

Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 21st October, 2023 Time of Issue: 1300 hours IST

Subject:

- (i) The Well Marked Low Pressure Area over Southeast and adjoining Central Bay of Bengal very likely to intensify into a Depression over Westcentral Bay of Bengal by 22nd, move north-northeastwards towards Bangladesh and adjoining West Bengal coasts and intensify further during subsequent 3 days.
- (ii) Northeast Monsoon rainfall activity has commenced over Tamil Nadu and Kerala today, the 21st October, 2023.
- (iii) The Cyclonic Storm "Tej" over Southwest Arabian Sea very likely to intensify into a Severe Cyclonic Storm during next 12 hours, further into a Very Severe Cyclonic Storm during subsequent 24 hours and cross Yemen-Oman coasts between Al Ghaidah (Yemen) & Salalah (Oman) around early morning of 25th October.

Rainfall recorded during past 24 hours till 0830 hours IST of today, the 21st Oct., 2023 (Annexure I)

Commencement of Northeast Monsoon rainfall:

In association with the Well Marked Low Pressure Area over Southeast & adjoining Central Bay of Bengal and a cyclonic circulation over the Comorin Area; northeasterly winds have strengthened over South & Central Bay of Bengal and extend upto middle tropospheric levels. Under the influence of these atmospheric conditions; Northeast Monsoon rainfall activity has commenced over Tamil Nadu and Kerala today, the 21st October, 2023.

Significant Weather features:

- ❖ Yesterday's Depression over Southwest Arabian Sea moved nearly west-northwestwards, intensified into a Deep Depression at 1730 hours IST of yesterday, the 20th October and further into a **Cyclonic Storm "Tej" (pronounced as Tej)** at 0530 hours IST of today, the 21st October over the same region.
 - It moved west-northwestwrads with a speed of 23 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 21st October over the same region, near latitude 10.1°N and longitude 58.8°E about 600 km east-southeast of Socotra (Yemen), 920 km south-southeast of Salalah (Oman) and 980 km southeast of Al Ghaidah (Yemen).
 - ➤ It is very likely to intensify into a **Severe Cyclonic Storm** during next 12 hours and further into a **Very Severe Cyclonic Storm** during subsequent 24 hours. It is very likely to move west-northwestwards till 22nd morning, northwestwards thereafter till 24th morning & then north-northwestwards. It is likely to cross Yemen-Oman coasts between Al Ghaidah (Yemen) & Salalah (Oman) around early morning of 25th October. **(Cyclone track in Annexure III)**
- Yesterday's Low Pressure Area over Southwest & adjoining Southeast Bay of Bengal now lies as a Well Marked Low Pressure Area over Southeast and adjoining Central Bay of Bengal at 0830 hours IST of 21st October, 2023. It is very likely to move northwestwards and intensify into a Depression over Westcentral Bay of Bengal by 22nd October. Thereafter, it is likely to move north-northeastwards towards Bangladesh and adjoining West Bengal coasts and intensify further during subsequent 3 days.

❖ A cyclonic circulation lies over Comorin area & neighbourhood in lower tropospheric levels and a trough runs from the cyclonic circulation associated with the **Well Marked Low Pressure Area** over Southeast & adjoining Central Bay of Bengal to Comorin area extending upto middle tropospheric levels.

Weather warnings for next 5 days: (Graphics in Annexure II)

South India: Light to moderate rainfall at most places with isolated **heavy rainfall** accompanied with thunderstorm, lightning & gusty winds very likely over Kerala during 21^{st} - 25^{th} October. Light to moderate rainfall at some places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Tamil Nadu on 21^{st} & 22^{nd} October.

Weather warnings in association with the cyclonic storm "Tej" (pronounced as Tej) over Southwest Arabian Sea:

- (i) Wind warning: (Graphics in Annexure IV)
 - ❖ Southwest Arabian Sea: Gale wind speed reaching 75-85 kmph gusting to 95 kmph is prevailing and likely to increase gradually becoming 90-100 kmph gusting to 110 kmph by evening of today, the 21st October and 110-120 kmph gusting to 135 kmph by morning of 22nd October. It is likely to decrease gradually becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph by morning of 23rd and Squally wind speed reaching 50-60 kmph gusting to 70 kmph by morning of 24th October. It would decrease gradually thereafter.
 - ❖ Westcentral Arabian Sea: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing and likely to become Gale wind speed reaching 80-90 kmph gusting to 100 kmph by evening of 21st October. It is likely to increase gradually becoming Gale wind speed reaching 110-120 kmph gusting to 135 kmph in the morning of 22nd, 150-160 kmph gusting to 175 kmph in the morning of 23rd October. Thereafter, it is likely to decrease gradually from evening of 23rd October becoming Gale wind speed reaching 135-145 kmph gusting to 160 kmph by 24th morning and 100-110 kmph gusting to 120 kmph on 25th morning. It would decrease rapidly after the landfall becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph in the evening of 25th October and Squally wind speed reaching 35-45 kmph gusting to 55 kmph by morning of 26th October.

