



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

**BULLETIN NO.37: (ARB/01/2021)**

**TIME OF ISSUE: 0100 HOURS IST**

**DATED: 19.05.2021**

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**Subject: Deep Depression “Tauktae” (pronounced as Tau’Te) over Gujarat region**

The **Deep Depression “Tauktae” (pronounced as Tau’Te)** over Gujarat region moved north-northeastwards with a speed of about 20 kmph during past 06 hours and lay centred at 2330 hours IST of the 18<sup>th</sup> May, 2021 near latitude 24.0°N and longitude 73.0°E, about 110 km north-northeast of Ahmedabad.

It is very likely to move north-northeastwards and weaken gradually into a Depression during next 06 hours. The remnant of the system is very likely to move further northeastwards across Rajasthan to west Uttar Pradesh during 19<sup>th</sup> & 20<sup>th</sup> May.

Forecast track and intensity are given in the following table:

<b>Date/Time(IST)</b>	<b>Position (Lat. °N/ long. °E)</b>	<b>Maximum sustained surface wind speed (Kmph)</b>	<b>Category of cyclonic disturbance</b>
18.05.21/2330	24.0/73.0	50-60 gusting to 70	Deep Depression
19.05.21/0530	25.0/73.9	40-50 gusting to 60	Depression

**Warnings:**

**(i) Rainfall:**

- **Gujarat:** Light to moderate rainfall at most places with heavy to very heavy falls isolated places very likely over Gujarat region and Saurashtra during next 12 hours.

- **Rajasthan:** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places very likely over south Rajasthan on 18<sup>th</sup> & heavy falls at isolated places over north Rajasthan on 19<sup>th</sup> May.

