

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

### NATIONAL BULLETIN NO. 27 (BOB/07/2024)

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DATED: 30.11.2024

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

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Sub: Cyclonic Storm "FENGAL" [pronounced as FEINJAL] over Southwest Bay of Bengal (Cyclone Warning: Red Message for North Tamil Nadu, Puducherry and adjoining south Andhra Pradesh Coasts)

The Cyclonic Storm "FENGAL" [pronounced as FEINJAL] over Southwest Bay of Bengal moved north-northwestwards with a speed of 07 kmph during past 6 hours and lay centred at 0230 hours IST of today, the 30<sup>th</sup> November 2024 over the same region near latitude 11.9°N and longitude 81.5°E, about 370 km north of Trincomalee, 210 km northeast of Nagappattinam, 180 km east of Puducherry and 190 km southeast of Chennai.

It is likely to move nearly west-northwestwards and cross north Tamil Nadu-Puducherry coasts between Karaikal and Mahabalipuram close to Puducherry as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph during afternoon of 30<sup>th</sup> November.

The system is being continuously monitored.

Maximum sustained surface Date/ Position Category of cyclonic (Lat. <sup>0</sup>N/ long. <sup>0</sup>E) wind speed (Kmph) disturbance Time (IST) 30.11.24/0230 11.9/81.5 70-80 gusting to 90 Cyclonic Storm 30.11.24/0530 12.0/81.1 70-80 gusting to 90 Cyclonic Storm 30.11.24/1130 12.1/80.4 70-80 gusting to 90 Cyclonic Storm 30.11.24/1730 12.0/79.8 65-75 gusting to 85 Cyclonic Storm 30.11.24/2330 11.9/79.1 55-65 gusting to 75 Deep Depression

Forecast track and intensity are given in the following table:

### Warnings:

### (i) Rainfall Warning:

**Tamil Nadu & Puducherry:** Light to moderate rainfall at many places with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places over north Tamil Nadu – Puducherry on 30<sup>th</sup> November; **heavy to very heavy rainfall** at isolated places over interior Tamil Nadu on 01<sup>st</sup> December, and **heavy rainfall** at isolated places over Tamil Nadu on 02<sup>nd</sup> and 03<sup>rd</sup> December.

**Coastal Andhra Pradesh:** Light to moderate rainfall at many places with **heavy to very heavy** rainfall with extremely heavy rainfall at isolated places over south coastal Andhra Pradesh on 30<sup>th</sup> November, and heavy rainfall at isolated places on 01<sup>st</sup> December.

**Rayalaseema:** Light to moderate rainfall at many places with **heavy to very heavy rainfall** with **extremely heavy rainfall** at isolated places is likely on 30<sup>th</sup> November; **heavy rainfall** at isolated places on 01<sup>st</sup> December.

**South interior Karnataka:** Light to moderate rainfall at many places with isolated **heavy rainfall** is likely on 30<sup>th</sup> November, **heavy to very heavy rainfall** at isolated places on 01<sup>st</sup> & 2<sup>nd</sup> December.

**Kerala:** Light to moderate rainfall at many places with isolated heavy rainfall is likely on 30<sup>th</sup> November, **heavy to very heavy rainfall** at isolated places on 01<sup>st</sup> & 2<sup>nd</sup> December.

### (ii) Wind warning:

- Southwest Bay of Bengal: Gale wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing over southwest Bay of Bengal. It is likely to decrease becoming 55-65 kmph gusting to 75 kmph by evening of 30<sup>th</sup> November.
- Adjoining areas of westcentral Bay of Bengal: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over adjoining areas of westcentral Bay of Bengal till evening of 30<sup>th</sup> November. It is likely to decrease thereafter.
- Along & off North Tamil Nadu Puducherry and adjoining South Andhra Pradesh coasts: Gale wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing along & off North Tamil Nadu - Puducherry and adjoining South Andhra Pradesh coasts. It is likely to prevail till evening of 30<sup>th</sup> November and decrease thereafter.
- Costal districts of north Tamil Nadu & south Andhra Pradesh: Gale wind speed reaching 60-70 kmph gusting to 80 kmph is prevailing over costal districts of Tamil Nadu (Tiruvallur, Chennai, Chengalpattu, Villupuram and Puducherry) and Andhra Pradesh (Tirupati and Nellore). It is likely to increase becoming 70-80 kmph gusting to 90 kmph over costal districts of Tamil Nadu (Tiruvallur, Chennai, Chengalpattu, Villupuram, Puducherry Cuddalore, Mayiladuthurai and Nagappattinam) and Andhra Pradesh (Tirupati, Nellore and Prakasham) from 30<sup>th</sup> November morning to evening of 30<sup>th</sup> November. It is likely to decrease thereafter.
- Along & off East Sri Lanka coasts: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail Along & off East Sri Lanka coasts till morning of 30<sup>th</sup> November. It would decrease thereafter.
- Along & off South Tamil Nadu coast and Gulf of Mannar: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail till 30<sup>th</sup> evening and gradually decrease thereafter.

