



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**

**Press Release  
Date: 22<sup>nd</sup> October, 2022  
Time of Issue: 1315 hrs IST**

- Subject: (i) The Well Marked Low Pressure Area concentrated into a Depression over southeast adjoining eastcentral Bay of Bengal. It is very likely to intensify further into a Deep Depression over eastcentral and adjoining southeast bay of Bengal by 23rd October morning. Subsequently, it is very likely to recurve gradually north-northeastwards and intensify into a Cyclonic Storm over central Bay of Bengal by 24th October morning.**
- (ii) Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)**

**Withdrawal of Southwest Monsoon:**

- The withdrawal line of Southwest Monsoon continues to pass through Long. 94.5°E/ Lat. 17.0°N, Kakinada, Ramagundam, Buldana, Dahanu and Long. 71.0° E/Lat. 19.5° N (**Annexure II**).
- Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.

**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure III)**

- The **Well Marked Low Pressure Area** over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal moved west-northwestward and concentrated into a **Depression** in the morning at 0830 IST of today, the 22nd October, 2022 over southeast adjoining eastcentral Bay of Bengal, close to west of Andaman Islands near latitude 12.7°N and longitude 2.4°E, about 110 km north-northwest of Port Blair, 1460 km south-southeast of Sagar Island and 1130 km south-southeast of Barisal (Bangladesh). It is very likely to move northwestward and intensify further into a **Deep Depression** over eastcentral and adjoining southeast bay of Bengal by 23rd October morning. Subsequently, it is very likely to recurve gradually north-northeastwards and intensify into a **Cyclonic Storm** over central Bay of Bengal by 24th October morning. Thereafter, it would continue to move north-northeastwards and cross Bangladesh coast between Tinkona Island and Sandwip around 25th October early morning (**Refer Annexure V**).
- The trough now runs from the cyclonic circulation associated with the **Depression** over southeast adjoining eastcentral Bay of Bengal to Comorin area across South Bay of Bengal & north Sri Lanka in lower & middle tropospheric levels.
- The Western Disturbance now seen as a trough in mid & upper tropospheric westerlies with its axis roughly along Long. 80.0° E to the north of Lat. 20.0° N.

**Rainfall warning:**

- Scattered/Fairly widespread rainfall with **isolated heavy falls** very likely over Odisha and Gangetic West Bengal during 24<sup>th</sup> & 25<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Gangetic West Bengal on 24<sup>th</sup> & 25<sup>th</sup> October, 2022.**
- Widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 22<sup>nd</sup>-24<sup>th</sup> with **isolated very heavy falls on 22<sup>nd</sup> October, 2022.**
- Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh on 24<sup>th</sup> & 25<sup>th</sup>; Assam & Meghalaya during 24<sup>th</sup>-26<sup>th</sup> and Mizoram & Tripura during 23<sup>rd</sup>-26<sup>th</sup> October, 2022. **Isolated very heavy rainfall also very likely over Arunachal Pradesh on 24<sup>th</sup> & 25<sup>th</sup>; Assam & Meghalaya and Mizoram & Tripura on 24<sup>th</sup> October, 2022. Isolated extremely heavy falls also very likely over south Assam & Meghalaya and Mizoram & Tripura on 25<sup>th</sup> October, 2022.**
- Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 22<sup>nd</sup> October, 2022.
- **Dry weather very likely to prevail over most parts of Northwest & Central India.**

**Wind warning:**

- **22<sup>nd</sup> October:** Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over eastcentral & adjoining southeast Bay of Bengal, Andaman Islands and Andaman Sea.
- **23<sup>rd</sup> October:** Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal from morning. It would gradually increase becoming 65-75 kmph gusting to 85 kmph from 23<sup>rd</sup> evening. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts and Andaman Islands and adjoining north Andaman Sea.
- **24<sup>th</sup> October:** Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely along & off Odisha and West Bengal coasts.
- **25<sup>th</sup> October:** Gale wind speed reaching 90-100 kmph gusting to 110 kmph is likely over north and adjoining central Bay of Bengal and along & off Bangladesh coast; 80-90 kmph gusting to 100 kmph likely along & off 24 Parganas District and 60-70 kmph gusting to 80 kmph along & off east Medinipur district off West Bengal coast. Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along and off Balasore district & 45-55 kmph gusting to 65 kmph along & off remaining north coastal districts of Odisha and over Mizoram & Tripura.