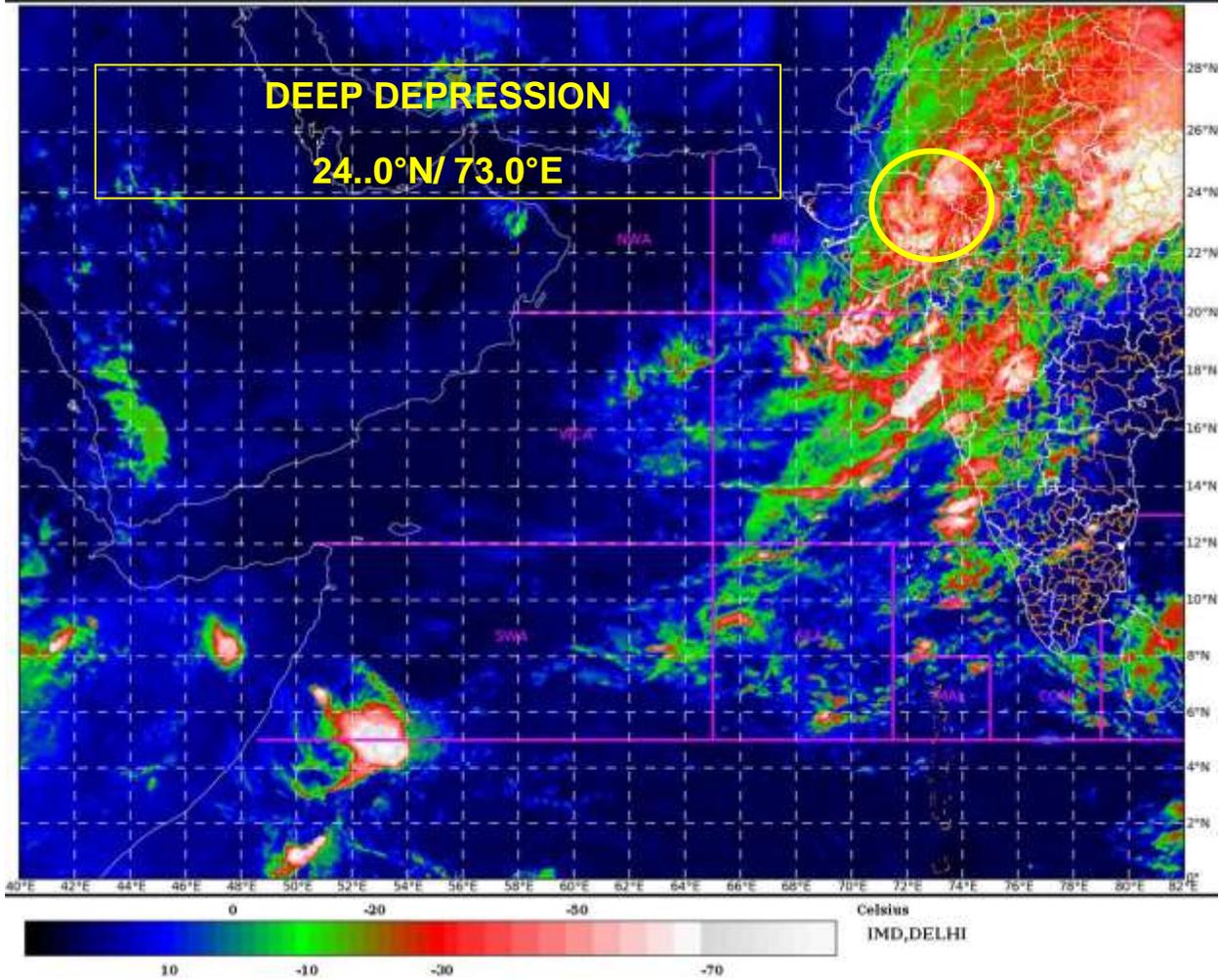
**(ii) Wind warning**

- Gale winds speed reaching 50-60 kmph gusting to 70 kmph likely to prevail over Ahmedabad Surendranagar, Rajkot, Anand, squally winds speed reaching 40-50 kmph gusting to 60 kmph over Bhavnagar, Botad & Kheda during next 06 hours and gradually decrease thereafter.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail along and off Dadra, Nagar Haveli, Daman, Valsad, Navsari, Surat, districts during next 06 hours and gradually decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Rajasthan from the evening of 18<sup>th</sup> till 19<sup>th</sup> early morning.

The next bulletin will be issued at 0830 hrs IST of 19<sup>th</sup> May, 2021.

**(Shibin Balakrishnan)**  
**Scientist-C, RSMC, New Delhi**

Copy to: MC Jaipur /ACWC Mumbai /CWC Ahmedabad.





# OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION REMNANTS OF "TAUKTAE" OVER GUJARAT REGION BASED ON 1800 UTC OF 18<sup>TH</sup> MAY, 2021