### (iii) Sea condition:

Very Rough to High Sea conditions is very likely over southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till evening of 30th November. It will gradually improve becoming Very rough to rough till night of 30<sup>th</sup> November.

### (iv) Flash Flood Guidance:

### 24 hours Outlook for the Flash Flood Risk (FFR) till 2330 IST of 30-11-2024 :

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Coastal Andhra Pradesh & Yanam - Nellore district. Rayalaseema - Chittoor and Kadapa districts.

**Tamil Nadu - Puducherry & Karaikal -** Puduchery, Ariyalur, Chennai, Cuddalore, Dharampuri, Kanchipuram, Krishnagiri, Salem, Tiruvallur, Tiruvannamalai, Vellore and Villupuram districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.

### (v) Storm surge Warning:

Storm surge of about 1 meter height above the astronomical tide is likely to inundate the low lying areas of the coastal districts of north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh during the time of landfall.

### (vi) Fisherman warning:

- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30<sup>th</sup> November.
- Fishermen out at sea are advised to return to coast.

# (vii) Impact Expected [over coastal districts of North Tamil Nadu (Tiruvallur, Chennai, Chengalpattu, Villupuram, Puducherry Cuddalore, Mayiladuthurai and Nagappattinam) and Andhra Pradesh (Tirupati, Nellore and Prakasham)]

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Damage to horticulture and standing crops in some areas due to inundation.
- Partial disruption of power and communication lines.
- Breaking of tree branches, uprooting of small tress including banana, papaya and drumstick.

### (viii) Action Suggested

- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30<sup>th</sup> November.
- Fishermen out at sea are advised to return to coast.
- The ships plying over the area need to regulated.
- People should stay in safe places during 30<sup>th</sup> morning to evening.
- 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.
- Special care may be taken for fishing ponds and poultries over coastal areas.
- Avoid staying in vulnerable structure.

# (ix) Agromet advisories [over coastal districts of Tamil Nadu – Puducherry and adjoining south Andhra Pradesh]

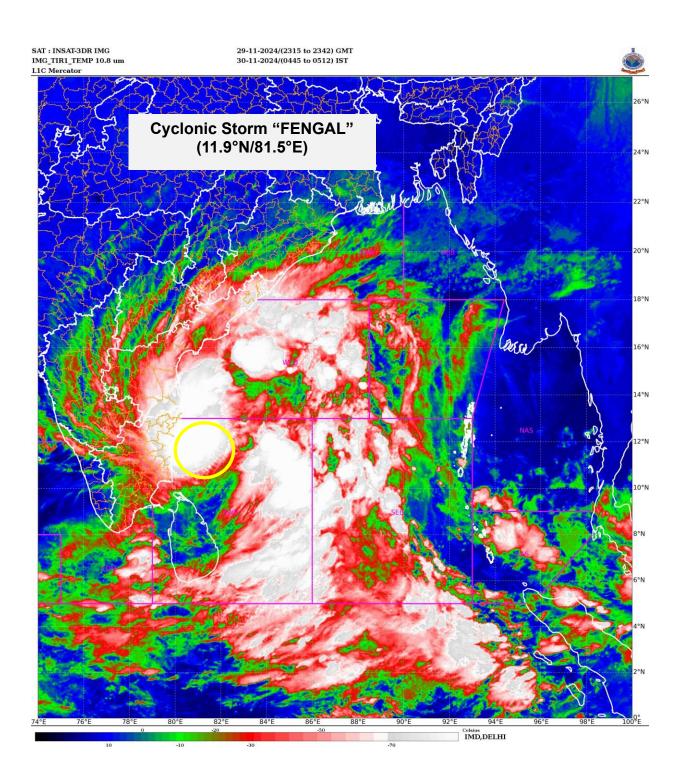
Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Provide mechanical support to banana plants to prevent lodging.