**Sea condition:**

- **22<sup>nd</sup> October:** Rough to very rough over eastcentral & adjoining southeast Bay of Bengal & north Andaman Sea.
- **23<sup>rd</sup> October:** Very rough over westcentral and adjoining eastcentral & southeast Bay of Bengal from morning. It would become high from evening over westcentral and adjoining eastcentral Bay of Bengal. Rough along & off Odisha-West Bengal-Bangladesh coasts.
- **24<sup>th</sup> October:** High over westcentral and adjoining eastcentral & north Bay of Bengal. Rough to very rough along & off Odisha-West Bengal-Bangladesh coasts.

- **25<sup>th</sup> October:** High over north Bay of Bengal along & off Bangladesh-West Bengal coasts.

**Fishermen Warning: (Fishermen graphics in Annexure IV)**

- Fishermen are advised not to venture into southeast & adjoining eastcentral Bay of Bengal & North Andaman Sea on 22<sup>nd</sup>; central Bay of Bengal on 23<sup>rd</sup>, central & adjoining north Bay of Bengal on 24<sup>th</sup>, north & adjoining central Bay of Bengal on 25<sup>th</sup> October, 2022.
- Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 23<sup>rd</sup> to 25<sup>th</sup> October. Fishermen out at sea are advised to return to the coast.

**Advisory for On-shore and Off-shore Installations:**

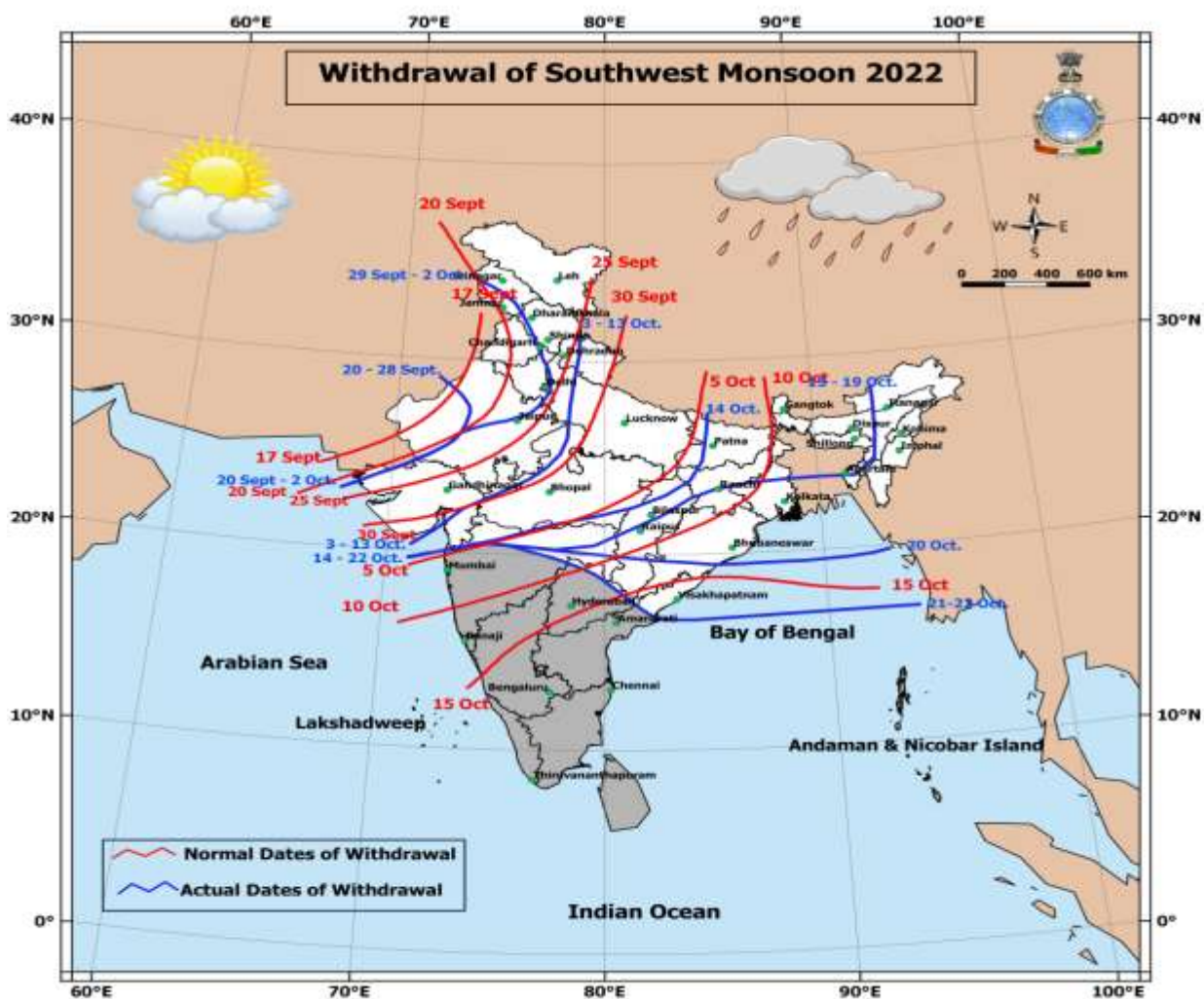
- Regulation of offshore activities from 22<sup>nd</sup> over central and North Bay of Bengal till 25<sup>th</sup> and over Andaman Sea till 23<sup>rd</sup>. Suspension of off-shore activities during 24<sup>th</sup> to 25<sup>th</sup> October along and off Odisha and West Bengal coasts.

