



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 24th October, 2022
Time of Issue: 1230 hrs IST

Subject: Cyclonic Storm “SITRANG” (pronounced as “Si-Trang”) over Northwest and adjoining central & Bay of Bengal

Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)

Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure II)

Yesterday’s Deep Depression over eastcentral Bay of Bengal had intensified into the **Cyclonic Storm “SITRANG” (pronounced as “Si-Trang”)** over westcentral & adjoining eastcentral Bay of Bengal at 1730 hours IST of yesterday, the 23rd October. It moved nearly north-northeastwards with a speed of 21 kmph during past 06 hours and lay centered at 0830 hours IST of today, the 24th October over northwest and adjoining central Bay of Bengal near latitude 18.3^oN and longitude 88.9^oE, about 380 km south of Sagar Island and 520 km south-southwest of Barisal (Bangladesh). It is very likely to continue to move north-northeastwards and intensify further into a severe cyclonic storm during next 12 hours. Continuing to move north-northeastwards thereafter, it is very likely to cross Bangladesh coast between Tinkona Island and Sandwip close to Barisal around 25th October early morning (**Refer Annexure IV**).

i) Rainfall (warning graphics enclosed)

- **Odisha:** Light to moderate rainfall at many places is likely over north coastal Odisha on 24th with possibility of isolated heavy rainfall over Vadrak and Balasore districts.
- **West Bengal:** Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over coastal districts of West Bengal (South & North Parganas, East Medinipur & adjoining areas of West Medinipur) on 24th October. Light to moderate rainfall at many with isolated **heavy to very heavy rainfall** is likely over coastal districts (South & North Parganas and Nadia) of West Bengal on 25th October.
- **Northeastern States:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places is likely over North Assam, Arunachal Pradesh, Nagaland & Manipur; **heavy to Extremely heavy rainfall** likely over South Assam, Meghalaya, Mizoram, & Tripura on 24th October. Light to moderate rainfall at most places with isolated **heavy to very heavy rainfall** is likely over Arunachal Pradesh, Assam, Meghalaya, Mizoram, & Tripura on 25th and isolated **heavy rainfall** is likely over Arunachal Pradesh, northeast Assam and Nagaland on 26th October.

(ii) Wind warning:

- **24th October:** Gale wind speed reaching 75-85 kmph gusting to 95 kmph prevailing over westcentral & adjoining eastcentral Bay of Bengal and north Bay of Bengal. It would gradually increase becoming 80-90 kmph gusting to 100 kmph over north Bay of Bengal and central Bay of Bengal during next 6 hours. It would further increase gradually becoming 90-100 kmph gusting to 110 kmph over the same region from today, the 24th evening till 25th morning.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing along & off Odisha and West Bengal coasts. It would gradually increase becoming 60-80 kmph gusting to 90 kmph along and off West Bengal coast and 50-60 kmph gusting to 70 kmph along and off north Odisha coast from the evening hours of today. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Mizoram & Tripura.

- **25th October:** Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely over north Bay of Bengal and along & off Bangladesh coast; 70-90 kmph gusting to 100 kmph likely along & off 24 Parganas District and 60-70 kmph gusting to 80 kmph along & off east Medinipur district off West Bengal coast till morning. It would gradually decrease becoming 45-55 kmph gusting to 65 kmph over coastal areas of Bangladesh and adjoining West Bengal coasts after evening.

Squally wind speed reaching 40-50 gusting to 60 kmph is likely along and off Balasore district & 35-45 kmph gusting to 55 kmph along & off remaining north coastal districts of Odisha in the morning.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely over Tripura and 45-55 kmph gusting to 65 kmph is likely over Mizoram, south Assam and adjoining east Meghalaya & Manipur.

(iii) Sea condition

- **24th October: High** Sea conditions are prevailing over westcentral & adjoining eastcentral Bay of Bengal and north Bay of Bengal; **Rough to very rough** Sea conditions are prevailing along & off Odisha-West Bengal-Bangladesh coasts. It would become **high to very high** from 24th evening along & off West Bengal-Bangladesh coasts.
- **25th October: Very high to high** over north Bay of Bengal along & off Bangladesh-West Bengal coasts in the morning and improve gradually from noon.

