

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

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#### FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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# Sub: Cyclonic Storm 'JAWAD' over westcentral Bay of Bengal: Cyclone Warning for north Andhra Pradesh and Odisha coasts – Orange Message.

The **Cyclonic Storm 'JAWAD'** (Pronounced as JOWAD) over westcentral Bay of Bengal moved slightly northwestwards with a speed of 3 kmph during past 06 hours and lay centered at 1430 hrs IST of today, the 04<sup>th</sup> December 2021, over westcentral Bay of Bengal near Lat. 16.5°N and Long. 84.7°E, about 200 km east-southeast of Vishakhapatnam (Andhra Pradesh), 310 km south-southwest of Gopalpur (Odisha), 380 km south-southwest of Puri (Odisha) and 470 km south-southwest of Paradip (Odisha).

It is likely **to** move nearly northwards and **weaken into a Deep Depression** during next 06 hours and then move north-northeastwards along Odisha coast and reach near Puri around 5<sup>th</sup> December noon. Subsequently, **it is likely to weaken further** and continue to move north-northeastwards along Odisha coast towards West Bengal coast.

Date/Time(IST)	Position (Lat. <sup>0</sup> N/ long. <sup>0</sup> E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
04.12.21/1430	16.5/84.7	65-75 gusting to 85	Cyclonic Storm
04.12.21/1730	17.1/84.7	60-70 gusting to 80	Cyclonic Storm
04.12.21/2330	17.7/85.0	55-65 gusting to 75	Deep Depression
05.12.21/0530	18.5/85.4	50-60 gusting to 60	Deep Depression
05.12.21/1130	19.4/86.0	50-60 gusting to 70	Deep Depression
05.12.21/2330	20.4/87.1	40-50 gusting to 60	Depression

Forecast track and intensity are given in the following table:

# Warnings:

# (i) Rainfall (warning graphics enclosed)

4<sup>th</sup> Dec.: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places very likely over coastal Odisha, north Coastal Andhra Pradesh, and heavy rainfall at isolated places over interior Odisha and coastal districts of Gangetic West Bengal.

5<sup>th</sup> Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal & north Odisha and heavy rainfall at isolated places over south Assam & Meghalaya, Mizoram and Tripura.

**6<sup>th</sup> Dec.:** Light to moderate rainfall at many places with **heavy rainfall at isolated places** likely over Assam & Meghalaya, Mizoram and Tripura.

### (ii) Wind warning

- Gale wind, speed reaching 65-75 kmph gusting to 85 kmph, prevails over westcentral Bay of Bengal. It would gradually decrease becoming 60-70 kmph gusting to 80 kmph over northwest and adjoining westcentral Bay of Bengal by mid-night of today, the 4<sup>th</sup> December. It would decrease further becoming 50-60 gusting to 70 kmph from the morning of 5<sup>th</sup> December over northwest Bay of Bengal.
- Squally winds speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along & off North Andhra Pradesh–Odisha coasts during next 06 hours. It will gradually increase becoming 55-65 gusting to 75 kmph till morning of 5<sup>th</sup> and squally winds speed reaching 50-60 kmph gusting to 70 kmph over northwest Bay of Bengal off Odisha coast from 5<sup>th</sup> morning till afternoon. It would decrease gradually thereafter.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph also likely to commence along & off West Bengal coast till the evening of 5<sup>th</sup> December and gradually decrease thereafter.

### (iii) Sea condition

- High Sea conditions likely to prevail over westcentral & adjoining northwest Bay of Bengal during next 06 hours. It is likely to be Very Rough over northwest & adjoining west-central Bay of Bengal from midnight of 04<sup>th</sup> till evening of 5<sup>th</sup> December and improve thereafter.
- Rough to Very Rough Sea conditions will prevail along & off North Andhra Pradesh Odisha & West Bengal coasts till 5<sup>th</sup> December evening.

### (iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into westcentral & northwest Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts on 04<sup>th</sup> & 05<sup>th</sup> December 2021.

### (v) Advisory to along & off shore Installations

The off-shore & alongshore operations along north Andhra Pradesh, Odisha & West Bengal coasts are advised to be suspended on 04<sup>th</sup> December 2021 to ensure safety of life & property.

# (vi) EXPECTED IMPACT & ACTION SUGGESTED (For Srikakulam district of north Coastal Andhra Pradesh; Gajapati, Ganjam, Puri, Nayagarh, Khurda, Cuttack, Jagatsinghpur & Kendrapara districts of Odisha)

### A. Impact Expected

Damage to thatched houses/ huts and possible of damage to vulnerable structure.