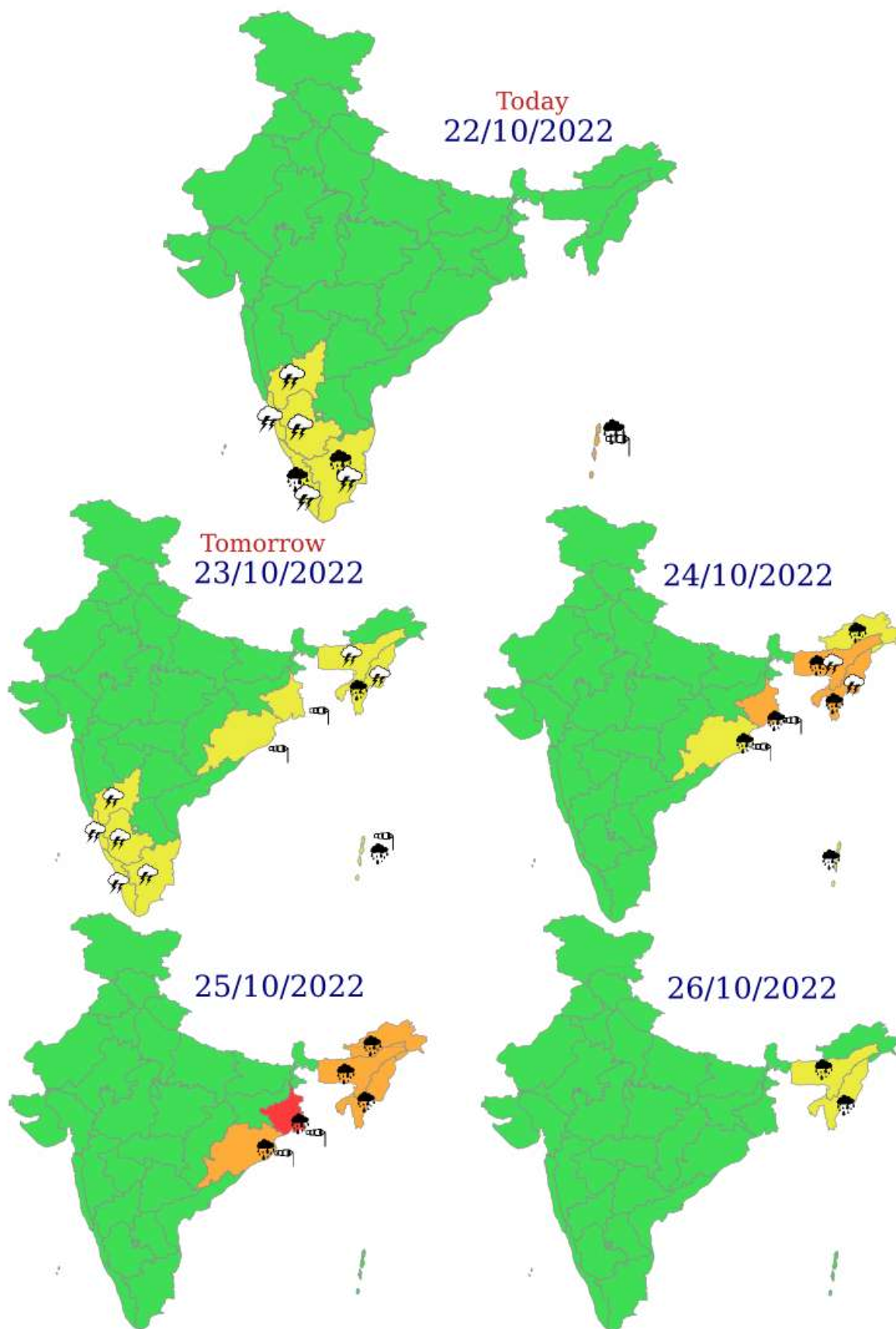
For more details kindly refer: [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

- ❖ Isolated heavy rainfall occurred over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Kerala.