- Make arrangements to drain out excess water from the standing crop fields and fruit orchards in Kerala and Coastal Andhra Pradesh.
- Harvest the matured crops and keep it in safe place.
- Provide mechanical support to horticultural crops and staking to vegetables.

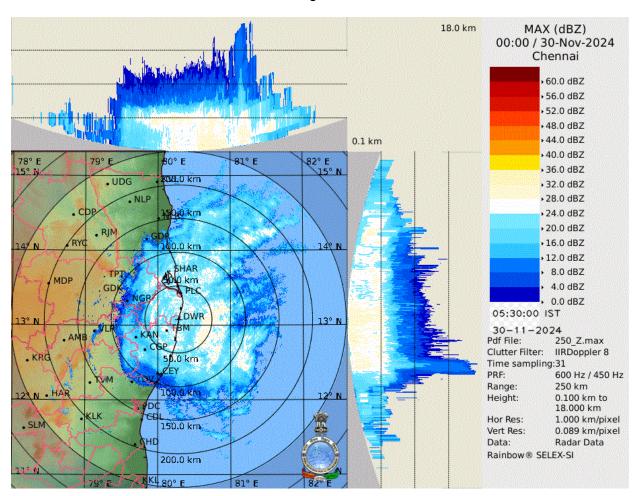
### Next bulletin will be issued at 0830 hours IST of today, the 30<sup>th</sup> November, 2024.

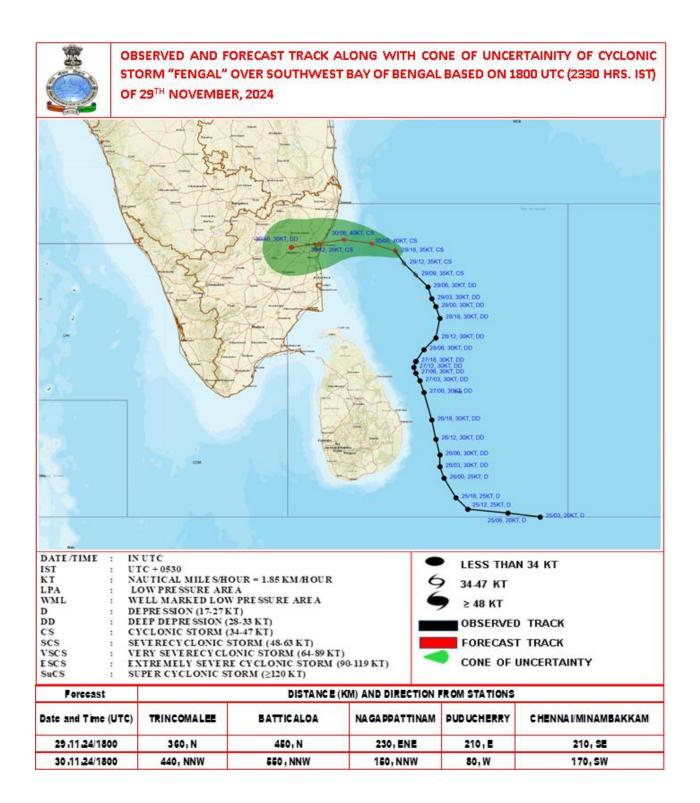
Scie Copy to: ACWC Kolkata/ACWC Chennai/CWC Bhubanes Thiruvananthapuram/CWC, Vishakhapatnam

