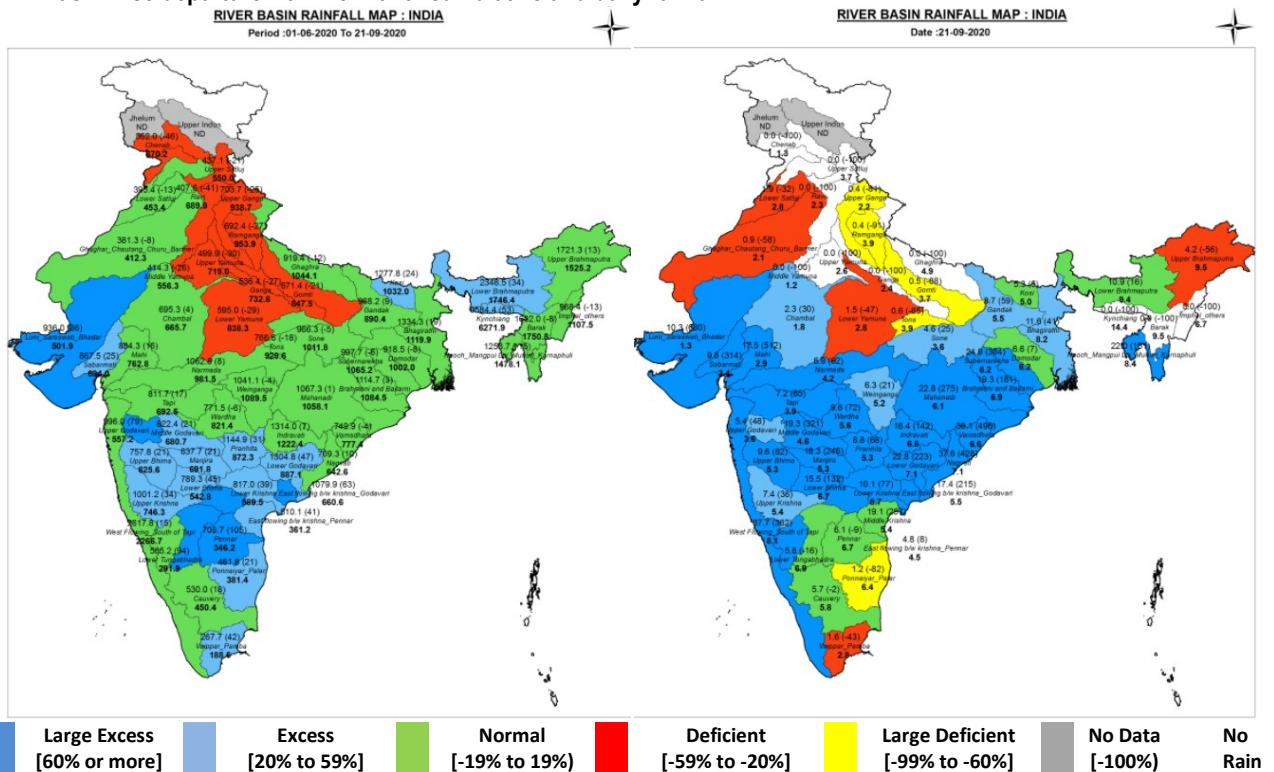




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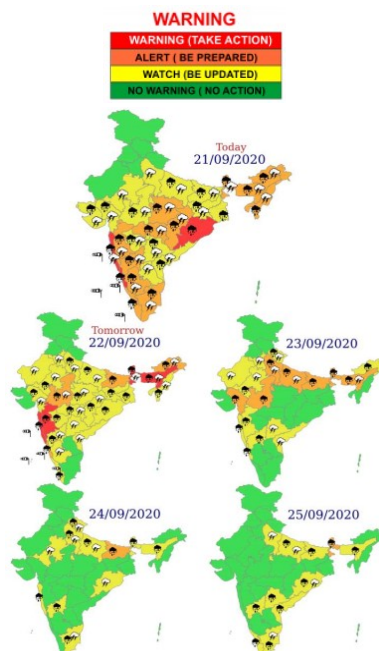
1.0 Rainfall Situation