- ➢Breaking of tree branches, uprooting of small trees.
- >Localized Flooding, water logging and inundation in low lying areas due to Heavy rain.
- >Occasional reduction in visibility due to heavy rainfall.
- >Disruption of traffic in roads of major cities due to water logging leading to delayed travel.
- Minor damage to kutcha roads.
- Localized Landslides/Mudslides

Damage to horticulture and standing crops in some areas due to inundation. Damage to banana, Papaya & Moring (Drumstick) trees due to strong winds.

#### **B.** Action Suggested

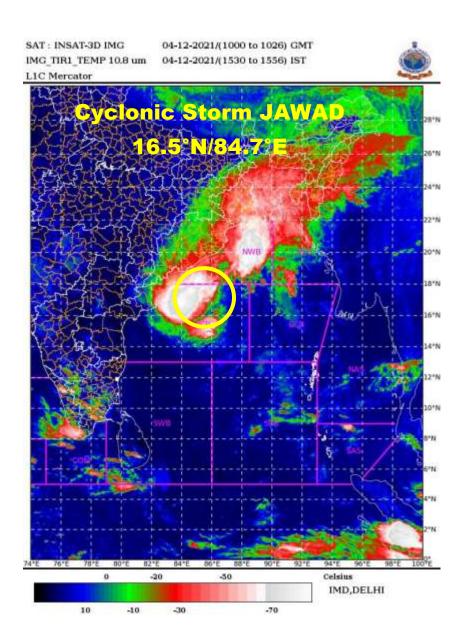
>Total suspension of fishing operations.

- > 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.

Next Bulletin will be issued at 2030 hrs IST of today, the 04<sup>th</sup> December 2021.

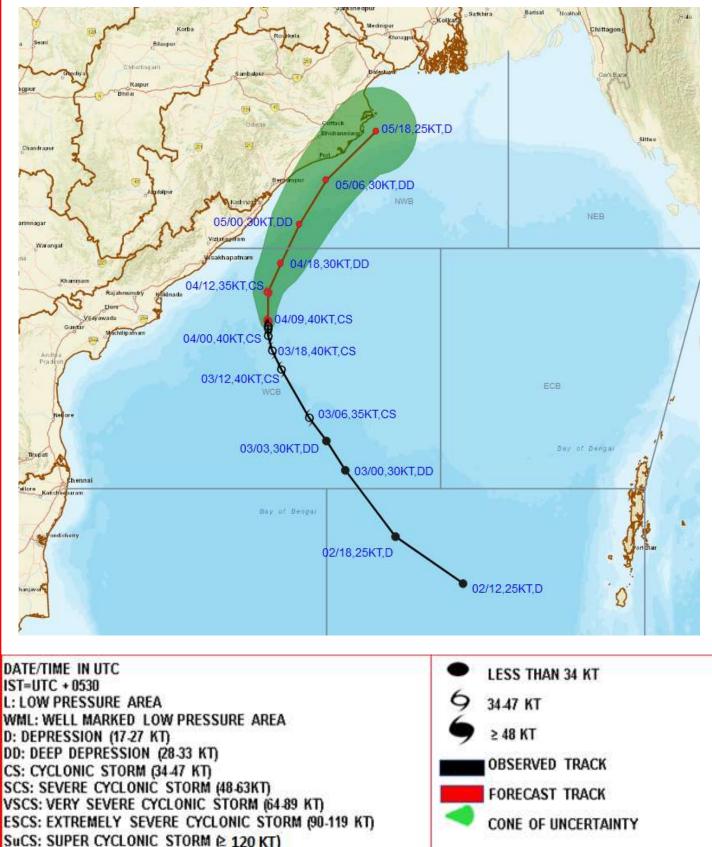
#### (Sunitha Devi. S) Scientist-F, RSMC, New Delhi

Copy to: ACWC Kolkata/ CWC Vishakhapatnam/CWC Bhubaneswar/RMC Guwahati LEGEND: Heavy Rainfall: 64.5 to 115.5mm, Very Heavy Rainfall: 115.6 to 204.4mm Most Places: more than 76% of total stations, Isolated Places: Less than 25% of total stations

