

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

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FROM: INDIA METEOROLOGICAL DEPARTMENT

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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 continued to move nearly northwards with a speed of 4 kmph during past 06 hours and lay centered at 1130 hrs IST of today, the 04<sup>th</sup> December 2021, over westcentral Bay of Bengal near Lat. 16.4°N and Long. 84.8°E, about 210 km east-southeast of Vishakhapatnam (Andhra Pradesh), 320 km south of Gopalpur (Odisha), 390 km south-southwest of Puri (Odisha) and 470 km south-southwest of Paradip (Odisha).

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

Date/Time(IST)	Position	Maximum sustained surface	Category of cyclonic
	(Lat. <sup>⁰</sup> N/ long. <sup>⁰</sup> E)	wind speed (Kmph)	disturbance
04.12.21/1130	16.4/84.8	70-80 gusting to 90	Cyclonic Storm
04.12.21/1730	17.0/84.8	60-70 gusting to 80	Cyclonic Storm
04.12.21/2330	17.8/85.0	55-65 gusting to 75	Deep Depression
05.12.21/0530	18.5/85.4	55-65 gusting to 75	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 & extremely heavy falls at isolated places very likely over coastal Odisha; heavy to very heavy rainfall at isolated places over north Coastal Andhra Pradesh, 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 70-80 kmph gusting to 90 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 12 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 from 5<sup>th</sup> morning till afternoon. It would decrease thereafter gradually.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast today evening 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 12 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

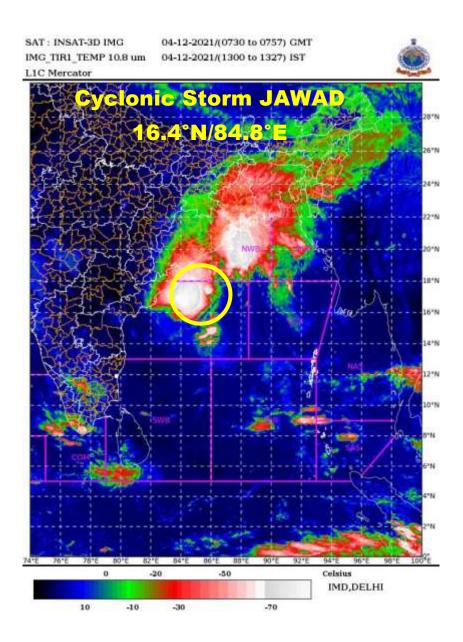
>Total suspension of fishing operations.

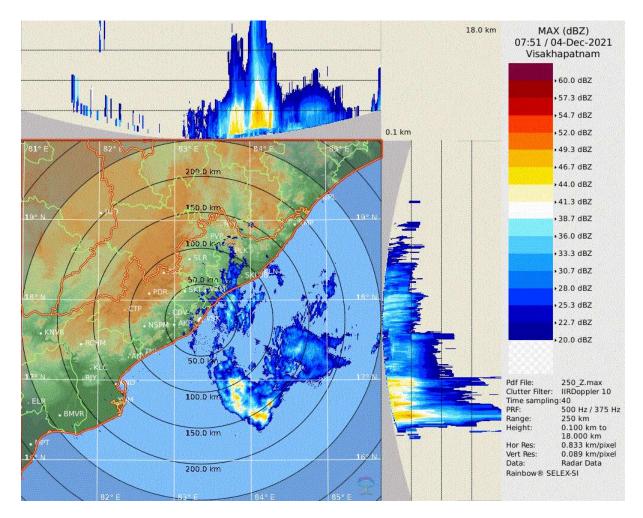
- Check for traffic congestion on your route before leaving for your destination.
- >Follow any traffic advisories that are issued in this regard.
- >Avoid going to areas that face the water logging problems often.
- > Avoid staying in vulnerable structure.

Next Bulletin will be issued at 1730 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





