



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

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**Sub: (A) Extremely Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea and**

**(B) Deep Depression over Westcentral Bay of Bengal**

**(A) Extremely Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea**

The Extremely Severe Cyclonic Storm "Tej" (pronounced as Tej) over Westcentral Arabian Sea continued to move northwestwards with a speed of 13 kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, the 22<sup>nd</sup> October over Westcentral Arabian Sea, near latitude 13.8°N and longitude 53.9°E, about 130 km north of Socotra (Yemen), 360 km south of Salalah (Oman) and 320 km southeast of Al Ghaidah (Yemen).

It is very likely to continue to move northwestwards and cross Yemen coast close to Al-Ghaidah around early hours of 24<sup>th</sup> October as a **Very Severe Cyclonic Storm** with wind speed of 125-135 kmph gusting to 150 kmph.

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

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
22.10.23/2330	13.8/53.9	170-180 gusting to 200	Extremely Severe Cyclonic Storm
23.10.23/0530	14.5/53.3	165-175 gusting to 195	Extremely Severe Cyclonic Storm
23.10.23/1130	15.0/52.9	150-160 gusting to 175	Very Severe Cyclonic Storm
23.10.23/1730	15.5/52.5	135-145 gusting to 160	Very Severe Cyclonic Storm
23.10.23/2330	15.7/52.3	130-140 gusting to 155	Very Severe Cyclonic Storm
24.10.23/1130	16.2/51.8	80-90 gusting to 100	Cyclonic Storm
24.10.23/2330	16.6/51.2	40-50 gusting to 60	Depression
25.10.23/1130	17.0/50.6	25-35 gusting to 45	Well Marked Low

### **Warnings:**

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

- **Southwest Arabian Sea:**

**Gale wind** speed reaching **140-150 kmph gusting to 160 kmph** is prevailing and is likely to decrease gradually becoming **Gale wind** speed reaching **80-90 kmph gusting to 100 kmph** by evening of 23<sup>rd</sup> and **Squally wind** speed reaching **40-50 kmph gusting to 60 kmph** by early hours of 24<sup>th</sup> October. It would decrease gradually thereafter.

- **Westcentral Arabian Sea:**

**Gale wind** speed reaching **170-180 kmph gusting to 200 kmph** is prevailing and is likely to decrease gradually becoming **Gale wind** speed reaching **150-160 kmph gusting to 175 kmph** by 23<sup>rd</sup> noon and **125-135 kmph gusting to 150 kmph** by early hours of 24<sup>th</sup> October. It would decrease rapidly after the landfall becoming **Squally wind** speed reaching **40-50 kmph gusting to 60 kmph** in the morning of 25<sup>th</sup> October.

#### **(ii) Sea Condition**

- **Southwest Arabian Sea:**

**Phenomenal** sea condition is prevailing and will continue till morning of 23<sup>rd</sup> October. It is likely to improve gradually becoming **high to very rough** till evening of 23<sup>rd</sup>, **very rough to rough** till evening of 24<sup>th</sup> October and would improve thereafter.

- **Westcentral Arabian Sea:**

**Phenomenal** sea condition is prevailing and will continue till night of 23<sup>rd</sup> October. It would improve gradually thereafter becoming **high to very rough** by early hours of 24<sup>th</sup> October. Thereafter, it would improve gradually.

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

Fishermen are advised not to venture into

- ❖ **Southwest Arabian Sea** till 24<sup>th</sup> October.
- ❖ **Westcentral Arabian Sea** till night of 24<sup>th</sup> October.

### **(B) Deep Depression over Westcentral Bay of Bengal**

The Deep Depression over Westcentral Bay of Bengal continued to move nearly northwards with a speed of 05 kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, the 22<sup>nd</sup> October over Westcentral Bay of Bengal, near latitude 16.4°N and longitude 86.4°E, about 430

km south of Paradip (Odisha), 590 km south-southwest of Digha (West Bengal), and 740 km south-southwest of Khepupara (Bangladesh).

It is likely to intensify into a **Cyclonic Storm** during next 24 hours. It is very likely to continue to move nearly northwards till morning of 23<sup>rd</sup> October, then north-northeastwards and cross Bangladesh coast between Khepupara and Chittagong around 25<sup>th</sup> October evening as a **Deep Depression**.