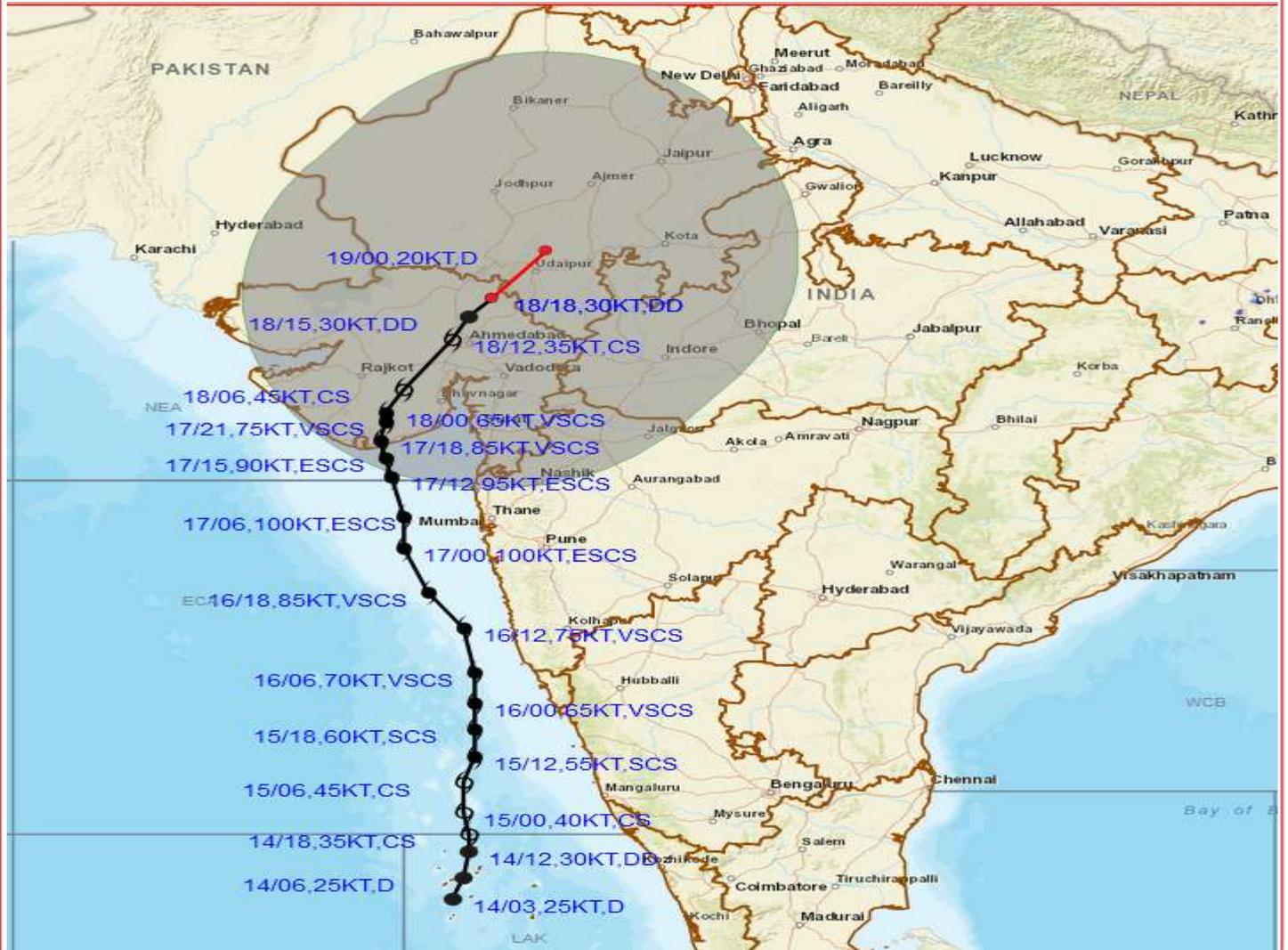


**DATE/TIME IN UTC**  
**IST=UTC + 0530**  
**L: LOW PRESSURE AREA**  
**WML: WELL MARKED LOW PRESSURE AREA**  
**D: DEPRESSION (17-27 KT)**  
**DD: DEEP DEPRESSION (28-33 KT)**  
**CS: CYCLONIC STORM (34-47 KT)**  
**SCS: SEVERE CYCLONIC STORM (48-63KT)**  
**VSCS: VERY SEVERE CYCLONIC STORM (64-89 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 QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION REMNANTS OF "TAUKTAE" OVER GUJARAT REGION BASED ON 1800 UTC OF 18TH MAY, 2021



### 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

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

Day-1 Cyclone Tauktae Warning for Gujarat State Dated 18-05-2021

मौसम विज्ञान केंद्र, अहमदाबाद  
भारत मौसम विभाग



LEGENDS :-

- NO WARNING (NO ACTION)
- WATCH (BE UPDATED)
- ALERT (BE PREPARED)
- WARNING (TAKE ACTION)

- ☁ Heavy Rain (64.5mm to 115.5mm)
- ☁ Heavy to Very Heavy Rain (115.5mm to 204.4mm)
- ☁ Extremely Heavy Falls (204.5mm or more)

**HEAVY RAINFALL WARNING FOR GUJARAT STATE FROM 0830 HOURS IST OF 18<sup>TH</sup> TO 0830 HOURS IST OF 19<sup>TH</sup> MAY**