Doppler Weather RADAR imagery Vishakhapatnam

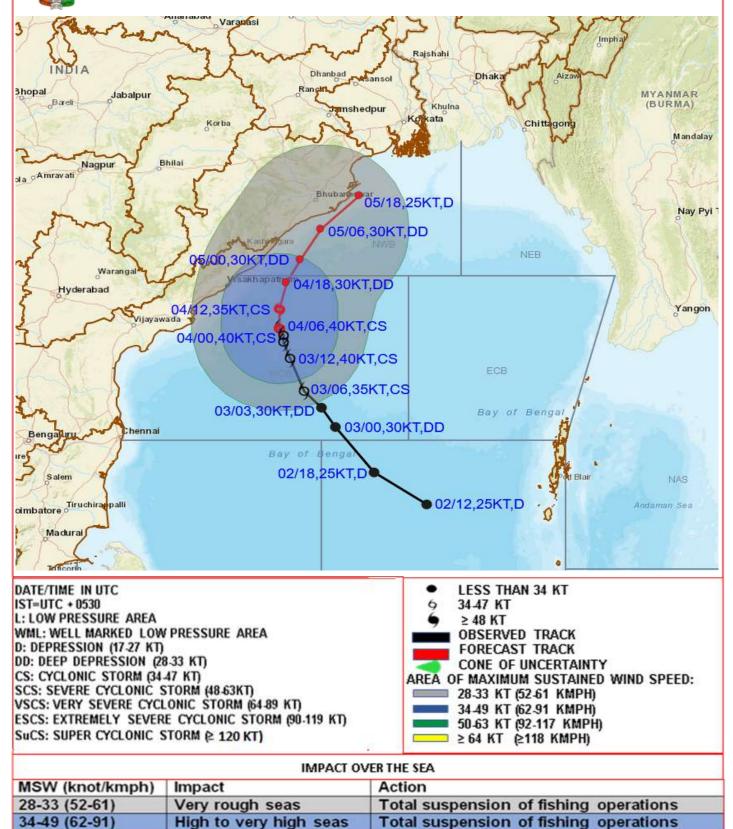
OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 4<sup>th</sup> DECEMBER, 2021 Rajshahi Disanbad Dhak anso Bhopal MYANMAR Jabalpur Barel (BURMA) Khulna mshedpur lore Kokata Korba Chittago Mandalay Nagpur Bhilai Akcia Amravati 05/18,25KT,D shad Nay Pyl Taw 05/06,30KT,DD 05/00.30KT.DD Warang rsakhapatro 4/18,30KT,DD Hyderabad 04/2,35KT,CS Yangon 04/06,40KT,CS 04/00,40KT,CS 0 03/12,40KT.CS 03/06,35KT,CS 03/03.30KT.DD Bay of Benga 03/00,30KT,DD Chennal Bengalury Bay of Beng Mysure 02/18.25KT.D Coimbatore 02/12,25KT,D Andaman Sea Madura DATE/TIME IN UTC LESS THAN 34 KT IST=UTC + 0530 L: LOW PRESSURE AREA 34.47 KT WML: WELL MARKED LOW PRESSURE AREA ≥ 48 KT D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) OBSERVED TRACK

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)

FORECAST TRACK

CONE OF UNCERTAINTY

OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'JAWAD' OVER WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 4<sup>th</sup> DECEMBER, 2021



Total suspension of fishing operations

Total suspension of fishing operations

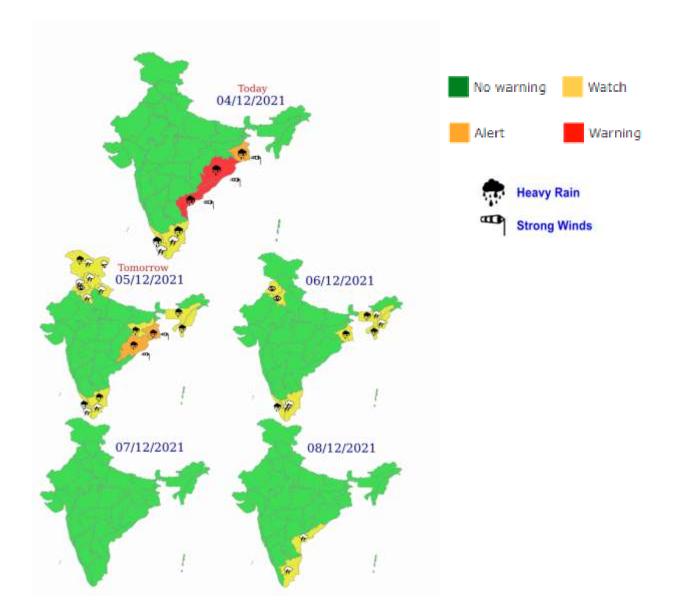
Very high seas

Phenomenal

50-63 (92-117)

 $\geq 64 (\geq 118)$ 

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



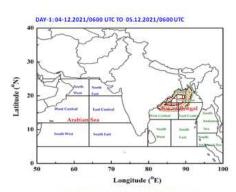
# **Fishermen Warning Graphics**

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

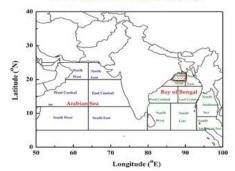
10

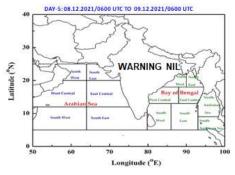
0 L 50

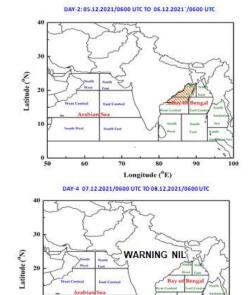
60



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







AREA UNDER FISHERMEN WARNING

70

80

Longitude (°E)

90

