFLOW FORECAST		
Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage)		35

Details can be seen in link http://cwc.gov.in/sites/default/files/dfb202016082020_5.pdf

2.2 CWC Advisories

- Increase in rainfall activity very likely over northwest India from 18th August with fairly widespread to widespread rainfall over plains of northwest India and Uttarakhand along with isolated heavy to very heavy falls during 18th-20th August. Extremely heavy falls also likely over West Rajasthan & Uttarakhand on 18th and over north Punjab on 19th August, 2020.
- Widespread rainfall with Isolated extremely heavy falls likely over Telangana, Konkan & Goa, Vidarbha and Chhattisgarh on 16th over Ghat areas of Madhya Maharashtra during 16th-17th; over Gujarat region on 17th August.
- Due to the likely formation of a Low Pressure Area, fairly widespread to widespread rainfall with isolated heavy to very heavy falls is likely over Odisha and Gangetic West Bengal during 18th & 19th August.

Based on the above rainfall forecast the following advisories are issued by CWC for various States:

2.2.1 Odisha, Andhra Pradesh & Telangana

Heavy to very heavy with isolated Extremely heavy falls are likely over Telangana, Vidarbha and Chhattisgarh during next 24 hours and then reduce. Due to ongoing extremely heavy rainfall, River Godavari is also getting good flows due to rain in Chhattisgarh, Maharashtra and Telangana. Polavaram project on River Godavari in Andhra Pradesh is likely to get around 40000 cumec and Laxmi Barrage on River Godavari is likely to get inflows of around 20000 cumec till today night and is expected to rise in view of the rainfall forecast. There is forecast of extremely heavy rainfall for 1 day and heavy rainfall in Telangana also for subsequent 24 hours. Close watch is to be maintained. River Indravathi is likely to rise in Dantewada, Narayanpur and Bijapur Districts in Chhattisgarh. River Sabari is likely to rise rapidly in Koraput, Malkangiri Districts of Odisha and in Sukma District in Chhattisgarh and East Godavari District of Andhra Pradesh. Inflows into Balimela, Upper Kolab, Machhkund and Upper Indravathi Projects are also likely to rise but the storages in these reservoirs are 25% to 52% only and the inflows will help in increasing the storage in these reservoirs. Due to ongoing extremely heavy rainfall in Brahmani & Baitarni basin, rivers Baitarni and Brahmani have started rising in their source regions and as the rainfall is forecasted to continue today, there is likelihood of rise in water level in river Baitarni in Kendujhar and Bhadrak Districts of Odisha. River Mahanadi is also getting inflows above threshold limits in Hirakud Dam and the dam is likely to continue getting heavy inflows due to extremely heavy rainfall forecasted in Chhattisgarh catchment. Close watch is to be maintained.

River Krishna is also likely to get heavy inflows into P D Jurala in Jogulamba Gadwal District of Telangana and to Srisaillam Dam in Kurnool District of Andhra Pradesh. Since the dam is about 65% filled, it is expected that with inflows for next 4 to 5 days may increase its storage substantially. Due to extremely heavy rainfall in downstream areas of river Krishna in Warangal, Khammam, Nalgonda and Krishna Districts of Telangana and Andhra Pradesh, river Krishna at Prakasam Barrage is getting inflows above its threshold limit and inflow forecasts have been issued for the same.

2.2.2 Gujarat, Maharashtra & Goa

Heavy to very Heavy rainfall is likely over Gujarat state during next 2-3 days and over Ghat areas of Madhya Maharashtra during next 48 hours. Hence there is likelihood of rise in Water Levels in the basins of Lower Mahi, Lower Narmada, Lower Tapi and Damanganga. Rivers Narmada, Tapi, Damanganga are likely to rise rapidly in association with rains forecasted for next 4-5 days. Madhuban Dam in Valsad District is likely to get heavy inflows due to the forecasted rainfall. At present, the Dam has storage of 67.09%. Close watch is to be maintained and releases if any has to be done, it should be with due care and after informing all downstream districts including Union Territories of Daman. Other Dams in this region such as Kadana Dam on river Mahi, Panam Dam on river Panam, Sardar Sarovar Dam on river Narmada, Ukai Dam on river Tapi are also expected to get increased inflows. Hatnur Dam in Jalgaon District of Maharashtra is likely to get an inflow of around 1505 cumec till today night and Ukai Dam is also expected to receive around 3703 cumec till tomorrow morning. Due to forecast of extremely heavy rain in their catchment, there is likelihood of sudden rise in inflows which may have to be regulated properly following the rule curves and Standard Operating Procedures (SOP) after informing all downstream Districts well in advance. Extremely heavy rain has also been forecasted in Saurashtra & Kutch, many of the small dams are already near their FRL and close watch is to be maintained for proper reservoir operation.