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 21st September, 2020 (Midday) by IMD



2.0 Flood Situation and Advisories

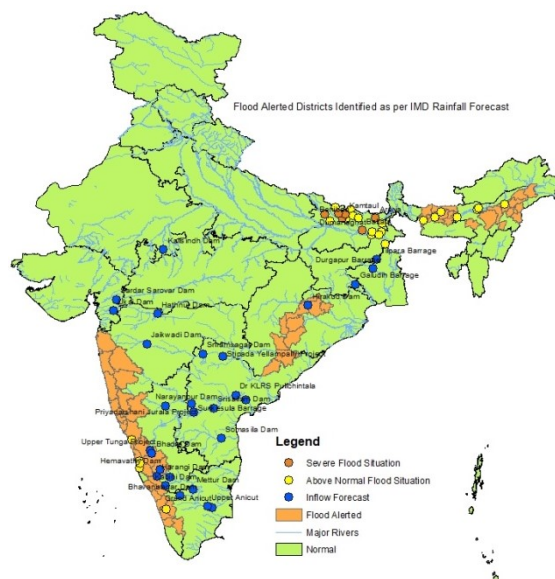
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 21st September 2020, 6 Stations in Bihar are flowing in Severe Flood Situation and 24 stations (7 in Assam, 10 in Bihar, 4 in Karnataka, 1 each in Jharkhand, Kerala & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 29 Barrages & Dams (7 in Karnataka, 5 in Andhra Pradesh, 4 each in Telangana & Tamil Nadu, 2 each in Gujarat, Maharashtra & West Bengal and 1 each in Jharkhand, Odisha & Rajasthan).

| 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)) | 6 |
| C | Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level) | 24 |
| Total number of sites above Warning Level (A+B+C) | | 30 |
| 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) | | 29 |

Details can be seen in link- http://cwc.gov.in/sites/default/files/dfb202021092020_5.pdf

2.2 Flood Situation Map



2.3 CWC Advisories

- Fairly widespread to widespread rainfall with Isolated heavy to very heavy falls very likely over Coastal & North Interior Karnataka, Kerala & Mahe, Maharashtra, Odisha, West Bengal & Sikkim, Bihar, Jharkhand during next 2 days; over Interior Tamilnadu & South Interior Karnataka on 21st Sept; over Uttar Pradesh and adjoining East Rajasthan during 22nd - 24th Sept, 2020.
- Isolated extremely heavy rainfall also very likely over Coastal Karnataka, Odisha on 21st; over Konkan & Goa on 21st & 22nd; over Madhya Maharashtra and Sub-Himalayan West Bengal & Sikkim on 22nd; over East Uttar Pradesh on 23rd and over Assam & Meghalaya on 22nd & 23rd Sept, 2020.

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

Forecasted rainfall may again increase the flow in West Flowing Rivers in Coastal Karnataka, Konkan & Goa, Madhya Maharashtra and in Upper Krishna, Upper Bhima, Upper Godavari Basins. Since most of the reservoirs in these basins are very near to FRL, SOP for release from reservoirs has to be followed.

Extremely heavy rainfall occurred in Upper Tungabhadra Sub-Basin of Krishna due to which River Tungabhadra is flowing in Severe Flood Situation in Honnali in **Davengere** District of Karnataka. Due to this increased inflow is expected in Singatluru Barrage and Tungabhadra Dam. Since Tungabhadra Dam is very near to FRL, due to releases from the dam, rise in water level is expected on river Tungabhadra in **Kurnool** District of Andhra Pradesh where Mantralayam is expected to rise to Above Normal Flood Situation by tomorrow morning and rise further. This is likely to give additional inflows in to Srisaillam Dam in Kurnool District. Since most of the dams are already near FRL or at FRL, releases have to be done as per standard operating procedure. Further extremely heavy rain has been forecasted in Madhya Maharashtra in the Districts of Pune, Satara, Kolhapur which will increase the flow in Upper Krishna and Bhima Basins. This in effect will give additional inflows into Almatti Dam and downstream dams in Krishna and in Ujani, Vir Dams in Bhima sub-basin. Close watch is to be maintained.