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

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
22.10.23/2330	16.4/86.4	50-60 gusting to 70	Deep Depression
23.10.23/0530	17.0/86.5	55-65 gusting to 75	Deep Depression
23.10.23/1130	17.7/86.6	55-65 gusting to 75	Deep Depression
23.10.23/1730	18.4/86.9	60-70 gusting to 80	Cyclonic Storm
23.10.23/2330	19.0/87.3	60-70 gusting to 80	Cyclonic Storm
24.10.23/1130	20.0/88.2	60-70 gusting to 80	Cyclonic Storm
24.10.23/2330	20.8/89.3	55-65 gusting to 75	Deep Depression
25.10.23/1130	21.5/90.1	50-60 gusting to 70	Deep Depression
25.10.23/2330	22.4/90.8	40-50 gusting to 60	Depression
26.10.23/1130	23.3/91.3	25-35 gusting to 45	Well Marked Low

**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):**

- **Westcentral Bay of Bengal:** Squally wind speed reaching **50-60 kmph gusting to 70 kmph** is prevailing and likely to increase becoming **55-65 kmph gusting to 75 kmph** from evening 23<sup>rd</sup> till 24<sup>th</sup> October morning. It is likely to decrease gradually thereafter becoming **squally wind** speed reaching **40-50 kmph gusting 60 kmph** by 24<sup>th</sup> evening.
- **Adjoining eastcentral Bay of Bengal:** Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to prevail till morning of 23<sup>rd</sup> October and becoming **50-60 kmph gusting to 70 kmph** on 24<sup>th</sup> and decrease from 25<sup>th</sup> onwards.
- **North Bay of Bengal:**  
Squally wind speed reaching **40-50 kmph gusting to 60 kmph** prevailing over the region is likely to increase gradually becoming **Gale wind** speed reaching **60-70 kmph gusting to 80 kmph** on 24<sup>th</sup> October.
- **Along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts:**  
Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely from 23<sup>rd</sup> evening to 24<sup>th</sup> along & off Odisha coast. Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to commence along & off West Bengal, Bangladesh and North Myanmar coasts from 24<sup>th</sup> morning. It would gradually increase becoming **55-65 kmph gusting to 75 kmph** along & off

Bangladesh coast, **50-60 kmph gusting to 70 kmph** along & off north Myanmar coast and **45-55 kmph gusting to 65** along & off west Bengal coast on 25<sup>th</sup> October.

**(iii) Sea Condition**

- **Westcentral Bay of Bengal: Rough to very rough sea condition** is prevailing and will continue till 25<sup>th</sup> October. It is likely to improve gradually thereafter.
- **Adjoining eastcentral Bay of Bengal: Moderate to rough sea condition** is prevailing and likely till 24<sup>th</sup> October. It is likely to improve gradually thereafter.
- **North Bay of Bengal:**  
**Rough sea condition** is likely on 23<sup>rd</sup> and becoming **Very rough to High** from 24<sup>th</sup> and very rough on 25<sup>th</sup> October.
- **Along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts: Rough sea condition** is likely on 23<sup>rd</sup> and becoming **rough to very rough** sea condition from 24<sup>th</sup> to 25<sup>th</sup> October.

**(iv) Fishermen Warning (Graphics attached):**

Fishermen are advised not to venture into

- ❖ **Adjoining eastcentral Bay of Bengal** till 23<sup>rd</sup> October.
- ❖ **Westcentral Bay of Bengal** till 24<sup>th</sup> October.
- ❖ **North Bay of Bengal and along & off Odisha, West Bengal, Bangladesh and north Myanmar coasts** during 23<sup>rd</sup> to 25<sup>th</sup> October.

**Both the systems are under continuous surveillance and the next bulletin will be issued at 0530 hours IST of 23<sup>rd</sup> October, 2023.**

