



**இந்திய அரசு**  
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**EXTENDED RANGE FORECAST FOR TAMILNADU, PUDUCHERRY AND KARAIKAL**  
**Thursday, the 11<sup>th</sup> April 2024**

**Current weather status & Outlook for next two weeks**

**1. Realised Weather Summary for the past week (04<sup>th</sup> Apr to 10<sup>th</sup> Apr 2024)**

**I. Rainfall:**

**(i) Rainfall during the week (04<sup>th</sup> Apr to 10<sup>th</sup> Apr 2024)**

Rainfall occurred over Tamilnadu *at isolated places* on 04<sup>th</sup>, 05<sup>th</sup>, 07<sup>th</sup> & 09<sup>th</sup>. **Dry** weather prevailed over Tamilnadu on 06<sup>th</sup>, 08<sup>th</sup> & 10<sup>th</sup>; over Puducherry and Karaikal during 04<sup>th</sup>-10<sup>th</sup> April 2024.

**Heavy rainfall amounts (cm) reported during the week (04<sup>th</sup> Apr to 10<sup>th</sup> Apr 2024):**

**04<sup>th</sup> Apr to 10<sup>th</sup> Apr 2024:** NIL

Station-wise cumulative rainfall during the week (**04<sup>th</sup> Apr to 10<sup>th</sup> Apr 2024**) is depicted in Fig.1a.

The sub-divisional rainfall during the week was **0.1mm** against the normal rainfall of **07.6 mm** which comes under ***Largely Deficient* (-98%)** category. Out of the **40** districts, **02** districts received ***Largely Deficient*** rainfall and **38** districts received ***No rain*** during the week (Fig.1b).

**(ii) Seasonal Rainfall Scenario (01<sup>st</sup> Mar to 10<sup>th</sup> Apr 2024):**

The cumulative rainfall over Tamilnadu subdivision during the season from 01<sup>st</sup> Mar to 10<sup>th</sup> Apr 2024 was **1.7 mm** against the normal rainfall of **29.5 mm**, which come under ***Largely Deficient* category (-94%)** (Fig.2). Out of the **40** districts, **01** district came under ***Deficient*** category, **17** districts – under ***Largely deficient*** category and **22** districts under - ***No rain*** category during the period (Fig.2).

**II. Temperature:**

During the week from **04<sup>th</sup> to 10<sup>th</sup> Apr 2024**, the maximum temperatures over Tamilnadu were above normal to appreciably above normal over many pockets of Tamilnadu and normal over the rest of Tamilnadu, Puducherry & Karaikal. The minimum temperatures were above normal at a few places over Tamilnadu subdivision during the week.

**Heat Wave conditions prevailed at isolated pockets over North Interior Tamilnadu during 06<sup>th</sup>-09<sup>th</sup> April 2024.**

The highest maximum temperature recorded during the week was **42°C** at **Erode** on 08<sup>th</sup> Apr 2024.

The lowest minimum temperature recorded over the plains of the subdivision was **18.5°C** at **Namakkal** on 10<sup>th</sup> and over the hilly areas, **10.6°C** at **Kodaikanal** on 10<sup>th</sup> April 2024.

(*Note*: Realised rainfall and temperature descriptions given above are based on the observations during the past 24 hours ending 08:30 IST of dates mentioned therein.)

## **2. Outlook for the next two weeks for the Tamil Nadu subdivision:**

### **(i) Rainfall:**

Week-1 (12-04-2024 to 18-04-2024): As per extended range predictions by dynamical models, near normal to slightly above normal rainfall is likely over extreme southern districts, below normal rainfall is likely over western ghat and adjoining interior districts of north Tamilnadu and generally dry weather conditions are likely over rest of Tamilnadu, Puducherry and Karaikal area during week-1 (Fig.3).

Week-2 (19-04-2024 to 25-04-2024): Near normal to slightly above normal rainfall is likely over a very few western ghat and adjoining north interior districts, slightly below normal rainfall is likely over a few extreme southern districts of Tamilnadu and generally dry weather condition is likely over rest of Tamilnadu, Puducherry and Karaikal during the week-2 (Fig.3).