Mula, Manjlegaon, Jaikwadi and Yeldari Dams in Maharashtra in Godavari Basin are almost full or near their FRL. Due to heavy rainfall in these regions the dams are getting inflows. Further forecast of extremely heavy rains have been given in **Nasik** District of Maharashtra. Hence flows into all these dams are likely to increase and these dams are expected to release the excess flows. Due to such releases, river Godavari is likely to have increased flows upstream of **Sriramsagar, Sripada Yellampally** Dams in Telangana. These dams are also likely to release the excess flow which will be inflows into Laxmi Barrage on river Godavari in **Jaishankar Bhupalpalle** District. Further Very heavy rain is forecasted in Indravathi, basin in Chhattisgarh, Wainganga and Wardha Basins in Vidharbha portion of Maharashtra, rivers Indravathi, Wainganga and Wardha are also expected to rise. Close watch is to be maintained in all the sub-basins of Godavari for another 2-3 days.

Heavy to very heavy rainfall has been forecasted for another 24 hours in Kerala. This may increase the flows into Idukki and Edamalayar Dams. Further rivers in North Kerala in the Districts of **Kasaragod, Kannur, Kozhikode Malappuram and Palakkad** Districts are also likely to rise.

Extremely heavy rain has been forecasted in Odisha in the basin of Subarnarekha, Burhabalang, Brahmani, Baitrani, Lower Mahanadi

and very heavy rainfall has been forecasted in the basins of Upper Mahanadi Sub-Basin in Chhattisgarh. Due to this the water level is expected to rise in all the basins. Close watch is to be maintained.

Heavy to very heavy rain has been forecasted in Sub-Himalayan West Bengal & Sikkim and North Eastern States from 21st September Onwards. This may increase the water levels in Brahmaputra & its tributaries including Tista and Barak & its tributaries during the next 3-4 days.

Heavy to very heavy rainfall has been forecasted in Northern Bihar and East Uttar Pradesh during 22nd to 24th which may see an increase in water level in Northern Tributaries of river Ganga in Bihar especially in the basins of Mahananda, Kosi, Bagmati and Adhwara and in Ghaghara and Rapti basins in Uttar Pradesh.

Impact Based Actions

Strict vigil is to be maintained in all the above areas for next 3-4 days. It is advised that close watch has to be maintained for increased inflows in dams. Releases from any of these reservoirs may be done as per rule curve and standard operating procedure with advance intimation to downstream 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. Storage Position in Dams where Inflow forecast is being issued by CWC as on 21st September 2020