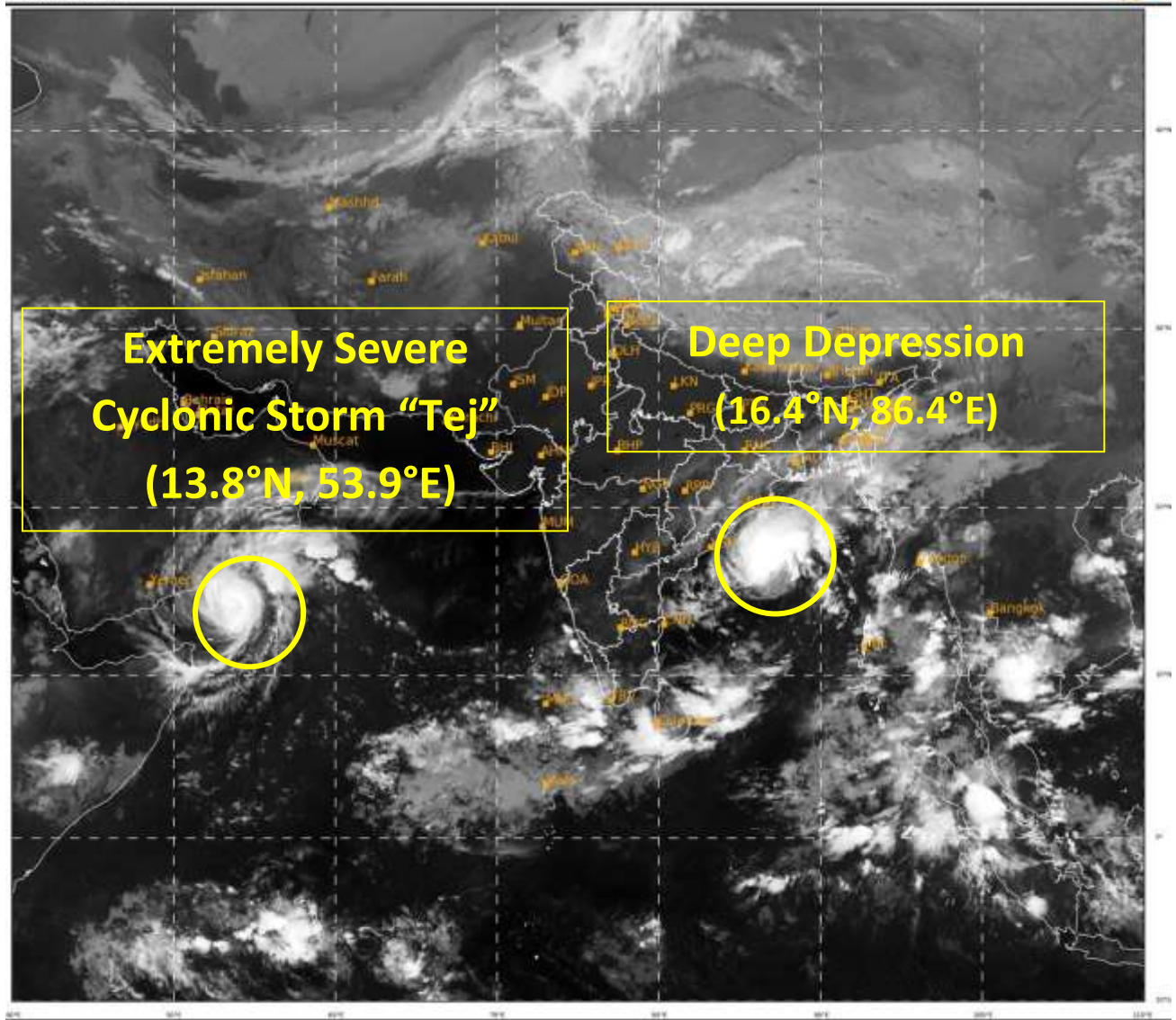
**(Krishna Mishra)**

**Scientist C, Cyclone Warning Division, New Delhi**

*Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/CWC Ahmedabad/CWC Bhubaneswar/CWC Vishakhapatnam/CWC Thiruvananthapuram/MC Goa*