(iv) Storm Surge Warning

- Tidal wave of about 2.0 m height above astronomical tide is likely to inundate low lying areas of Bangladesh coast near the landfall area around the time of landfall.
- Tidal wave of about 1.0 m height above astronomical tide is likely to inundate low lying areas of West Bengal (North & South 24 Parganas) around the time of landfall.

(v) Fishermen Warning (warning graphics enclosed in Annexure III)

Fishermen are advised not to venture into central Bay of Bengal on 24th, north & adjoining central Bay of Bengal on 24th and 25th October, 2022.

Fishermen are advised not to venture into Sea along and off Odisha, West Bengal & Bangladesh coasts during 24th to 25th October. Fishermen out at sea are advised to return to the coast.

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php & https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_c2fa58_6.National%20Bulletin_20221023_0300.pdf

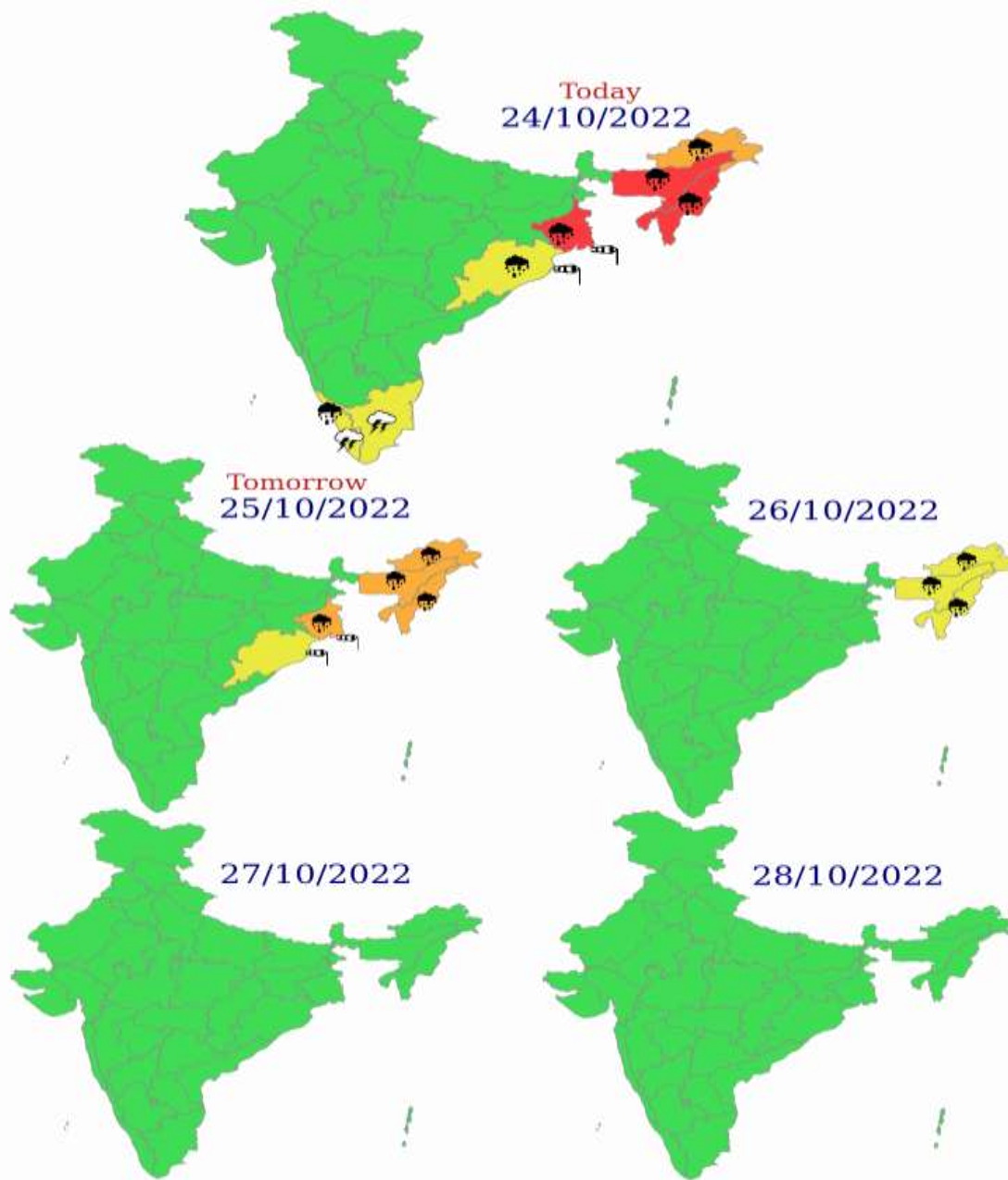
Annexure I

Heavy to very heavy rainfall occurred at isolated places over Kerala and **heavy rainfall** at isolated places over Tripura and Tamil Nadu.

Rainfall (in cm):

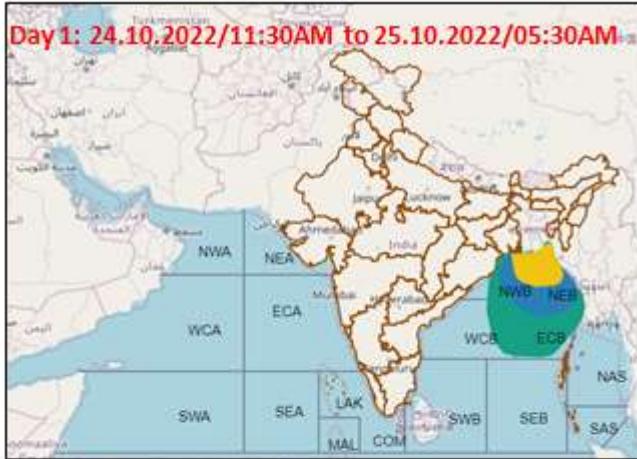
- ❖ **Kerala:** Kayamkulam Agri (Dist Alapuzha) 14, Neryamangalam Arg (Dist Ernakulam) 7, Peruvannamuzhi Arg (Dist Kozhikode) 7;
- ❖ **Tripura:** BISHALGARH (dist SEPAHIJALA) 9;
- ❖ **Tamilnadu, Puducherry and Karaikal:** Sivagiri (dist Tenkasi) 7;

