Subject: Update on Southwest Monsoon advance and intense wet spell over east & central India and along the west coast during next 5-6 days.

Southwest Monsoon 2021:
- Southwest Monsoon has further advanced into some parts of North Arabian Sea and some more parts of south Gujarat, south Madhya Pradesh and Chhattisgarh and most parts of North Bay of Bengal and more parts of West Bengal today, the 11th June 2021.
- The Northern Limit of Monsoon (NLM) passes through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Raisen, Damoh, Umaria, Pendra Road Bolangir, Puri, 21.0°N/88.0°E, Canning, Krishnanagar Malda and 26.5°N/88.0°E (Annexure 1).
- Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, Madhya Pradesh, remaining parts Chhattisgarh and Odisha, entire West Bengal, Jharkhand and Bihar and some parts of east Uttar Pradesh and remaining parts of North Bay of Bengal during next 48 hours.
- Southwest monsoon is likely to advance over remaining parts of the country outside south Rajasthan and Kutch region of Gujarat during subsequent 3-4 days.

Meteorological Conditions:
- A Low Pressure Area lies over Northwest Bay of Bengal and adjoining Odisha & Gangetic West Bengal coasts with the associated cyclonic circulation extending upto mid-tropospheric levels persists. It is likely to become more marked during next 24 hours and move west-northwestwards across Odisha, Jharkhand & north Chhattisgarh during next 3-4 days.
- An east-west trough at lower tropospheric levels runs from south Punjab to center of low pressure area over Northwest Bay of Bengal and adjoining Odisha & Gangetic West Bengal coasts. The east-west trough is very likely to persist during next 4-5 days.

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In addition, strong southwesterly winds are prevailing along the west coast at lower levels and an off-shore trough lies off the west coast. These conditions are likely to persist during next 5-6 days.

Under above favourable meteorological conditions, **southwest monsoon is likely to advance over entire country outside south Rajasthan and Kutch region of Gujarat during next 5-6 days.**

**Forecast & Warnings:**

- Due to above mentioned meteorological conditions, fairly widespread to widespread rainfall activity with **isolated heavy to very heavy falls** very likely over Odisha, Chhattisgarh, West Bengal & Sikkim, Jharkhand, Madhya Pradesh, Vidarbha, Telangana during next 5-6 days. **Isolated extremely heavy falls (≥ 20 cm) also very likely over Odisha on 12th; over Chhattisgarh during 12th & 13th; over East Madhya Pradesh on 13th & 14th; over Vidarbha on 12th & 13th, June 2021.**

- Fairly widespread to widespread rainfall with **isolated heavy falls** very likely over Bihar, Uttar Pradesh and Uttarakhand during next 4-5 days. Scattered to fairly widespread rainfall over rest parts of northwest India (excluding Rajasthan) during 11th to 14th and with isolated heavy on 12th & 13th June, 2021.

- Widespread rainfall activity with **heavy to very heavy falls** likely to continue over coastal & adjoining Ghats districts of Maharashtra and coastal Karnataka during 11th to 15th June, 2021. **Isolated heavy rainfall** is very likely over Kerala during 11th to 15th June, 2021. **Isolated extremely heavy falls also very likely over Konkan & Goa during 11th to 15th with higher intensity of rainfall on 13th & 14th June, 2021.**

- Multi-Hazard warnings for next 5 days are given in following page:

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EXPECTED IMPACT & ACTION SUGGESTED DUE TO isolated to scattered heavy to very heavy falls over most parts of East India & adjoining Central India from today. Isolated extremely heavy falls (≥ 20 cm) over Odisha on 11th; Chhattisgarh on 12th & 13th; East Madhya Pradesh on 13th & 14th; Vidarbha on 12th & 13th and Konkan during 11th to 15th June, 2021. Isolated to scattered heavy to very heavy falls over coastal & adjoining ghat districts of Maharashtra and coastal Karnataka during 11th to 15th June and Uttarakhand on 12th, June 2021. Isolated heavy rainfall over Kerala during 11th to 15th June, 2021.

A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
EXPECTED IMPACT & ACTION SUGGESTED in association moderate to severe thunderstorms over West Bengal, Sikkim, Odisha, Jharkhand, Bihar, Madhya Pradesh, Chhattisgarh, Uttarak Pradesh, Punjab, Haryana, Northwest Indian Himalayas and will be accompanied by frequent cloud to ground lightning and strong gusty winds.

A. Impact Expected:

- Damage to thatched huts and asbestos roofed houses and cars. Roof tops may blow off.
- Unattached metal sheets may fly.
- Damage to power and communication lines due to breaking of tree branches.
- Damage to standing crops.
- Lightning strikes to ground.
- Flash flood due to associated rain

B. Action Suggested

- DO NOT take shelter under isolated trees.
- Immediately get out of and away from ponds, lakes, and outdoor watery area (e.g. paddy transplantation).
- Go indoors or seek safe pukka shelters after hearing thunder. Stay indoors for 30 minutes after hearing the last clap of thunder.
- If no shelter is available, immediately get into the lightning crouch.
- During travel, stay inside car or bus or train when thunderstorm occurs.
- Do not use electric/electronic appliance.
- Stay away from downed power lines.
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