### **(ii) Temperature:**

#### **(a) Maximum Temperature**

Week-1 (12-04-2024 to 18-04-2024): Maximum temperatures are likely to be *near normal to above normal* over most parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 28°C to 32°C in the western ghat districts and 34°C to 38°C over the plains of rest of Tamilnadu, Puducherry and Karaikal during week-1 (Fig.4a).

Week-2 (19-04-2024 to 25-04-2024): Maximum temperatures are likely to be *near normal* over many parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 28°C to 30°C in the western ghat districts and 34°C to 38°C over the plains of rest of Tamilnadu, Puducherry and Karaikal during week-2 (Fig.4a).

#### **(b) Minimum Temperature**

Week-1 (12-04-2024 to 18-04-2024): Minimum temperatures are likely to be *near normal* over most parts of Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 24°C to 26°C over coastal and adjoining interior districts of Tamilnadu, Puducherry and Karaikal area and 22°C to 26°C over the plains of rest of interior Tamilnadu during the week-1 (Fig.4b).

Week-2 (19-04-2024 to 25-04-2024) Minimum temperatures are likely to be *near normal to slightly above normal* over Tamilnadu, Puducherry & Karaikal and are likely to be in the range of 24°C to 28°C over coastal and adjoining interior districts of Tamilnadu, Puducherry and Karaikal area and 20°C to 24°C over the plains of rest of Tamilnadu during the week-2 (Fig.4b).

Dr. B. Geetha,  
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Regional Meteorological Centre, Chennai.

Next bulletin will be issued on 18<sup>th</sup> Apr 2024 (Thursday)

**LEGEND:****Spatial rainfall distribution:**

<b>% Stations reporting Rainfall</b>	<b>Category</b>
76-100	Widespread (WS/ most places)
51-75	Fairly Widespread (FWS/ many places)
26-50	Scattered (SCT/ few places)
1 -25	Isolated (ISOL/ one or two places)
No Rain	Dry

**Rainfall intensity:**

<b>24-hr accumulated rainfall (cm/day)</b>	<b>Category</b>
Upto 1	Light rain
2-6	Moderate rain
7-11	Heavy rain
12-20	Very heavy rain
≥ 21	Extremely heavy rain

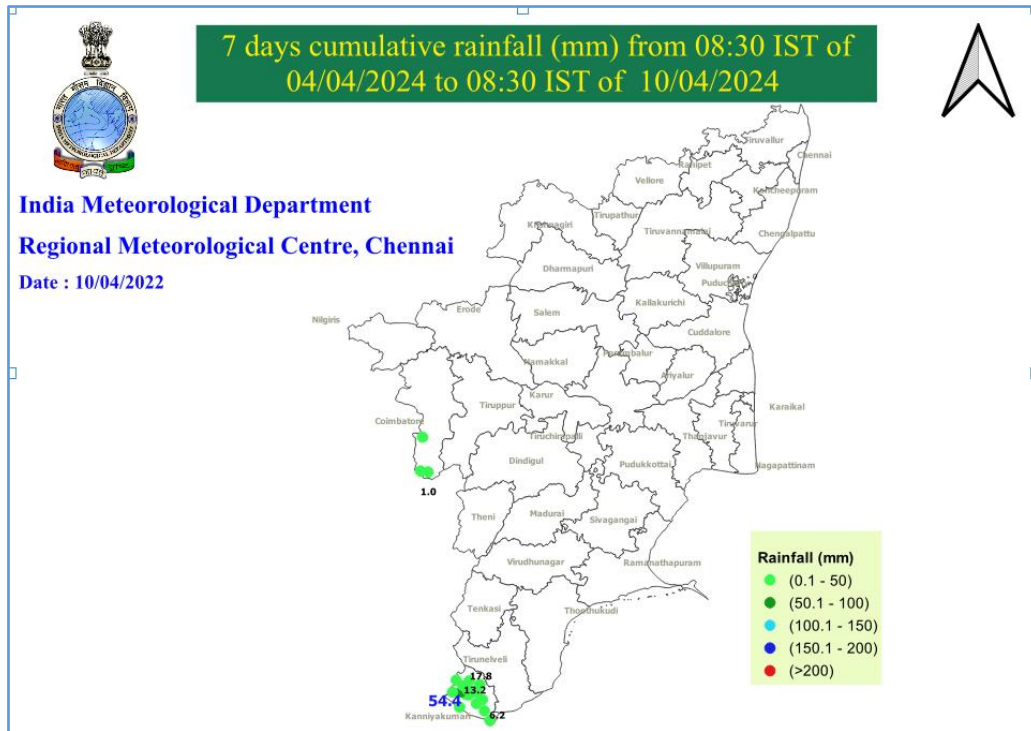
**Description of rainfall with respect to normal:**