Annexure II



Annexure III

Fishermen warning graphics



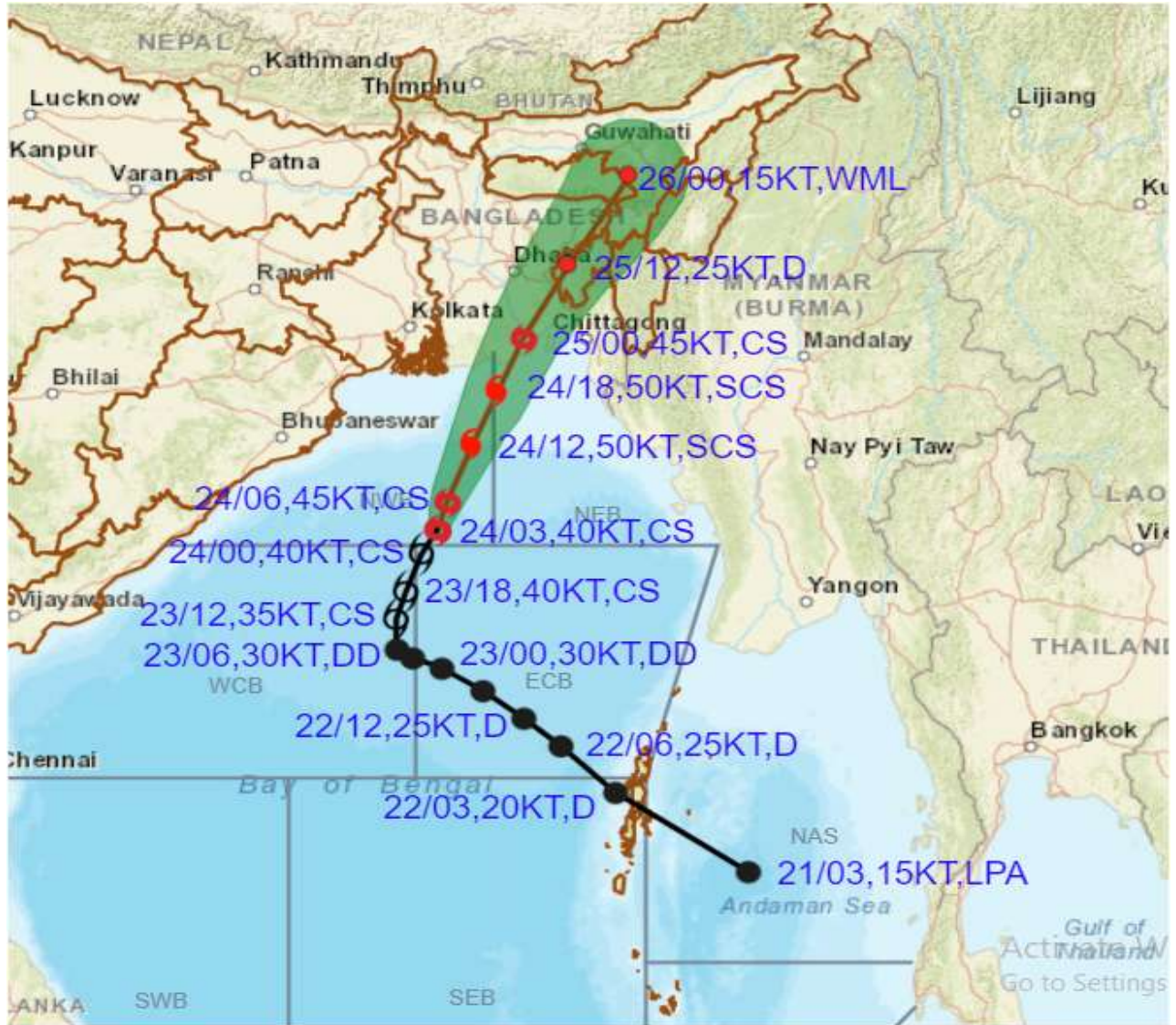
	Squally WX with wind speed 40-45 kmph gusting to 55 kmph
	Squally WX with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind speed with wind speed 45-55 kmph gusting to 65 kmph
	Squally wind speed with wind speed 55-65 kmph gusting to 75 kmph
	Gale wind speed with wind speed 65-75 kmph gusting to 85 kmph
	Gale wind speed with wind speed 80-90 kmph gusting to 100 kmph
	Gale wind speed with wind speed 90-100 kmph gusting to 110 kmph

Fishermen are advised not to venture into the marked areas.

Annexure IV



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM SITRANG OVER NORTHWEST AND ADJOINING CENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 24th OCTOBER, 2022

