

GOVERNMENT OF INDIA भारत सरकार INDIA METEOROLOGICAL DEPARTMENT भारत मौसम विज्ञान विभाग METEOROLOGICAL CENTRE, GANGTOK मौसम विज्ञान केंद्र, गंगटोक

MONTHLY WEATHER REPORT FOR SIKKIM

MAY 2025

Summary of the Weather over Sikkim during the month:

- > The state has received 369.9 mm rainfall against the normal value of 289.5 mm.
- Gangtok, Pakyong, Mangan, Namchi, Gyalshing & Soreng districts of Sikkim have received 513.6 mm, 264.2 mm, 449.7 mm, 219.0 mm, 157.2 mm & 086.0 mm rainfall against their normal values 479.2 mm, 222.8 mm, 285.9 mm, 221.8 mm, 211.2 mm & 211.2 mm respectively.
- The capital city Gangtok has experienced the warmest day with Maximum Temperature: 25.5°C on 28th May, the coldest night with Minimum Temperature: 12.3 °C on 03rd May.
- > During May, Mean Monthly Maximum & Minimum Temperature of Gangtok were 21.4 °C & 15.6 °C respectively.

Special findings related to Gangtok and Tadong during the month of May 2025:

Gangtok:

Lowest maximum temperature for the month of May after 2022.

Tadong:

Lowest maximum temperature for the month of May after 2022. Highest average minimum temperature for the month of May after 2007.

Significant Synoptic Situation:

On 01st May, yesterday's upper air circulation over north Bangladesh & neighbourhood persisted and was seen between 3.1 & 7.6 km above mean sea level. On 02nd May, the upper air cyclonic circulation over north Bangladesh & neighbourhood persisted and lay between 3.1 & 5.8 km above mean sea level. On 3rd May, The upper air cyclonic circulation over north Bangladesh & neighbourhood persisted and now extended upto 1.5 km above mean sea level. On 04th May, The upper air cyclonic circulation over northern parts of Gangetic West Bengal & neighbourhood extending upto 1.5 km above mean sea level persisted. A north-south trough now runs from cyclonic circulation over northern parts of Gangetic West Bengal to north coastal Adhara Pradesh across coastal Odisha at 0.9 km above mean sea level. On 05th May, The upper air cyclonic circulation over northern parts of May and Sikkim at 0.9 km above mean sea level. On 06th May, the east-west trough from East Rajasthan to Meghalaya ran from East Rajasthan to north Bangladesh across cyclonic circulation over north Chhattisgarh, Jharkhand and Sikkim at 0.9 km above mean sea level. On 07th May, The east-west trough ran from southwest Rajasthan to north Jharkhand across cyclonic circulation over northwest Madhya Pradesh, north Chhattisgarh at 0.9 km above mean sea level.

On 08th May, an upper air cyclonic circulation over Northeast Assam & neighbourhood was seen at 1.5 km above mean sea level. It persisted throughout the week . On 10th May, an upper air circulation over North Bangladesh at 0.9 km above mean sea level was seen. On 11th May, the cyclonic circulation persisted. On 12th May, a trough ran from Central parts of Bihar to south Jharkhand and extended upto 1.5 km above mean sea level. On 13th May, an upper air cyclonic circulation lay over East Uttar Pradesh & adjoining Bihar at 0.9 km above mean sea level. A trough ran from above cyclonic circulation over East Uttar Pradesh & adjoining Bihar to south Odisha across Chhattisgarh at 0.9 km above mean sea level. On 14th May, The trough from cyclonic circulation over east Bihar & adjoining Sub-Himalayan West Bengal to south Chhattisgarh ran from east Bihar & adjoining Sub Himalayan West Bengal to north Rayalaseema across Jharkhand, Vidarbha, Telangana at 0.9 km above mean sea level.