Heavy to Very Heavy at few places with extremely heavy rainfall at isolated places are likely in Palghar, Thane, Nasik, Pune, Satara, Raigad, Ratnagiri, Sindhudurg and Kolhapur Districts of Maharashtra and in the Districts of South & North Goa. As the rainfall of higher intensity is likely to continue for at least 1-2 days, there is likelihood of rise in levels of rivers along the West Coast in Maharashtra & Goa in the West Flowing Rivers between Tapi and Tadri. Since most of the dams in the region have storage of the order of 65% to 98% of their Full capacity, hence all the dams should exercise caution. Khadakwasla Dam in Pune District is releasing around 300 cumec of water in to river while Veer Dam in Pune District is releasing excess water in river Nira. All these releases will be increasing the level of river Bhima. Ujni Dam in Sholapur District is only 40% full, the increase flow in Bhima will increase the storage in Ujni dam.

Necessary precautions have to be taken in Road and Rail Bridges which pass through these areas as they are prone to submergence. Care should be taken to regulate road and rail traffic to avoid any incidents.

2.2.3 Rajasthan & Madhya Pradesh

Due to forecast of heavy to very heavy rainfall in East Rajasthan and West Madhya Pradesh for next 3-4 days, there is likelihood of rise in Water Levels in rivers such as Chambal, Mahi, Sabarmati, Kalisindh, Banas (both East and West Flowing), etc. Most of the dams in these rivers are having storage between 35 to 70%, care should be exercised to monitor the situation very closely. Releases if any has to be done, it should be after advance information to all concerned downstream districts and lower riparian States. Inflows have started increasing in Panchana Dam, and Parwan Pickup Weir and have crossed the threshold limit. Inflow Forecast have been issued for these reservoirs in Rajasthan.

2.2.4 Himachal Pradesh, Punjab, Haryana, Uttarakhand, Uttar Pradesh

Due to forecast of heavy to very heavy rainfall in these States in the next 2 to 3 days, there is likelihood of rise in Water Levels in rivers such as Sutlej, Ravi, Beas, Ghaggar, Yamuna, Bhagirathi, Alaknanda, Ganga, Ramganga, Sarada, Sarju and Ghaghra. There is likelihood of flash floods in some of the hill districts in these states in association with cloud burst. Necessary precautions have to be taken for possible landslides and blockages of river flows due to landslides in high ranges of these states.

2.2.5 Karnataka & Tamilnadu

Due to continuous inflows from the previous spell of rainfall, most of the dams in Cauvery Basin have reached very close to 90-97% storage. Any local rainfall in association with convective activity may also help in adding to the flow in these basins. Round the clock watch has to be maintained for proper reservoir operation and information to all downstream Districts as well as to lower riparian States well in advance. The releases from Kabini and Krishna Raja Sagar through river are becoming inflows into Mettur Dam which is likely to get slow inflows for next 3-4 days. However, it is much below its FRL.

Most of the dams in Krishna Basin are also having storage between 86% to 97%. Hidkal Dam on River Ghataprabha is filled to 97% of its full capacity and hence close watch has to be maintained for any increased inflows likely due to the very heavy rainfall forecasted in Madhya Maharashtra during the next 2-3 days. Due to heavy rain in Madhya Maharashtra, Hidkal and Malaprabha are also getting heavy inflows.

