Subject: (i) Deep Depression over Southwest Bay of Bengal.
(ii) Wet spell over Western Himalayan Region & adjoining plains of Northwest India during 06th-07th and 09th-10th March, 2022.
(iii) Isolated/scattered light/moderate rainfall with isolated thunderstorm/lightning very likely over Maharashtra, Gujarat Region, East Rajasthan and West Madhya Pradesh during 07th-09th March, 2022.

(i) Deep Depression over southwest Bay of Bengal

The depression over Southwest Bay of Bengal moved north-northwestwards and intensified into a Deep Depression over the same region at 1730 hrs IST of yesterday, the 04th March, 2022. Continuing to move north-northwestwards it lay centered at 0830 hrs IST of 5th March 2022, over the same region near latitude 11.4°N and longitude 82.6°E, about 350 km north-northeast of Trincomalee (Sri Lanka), 310km east-northeast of Nagappattinam (Tamil Nadu), 300 km east-southeast of Puducherry (Tamil Nadu) and about 300 km southeast of Chennai (Tamil Nadu).

It is likely to move northwestwards till 5th March evening and then west-southwestwards towards north Tamil Nadu Coast during subsequent 36 hours.

Forecast track and intensity are given in the following table:

<table>
<thead>
<tr>
<th>Date/Time(IST)</th>
<th>Forecast Lead Period</th>
<th>Position (Lat. °N/ long. °E)</th>
<th>Maximum sustained surface wind speed (kmph)</th>
<th>Category of cyclonic disturbance</th>
</tr>
</thead>
<tbody>
<tr>
<td>05.03.22/0830</td>
<td>00</td>
<td>11.4/82.6</td>
<td>55-65 gusting to 75</td>
<td>Deep Depression</td>
</tr>
<tr>
<td>05.03.22/1730</td>
<td>12</td>
<td>11.8/82.4</td>
<td>55-65 gusting to 75</td>
<td>Deep Depression</td>
</tr>
<tr>
<td>06.03.22/0530</td>
<td>24</td>
<td>11.6/81.8</td>
<td>50-60 gusting to 70</td>
<td>Deep Depression</td>
</tr>
<tr>
<td>06.03.22/1730</td>
<td>36</td>
<td>11.3/81.3</td>
<td>45-55 gusting to 65</td>
<td>Depression</td>
</tr>
<tr>
<td>07.03.22/0530</td>
<td>48</td>
<td>10.8/80.6</td>
<td>35-45 gusting to 55</td>
<td>Depression</td>
</tr>
</tbody>
</table>

Warnings:
(i) Rainfall (warning graphics enclosed)

5th March—Light to moderate rainfall/thundershower at isolated likely over north coastal Tamil Nadu, Puducherry & Karaikal.
6th March – Light to moderate rainfall/thundershower at few places with heavy rainfall at isolated places is very likely over north coastal Tamil Nadu, Puducherry & Karaikal. Light to moderate rainfall/thunder shower at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema.

7th March: Light to moderate rainfall/thundershower at many places with heavy to very heavy rainfall at isolated places is very likely over coastal Tamil Nadu, Puducherry & Karaikal. Light to moderate rainfall/thundershower at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema.

(ii) Wind warning
Squally winds speed reaching 55-65 kmph gusting to 75 kmph would prevail over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off north Tamil Nadu, Puducherry & South Andhra Pradesh coasts till 5th evening. The wind speed would decrease gradually becoming 50-60 kmph gusting to 70 kmph over the same region from 6th morning and becoming 45-55 kmph gusting to 65 kmph over the same region from evening of 6th March. It will further reduce becoming 35-45 kmph gusting to 55 kmph over the same region during 7th March.

(iii) Sea condition
Sea condition will be rough to very rough over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and Comorin area and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts till 7th March morning.

(iv) Fishermen Warning (Graphics enclosed)
Fishermen are advised not to venture into Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 7th March morning.

(ii) Wet spell over Western Himalayan Region & adjoining plains of Northwest India:

- A fresh Western Disturbance as a trough in middle & upper tropospheric westerlies runs roughly along Long.54°E to the north of Lat.30°N. Under its influence:
  - Isolated heavy rainfall/snowfall is also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 06th March 2022.
  - Isolated light rainfall very likely over Punjab and Haryana-Chandigarh during 06th-07th March, 2022.
  - Strong surface Winds (speed 25-35 kmph) very likely to prevail over plains of northwest India on 05th March, 2022.

- Another Western Disturbance is very likely to affect Western Himalayan Region & adjoining plains from the night of 08th March, 2022. Under its influence:
✓ Isolated light rainfall with thunderstorm/lightning very likely over Punjab, Haryana-Chandigarh and Rajasthan on 09th March, 2022.