On 15th May, the trough from Sub-Himalayan West Bengal & Sikkim to southeast Madhya Pradesh across north Chhattisgarh at 0.9 km above mean sea level persisted. On 16th May, The trough ran from a cyclonic circulation over northwest Uttar Pradesh to north Bangladesh across East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal at 0.9 km above mean sea level. On 17th May, it ran from the cyclonic circulation over northwest Uttar Pradesh to east Bangladesh across East Uttar Pradesh, Jharkhand, Gangetic West Bengal at 0.9 km above mean sea level. On 18th May, it ran from central parts of Punjab to north Bangladesh across above cyclonic circulation over central parts of Haryana, central parts of Uttar Pradesh, Bihar, north Gangetic West Bengal at 0.9 km above mean sea level. On 19th May, the east-west trough from Punjab to north Bangladesh across Haryana, south Uttar Pradesh, south Bihar & north Gangetic West Bengal at 1.5 km above mean sea level persisted. On 20th May, the east-west trough from cyclonic circulation over central Pakistan to north Bangladesh across north Rajasthan, south Haryana, south Uttar Pradesh, Bihar & Sub-Himalayan West Bengal at 1.5 km above mean sea level persisted. On 21st May, it ran from cyclonic circulation over Punjab & neighbourhood to east Bangladesh across Haryana, north Madhya Pradesh, Jharkhand & Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level.

On 22nd May, 2025 the upper air cyclonic circulation over Northeast Assam & adjoining Arunachal Pradesh lay over northeast Assam between 1.5 & 3.1 km above mean sea level. On 23rd May, it persisted and was seen at 1.5km above mean sea level. On 26th May, an upper air cyclonic circulation lay over northeast Assam & neighbourhood at 3.1km above mean sea level. On 27th May, it was seen at 1.5 km above mean sea level. On 28th May, the well marked low Pressure area over Northwest Bay of Bengal off Odisha coast persisted. Associated cyclonic circulation extended upto 7.6 km above mean sea level tilting southwards with height. On 29th May, 2025 a trough ran from southeast Rajasthan to centre of Depression over Northwest Bay of Bengal off West Bengal-Bangladesh coasts across north Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal at 0.9 km above mean sea level. On 30th May, the trough from the cyclonic circulation over Punjab to the centre of Depression over Bangladesh across Haryana, cyclonic circulation over central parts of Uttar Pradesh, north Jharkhand at 0.9 km above mean sea level became less marked. On 31st May, a trough ran from northeast Uttar Pradesh to east Vidarbha at 0.9 km above mean sea level. On 1st June, a trough at mean sea level ran from central parts of East Uttar Pradesh to Arunachal Pradesh across central parts of Bihar, Sub-Himalayan West Bengal, central parts of Assam. On 02nd June, an upper air cyclonic circulation lay over east Bihar & neighbourhood at 1.5 km above mean sea level. On 03rd June, it lay over east Bihar at 0.9 km above mean sea level. The trough from East Uttar Pradesh to northeast Assam across central parts of Bihar, Sub-Himalayan West Bengal & Sikkim and Assam at 0.9 km above mean sea level became less marked. On 04th June, it became less marked and an upper air cyclonic circulation lay over North Bangladesh & neighbourhood at 0.9 km above mean sea level.

* Rainfall observed during the month:

During the month, the state as a whole received 369.9 mm (+28%) rainfall against its normal value 289.5 mm. Gangtok, Pakyong, Mangan, Namchi, Gyalshing & Soreng districts of Sikkim have received 513.6 mm(+7%), 264.2 mm (+19%), 449.7 mm(+57%), 219.0 mm(-1%), 157.2 mm(-26%) & 086.0 mm(-59%) rainfall respectively.

Rainfall observed during the Season:

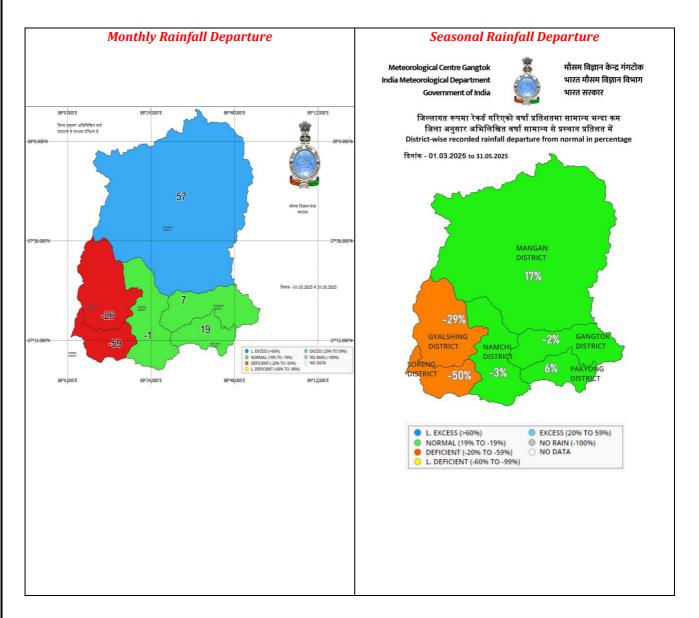
- During the Pre-Monsoon season 2025, the state has received 624.0 mm (+2%) rainfall against its normal value of 611.5 mm.
- During the Pre-Monsoon season 2025, Gangtok, Pakyong, Mangan, Namchi, Gyalshing & Soreng districts of Sikkim have received 900.3 mm(-2%), 430.0 mm (+6%), 745.6 mm(+17%), 390.8 mm(-3%), 272.9 mm(-29%) & 194.5 mm(-50%) rainfall respectively against their normal values 915.3 mm, 404.4 mm, 636.0 mm, 404.6 mm, 385.3 mm & 385.3 mm respectively.