<b>Rainfall percentage departure from normal</b>	<b>Category</b>
≥ +60%	Large excess
+20% to +59%	Excess
-19% to +19%	Normal
-20% to -59%	Deficient
≤ -60%	Largely deficient

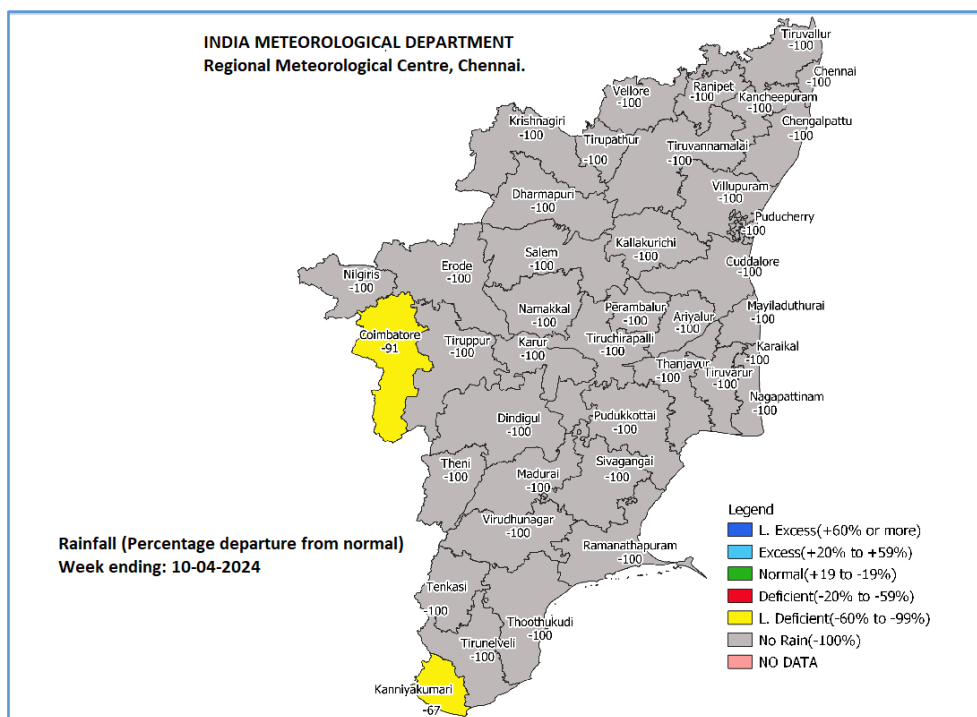
**Description of Temperature:**

Markedly above normal	Departure from normal: +5.1°C or more
Appreciably above normal	Departure from normal: +3.1° C to +5.0 ° C
Above Normal	Departure from normal: +1.6 °C to +3.0 °C
Normal	Departure from normal: -1.5° C to +1.5° C
Below Normal	Departure from normal: -1.6 °C to -3.0 °C
Appreciably below normal	Departure from normal: -3.1° C to -5.0 ° C
Markedly below normal	Departure from normal: -5.1°C or less

