Significant Weather Features

- An intense Western Disturbance as a trough in mid & upper level westerlies is approaching the Indian region from the west. Under its influence, an induced cyclonic circulation would form over West Rajasthan by tomorrow and would move over to Punjab & adjoining Haryana by 8th. In association with the system, there would be high moisture feeding from Arabian Sea over northwest India specifically over Western Himalayan Region (WHR) (Jammu & Kashmir, Himachal Pradesh and Uttarakhond) mainly during 6th to 8th February, 2019. Strong wind convergence at mid & upper tropospheric levels over WHR and wind confluence at lower levels over plains of northwest India would also occur during the same period.

- Widespread rain/snow with isolated heavy to very heavy falls are very likely over Jammu & Kashmir and Himachal Pradesh on 6th & 7th February and over Uttarakhond on 7th February. Widespread rainfall with isolated heavy falls are also likely over the northern parts of Punjab, Haryana, Chandigarh and West Uttar Pradesh on 7th February. Thunderstorms accompanied with hailstorms at isolated places are likely over western Himalayan region, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh on 6th & 7th; over north Rajasthan on 6th; over East Uttar Pradesh and north Madhya Pradesh on 7th and over north Chhattisgarh, Jharkhand, Bihar and Sub-Himalayan West Bengal & Sikkim on 8th February.

- Dense to very dense fog prevailed at most places over northwest India today morning. Dense to very dense fog at a few places in the morning hours is very likely to continue over Uttar Pradesh and at isolated places over Haryana, Chandigarh & Delhi for one more day. Fog conditions are likely to abate thereafter with the likely occurrence of rain/thundershowers over these regions from 6th morning.

Main Weather Observations

- Rain/thundershowers observed (from 0830 to 1730 hrs IST of today): are observed at isolated places over Tamilnadu & Puducherry.

- Rainfall recorded (1cm or more) at 1730 hrs IST of today: Nil.

- Dense to very dense fog observed at most places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; a few places over East Uttar Pradesh; at isolated places over West Madhya Pradesh; Moderate fog at isolated places over Assam & Meghalaya, West Rajasthan and East Madhya Pradesh. The visibility observed at 0830 hours IST of today: Chandigarh, Agra and Gwalior-0 M each; Ludhiana, Patiala, Ambala, Karnal, Hisar and Pantnagar-25 M each; Delhi, Bareilly, Amritsar, Meerut, Lucknow and Sultanpur-50 M each; Bahraich, Gorakhpur and Alwar-200 M each; Varanasi, Khajuraho and Majhat-500 M each.

- Maximum temperature departures as on 04-02-2019: Maximum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Arunachal Pradesh and Jharkhand; at many places over Uttarakhond, Assam & Meghalaya, Saurashtra & Kutch and Konkan & Goa; at a few places over Gangetic West Bengal and at isolated places over Himachal Pradesh and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Gujarat Region; at many places over West Rajasthan, Odisha, Coastal Karnataka, Kerala and Lakshadweep and at a few places over Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Uttar Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Andaman & Nicobar Islands and at isolated places over Tamilnadu & Puducherry and near normal over rest parts of the country. The highest maximum temperature of 36.7°C is recorded at Cochin (Kerala) over the plains of the country.

- Minimum temperature departures as on 04-02-2019: Minimum temperatures are below normal (-1.6°C to -3.0°C) at most places over Odisha; at many places over Haryana, Chandigarh & Delhi, Bihar and Vidarbha; at a few places over Rajasthan, Gangetic West Bengal and Nagaland, Manipur, Manipur & Tripura; at isolated places over Jammu & Kashmir, East Madhya Pradesh, Telangana and Coastal Andhra Pradesh. They are above normal (1.6°C to 3.0°C) most places over Arunachal Pradesh; at many places over Gujarat State, West Madhya Pradesh, Madhya Maharashtra, Marathwada and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Tamilnadu & Puducherry and Rayalaseema; at isolated places over Kerala and near normal over rest parts of the country. The lowest minimum temperature of 2.6°C recorded at Narnaul (Haryana) over the plains of the country.

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Meteorological Analysis  (Based on 1730 hours IST)

♦ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 56°E to the north of Lat. 26°N. Under its influence, an induced cyclonic circulation is very likely to form over West Rajasthan & neighbourhood by tomorrow.

♦ The trough of low at mean sea level over southwest Bay of Bengal & adjoining Equatorial Indian Ocean off Srilanka coast persists.

Weather Forecast for next 5 days *  upto 0830 hours IST of 08th February 2019

♦ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.