| # | River | Station | State | Present Gross Storage (%) | Rainfall Warning |
|----|--------------|------------------------------|----------------|---------------------------|------------------|
| 1 | Nira | Veer Dam | Maharashtra | 100 | Yes |
| 2 | Bhima | Ujjani Dam | Maharashtra | 100 | Yes |
| 3 | Betwa | Rajghat Dam | Madhya Pradesh | 100 | Yes |
| 4 | Ghataprabha | Hidkal Dam | Karnataka | 100 | Yes |
| 5 | Narmada | Bargi Dam | Madhya Pradesh | 100 | Yes |
| 6 | Narmada | Tawa Dam | Madhya Pradesh | 100 | Yes |
| 7 | Wardha | Upper Wardha Project | Maharashtra | 100 | Yes |
| 8 | Penganga | Issapur Project | Maharashtra | 100 | Yes |
| 9 | Warana | Warana Dam | Maharashtra | 100 | Yes |
| 10 | Kabini | Kabini Dam | Karnataka | 100 | Yes |
| 11 | Koyna | Koyna Dam | Maharashtra | 100 | Yes |
| 12 | Bhadra | Bhadra Dam | Karnataka | 100 | Yes |
| 13 | Sabarmati | Dharoi Dam | Gujarat | 99.94 | Yes |
| 14 | Cauvery | Krishnarajasagar | Karnataka | 99.6 | Yes |
| 15 | Mahi | Kadana Dam | Gujarat | 99.59 | Yes |
| 16 | Purna | Yeldari Dam | Maharashtra | 99.42 | Yes |
| 17 | Mula | Mula Dam | Maharashtra | 99.05 | Yes |
| 18 | Krishna | Almatti Dam | Karnataka | 99 | Yes |
| 19 | Narmada | Barna Dam | Madhya Pradesh | 99 | Yes |
| 20 | Mahi | Mahi Bajajsagar Dam | Rajasthan | 98.84 | No |
| 21 | Sindhpana | Manjlegaon | Maharashtra | 98.57 | Yes |
| 22 | Godavari | Jaikwadi Dam | Maharashtra | 98.3 | Yes |
| 23 | Narmada | Sardar Sarovar Dam | Gujarat | 98.06 | Yes |
| 24 | Harangi | Harangi Dam | Karnataka | 98 | Yes |
| 25 | Krishna | Narayanpur Dam | Karnataka | 98 | Yes |
| 26 | Som Kamla | Som Kamla Amba Dam | Rajasthan | 97.99 | No |
| 27 | Pench | Totladoh Project | Maharashtra | 97.15 | Yes |
| 28 | Tungabhadra | Tungabhadra Dam | Karnataka | 97 | Yes |
| 29 | Krishna | Dr K L R S Pulichintala Dam | Andhra Pradesh | 97 | Yes |
| 30 | Chambal | Rana Pratap Sagar | Rajasthan | 96.44 | No |
| 31 | Tapi | Ukai Dam | Gujarat | 96.4 | Yes |
| 32 | Kalisindh | Kalisindh Dam | Rajasthan | 96.4 | No |
| 33 | Krishna | Srisaillam Dam | Andhra Pradesh | 96 | No |
| 34 | Narmada | Indira Sagar Dam | Madhya Pradesh | 96 | Yes |
| 35 | North Pennar | Somasila Dam | Andhra Pradesh | 95.64 | Yes |
| 36 | Malaprabha | Malaprabha Dam | Karnataka | 95 | Yes |
| 37 | Mahanadi | Hirakud Dam | Odisha | 94.9 | Yes |
| 38 | Kaddamvagu | Kaddam Dam | Telangana | 94.82 | Yes |
| 39 | Sone | Bansagar Dam | Madhya Pradesh | 93 | Yes |
| 40 | Godavari | Sriramasagar | Telangana | 92.31 | Yes |
| 41 | Godavari | SripadaYellampally Dam | Telangana | 91.19 | Yes |
| 42 | Hemavathy | Hemavathy Dam | Karnataka | 91 | Yes |
| 43 | Wainganga | Upper Wainganga Project | Madhya Pradesh | 90.47 | Yes |
| 44 | Bhavani | Bhavani Sagar | Tamil Nadu | 89.35 | Yes |
| 45 | Damanganga | Madhuban Dam | Gujarat | 89.3 | Yes |
| 46 | Gomukanadi | Gomukhi Dam | Tamil Nadu | 87.43 | Yes |
| 47 | Chambal | Gandhisagar Dam | Madhya Pradesh | 87 | Yes |
| 48 | Krishna | Priyadarshini Jurala Project | Telangana | 87 | Yes |
| 49 | Brahmani | Rengali Dam | Odisha | 85.8 | Yes |
| 50 | Gambhiri | Panchana Dam | Rajasthan | 82.13 | No |
| 51 | Periyar | Idduki Dam | Kerala | 78.42 | Yes |
| 52 | Machhkund | Machhkund Project | Odisha | 77.81 | Yes |

| | | | | | |
|----|------------|--------------|-------------|-------|-----|
| 53 | Tapi | Hathnur Dam | Maharashtra | 76.55 | Yes |
| 54 | Parwati | Parwati Dam | Rajasthan | 75.89 | No |
| 55 | Panam | Panam Dam | Gujarat | 75.74 | Yes |
| 56 | Edamalayar | Idamalayar | Kerala | 75.6 | Yes |
| 57 | Mej | Gudha Dam | Rajasthan | 73.19 | No |
| 58 | Musi | Musi Project | Telangana | 72 | Yes |

Reservoirs shown in red are having gross storage greater than 90%, reservoirs shown in orange are having gross storage greater than 75% and the reservoirs shown in yellow are having gross storage greater than 70%. Close watch has to be maintained at these reservoirs wherever heavy rainfall (Yellow) and Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 24 hours are given (last column of Table above).