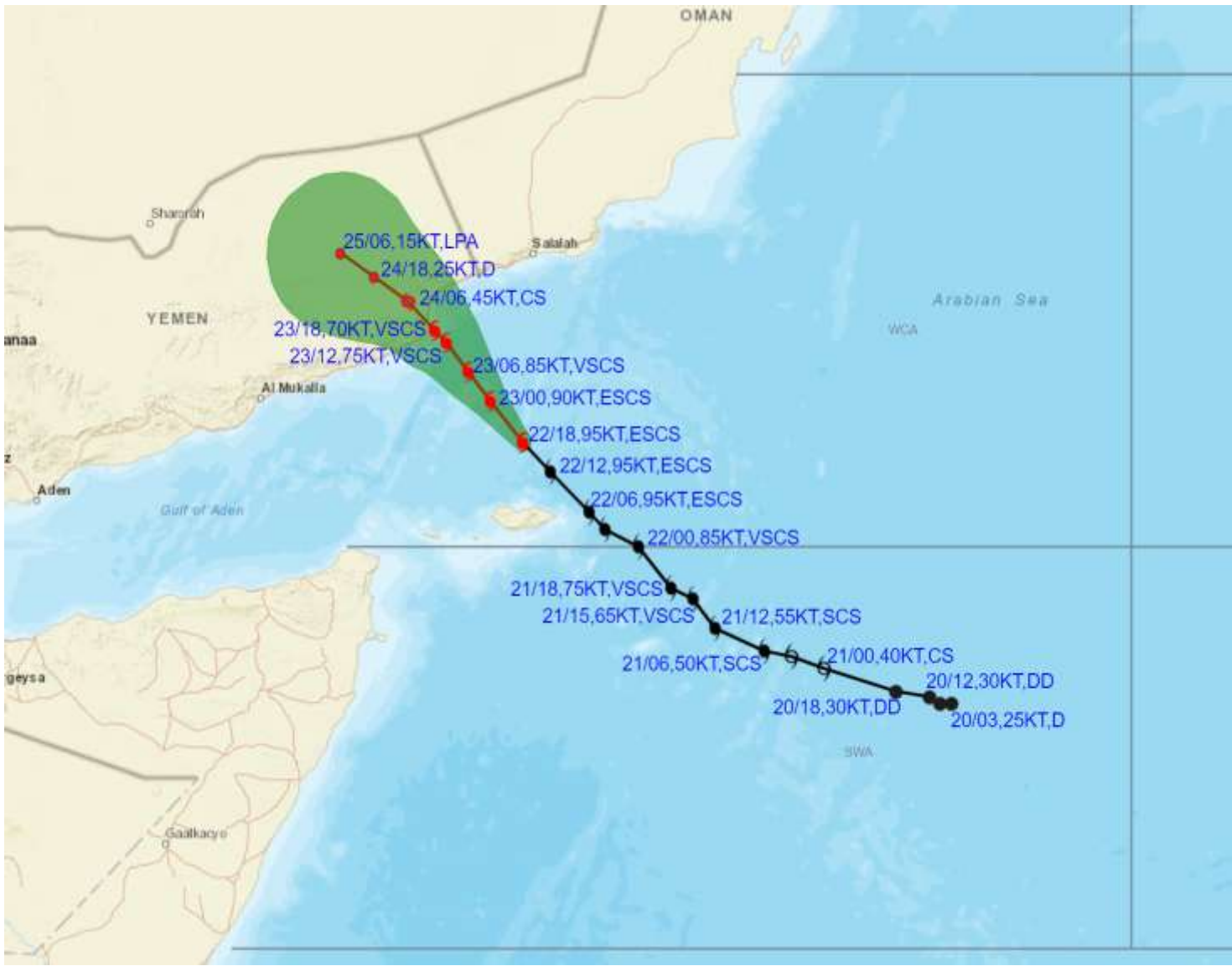
**Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%**

**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 UNCERTAINTY OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 22<sup>ND</sup> 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 ( $\geq$  120 KT)