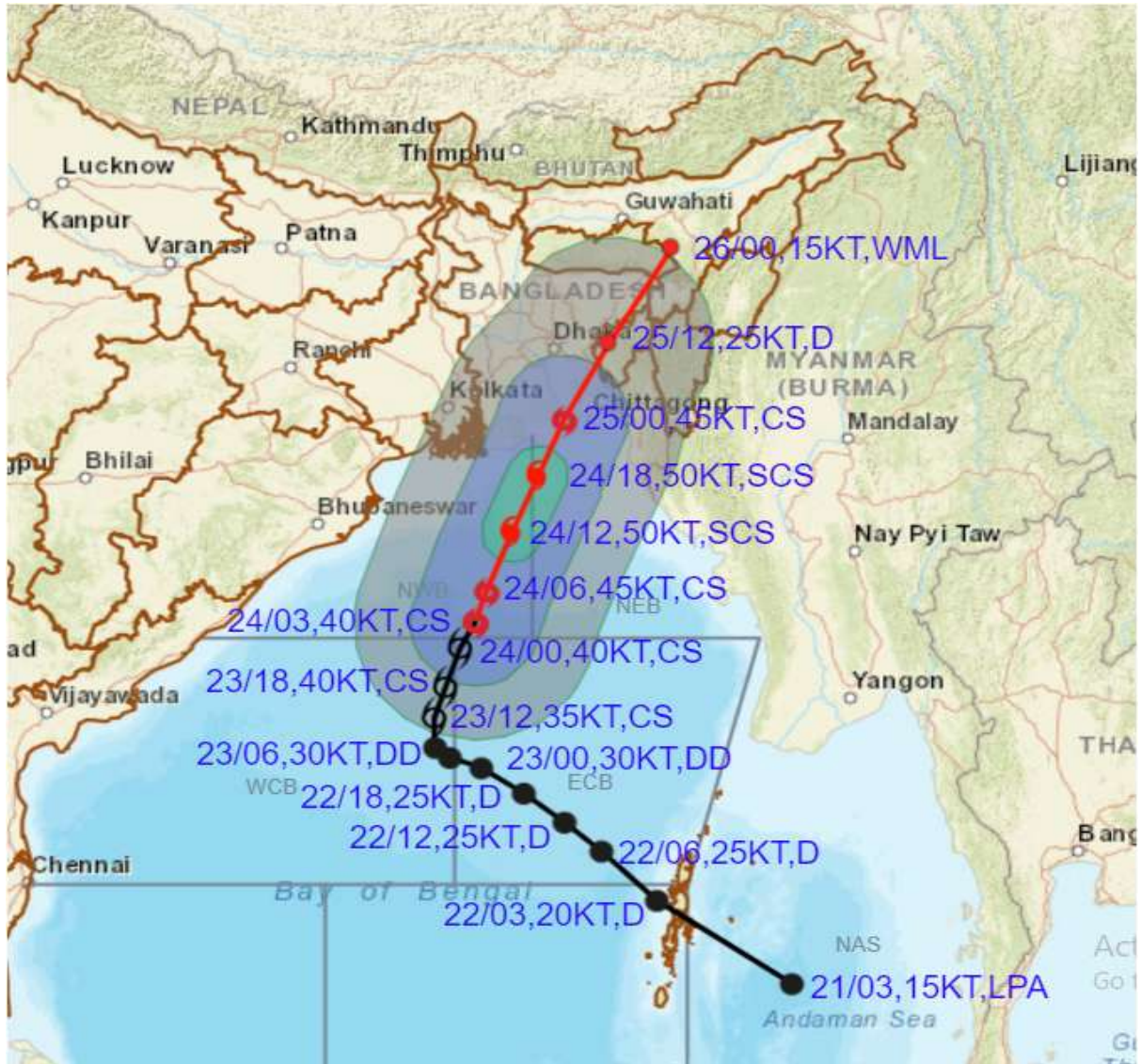


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 CYCLONIC STORM SITRANG OVER NORTHWEST AND ADJOINING CENTRAL BAY OF BENGAL BASED ON 0300 UTC OF 24th OCTOBER, 2022



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 (≥20 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

Damage expected over coastal districts of West Bengal (South and North 24 Parganas and East Mednipur)

- Damage to thatched huts.
- Damage to power and communication lines due to breaking of branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Damage to paddy crops, banana, papaya trees and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments

Action suggested for West Bengal

- Total suspension of fishing operations.
- People to remain in safe places.
- 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.

Damage expected over Tripura, Mizoram, East Meghalaya, Manipur and South Assam

- Damage to standing crops including agricultural and horticultural crops due to heavy rain and squally winds
- Breaking of tree branches and uprooting of small trees like drumsticks, banana and papaya trees
- Inundation/localized flooding in low lying areas due to heavy rains
- Localised landslides/ mudslides/ mud slips/ mud sink possibility due to heavy rain
- Traffic may be disrupted due to poor visibility in association with heavy rain
- Vulnerable structures like hoardings, tents and display boards may be damaged

Action suggested for Tripura, Mizoram, East Meghalaya, Manipur and South Assam

- People are advised to be cautious while going outside
- People should not move nearby to vulnerable structures
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



Heavy Rain



Strong Winds



Thunderstorm with Lightning

WARNING

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

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75