(ii) Fishermen Warning:

Fishermen are advised not to venture into

- ❖ Southwest Arabian Sea till 25th October.
- Westcentral Arabian Sea till 26th October.

Weather warnings in association with the Well Marked Low Pressure Area over Southeast & adjoining Central Bay of Bengal:

- (i) Rainfall Warning: (Graphics in Annexure II)
 - ❖ Nagaland, Manipur, Mizoram & Tripura: Light to moderate rainfall at most places with isolated heavy rainfall is likely on 24th and 25th October.
 - South Assam: Light to moderate rainfall at some places with isolated heavy rainfall is likely on 25th October.
 - ❖ Coastal Districts of Odisha: Light to moderate rainfall at a few places is likely on 23rd and at many places on 24th & 25th October.
 - ❖ Coastal Districts of West Bengal: Light to moderate rainfall at many places is likely on 24th and 25th October.

(ii) Wind warning: (Graphics in Annexure IV)

- ❖ Southeast and adjoining eastcentral & southwest Bay of Bengal: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail near the system on 21st & 22nd and 50-60 kmph gusting to 70 kmph on 23rd October. It is likely to decrease gradually thereafter.
- ❖ Westcentral Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on 21st October. It is likely to gradually increase becoming 45-55 kmph gusting to 65 kmph on 22nd and 50-60 kmph gusting to 70 kmph on 23rd & 24th October.
- **❖ North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts: Squally wind** speed reaching **45-55 kmph gusting to 65 kmph** is likely to prevail from 24th to 26th October.

(iii) Fishermen Warning:

Fishermen are advised not to venture into

- **❖ Southeast and adjoining eastcentral & southwest Bay of Bengal** till 23rd October.
- **❖ Westcentral Bay of Bengal** from 21st October onwards.
- ❖ North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts from 24th to 26th October.

Kindly visit https://rsmcnewdelhi.imd.gov.in/index.php?lang=en for detailed forecast & warnings regarding the above cyclonic disturbances.

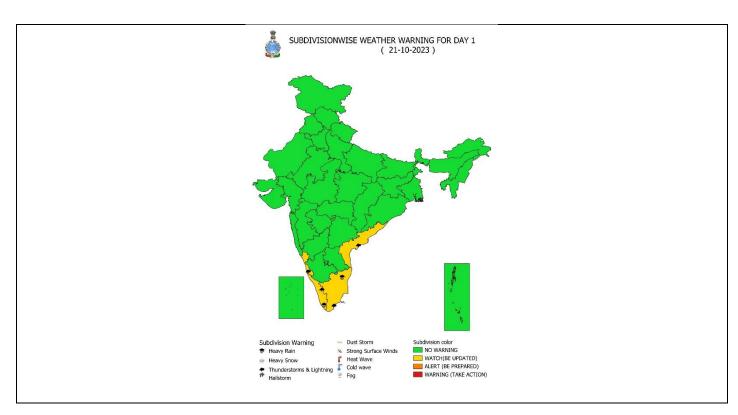
For more details kindly refer: https://mausam.imd.gov.in/responsive/all india forcast bulletin.php