♦ Minimum temperatures are very likely to rise by 2-4°C over northwest India during next 2-3 days; by 2-3°C over Gujarat state and by 1-2°C over central India during next 48 hours. No significant change in minimum temperatures likely over East India during next 48 hours and rise by 2-4°C thereafter.

Weather Outlook for subsequent 2 days from 08th February 2019 to 10th February 2019

♦ Fairly widespread to widespread rain/thundershowers likely over east & northeast India and isolated to scattered rainfall likely over south peninsula and Andaman & Nicobar Islands.

♦ A fresh western disturbance is likely to affect western Himalayan region from 10th February, resulting in isolated to scattered rain/snow over western Himalayan region.

♦ Dry weather likely over the rest of the country.

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Weather Warning during next 5 days *

04 February (Day 1): ♦ Dense fog at a few places with very dense fog at isolated places very likely over Uttar Pradesh and dense to very dense fog at isolated places over Haryana, Chandigarh & Delhi.

05 February (Day 2): ♦ Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir and Himachal Pradesh.

06 February (Day 3): ♦ Heavy to very heavy rain/snow very likely at isolated places over Jammu & Kashmir and heavy rain/snow at isolated places over Himachal Pradesh.

♦ Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh.

07 February (Day 4): ♦ Heavy to very heavy rain/snow likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.

♦ Heavy rain/thundershowers at isolated places likely over Punjab, Haryana, Chandigarh and West Uttar Pradesh.

♦ Thunderstorm accompanied with hailstorm at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Madhya Pradesh.

08 February (Day 5): ♦ Thunderstorm accompanied with hailstorm at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and north Chhattisgarh.

Kindly visit State level Meteorological Centre / Regional Meteorological Centre website for district wise forecast & color coded warning.

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Table-1
5 Day Rainfall Forecast (NIGHT)
04-February-2019

<table>
<thead>
<tr>
<th>Met-Sub-Division</th>
<th>04-Feb Today</th>
<th>05-Feb Tue</th>
<th>06-Feb Wed</th>
<th>07-Feb Thu</th>
<th>08-Feb Fri</th>
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</thead>
<tbody>
<tr>
<td>1. Andaman &amp; Nicobar Islands</td>
<td>ISOL</td>
<td>ISOL</td>
<td>ISOL</td>
<td>ISOL</td>
<td>DRY</td>
</tr>
<tr>
<td>2. Arunachal Pradesh</td>
<td>DRV</td>
<td>DRV</td>
<td>DRV</td>
<td>ISOL</td>
<td>SCT</td>
</tr>
<tr>
<td>3. Assam &amp; Meghalaya</td>
<td>DRV</td>
<td>DRV</td>
<td>DRV</td>
<td>ISOL</td>
<td>ISOL</td>
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<tr>
<td>4. N. M. M. &amp; T.</td>
<td>DRV</td>
<td>DRV</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
</tr>
<tr>
<td>5. S.H. West Bengal &amp; Sikkim</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>ISOL</td>
<td>SCT</td>
</tr>
<tr>
<td>6. Gangetic West Bengal</td>
<td>DRV</td>
<td>DRV</td>
<td>DRV</td>
<td>DRY</td>
<td>ISOL</td>
</tr>
<tr>
<td>7. Odisha</td>
<td>DRV</td>
<td>DRV</td>
<td>DRV</td>
<td>DRY</td>
<td>ISOL</td>
</tr>
<tr>
<td>8. Jharkhand</td>
<td>DRV</td>
<td>DRV</td>
<td>DRY</td>
<td>ISOL</td>
<td>SCT</td>
</tr>
<tr>
<td>9. Bihar</td>
<td>DRV</td>
<td>DRV</td>
<td>ISOL</td>
<td>ISOL</td>
<td>SCT</td>
</tr>
<tr>
<td>10. East Uttar Pradesh</td>
<td>DRV</td>
<td>ISOL</td>
<td>SCT</td>
<td>FWS</td>
<td>ISOL</td>
</tr>
<tr>
<td>11. West Uttar Pradesh</td>
<td>DRV</td>
<td>ISOL</td>
<td>FWS</td>
<td>ISOL</td>
<td>ISOL</td>
</tr>
<tr>
<td>12. Uttarakhand</td>
<td>DRY</td>
<td>SCT</td>
<td>WS</td>
<td>WS</td>
<td>FWS</td>
</tr>
<tr>
<td>13. Haryana, Chd &amp; Delhi</td>
<td>DRY</td>
<td>SCT</td>
<td>WS</td>
<td>WS</td>
<td>ISOL</td>
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<tr>
<td>14. Punjab</td>
<td>DRY</td>
<td>SCT</td>
<td>WS</td>
<td>WS</td>
<td>ISOL</td>
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<tr>
<td>15. Himachal Pradesh</td>
<td>ISOL</td>
<td>WS</td>
<td>WS</td>
<td>WS</td>
<td>SCT</td>
</tr>
<tr>
<td>17. West Rajasthan</td>
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<td>SCT</td>
<td>ISOL</td>
<td>DRY</td>
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<tr>
<td>18. East Rajasthan</td>
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<td>SCT</td>
<td>ISOL</td>
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<tr>
<td>19. West Madhya Pradesh</td>
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<td>ISOL</td>
<td>ISOL</td>
<td>DRY</td>
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<td>20. East Madhya Pradesh</td>
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<td>ISOL</td>
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<td>21. Gujarat Region</td>
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<td>DRY</td>
<td>ISOL</td>
<td>ISOL</td>
</tr>
<tr>
<td>22. Saurashtra &amp; Kutch</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>ISOL</td>
<td>DRY</td>
</tr>
<tr>
<td>23. Konkan &amp; Goa</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
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<td>DRY</td>
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<tr>
<td>24. Madhya Maharashtra</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
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<tr>
<td>25. Marathwada</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
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<tr>
<td>26. Vidharbha</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
</tr>
<tr>
<td>27. Chhattisgarh</td>
<td>DRV</td>
<td>DRY</td>
<td>ISOL</td>
<td>ISOL</td>
<td>ISOL</td>
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<tr>
<td>28. Coastal Andhra Pradesh</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>ISOL</td>
<td>DRY</td>
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<td>29. Telangana</td>
<td>DRV</td>
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<td>DRY</td>
<td>DRY</td>
<td>ISOL</td>
</tr>
<tr>
<td>30. Rayalaseema</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
</tr>
<tr>
<td>31. Tamilnadu &amp; Puducherry</td>
<td>ISOL</td>
<td>ISOL</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
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<tr>
<td>32. Coastal Karnataka</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
</tr>
<tr>
<td>33. North Interior Karnataka</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>ISOL</td>
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<tr>
<td>34. South Interior Karnataka</td>
<td>DRV</td>
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<td>ISOL</td>
<td>DRY</td>
<td>DRY</td>
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<tr>
<td>35. Kerala</td>
<td>DRV</td>
<td>ISOL</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
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<tr>
<td>36. Lakshadweep</td>
<td>DRV</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
<td>DRY</td>
</tr>
</tbody>
</table>