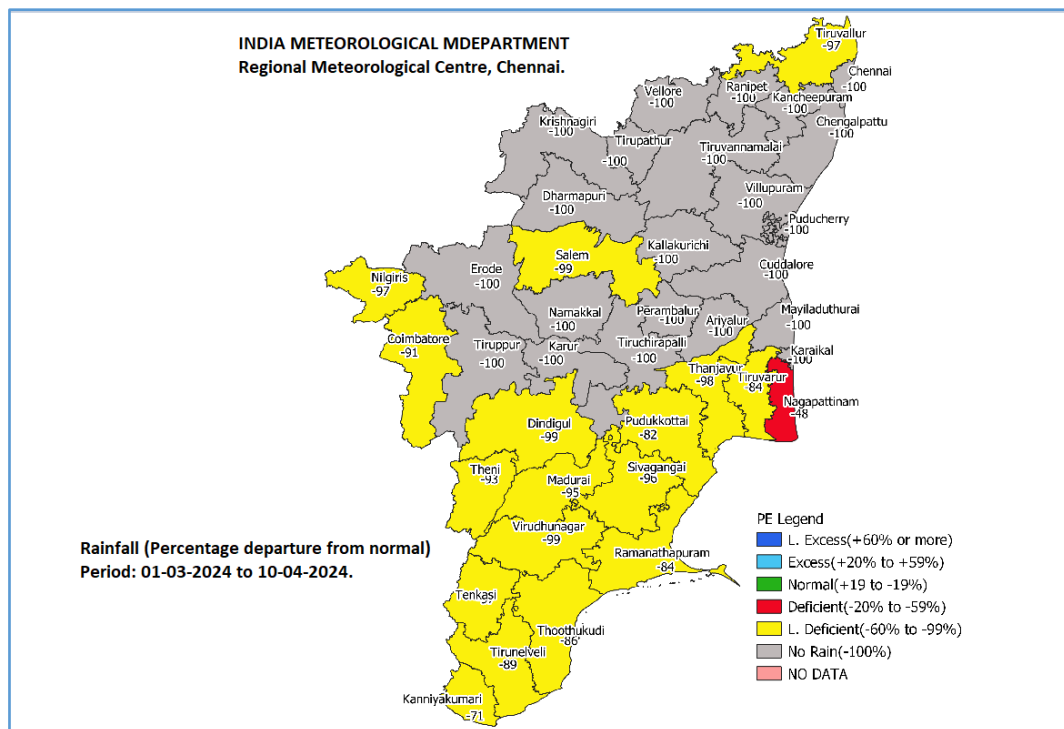
<b>North Tamil Nadu (NTN) districts</b>	Chennai, Kancheepuram, Chengalpattu, Tiruvallur, Cuddalore, Villupuram, Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur.
<b>South Tamil Nadu (STN) districts</b>	Dindigul, Theni, Virudhunagar, Madurai, Sivagangai, Ramanathapuram, Thoothukudi, Thenkasi, Tirunelveli, Kanyakumari.
<b>Interior Tamil Nadu (ITN) districts</b>	Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Kancheepuram, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur, Sivagangai, Virudhunagar, Theni, Dindigul, Madurai, Thenkasi.
<b>North interior Tamil Nadu (NITN) districts</b>	Tirupattur, Vellore, Ranipet, Kallakurichi, Tiruvannamalai, Kancheepuram, Krishnagiri, Dharmapuri, Salem, Namakkal, Karur, Erode, Nilgiris, Coimbatore, Tiruppur, Tiruchirapalli, Ariyalur, Perambalur.
<b>South interior Tamil Nadu (SITN) districts</b>	Sivagangai, Virudhunagar, Theni, Dindigul, Madurai, Thenkasi.
<b>Coastal Tamil Nadu (CTN) districts</b>	Tiruvallur, Chennai, Chengalpattu, Villupuram, Cuddalore, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai, Ramanathapuram, Thoothukudi, Tirunelveli, Kanyakumari.
<b>North Coastal Tamil Nadu (NCTN) districts</b>	Tiruvallur, Chennai, Chengalpattu, Villupuram, Cuddalore, Thanjavur, Tiruvarur, Mayiladuthurai, Nagapattinam, Pudukottai.
<b>South Coastal Tamil Nadu (SCTN) districts</b>	Ramanathapuram, Thoothukudi, Tirunelveli, Kanyakumari.
<b>Delta Districts</b>	Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Pudukottai and Karaikal area.
<b>Delta and Adjoining districts</b>	Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Pudukottai, Karaikal and Tiruchirapalli, Perambalur, Ariyalur, Cuddalore.
<b>Western Ghat districts</b>	Nilgiris, Coimbatore, Tiruppur, Theni, Dindigul, Thenkasi, Virudhunagar
<b>PDC</b>	Puducherry and Karaikal