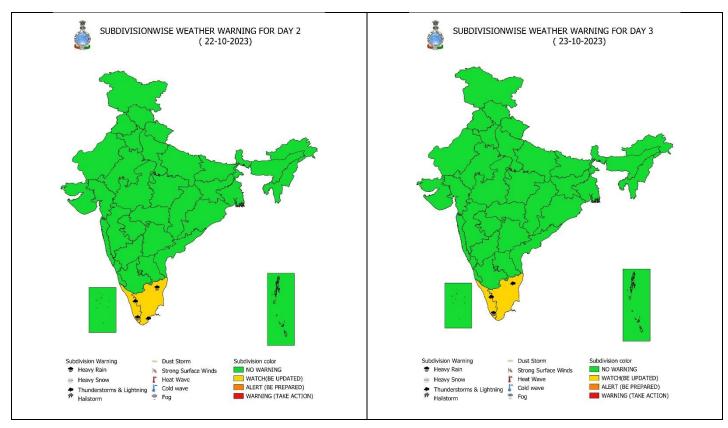
Annexure I

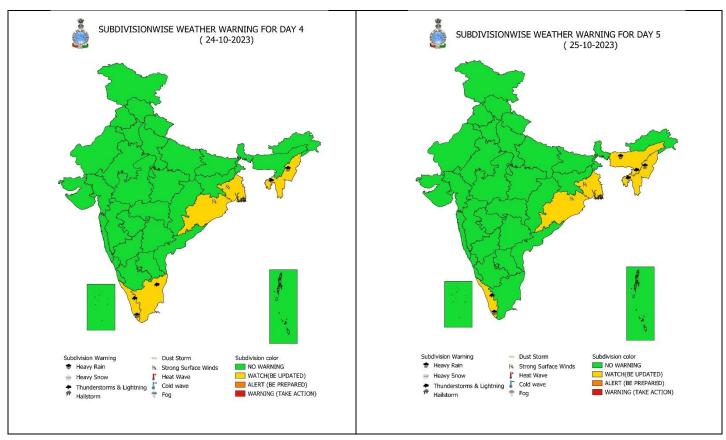
Rainfall observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 21st October, 2023):

- ❖ Heavy rainfall recorded at isolated places over Kerala and Tamil Nadu.
- Significant rainfall recorded (in cm):
 - o Kerala: Kayamkulam_ Agri (dist Alapuzha) 9, Kayamkulam (dist Alapuzha) 8;
 - o **Tamil Nadu:** Kottaram (dist Kanniyakumari) 7.

Annexure II

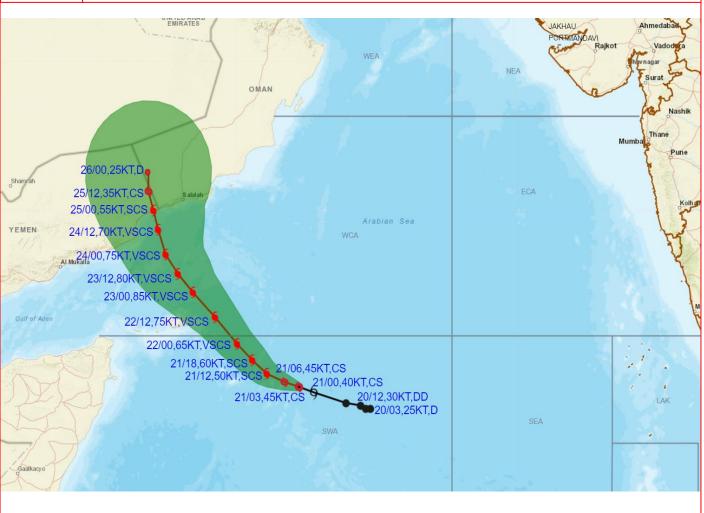








OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "TEJ" OVER SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 21st OCTOBER 2023.



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

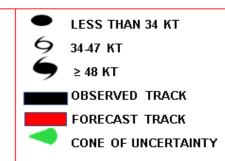
D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

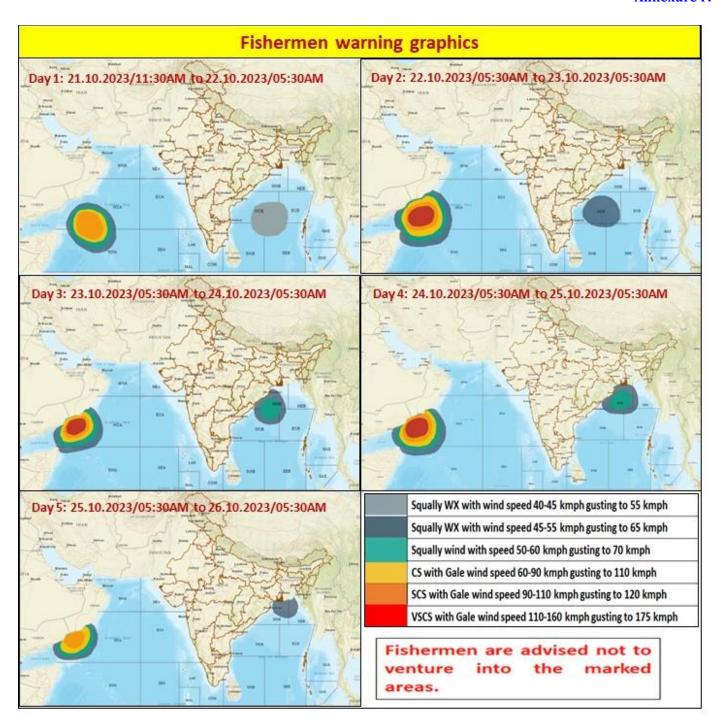
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM € 120 KT)



Annexure IV



Legends:

- ❖ Heavy Rain: 64.5 to 115.5 mm; Very Heavy Rain: 115.6 to 204.4 mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation
- * Region wise classification of meteorological Sub-Divisions:
 - 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.
 - Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