> N.B. Pre-Monsoon season covers the period from March to May [3 (Three)] months.

4 District wise rainfall observed during the month and season (Tabular Form).

	Rainfall during the month of May 2025			Seasonal Rainfall Since 01-March-2025 to 31-May-2025 /मौसमी वर्षा 01- March-2025 से 31- May -2025 तक			
Name of the State/District	Actual (mm)	Normal (mm)	% dep. from normal	Actual (mm)/ वास्तविक (मिमी)	Normal (mm)/ सामान्य (मिमी)	% dep. from normal/ सामान्य से % विचलन	
Sikkim/ सिक्किम	369.9	289.5	+28	624	611.5	+2	
Mangan/ मंगन	449.7	285.9	+57	745.6	636	+17	
Gangtok/ गंगटोक	513.6	479.2	+7	900.3	915.3	-2	
Pakyong/ पाक्योंग	264.2	222.8	+19	430.0	404.4	+6	
Gyalshing/ गेजिंग	157.2	211.2	-26	272.9	385.3	-29	
Soreng/ सोरेंग	86	211.2	-59	194.5	385.3	-50	
Namchi/ नामची	219	221.8	-1	390.8	404.6	-3	





W District wise spatial distribution of Rainfall observed during the month:

Rainfall distribution over Sikkim

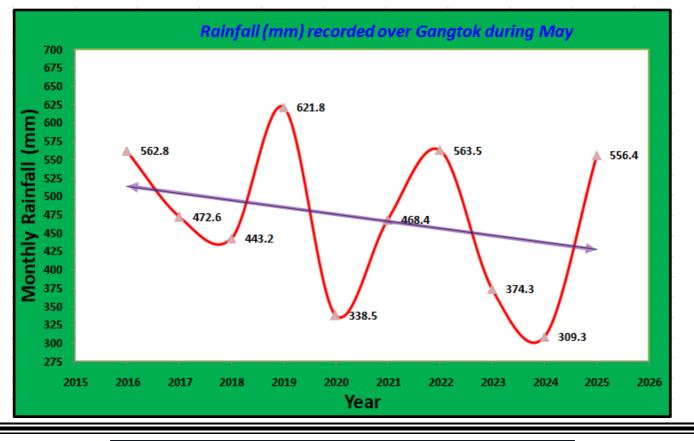
Distribution	Sikkim	Gangtok	Pakyong	Mangan	Namchi	Gyalshing	Soreng
Most Places	18	28	21	18	12	11	23
Many Places	9	0	2	7	11	12	0
Few Places	2	3	2	5	5	4	0
One or two Places	2	0	5	0	2	0	0
Dry	0	0	1	1	1	4	8

W District wise Intensity of Rainfall observed during the month is as follows:

	Gangtok	Pakyong	Mangan	Namchi	Gyalshing	Soreng	
Intensity	(No. of Occurrence s)						
Very Light	7	4	0	1	6	10	
Very Light to Light	4	4	7	9	8	0	
Light	10	6	5	12	3	11	
Very Light to Moderate	0	1	4	3	4	0	
Light to Moderate	1	6	8	4	3	0	
Moderate	7	8	2	0	2	1	
Very Light to Heavy	1	0	0	0	0	0	
Light to Heavy	0	0	1	1	0	0	
Moderate to Heavy	1	0	1	0	0	0	
Heavy	0	1	0	0	0	0	
Light to Very Heavy	0	0	1	0	0	0	
Moderate to Very Heavy	0	0	1	0	0	0	
Dry	0	1	1	1	5	9	

Rainfall intensity over Sikkim

W Rainfall recorded at M.O. Gangtok during the past 10 years in the month of May:



Temperature observed at Gangtok and Tadong:

- Maximum Temperature (Gangtok): Average Maximum Temperature recorded during the month was 21.4 °C against its normal value 21.5°C.
- Minimum Temperature (Gangtok): Average Minimum Temperature recorded during the month was 15.6 °C against its normal value 14.9 °C.
- Over Tadong, average Maximum Temperature during the month was 26.4°C against its normal value 26.5 °C whereas average Minimum Temperature was 17.9°C against its normal value 17.0 °C.