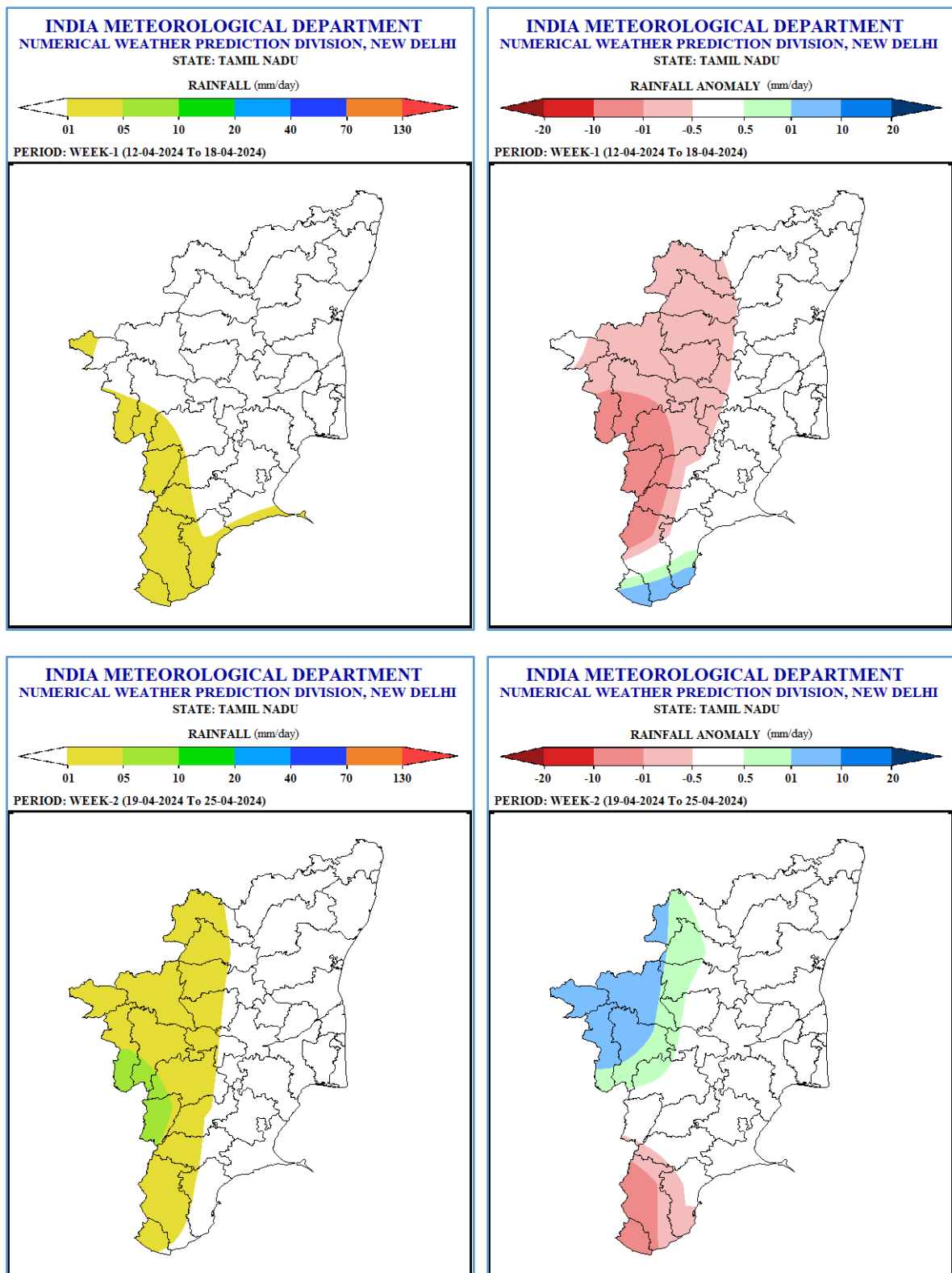
**Fig.1a: Station-wise cumulative rainfall during the week (past 7 days ending 08:30 IST of 10-04-2024)**