● LESS THAN 34 KT

⊙ 34-47 KT

⊙  $\geq$  48 KT

— OBSERVED TRACK

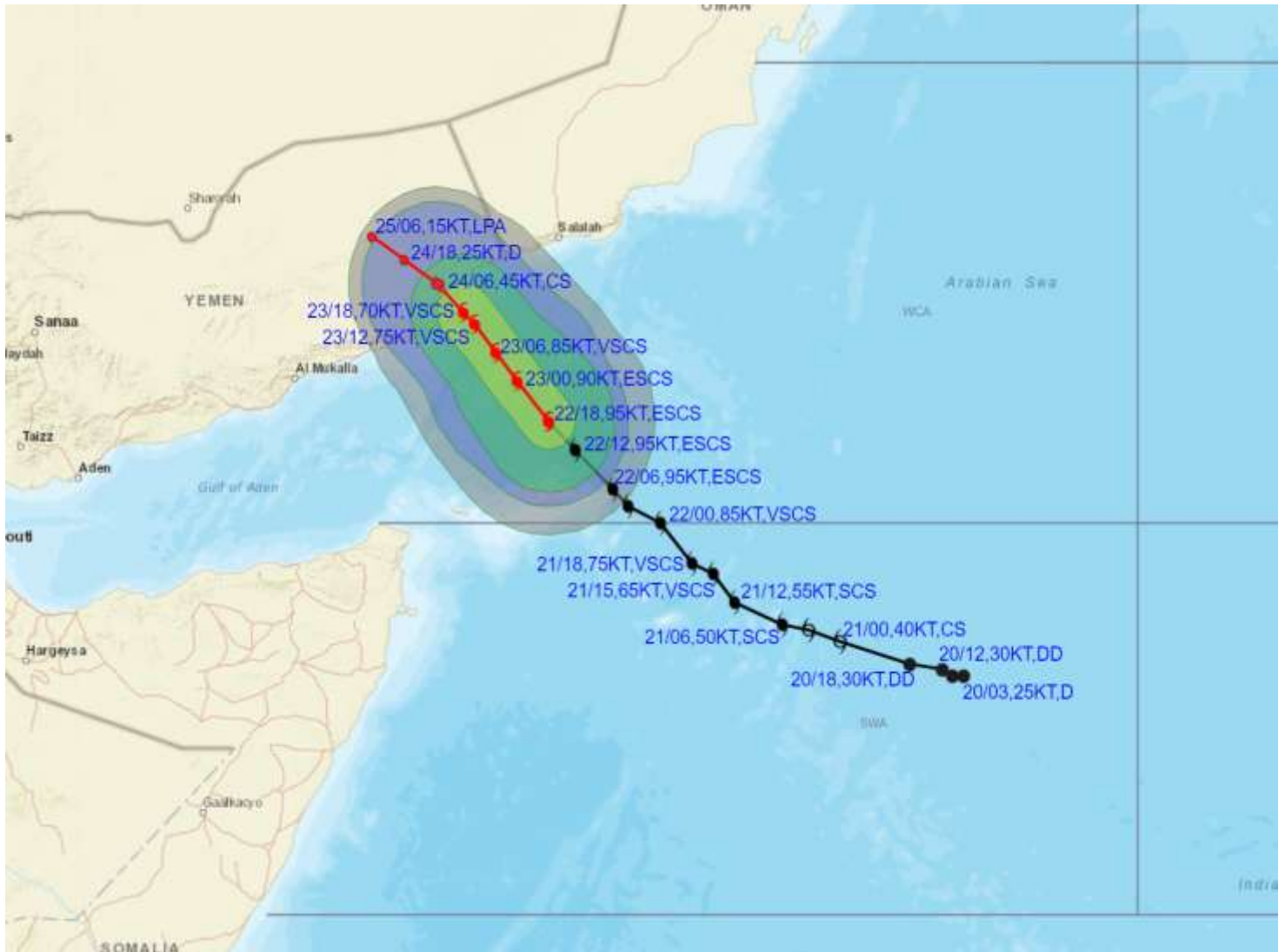
— FORECAST TRACK

▲ CONE OF UNCERTAINTY

Forecast	DISTANCE(KM) AND DIRECTION FROM STATIONS		
Date and Time	SOCOTRA	SALALAH	AL-GHAIDAH
23.10.23/1800	390, NNW	250, SW	50, SSE
24.10.23/1800	530, NNW	310, W	110, WNW



**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF EXTREMELY SEVERE CYCLONIC STORM "TEJ" OVER WESTCENTRAL ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 22<sup>ND</sup> OCTOBER 2023.**



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
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 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)