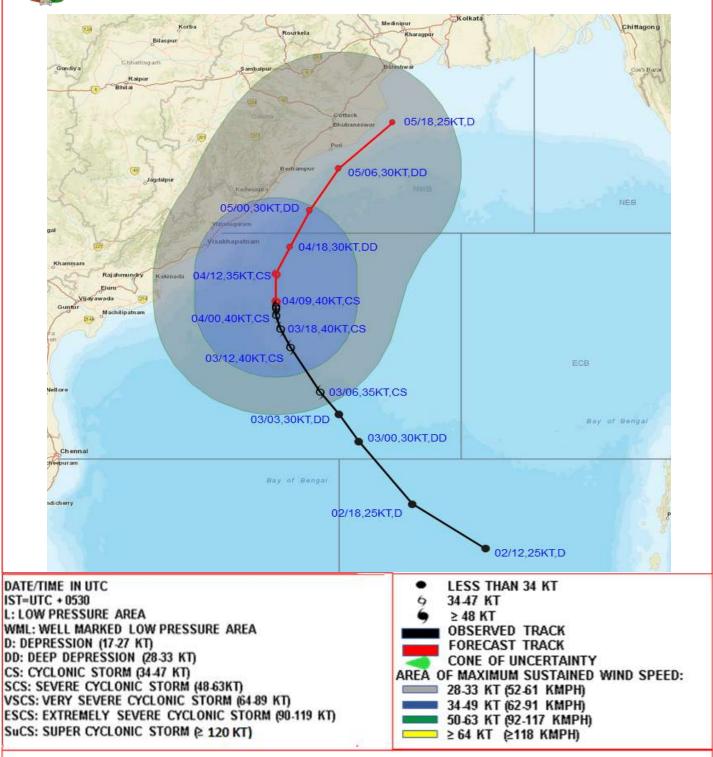




OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 4<sup>th</sup> DECEMBER, 2021

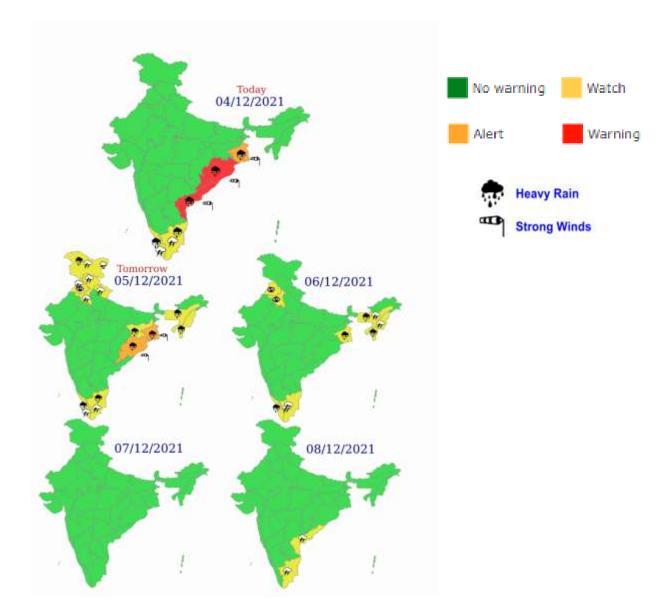


OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0900 UTC OF 4<sup>th</sup> DECEMBER, 2021



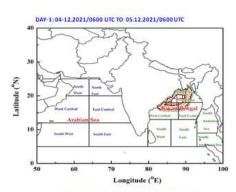
IMPACT OVER THE SEA				
MSW (knot/kmph)	Impact	Action		
28-33 (52-61)	Very rough seas	Total suspension of fishing operations		
34-49 (62-91)	High to very high seas	Total suspension of fishing operations		
50-63 (92-117)	Very high seas	Total suspension of fishing operations		
≥ 64 (≥118)	Phenomenal	Total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

# Sub-division wise heavy rainfall warning for next 5 days

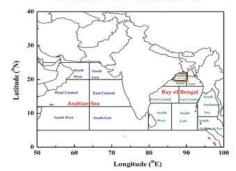


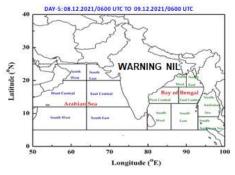
# **Fishermen Warning Graphics**

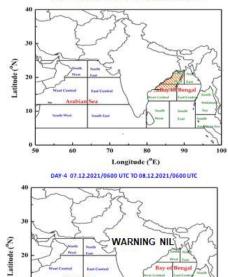
#### INDIA METEOROLOGICAL DEPARTMENT FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA



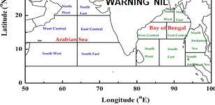
DAY-3-:06.12.2021/0600 UTC TO 07.12.2021/0600 UTC







DAY-2:05.12.2021/0600 UTC TO 06.12.2021'/0600 UTC



AREA UNDER FISHERMEN WARNING