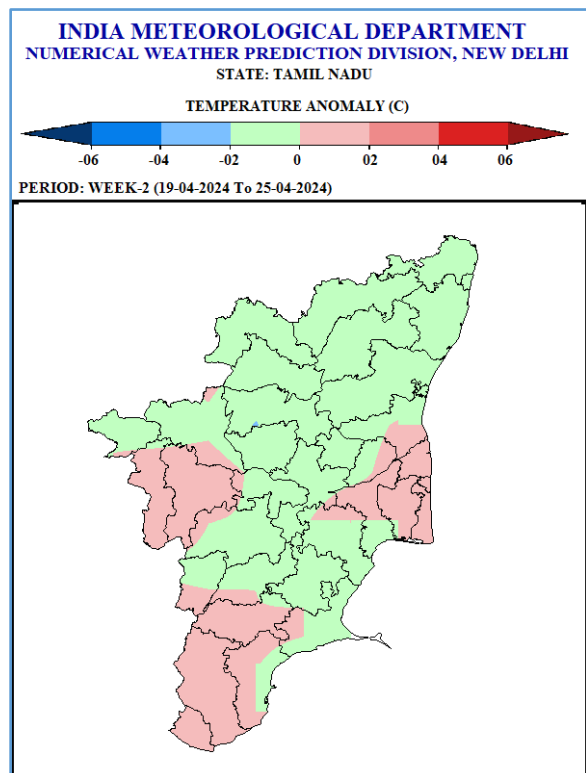
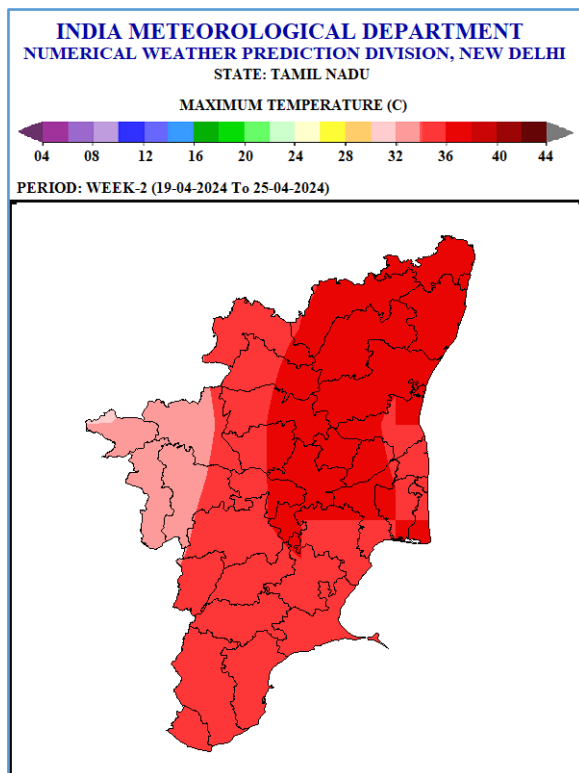
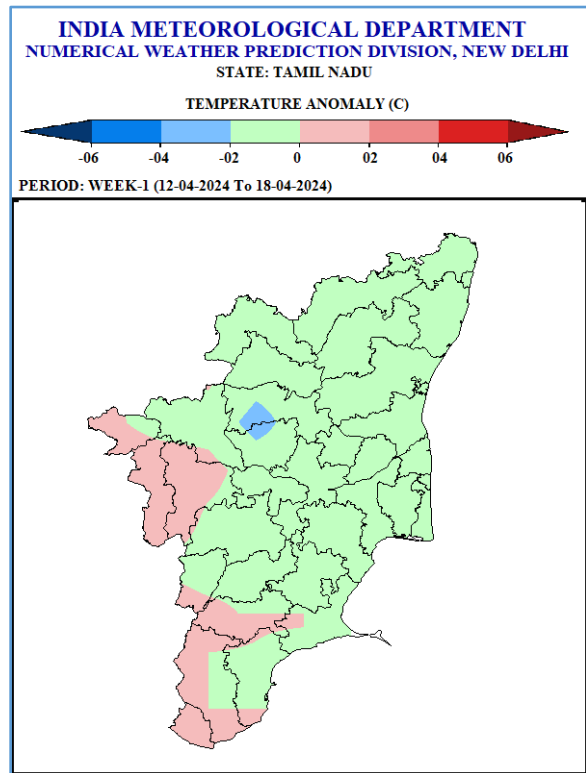
