

#### India Meteorological Department (Ministry of Earth Sciences)

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Sub: (A) Deep Depression intensified into a cyclonic storm "Tej" (pronounced as Tej) over southwest Arabian Sea

(B) Low pressure Area over southeast and adjoining eastcentral Bay of Bengal

# (A) Deep Depression intensified into a cyclonic storm "Tej" (pronounced as Tej) over southwest Arabian Sea

The deep depression over southwest Arabian Sea moved west-northwestwards with a speed of 24 kmph during past 6 hours, intensified into a cyclonic storm "Tej" (pronounced as Tej) and lay centered at 0530 hours IST of 21<sup>st</sup> October over the same region, near latitude 9.9°N and longitude 59.4°E about 670 km east-southeast of Socotra (Yemen), 980 km south-southeast of Salalah (Oman) and 1050 km east-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 22<sup>nd</sup> morning, northwestwards thereafter till 24<sup>th</sup> morning & then north-northwestwards. It is likely to cross Yemen-Oman coasts between AI Ghaidah (Yemen) & Salalah (Oman) around early morning of 25<sup>th</sup> October.

#### Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
21.10.23/0530	9.9/59.4	70-80 gusting to 90	Cyclonic Storm
21.10.23/1130	10.4/58.7	80-90 gusting to 100	Cyclonic Storm
21.10.23/1730	10.9/57.9	90-100 gusting to 110	Severe Cyclonic Storm
21.10.23/2330	11.3/57.2	105-115 gusting to 125	Severe Cyclonic Storm
22.10.23/0530	11.8/56.5	110-120 gusting to 135	Very Severe Cyclonic Storm
22.10.23/1730	12.7/55.4	135-145 gusting to 160	Very Severe Cyclonic Storm
23.10.23/0530	13.6/54.5	150-160 gusting to 175	Very Severe Cyclonic Storm
23.10.23/1730	14.3/53.9	145-155 gusting to 170	Very Severe Cyclonic Storm
24.10.23/0530	15.0/53.4	135-145 gusting to 160	Very Severe Cyclonic Storm
24.10.23/1730	15.9/53.1	125-135 gusting to 150	Very Sever Cyclonic Storm
25.10.23/0000	16.6/52.9	100-110 gusting to 120	Severe Cyclonic Storm
25.10.23/1200	17.3/52.7	60-70 gusting to 80	Cyclonic Storm
26.10.23/0000	18.0/52.7	40-50 gusting to 60	Depression

## Warnings:

#### (i) Wind warning (warning graphics enclosed):

## • Southwest Arabian Sea:

**Gale wind** speed reaching **70-80 kmph gusting to 90 kmph** is prevailing and likely to increase gradually becoming **90-100 kmph gusting to 110 kmph** by evening of today, the 21<sup>st</sup> October and **110-120 kmph gusting to 135 kmph** by morning of 22<sup>nd</sup> October. It is likely to decrease gradually becoming **Gale wind** speed reaching **60-70 kmph gusting to 70 kmph** by morning of 23<sup>rd</sup> and **Squally wind** speed reaching **50-60 kmph gusting to 70 kmph** by morning of 24<sup>th</sup> 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 21<sup>st</sup> October. It is likely to increase gradually becoming Gale wind speed reaching 110-120 kmph gusting to 135 kmph in the morning of 22<sup>nd</sup>, 150-160 kmph gusting to 175 kmph in the morning of 23<sup>rd</sup> October. Thereafter, it is likely to decrease gradually from evening of 23<sup>rd</sup> October becoming Gale wind speed reaching 135-145 kmph gusting to 160 kmph by 24<sup>th</sup> morning and 100-110 kmph gusting to 120 kmph on 25<sup>th</sup> morning. It would decrease rapidly after the landfall becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph in the evening of 25<sup>th</sup> October and Squally wind speed reaching 35-45 kmph gusting to 55 kmph by morning of 26<sup>th</sup> October.

#### (ii) Sea Condition

#### • Southwest Arabian Sea:

**Very rough** sea condition is prevailing and becoming **high** in the evening of today, the 21<sup>st</sup> October. It is likely to become **phenomenal sea condition** from morning of 22<sup>nd</sup> to morning of 23<sup>rd</sup> October. It is likely to improve gradually becoming **very high** from 24<sup>th</sup> morning and continue till 25<sup>th</sup> morning. Thereafter, it would improve gradually.

#### • Westcentral Arabian Sea:

**Rough to very rough sea condition** is prevailing and it is likely to become **high to very high** from evening of today, 21<sup>st</sup> October. It is likely to become phenomenal from 22<sup>nd</sup> morning and likely to continue till night of 24<sup>th</sup> October. It would improve gradually thereafter becoming **very high to high** from 25<sup>th</sup> morning. Thereafter, it would improve gradually.