(iii) Under the influence of a trough in easterlies:

✓ Isolated/scattered light/moderate rainfall with isolated thunderstorm/lightning very likely over Maharashtra, Gujarat Region, East Rajasthan and West Madhya Pradesh during 07th-09th March, 2022.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF

<table>
<thead>
<tr>
<th>DATE/TIME IN UTC</th>
<th>STATIONS</th>
<th>DISTANCE(KM) AND DIRECTION FROM STATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>05.03.22/0300</td>
<td>TRINCOMALEE</td>
<td>350,NNE</td>
</tr>
<tr>
<td></td>
<td>NAGAPATTINAM</td>
<td>310,ENE</td>
</tr>
<tr>
<td></td>
<td>PUDUCHERRY</td>
<td>300,SE</td>
</tr>
<tr>
<td></td>
<td>CHENNAI</td>
<td>300,SE</td>
</tr>
</tbody>
</table>

LESS THAN 34 KT
≥ 48 KT

FORECAST TRACK
CONE OF UNCERTAINTY

STATIONS DISTANCE(KM) AND DIRECTION FROM STATIONS
05.03.22/0300 06.03.22/0000 07.03.22/0000
TRINCOMALEE 350,NNE 340,N 260,NNW
NAGAPATTINAM 310,ENE 230,ENE 80,E
PUDUCHERRY 300,SE 220,E 160,SE
CHENNAI 300,SE 230,SE 250,S


Forecast distance (km) and direction of the centre of system from nearest 5 coastal stations

<table>
<thead>
<tr>
<th>Forecast Date/Time</th>
<th>Station 1</th>
<th>Station 2</th>
<th>Station 3</th>
<th>Station 4</th>
<th>Station 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>05.03.22/0300</td>
<td>Pudupattinam (290,ESE)</td>
<td>Tharangamba di (300,E)</td>
<td>Karaikal (310,E)</td>
<td>Kalapet (310,ESE)</td>
<td>Kottakkuppam (310,ESE)</td>
</tr>
<tr>
<td>05.03.22/1200</td>
<td>Tharangamba di (260,ENE)</td>
<td>Karaikal (270,ENE)</td>
<td>Kalapet (270,E)</td>
<td>Kottakkuppam (280,E)</td>
<td>Nagapattinam (280,ENE)</td>
</tr>
<tr>
<td>06.03.22/0000</td>
<td>Karaikal (210,ENE)</td>
<td>Kalapet (220,ESE)</td>
<td>Kottakkuppam (220,E)</td>
<td>Nagapattinam (220,ENE)</td>
<td>Parangipettai (220,E)</td>
</tr>
<tr>
<td>06.03.22/1200</td>
<td>Kalapet (160,ENE)</td>
<td>Kottakkuppam (170,ENE)</td>
<td>Nagapattinam (170,ENE)</td>
<td>Parangipettai (170,E)</td>
<td>Puducherry (170,ENE)</td>
</tr>
<tr>
<td>07.03.22/0000</td>
<td>Kottakkuppam (80,SE)</td>
<td>Nagapattinam (80,E)</td>
<td>Parangipettai (80,SE)</td>
<td>Puducherry (90,SE)</td>
<td>Cuddalore (100,SE)</td>
</tr>
</tbody>
</table>
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC OF 5th MARCH, 2022

DATE/TIME IN UTC

<table>
<thead>
<tr>
<th>MSW (knot/kmph)</th>
<th>Impact</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>28-33 (52-61)</td>
<td>Very rough seas</td>
<td>Total suspension of fishing operations</td>
</tr>
<tr>
<td>34-49 (62-91)</td>
<td>High to very high seas</td>
<td>Total suspension of fishing operations</td>
</tr>
<tr>
<td>50-63 (92-117)</td>
<td>Very high seas</td>
<td>Total suspension of fishing operations</td>
</tr>
<tr>
<td>≥ 64 (≥118)</td>
<td>Phenomenal</td>
<td>Total suspension of fishing operations</td>
</tr>
</tbody>
</table>
Weather Warning for India

OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM NIVAR OVER NORTH COASTAL TAMILNADU BASED ON 0000UTC OF 26TH NOVEMBER, 2020.
Fishermen Warning for North Indian Ocean

AREA UNDER FISHERMEN WARNING
- 35-45 KMPH GUSTING TO 55 KMPH (STRONG WIND)
- 40-50 KMPH GUSTING TO 65 KMPH (STRONG WIND)
- 45-55 KMPH GUSTING TO 70 KMPH
- 55-65 KMPH GUSTING TO 75 KMPH
Expected impact & action suggested due to heavy/very heavy rainfall over north coastal Tamilnadu-Puducherry-Karaikal on 06th & 07th March, 2022.

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 kutch 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)

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**: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
2) **Central India**: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
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.
Thunderstorm with Lightning