% Station Reporting Rainfall

<table>
<thead>
<tr>
<th>% Stations</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>76-100</td>
<td>Widespread (Widespread Places)</td>
</tr>
<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/Many Places)</td>
</tr>
<tr>
<td>1-25</td>
<td>Isolated (ISOL)</td>
</tr>
<tr>
<td>No Rain</td>
<td>Dry</td>
</tr>
</tbody>
</table>

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(Source to the Nation since 1875)
Fig. 1: Maximum Temperature during past 24 hours

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Fig. 3: Departure from Normal of Maximum Temperatures

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Fig. 4: Departure from Normal of Minimum Temperatures

DEPARTURES OF MINIMUM TEMPERATURES DATED 04.02.2019

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(Since 1st May, 1901)
Monday 04 February 2019

04 February (Day 1): ♦ Dense fog at a few places with very dense fog at isolated places very likely over Uttar Pradesh and dense to very dense fog at isolated places over Haryana, Chandigarh & Delhi.

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(Service to the Nation since 1875)
Tuesday 05 February 2019

05 February (Day 2): ♦ Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir and Himachal Pradesh.

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(Source to the Nation since 1875)
06 February (Day 3):  ♦  **Heavy to very heavy rain/snow** very likely at isolated places over Jammu & Kashmir and **heavy rain/snow** at isolated places over Himachal Pradesh.

♦ **Thunderstorm accompanied with hailstorm** at isolated places very likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh.
Thursday 07 February 2019

07 February (Day 4): ♦ Heavy to very heavy rain/snow likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.

♦ Heavy rain/thundershowers at isolated places likely over Punjab, Haryana, Chandigarh and West Uttar Pradesh.

♦ Thunderstorm accompanied with hailstorm at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Madhya Pradesh.
08 February (Day 5): ♦ Thunderstorm accompanied with hailstorm at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and north Chhattisgarh.

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(Since in the Indian Union, 1975)
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### WARNING

**WARNING (TAKE ACTION)**

**ALERT (BE PREPARED)**

**WATCH (BE UPDATED)**

**NO WARNING (NO ACTION)**

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