#### (iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- Southwest Arabian Sea till 25<sup>th</sup> October.
- Westcentral Arabian Sea till 26<sup>th</sup> October.
- Those out at sea are advised to return to coast.

# (B) Low pressure Area over southeast and adjoining eastcentral Bay of Bengal

The low pressure area over southwest and adjoining southeast Bay of Bengal lay centered over southeast & adjoining eastcentral Bay of Bengal at 0530 hours IST of 21<sup>st</sup> October, 2023. It is very likely to move northwestwards and intensify into a depression over westcentral Bay of Bengal around 22<sup>nd</sup> October. Thereafter, it is likely to move north-northeastwards towards Bangladesh and adjoining West Bengal coasts during subsequent 3 days.

#### Warnings:

## (i) Rainfall Warning

## Nagaland, Manipur, Mizoram & Tripura:

Light to moderate rainfall at most places with isolated heavy rainfall is likely on 24<sup>th</sup> and 25<sup>th</sup> October.

**Coastal Districts of Odisha:** Light to moderate rainfall at a few places is likely on 23<sup>rd</sup> and at many places on 24<sup>th</sup> & 25<sup>th</sup> October.

#### **Coastal Districts of West Bengal:**

Light to moderate rainfall at many places is likely on 24<sup>th</sup> and 25<sup>th</sup> October.

(ii) Wind warning (warning graphics enclosed):

- 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 21<sup>st</sup> & 22<sup>nd</sup> and 50-60 kmph gusting to 70 kmph on 23<sup>rd</sup> 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 21<sup>st</sup> October. It is likely to gradually increase becoming 45-55 kmph gusting to 65 kmph on 22<sup>nd</sup> and 50-60 kmph gusting to 70 kmph on 23<sup>rd</sup> & 24<sup>th</sup> 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 24<sup>th</sup> to 26<sup>th</sup> October.

(iii) Sea Condition

- Southeast and adjoining eastcentral & southwest Bay of Bengal: Moderate to rough sea condition is likely to prevail near the system on 21<sup>st</sup> and it is likely to become rough to very rough on 23<sup>rd</sup> October. It is likely to improve gradually thereafter.
- Westcentral Bay of Bengal: Rough sea condition is likely to prevail on 21<sup>st</sup> October. It is likely to become rough to very rough from 23<sup>rd</sup> October.
- North Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts: Rough to very rough sea condition is likely from 24<sup>th</sup> to 26<sup>th</sup> October.

# (iv) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

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

Those out at sea are advised to return to coast.

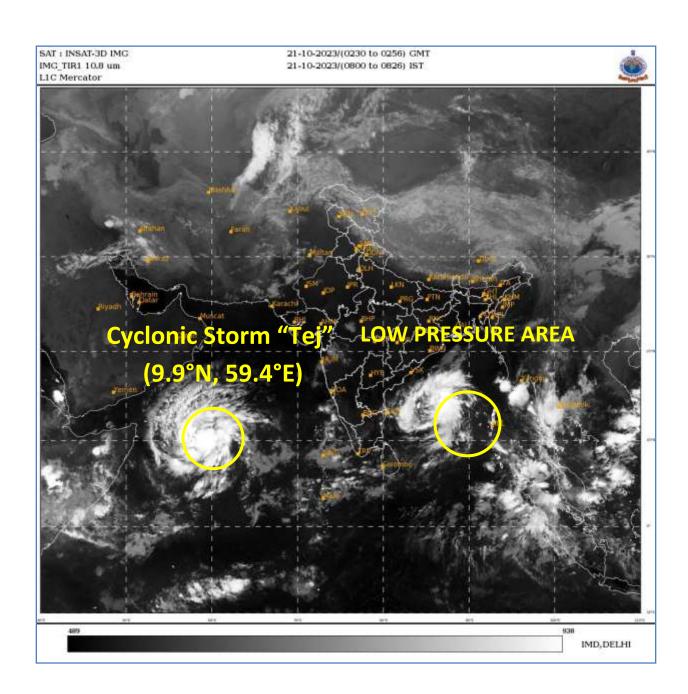
Both the systems are under continuous surveillance and the next bulletin will be issued at 1130 hours IST of today, the 21<sup>st</sup> October, 2023.

(A K Das)

#### Scientist F, Cyclone Warning, New Delhi

Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF CYCLONIC STORM "TEJ" OVER SOUTHWEST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 21<sup>st</sup> OCTOBER 2023.