Station wise temperature observed during the month:

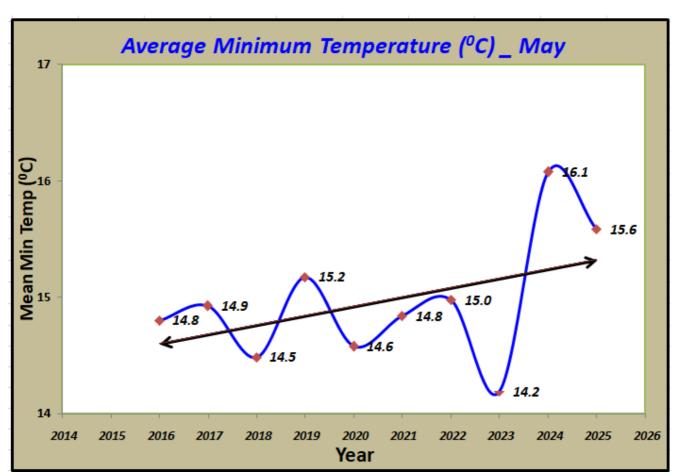
Name Of the Stations	District	Mean Max. Temp.(°C)	Mean Min. Temp.(°C)	Highest Max. Temp. (°C)	Lowest Min. Temp. (°C)
Gangtok		21.4	15.6	25.5	12.3
Tadong	East Sikkim	26.4	17.9	31.2	13.4
Pakyong		24.1	16.4	27.6	13.0
Mazitar		31.6	20.9	36.7	18.0
Mangan	North Sikkim	23.0	15.9	30.1	15.0
Namthang	South Sikkim	24.3	12.8	25.4	12.0
*Gyalshing	West Sikkim	24.9	11.5	25.4	9.8

* as per available data.

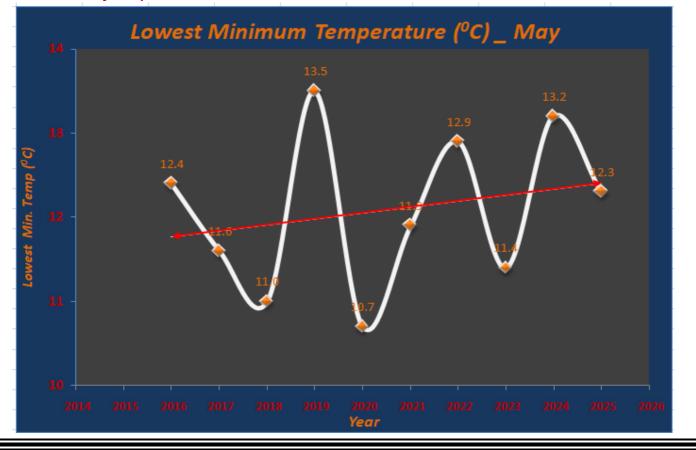
Temperature recorded at Gangtok during last 10 years in the month of May:

Year	Lowest Min. Temp (in ⁰ C)	Average Min. Temp (in ⁰ C)	Average Max. Temp (in ⁰ C)	Highest Max. Temp (in ⁰ C)
2016	12.4	14.8	21.1	25.4
2017	11.6	14.9	21.4	24.8
2018	11.0	14.5	20.4	23.8
2019	13.5	15.2	20.9	23.4
2020	10.7	14.6	20.1	23.5
2021	11.9	14.8	19.7	26.6
2022	12.9	15.0	21.0	24.1
2023	11.4	14.2	21.4	26.1
2024	13.2	16.1	22.3	26.8
2025	12.3	15.6	21.4	25.5
ALL TIME RECORD	6.6(05-05-1986)			26.9(28-05-1972 & 27-05-1976)

Trend of average Minimum Temperature recorded at Gangtok during last 10 years in the month of May:

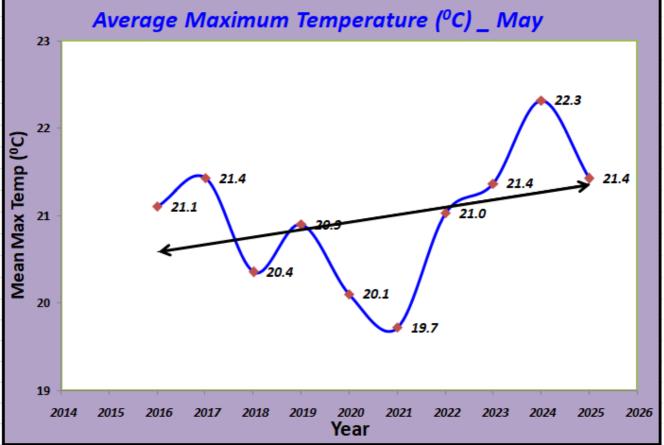


Trend of the lowest Minimum Temperature recorded at Gangtok during last 10 years in the month of May:

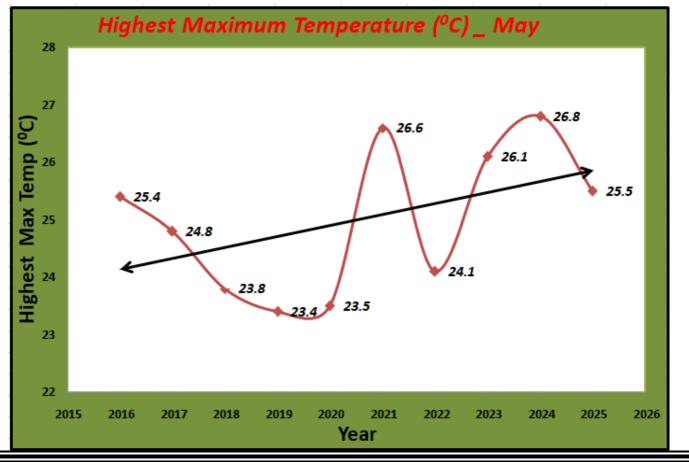


Weather information is also available through TOLL FREE No. 1800 220 161





Trend of the highest Maximum Temperature recorded at Gangtok during last 10 years in the month of May



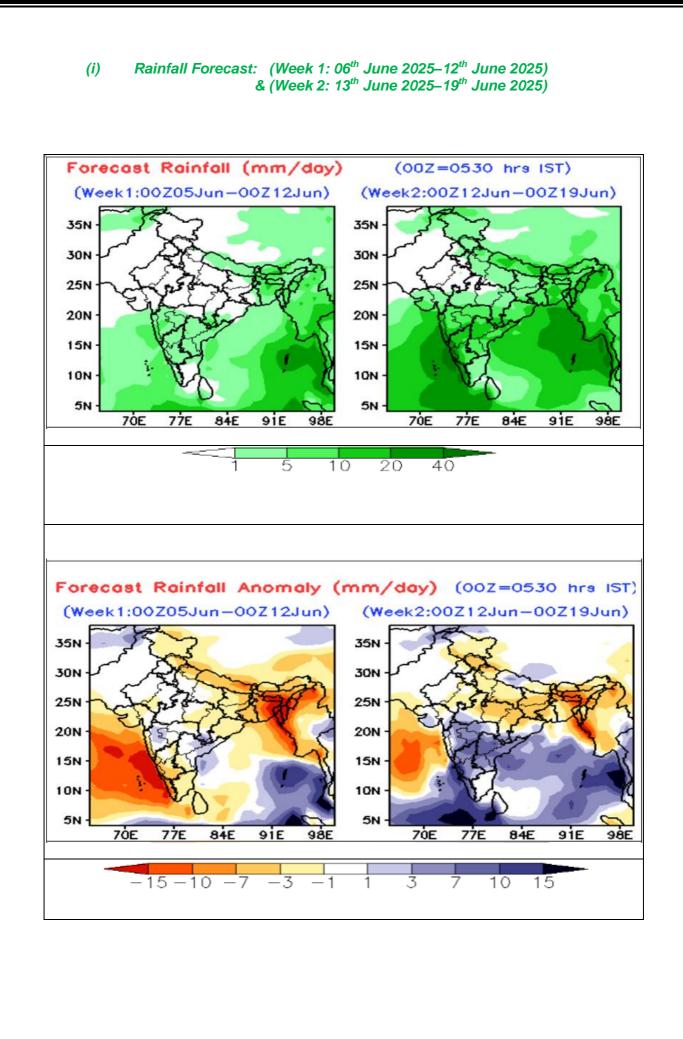
Bulletin/ Press Release issued:

- > During the month total 93 Weather Bulletins (thrice daily) were issued.
- Significant rainfall along with District wise distribution of rainfall, District wise average rainfall, etc. were disseminated through various social Media on regular basis.
- Special Weather bulletins/Press Releases were issued on Eighteen (18) occasions in connection with expected enhance rainfall and Thunderstorm activity/adverse weather.
- Statistics regarding realized/recorded rainfall over the state Sikkim during the month of May, 2025 were issued on daily basis and disseminated through various social media platforms.
- Video Capsules on 'Weekly Weather Review and Weather Forecast for subsequent Two weeks over Sikkim' in local language (Nepali) was uploaded on YouTube channel <u>https://www.youtube.com/channel/UC7sQt7nhdSsWDx45he85lyg</u> of M.C. Gangtok on regular basis. The same were also shared with the stakeholders/ media personnel/ NGOs etc through various social media platforms.

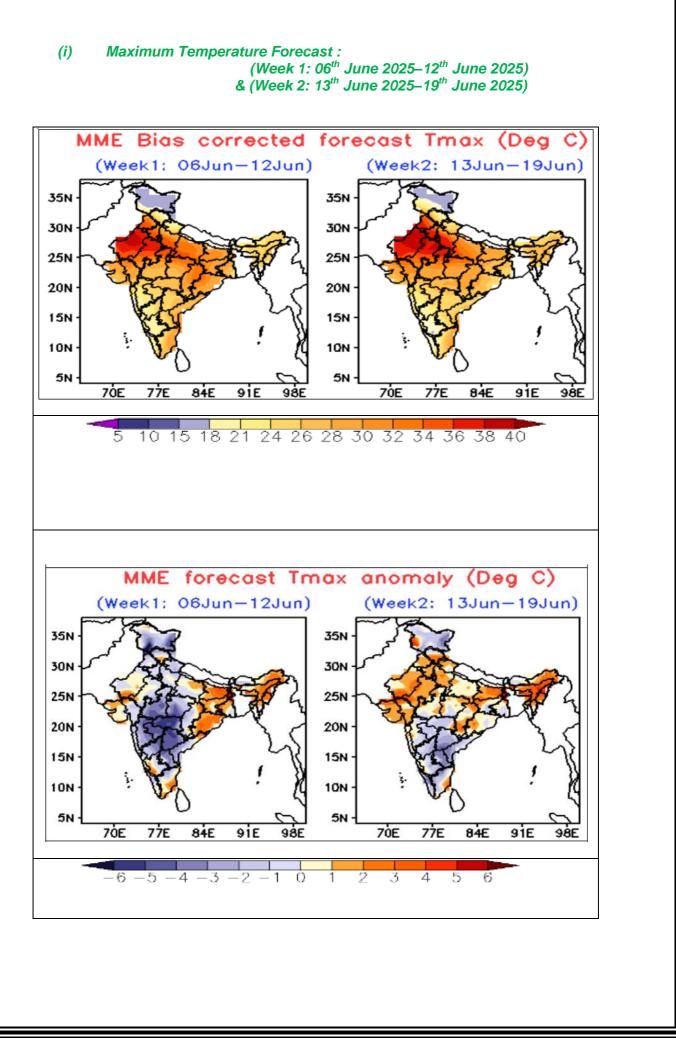
Forecast for the next two weeks

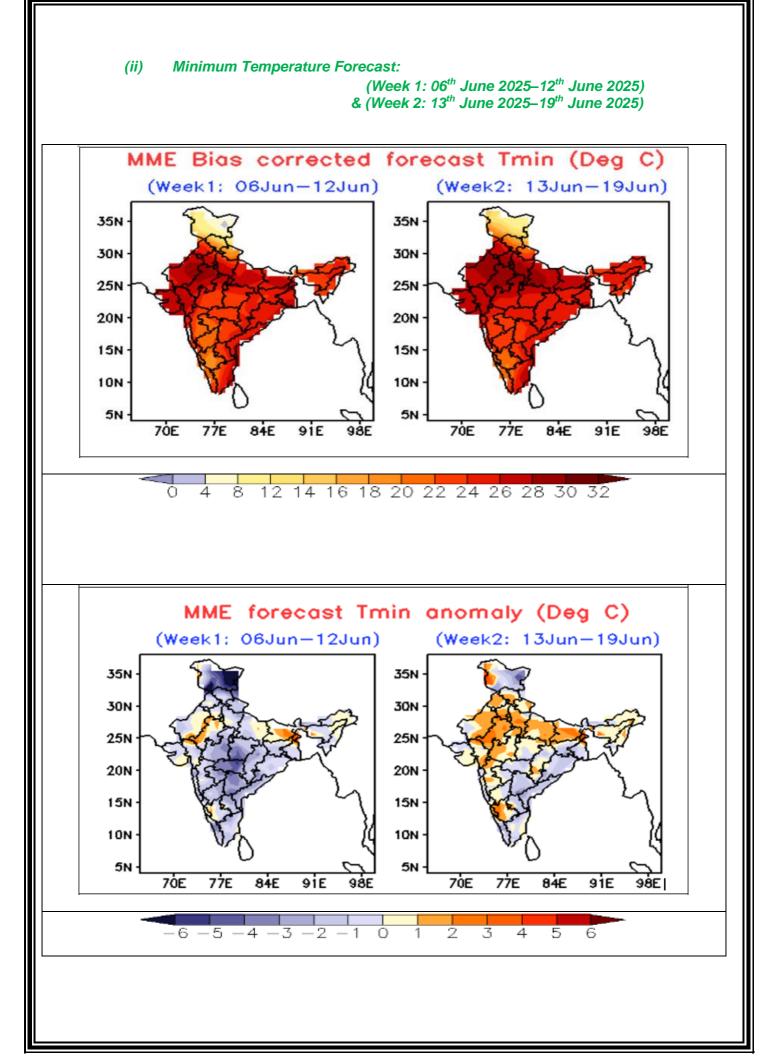
Under the influence of the present synoptic features, dynamical scenario and model guidance -

Week No.	Rainfall	Temperature
01 (06 th June 2025 - 12 th June 2025)	Below Normal rainfall over most parts of Sikkim.	T-max: Normal over most parts of Sikkim. T-min: Below Normal over most parts of Sikkim.
02 (13 th June 2025 - 19 th June 2025)	Below Normal rainfall over most parts of Sikkim.	T-max: Normal over most parts of Sikkim. T-min: Below Normal over many parts of Sikkim.