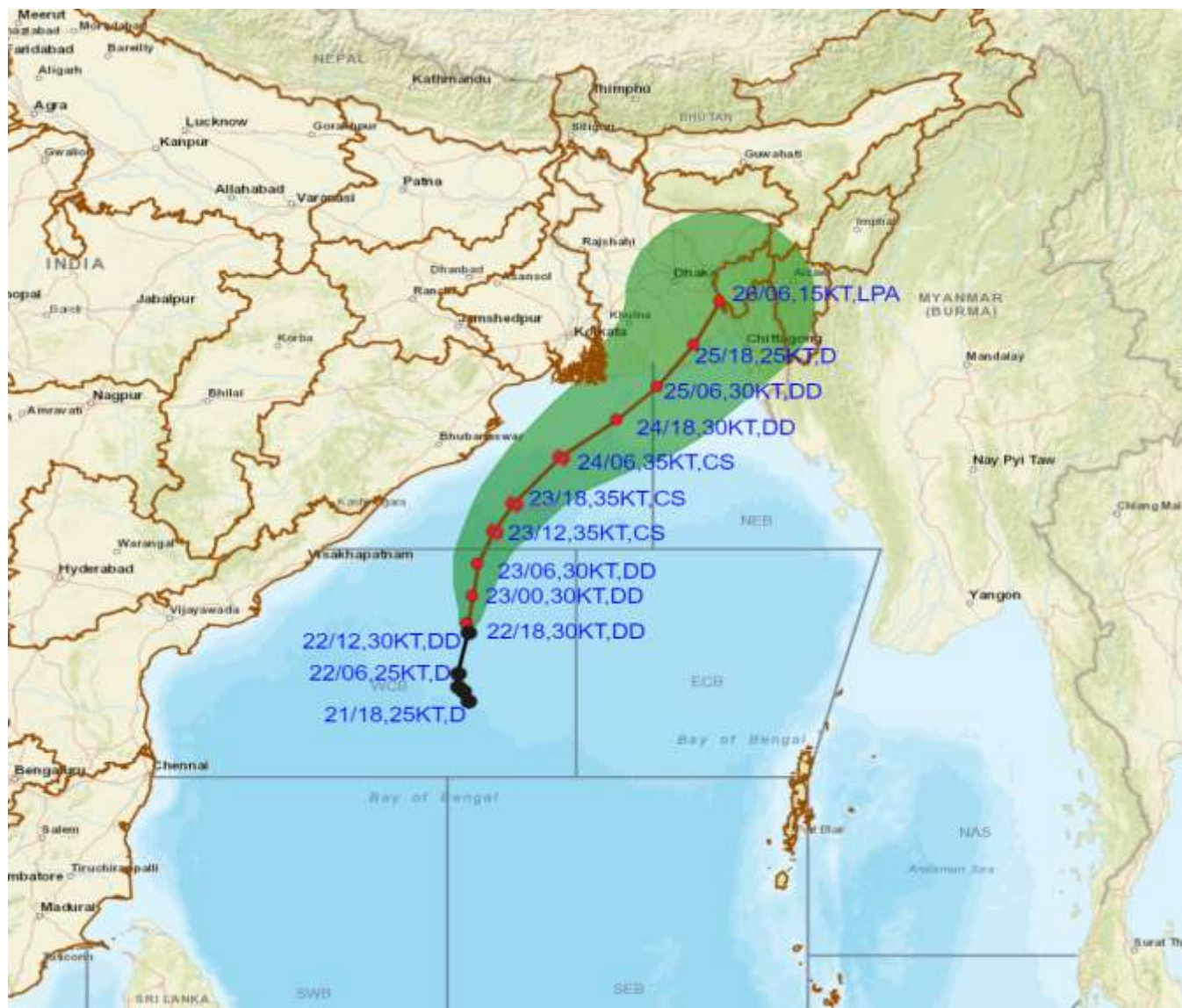
● LESS THAN 34 KT  
 ⚡ 34-47 KT  
 ⚡ ≥ 48 KT  
 — OBSERVED TRACK  
 — FORECAST TRACK  
 ▲ CONE OF UNCERTAINTY  
 AREA OF MAXIMUM SUSTAINED WIND SPEED:  
 ■ 28-33 KT (52-61 KMPH)  
 ■ 34-49 KT (62-91 KMPH)  
 ■ 50-63 KT (92-117 KMPH)  
 ■ ≥ 64 KT (≥118 KMPH)

**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



**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 22<sup>ND</sup> 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 ( $\geq$  120 KT)