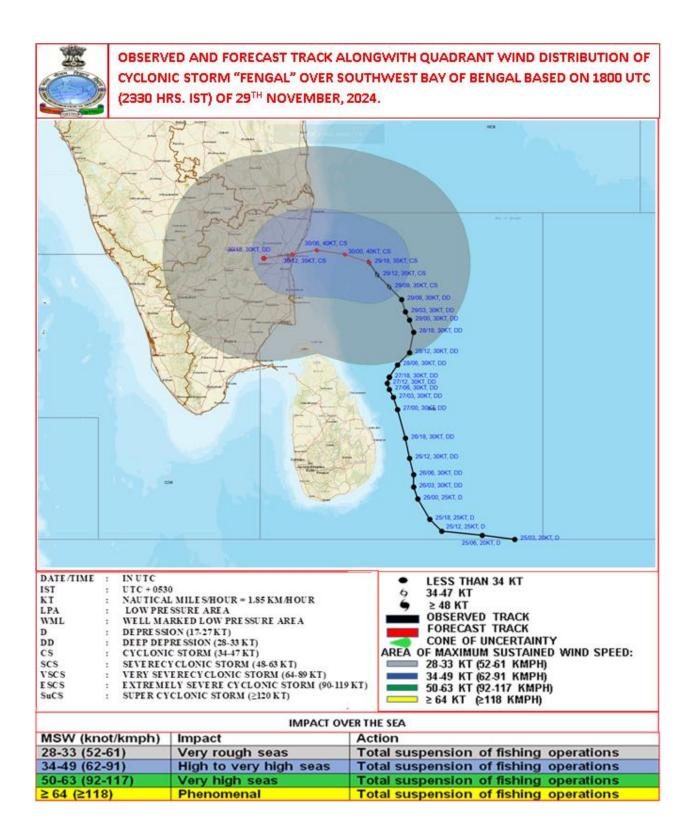
(Dr. Shashi Kant) Scientist D, RSMC, New Delhi Bhubaneswar/MC, Amaravati/MC,