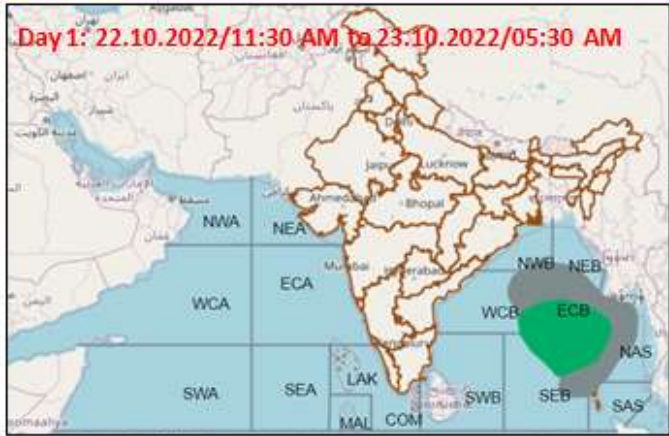
**Rainfall (in cm):**

- ❖ **Konkan & Goa:** Roha (dist Raigad) 10;
- ❖ **Kerala:** Anakayam ARG (Dist Malappuram) 9, Thodupuzha (Dist Idukki) 8;
- ❖ **Andaman & Nicobar Islands:** Car Nicobar (Dist Nicobar) 9;
- ❖ **Madhya Maharashtra:** Sangli - Imd Obsy (dist Sangli) 7, Akole (dist Ahmednagar) 7.