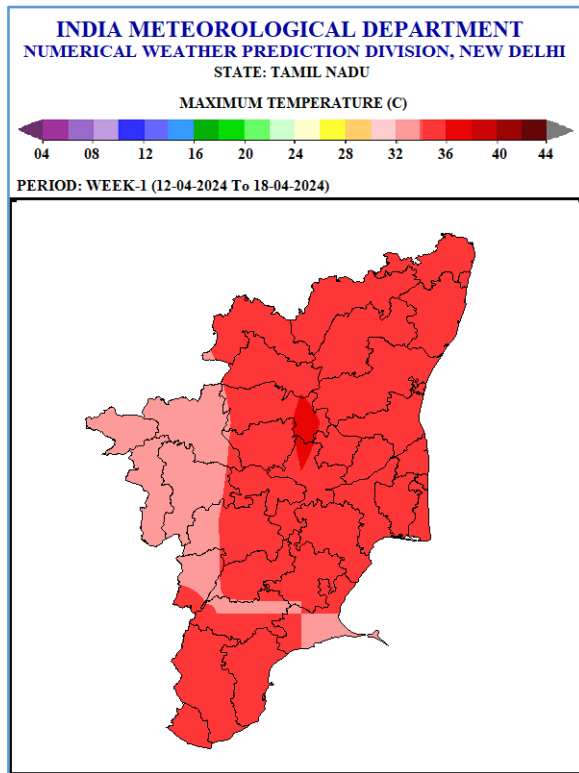
**Fig.1b: District-wise weekly rainfall (percentage departures from normal) during the week ending 10-04-2024**



