

India Meteorological Department Earth System Science Organisation (Ministry of Earth Sciences)

BULLETIN NO.: 27 (BOB/04/2019)

DATED: 08.11.2019

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220) TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23092398/23093750) CONTROL ROOM NDMA (FAX.NO. 26701729) JS NDMA (FAX.NO. 26701864) CABINET SECRETARIAT (FAX.NO.23012284, 23018638) PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745) SECRETARY, MOES, (FAX NO. 24629777) H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147) **DIRECTOR GENERAL, DOORDARSHAN (23385843)** DIRECTOR GENERAL, AIR (23421101, 23421105, 23421219) PIB MOES (FAX NO. 23389042) UNI (FAX NO. 23355841) D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260) DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503) CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176) ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0489-6263180) ADMINISTRATOR, UNION TERRITORY OF DAMAN & DIU (0260-2230775) ADMINISTRATOR, UNION TERRITORY OF DADRA NAGAR HAVELI (0260-2230775) CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913) CHIEF SECRETARY, TAMILNADU (FAX NO.044-25672304) CHIEF SECRETARY, GOA (FAX NO. 0832-2415201) CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594) CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305) CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660) CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328) CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029) CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192- 232656)

TIME OF ISSUE: 1400 HOURS IST

Sub: Very Severe Cyclonic Storm 'Bulbul' (Pronounced as Bul bul) over westcentral and adjoining eastcentral Bay of Bengal: CYCLONE WARNING FOR WEST BENGAL COAST: ORANGE MESSAGE

BULLETIN NO. : 27 (BOB/04/2019)

The Very Severe Cyclonic Storm '**Bulbul**' (**Pronounced as Bul bul**) over westcentral & adjoining eastcentral Bay of Bengal moved northwards with a speed of 13 kmph during past 06 hours, and lay centred at 1130 hrs IST of today, the 8th November 2019, over westcentral & adjoining eastcentral Bay of Bengal, near Lat.17.6°N and Long. 87.6°E about 310 km south-southeast of Paradip (Odisha), 450 km south-southwest of Sagar Islands (West Bengal) and 550 km south-southwest of Khepupara (Bangladesh) . It is very likely to intensify further till early morning of 9th November. It is very likely to move nearly northwards till 9th November morning. Thereafter, it is very likely to re-curve northeastwards and cross West Bengal - Bangladesh Coasts between Sagar Islands (West Bengal) and Khepupara (Bangladesh), across Sunderban delta around midnight of 9th November as a Severe Cyclonic Storm with maximum sustained wind speed of 110-120 Kmph gusting to 135 Kmph.

Forecast track and intensity are given in the following table:

Date/Time (IST)			Maximum sustained	Category of cyclonic
	Lat. (⁰ N) Long. (⁰ E)		surface	disturbance
			wind speed (kmph)	
08.11.19/1130	17.6	87.6	130-140 gusting to 155	Very Severe Cyclonic Storm
08.11.19/1730	18.7	87.6	140-150 gusting to 165	Very Severe Cyclonic Storm
08.11.19/2330	19.4	87.6	150-160 gusting to 175	Very Severe Cyclonic Storm
09.11.19/0530	20.1	87.8	150-160 gusting to 175	Very Severe Cyclonic Storm
09.11.19/1130	20.8	88.1	140-150 gusting to 165	Very Severe Cyclonic Storm
09.11.19/2330	22.0	89.2	110-120 gusting to 135	Severe Cyclonic Storm
10.11.19/1130	23.2	90.8	70-80 gusting to 90	Cyclonic Storm
10.11.19/2330	23.9	92.6	40-50 gusting to 60	Depression

Warnings:

(i) Rainfall:

- Odisha:
- Light to moderate rainfall at most places very likely over north coastal districts of Odisha with isolated heavy falls over Puri, Kendrapara, Bhadrak, Balasore and Jagatsinghpur districts on 8th November 2019.
- Light to moderate rainfall at most places very likely over north coastal districts of Odisha with isolated heavy to very heavy falls over Balasore, Bhadrak, Kendrapara and Jagatsinghpur districts and with heavy falls at isolated places over Jajpur district on 9th November 2019.

• West Bengal:

- Light to moderate rainfall at many places with isolated heavy falls very likely over North and South 24 Parganas and east Medinipur districts on 8th November.
- Light to moderate rainfall at most places very likely over coastal districts of West Bengal with heavy to very heavy falls at a few places and extremely heavy falls (≥ 20 cm in 24 hours) at isolated places over North & South 24 Parganas, East Medinipur, and isolated heavy to very heavy rainfall over West Medinipur, Howrah and Hooghly on 9th November 2019.
- Light to moderate rainfall at most places very likely over **coastal districts of West Bengal** with heavy to very heavy falls at a few places over North and South 24 Parganas, Nadiya and heavy falls at isolated places over East Medinipur district on 10th November 2019.