Due to river flows from upstream areas of river Krishna, Almatti Dam and Narayanpur Dam are getting heavy inflows and since these dams are filled around 90% to 92% of the capacity, both the dams are releasing the excess flow. There is forecast of heavy to very heavy rainfall in Madhya Maharashtra for next 4-5 days. Due to this there is likelihood of rise in water levels in Upper Krishna Basin in the upstream of Almatti Dam. Close watch is to be maintained for any releases from all the dams in the basin as well as for proper gate operation following SOP.

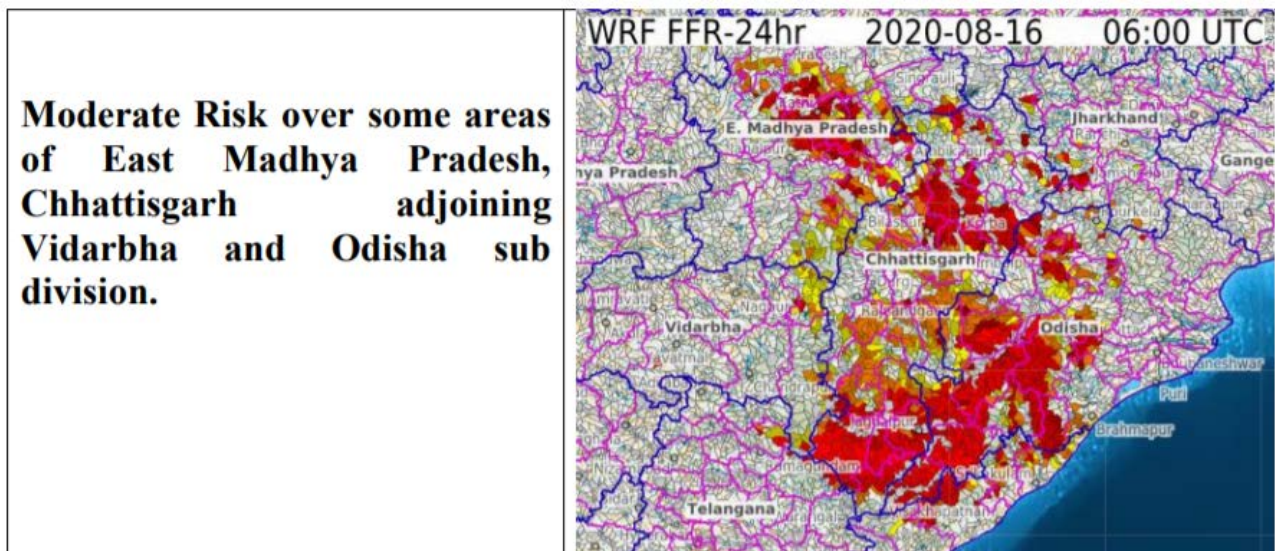
It is advised that close watch has to be maintained for increased inflows likely during the next 2-3 days. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure.

2.2.6 Bihar, Jharkhand and Gangetic West Bengal

Many of the rivers in Bihar continue to flow in Severe to Above Normal Flood Situation with falling trend. The situation will continue for another 3-4 days.

2.2.7 Flash Flood Guidance

Flash Flood Guidance for next 24 hours as issued by IMD is appended.



Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 4-5 days. Breaches in Embankment if any may aggravate further flood like situation which should be monitored and all efforts to fill any such breaches should be done at the earliest. Maximum vigil has to be maintained along the rail and road tracks and bridges on these rivers and regulate traffic suitably to avoid any incident. Submergence of low-level cause ways along rivers and railway tracks along flashy rivers is to be monitored closely especially along Western Ghat areas. All district administrations can take effective measures taking into account the prevailing Covid-19 situation in relief camps being set up in these districts.

3. Flood Alerted Districts

Gujarat:	Districts along Narmada, Tapi, Damanganga, Mahi
Madhya Pradesh:	Districts along Narmada and Upper Chambal, Wainganga, Tapi
Rajasthan:	Districts along Chambal and its tributaries, Mahi
Maharashtra:	Districts along West Flowing Rivers in Thane, Godavari, Damanganga, Krishna & its tributaries
Telangana:	Districts along Godavari and its tributaries
Chhattisgarh:	Districts along Indravathi and its tributaries, Mahanadi & its tributaries
Odisha:	Districts along Indravathi, Sabari, Mahanadi and its tributaries