● LESS THAN 34 KT

○ 34-47 KT

○  $\geq$  48 KT

■ OBSERVED TRACK

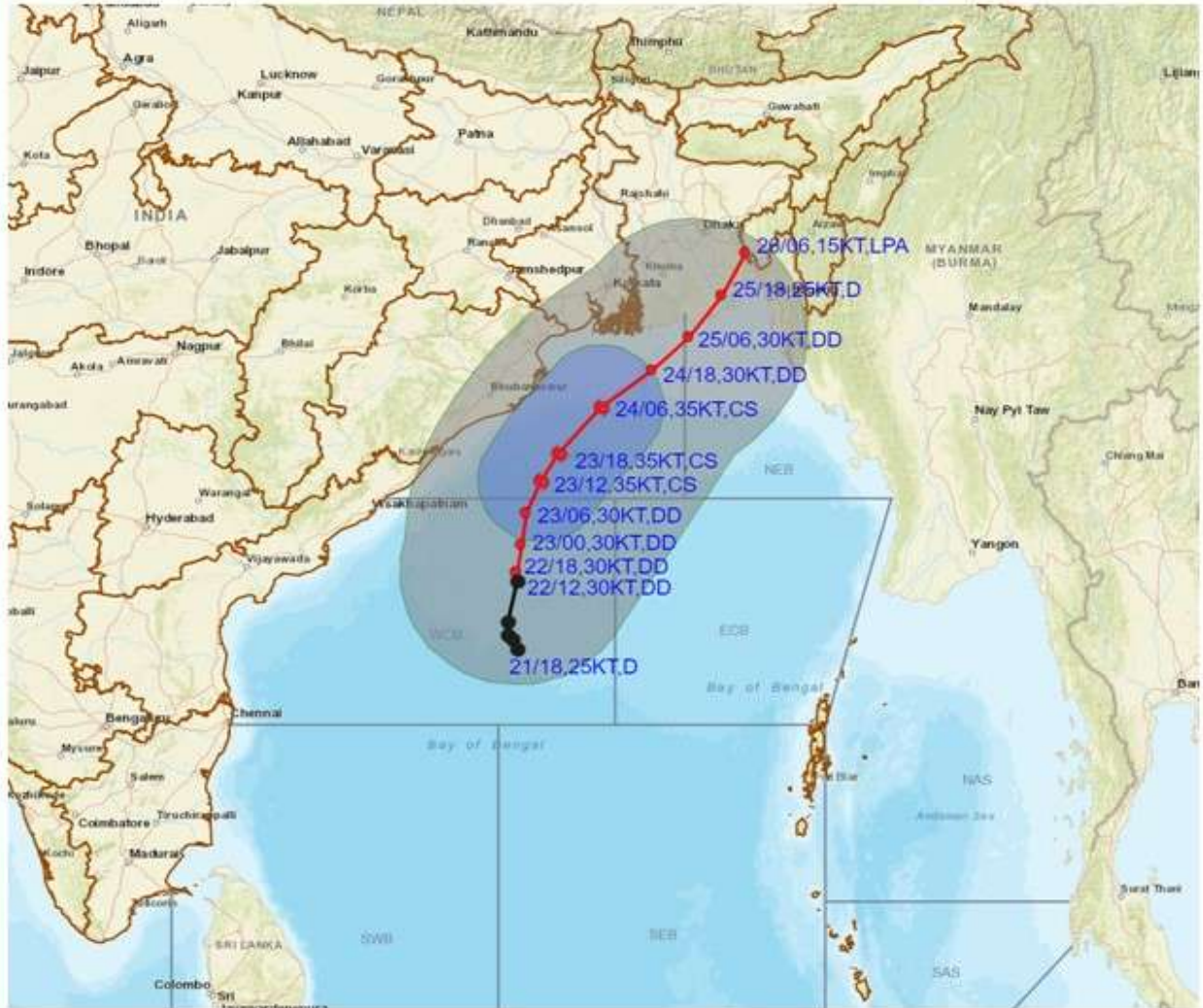
■ FORECAST TRACK

▲ CONE OF UNCERTAINTY





**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER WESTCENTRAL BAY OF BENGAL BASED ON 1800 UTC (2330 IST) OF 22<sup>ND</sup> 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)

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SCS: SEVERE CYCLONIC STORM (48-63KT)

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

ECS: 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

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 KT (≥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



## Fishermen warning graphics

**Day 1: 22.10.2023/17:30AM to 23.10.2023/05:30AM**



**Day 2: 23.10.2023/05:30AM to 24.10.2023/05:30AM**



**Day 3: 24.10.2023/05:30AM to 25.10.2023/05:30AM**



**Day 4: 25.10.2023/05:30AM to 26.10.2023/05:30AM**



**Day 5: 26.10.2023/05:30AM to 27.10.2023/05:30AM**



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 with speed 50-60 kmph gusting to 70 kmph

CS with Gale wind speed 60-90 kmph gusting to 110 kmph

SCS with Gale wind speed 90-110 kmph gusting to 120 kmph

VSCS with Gale wind speed 110-160 kmph gusting to 175 kmph

ESCS with Gale wind speed 160-220 kmph gusting to 240 kmph

**Fishermen are advised not to venture into the marked areas.**

## WEATHER WARNING GRAPHICS