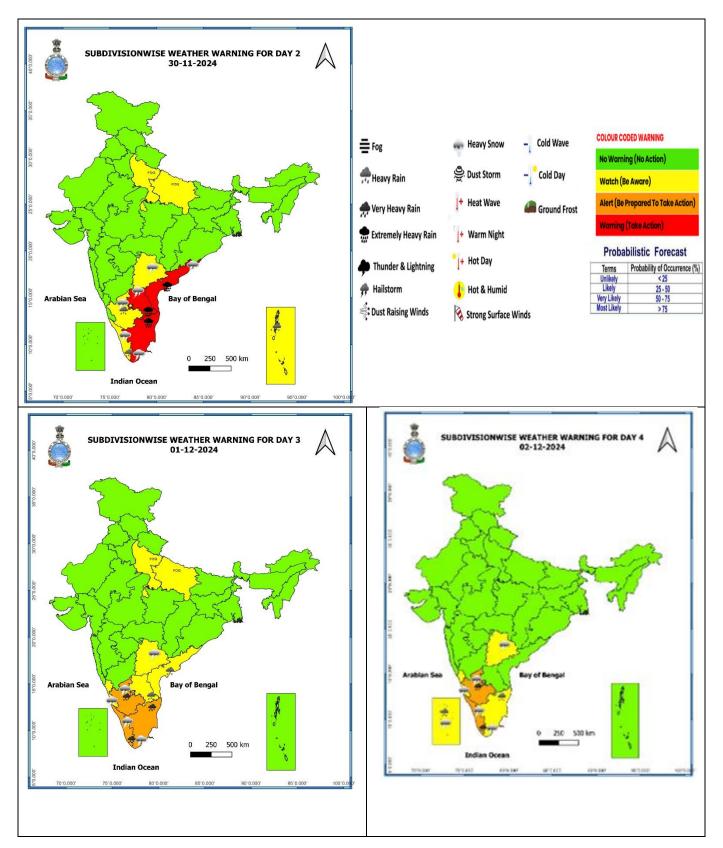
Radar Image of Chennai

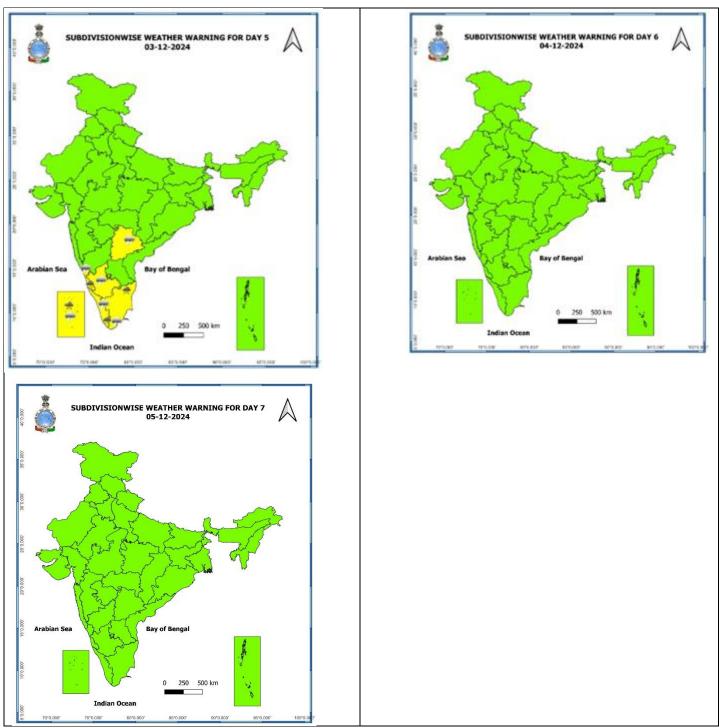






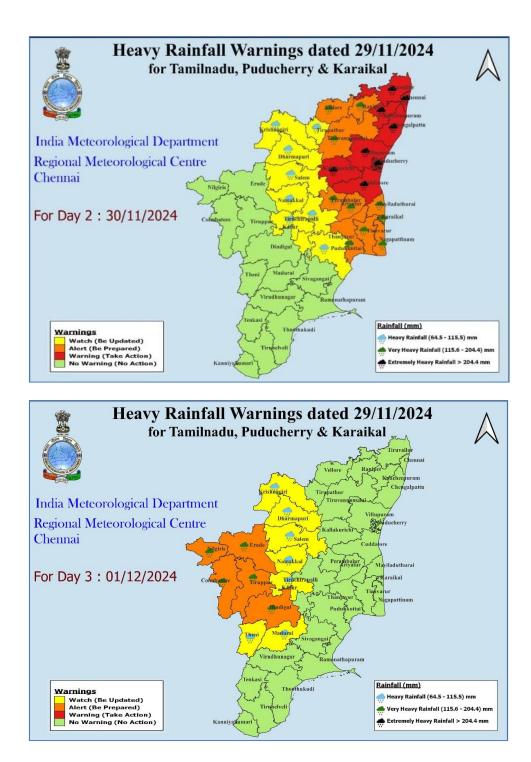
# **Weather Warning Graphics**



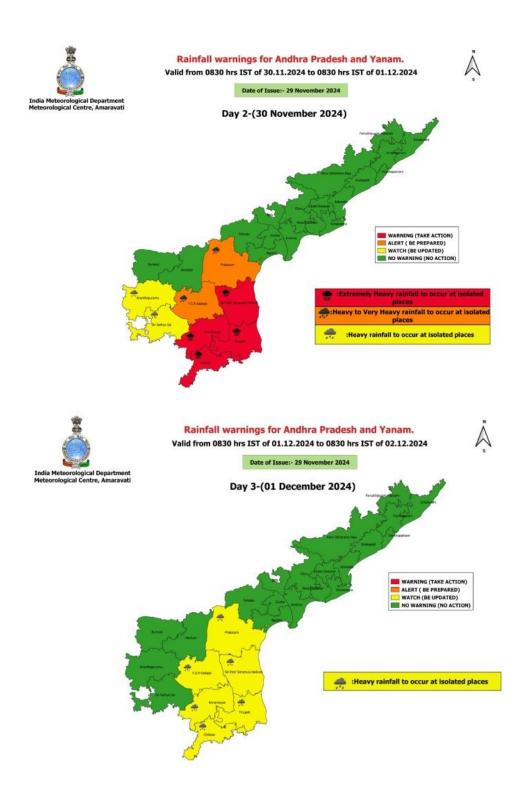


- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

# District-Wise Warning Graphics of Tamil Nadu & Puducherry



### **District-Wise Warning Graphics of Andhra Pradesh**



# Flash Flood Guidance

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Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.