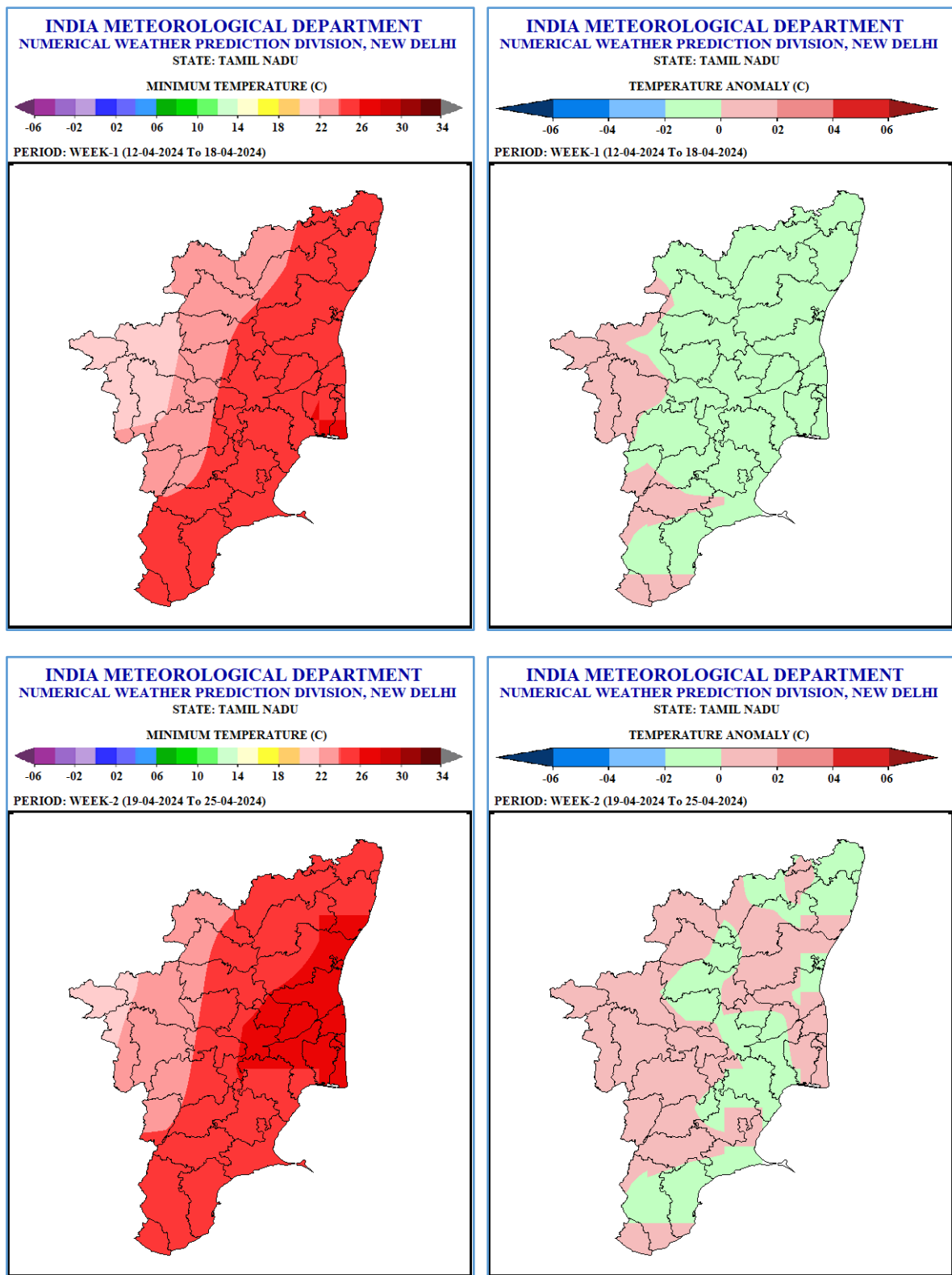
**Fig.2: District-wise cumulative rainfall (percentage departures from normal) during the season (01<sup>st</sup> Mar to 10<sup>th</sup> Apr 2024)**



**Fig.3: Predicted rainfall (in mm/day) during the Week-1 (12-04-2024 to 18-04-2024) & Week-2 (19-04-2024 to 25-04-2024)**



**Fig.4a: Predicted maximum temperature ( $^{\circ}\text{C}$ ) and its departure from the normal ( $^{\circ}\text{C}$ ) during the Week-1 (12-04-2024 to 18-04-2024) & Week-2 (19-04-2024 to 25-04-2024)**



**Fig.4b: Predicted minimum temperature (°C) and its departure from the normal (°C) during the Week-1 (12-04-2024 to 18-04-2024) & Week-2 (19-04-2024 to 25-04-2024)**