## Fishermen warning graphics

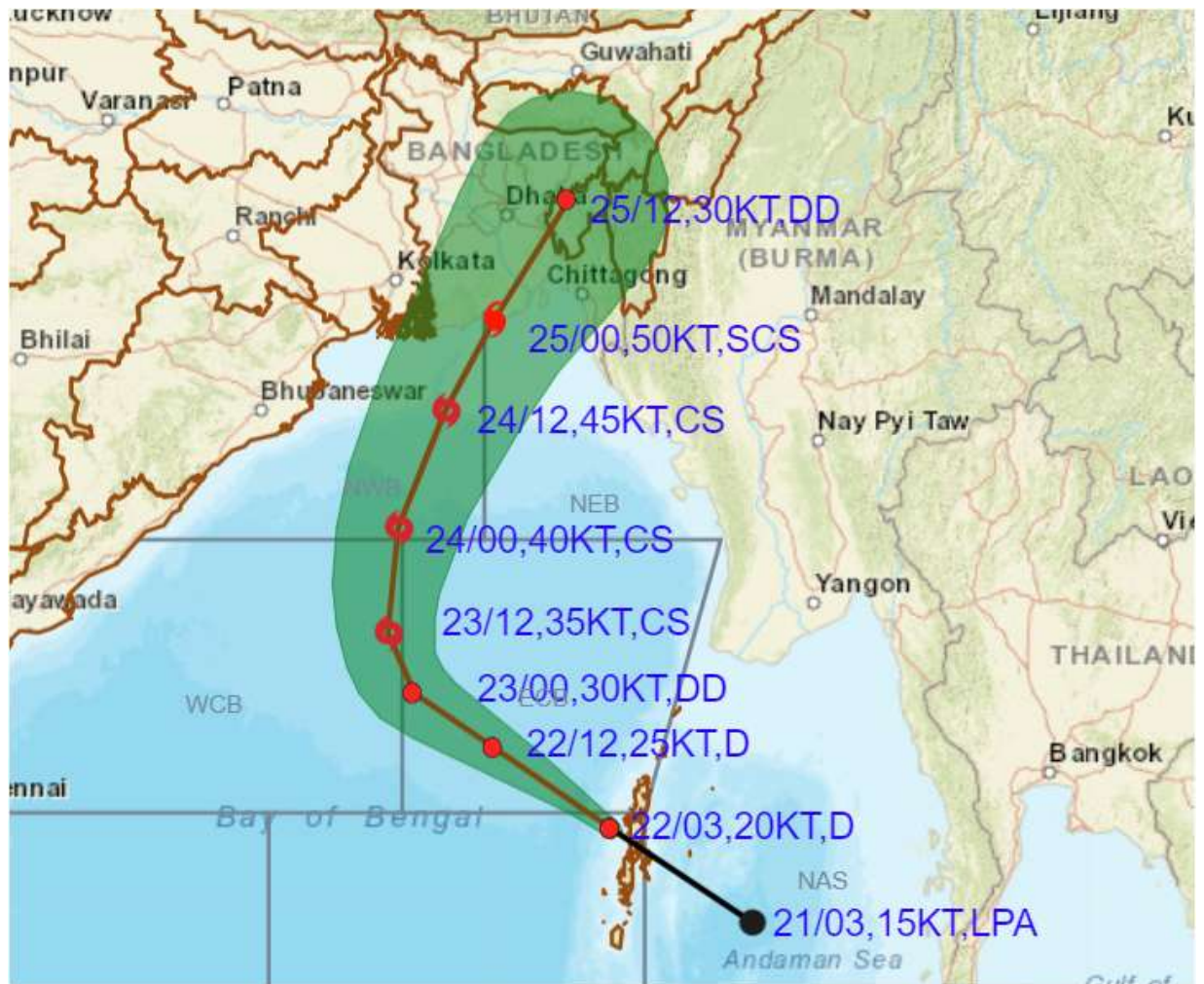


|  |  |
|--|--|
|  | Squally WX with wind speed 40-45 kmph gusting to 55 kmph         |
|  | Squally WX with wind speed 45-55 kmph gusting to 65 kmph         |
|  | Squally wind speed with wind speed 45-55 kmph gusting to 65 kmph |
|  | Squally wind speed with wind speed 50-60 kmph gusting to 70 kmph |
|  | Gale wind speed with wind speed 65-75 kmph gusting to 85 kmph    |
|  | Gale wind speed with wind speed 80-90 kmph gusting to 100 kmph   |
|  | Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph  |

Fishermen are advised not to venture into the marked areas.



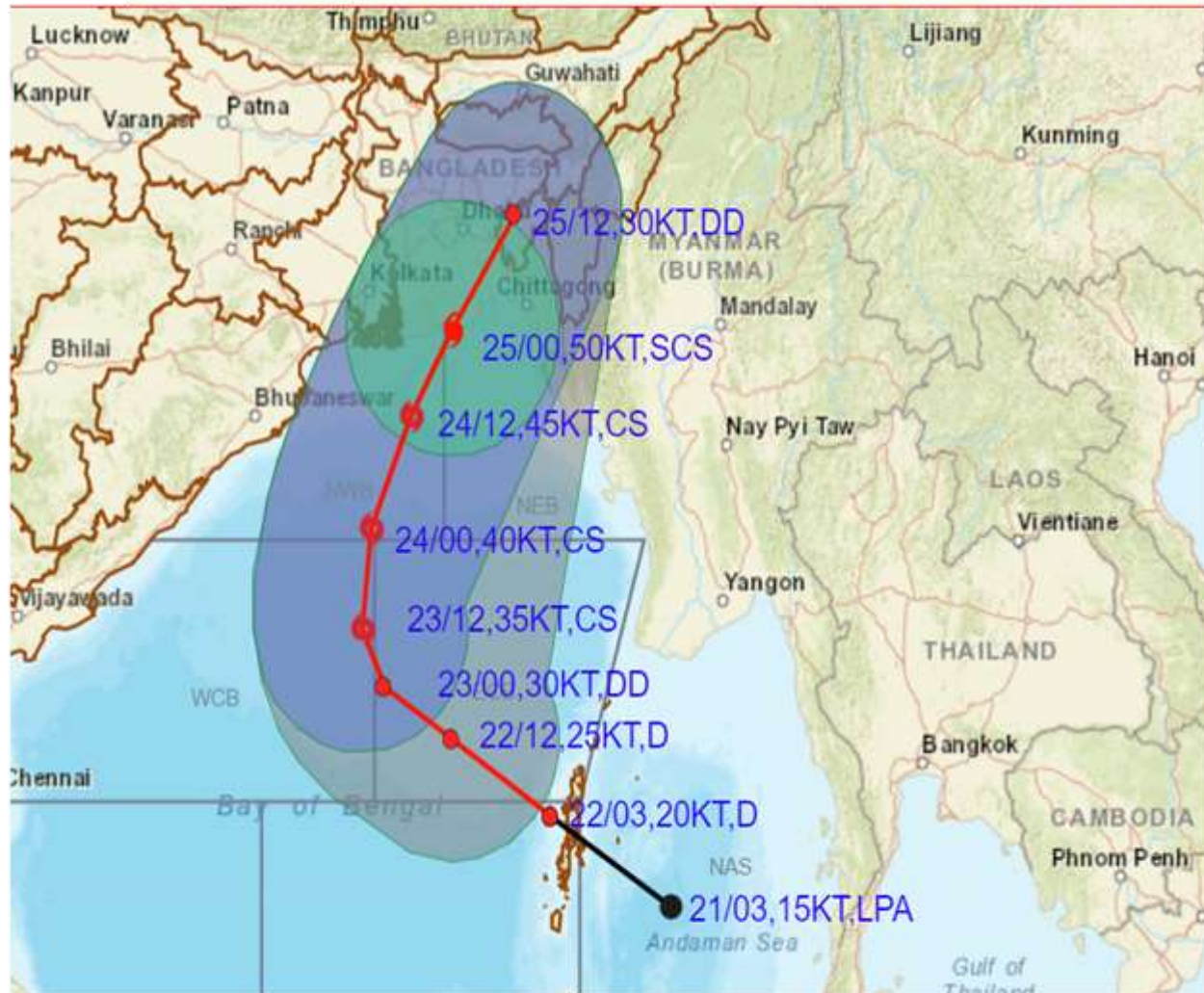
**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL NEAR ANDAMAN ISLANDS BASED ON 0300 UTC OF 22<sup>nd</sup> OCTOBER, 2022**