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LEGENDS:

	Probabilis	tic Forecast		
Terms	Probability of Occurrence (%)	Terms	Probability of Occurrence (%)	
Most Likely	>75	Very Likely	51-75	
Likely	25-50	Unlikely	<25	
	Dry: No station	n reported rainfall		
	Intensity	of Rainfall		
Very Light Ra	infall: Trace -002.4 mm	Light R	ain: 002.5-015.5 mm	
Moderate Ra	i nfall: 015.6-064.4 mm	Heavy Ra	infall: 064.5-115.5 mm	
Very Heavy R	ainfall: 115.6-204.4 mm	Extremely Heavy Rainfall: ≥204.5 mm		
	nfall : When the amount is a value neason. However, this term will be used		ed rainfall at or near the station for the ll amount exceeds 12 cm.	
	Spatial distrib	ution of Rainfall		
% of stations reporting	Category	% of stations reporting	Category	
76-100	Most places (Widespread)	51-75	Many places (Fairly widespread)	
26-50 Few places (Scattered)		01-25	Isolated places	
	Dry: No station	n reported rainfall		
	Wa	rning		
No WARN	NING (NO ACTION)	WATCH (Be updated)		
ALER	T (Keep vigil)	WARNING (Take action)		

<u>Next Report will be issued on the 01st week of July, 2025</u>

Meteorological Centre Gangtok, Sikkim

1. For detailed information please visit our website <u>https://mausam.imd.gov.in/gangtok/</u>and Facebook page <u>https://www.facebook.com/IMD.Gangtok/</u>

- 2. District wise nowcast for thunderstorm with lightning and wind will be issued one or two hours in advance through whatsapp/facebook/twitter and email as and when required.
- 3. Kindly use "Mausam App" for location specific weather forecast and weather warning, "Meghdoot App" for Agromet advisory and "Damini App" for Lightning warning.