Subject: i) Wet Spell over Gujarat, north Maharashtra and Northwest & adjoining Central India during 01st-03rd December with intense rainfall activity over Gujarat and adjoining north Konkan and Madhya Maharashtra.
ii) A Low Pressure Area is likely to form over south Andaman Sea around 30th November.

Significant Rainfall during past 24 hours recorded at 0830 hrs IST of today: (Annexure I.)

Weather Systems and warnings:

- A trough at mean sea level runs from Southeast Arabian Sea to Eastcentral Arabian Sea off Karnataka coast extending upto lower tropospheric level.
- A Low Pressure Area is likely to form over Eastcentral Arabian sea off Maharashtra coast around 01st December, 2021.
- A fresh active Western Disturbance as a trough in mid-latitude westerlies at middle & upper tropospheric levels is likely to affect Northwest & adjoining Central India from the night of 30th November, 2021 and its interaction with lower level trough in easterlies winds.

✔ Fairly widespread to widespread rain/thunderstorm with isolated heavy to very heavy rainfall likely over Gujarat State on 01st December and isolated heavy rainfall over Gujarat Region on 02nd December. Isolated heavy rainfall also likely over north Kankan and Madhya Maharashtra on 01st December. (Annexure II). For district wise warning (Annexure III)
✔ Thunderstorm accompanied with lightning at many places likely to occur over the above region with possibilities of isolated hailstorm.
✔ Isolated to scattered rainfall accompanied with thunderstorm/lightning likely over West Madhya Pradesh, East Rajasthan, Haryana, West Uttar Pradesh during 01st-02nd with maximum activity on 02nd December. Isolated heavy rainfall likely over southeast Rajasthan on 02nd December.
✔ Scattered to fairly widespread rainfall/snowfall accompanied with isolated thunderstorm/lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan- Muzaffarabad, Uttarakhand and Himachal Pradesh during 01st-03rd December with maximum activity on 02nd December. Isolated heavy rainfall/snowfall likely over Uttarakhand on 02nd December.
Low Pressure Area:

- A **Low Pressure Area** is likely to form over south Andaman Sea by tomorrow, the 30th November. It is likely to move west-northwestwards and concentrate into a Depression over Southeast & adjoining Eastcentral Bay of Bengal during subsequent 48 hours.
- Under its influence, **isolated heavy to very heavy rainfall** likely over Andaman & Nicobar Islands during 30th November-02nd December.
- Rainfall activity likely to increase with **isolated heavy to very heavy rainfall** over north Coastal Andhra Pradesh and Odisha from the night of 03rd December for subsequent 48 hours.

Decrease in rainfall activity over Tamil Nadu from 30th November, 2021

- Light to moderate fairly widespread/widespread rainfall very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep area and Scattered to fairly widespread rainfall over south Coastal Andhra Pradesh & Yanam, Rayalaseema during next 2 days and **significant decrease thereafter**.
- **Isolated heavy to very heavy rainfall** very likely over Tamilnadu, Puducherry & Karaikal on 29th November. **Isolated heavy rainfall** very likely over Kerala & Mahe during 29th-30th November and over Coastal Andhra Pradesh and Rayalaseema on 29th November.

Sea Area Warning (Annexure IV):

- **Squally weather with wind** speed reaching 40-50 kmph gusting to 60 kmph very likely over Comorin-Maldives, Lakshadweep areas and adjoining Southeast Arabian Sea during next 24 hours.
- **Squally weather** with maximum sustained wind speed reaching 40-50 gusting to 60 kmph is likely to prevail over Southeast & adjoining Eastcentral Arabian Sea along & off Kerala-Karnataka on 30th and over Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat-Maharashtra coasts during 01st-02nd December.
- **Squally weather** with maximum sustained wind speed reaching 40-50 gusting to 60 kmph is likely to prevail over south Andaman Sea on 29th; over south Andaman Sea and adjoining southeast Bay of Bengal on 30th. Squally wind, speed reaching 45-55 gusting to 65 kmph, over Southeast adjoining Eastcentral Bay of Bengal and Andaman Sea on 01st December and wind speed reaching 50-60 gusting to 70 kmph over Central & adjoining Southeast bay of Bengal.
- **Fishermen are advised not to venture into these areas.**

For more details refer:
**Significant amount of Rainfall** (from 0830 hrs IST of yesterday to 0830 hours IST of today) (7 cm or more):

**Coastal Andhra Pradesh:** Nellore: Gudur-19, Atmakur-18, Rapur & Vinjamur-11 each, Sullurpet & Tada-10 each, Nellore-9, Venkatgiri-7;

**Rayalseema:** Chittor: Thottambedu-11, Srikalahasti-10; **YSR:** Kodur & Atlur-9 each, Penagaluru-8;

**Kerala & Mahe:** Alapuzha: Alapuzha-15; **Kollam:** Kollam & Kottarakkara-8 each,

**Thiruvananthapuram:** Perumkadavilla-10, Peringmala-9, Neyyattinkara-8;

**Tamilnadu, Puducherry & Karaikal:** Chengalpattu: Mahabalipuram-10; **Chennai:** Chennai AP-7; **Cuddalore:** Cuddalore-17, Parangipet-11, Kurinjipadi & Vepur-9 each, Neyveli, Panruti & Bhuvanagiri-7 each; **Kallakurichi:** Ulundurpet-8; **Kanyakumari:** Chittar-13, thuckalay-11, Kuzhithurai-10, Pechiparai-9; **Kariakal:** Karaikal-8; **Mayiladuthurai:** Sirkali-9, Manalmedu: 8, Tarangambadi-7; **Nagapattinam:** Tirupoondi-9, Vedranyam & Nagapattinam-8 each; **Puducherry:** Puducherry-11; **Ranipet:** Kaveripakkam-9, Wallajah-8; **Tirunelveli:** Papanasam-9; **Tiruvarur:** Uthukottai-12, Tiruttani & Cholavaram-9 each, Poondi-8.
District wise warning for Gujarat State for 01st & 02nd December, 2021

District wise warning for Maharashtra for 01st & 02nd December, 2021
EXPECTED IMPACT & ACTION SUGGESTED due to Isolated Very Heavy Rainfall over Tamilnadu, Puducherry & Karaikal on 29th November; over Andaman & Nicobar Islands during 30th Nov. & 01st December, over Gujarat State on 01st December, over north Coastal Andhra Pradesh and Odisha on 03rd December, 2021.

A. Impact Expected

- Localized Flooding of roads, inundation and 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/Mudsides
- 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.
Legends:

Heavy Rain: 64.5 to 115.5 mm; Very Heavy Rain: 115.6 to 204.4 mm; Extremely Heavy Rain: >204.4 mm.

Region wise classification of meteorological Sub-Divisions:
1) Northwest India: Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
3) East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
4) Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
5) West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
6) South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

### Spatial Distribution (% of Stations reporting)

<table>
<thead>
<tr>
<th>% Stations</th>
<th>Category</th>
<th>% Stations</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-100</td>
<td>Widespread (WS/Most Places)</td>
<td>26-50</td>
<td>Scattered (SCT/A Few Places)</td>
</tr>
<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/ Many Places)</td>
<td>1-25</td>
<td>Isolated (ISOL)</td>
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### Probabilistic Forecast

<table>
<thead>
<tr>
<th>Terms</th>
<th>Probability of Occurrence (%)</th>
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<tbody>
<tr>
<td>Unlikely</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Likely</td>
<td>25 - 50</td>
</tr>
<tr>
<td>Very Likely</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Most Likely</td>
<td>&gt; 75</td>
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