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL NEAR ANDAMAN ISLANDS BASED ON 0300 UTC OF 22<sup>nd</sup> OCTOBER, 2022**



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 ● ≥ 48 KT  
 — OBSERVED TRACK  
 — FORECAST TRACK  
 — CONE OF UNCERTAINTY  
 AREA OF MAXIMUM SUSTAINED WIND SPEED:  
 ■ 28-33 KT (52-61 KMPH)  
 ■ 34-49 KT (62-91 KMPH)  
 ■ 50-63 KT (92-117 KMPH)  
 ■ ≥ 64 (≥118 KMPH)

**IMPACT OVER THE SEA**

| MSW (knot/kmph) | Impact                 | Action                                 |
|-----------------|------------------------|--|
| 28-33 (52-61)   | Very rough seas        | Total suspension of fishing operations |
| 34-49 (62-91)   | High to very high seas | Total suspension of fishing operations |
| 50-63 (92-117)  | Very high seas         | Total suspension of fishing operations |
| ≥ 64 (≥118)     | Phenomenal             | Total suspension of fishing operations |



## **IMPACT EXPECTED & ACTION SUGGESTED DUE TO-**

**(i) Isolated very heavy rainfall over Andaman & Nicobar Islands on 22<sup>nd</sup>; Gangetic West Bengal on 24<sup>th</sup> & 25<sup>th</sup>; Assam & Meghalaya and Mizoram & Tripura on 24<sup>th</sup> and Arunachal Pradesh on 25<sup>th</sup> October, 2022.**

**(ii) Isolated extremely heavy rainfall over south Assam & Meghalaya and Mizoram & Tripura on 25<sup>th</sup> October, 2022.**

### **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.

## 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.

| <b>SPATIAL DISTRIBUTION</b> (% of Stations reporting) |                                      |            |                               |
|---|--------------------------------------|------------|-------------------------------|
| % Stations  | Category                             | % Stations | Category                      |
| 76-100  | Widespread (WS/Most Places)          | 26-50      | Scattered (SCT/ A Few Places) |
| 51-75   | Fairly Widespread (FWS/ Many Places) | 1-25       | Isolated (ISOL)               |



| <b>WARNING</b>         |  |
|------------------------|--|
| WARNING (TAKE ACTION)  |  |
| ALERT (BE PREPARED)    |  |
| WATCH (BE UPDATED)     |  |
| NO WARNING (NO ACTION) |  |

| <b>Probabilistic Forecast</b> |                               |
|-------------------------------|-------------------------------|
| Terms                         | Probability of Occurrence (%) |
| Unlikely                      | < 25                          |
| Likely                        | 25 - 50                       |
| Very Likely                   | 50 - 75                       |
| Most Likely                   | > 75                          |