North Eastern States:

 Light to moderate rainfall at many places with isolated heavy falls very likely over Mizoram and Tripura on 9th November and over South Assam& Meghalaya, Tripura, and Mizoram on 10th November.

(ii) Wind warning

- **Bay of Bengal:** Gale wind speed reaching 130-140 kmph gusting to 155 kmph is prevailing over westcentral & adjoining eastcentral Bay of Bengal around the system centre. It is very likely to increase gradually and become 150-160 kmph gusting to 175 kmph by tonight over northwest & adjoining westcentral Bay of Bengal for subsequent 12 hours and decrease gradually thereafter.
- Odisha coast: Strong wind speed reaching 40– 50 kmph gusting to 60 kmph prevails along & off Odisha coast. It is very likely to increase becoming squally wind speed reaching 45-55 kmph gusting to 65 kmph by afternoon of today, the 8th November along & off Kendrapara, Jagatsinghpur, Balasore and Bhadrak districts. Gale wind speed reaching 70-80 kmph gusting to 90 kmph very likely from around noon of 9th November along & off Jagatsinghpur, Kendrapara, Balasore and Bhadrak districts for subsequent 12 hours and decrease thereafter. Puri and

Ganjam districts are likely to experience squally wind speed reaching 40-50 kmph gusting to 60 kmph from afternoon of 8th November for the subsequent 24 hours.

West Bengal coast: Squally wind speed reaching 40 – 50 kmph gusting to 60 kmph likely to commence over West Bengal coast from tonight. It will gradually increase becoming gale wind speed reaching 110-120 kmph gusting to 135 kmph from 09th midnight to 10th forenoon along & off East Medinipur, North & South 24 Parganas. Squally wind speed reaching 40-60 Kmph gusting to 70 Kmph also likely over adjoining districts of West Medinipur, Howrah and Hooghly during the same period.

(iii) Sea condition

- ✓ Sea condition is rough to very rough along & off Odisha and West Bengal coasts and is likely to become high to very high on 9th and 10th November.
- ✓ Sea condition will be rough to very rough over north Bay of Bengal till the evening of today, the 8th November. It will gradually become very high to phenomenal over northwest & adjoining westcentral Bay of Bengal from the evening of today, the 8th November for subsequent 36 hours and very rough to very high over northeast Bay of Bengal from 9th November morning for subsequent 36 hours.
- ✓ Sea condition is phenomenal over westcentral and adjoining eastcentral Bay of Bengal around the system centre. It will be Phenomenal to very high over these areas for subsequent 24 hours.

(iv) Storm Surge

• Storm surge of about 1.0 to 2.0 meter height above Astronomical tide is very likely to inundate low lying areas of South and North 24 Parganas and 0.5-1.0 meter height above Astronomical tide is very likely to inundate low lying areas of east Medinipur during the time of landfall.

(v) Fishermen Warning

- Total suspension of fishing operations over Odisha-West Bengal coasts till forenoon of 10th November.
- Fishermen are advised not to venture into westcentral & adjoining northwest Bay of Bengal during 8th & 9th Nov. 2019 and over north Bay of Bengal during 9th 10th November.
- Fishermen are advised not to venture into northwest Bay of Bengal along & off Odisha West Bengal coasts from 8th to 10th November.

(vi) Damage Expected over coastal districts of north Odisha:

- Damage to thatched houses/ huts. Unattached metal sheets may fly.
- Damage to embankments/ salt pans.
- Partial damage to power and communication lines.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Breaking of tree branches, uprooting of trees. Damage to banana and papaya trees. Large dead limbs blown from trees.
- Major damage to coastal crops

Damage Expected over coastal districts of West Bengal:

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Minor damage to power and communication lines.
- Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- Breaking of tree branches, uprooting of large avenue trees. Moderate damage to banana and papaya trees. Dead limbs blown from trees.

- Major damage to coastal crops.
- Damage to embankments/ salt pans.
- Small boats, country crafts may get detached from moorings.

(vii) Action suggested for coastal districts of north Odisha

- Total suspension of fishing operations from 8th November onwards.
- People in affected areas to remain indoors.
- Movement in motor boats unsafe.
- Beach movement to be restricted.

Action suggested for coastal districts of West Bengal

- Total suspension of fishing operations.
- Coastal hutment dwellers to be moved to safer places. Mobilise evacuation from coastal areas of South and North 24 Parganas. People in affected areas to remain indoors.
- Rail and Road traffic to be regulated.
- Movement in motor boats and small ships unsafe.
- Beach movement to be restricted.

The next bulletin will be issued at 1730 hrs IST of 08th November, 2019.

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Copy to: ACWC Chennai/ ACWC Mumbai/ ACWC Kolkata/ MC Goa/ MC Bengaluru/ CWC Ahmedabad/ Thiruvananthapuram/ CWC Visakhapatnam/ CWC Bhubaneswar/ M.O. Port Blair.



