



**Dated: 18.03.2020**

## **Winter Weather Report for Tripura during 2019-20**

During winter 2019-2020, the monthly average maximum temperatures (day temperatures) were much less than normal in the first two months (i.e. December 2019 and January 2020) but it increased during February 2020 and the mean value remained very close to normal during this month. Conversely, monthly mean minimum temperatures (night temperatures) were higher than normal during the December and January and lower during February. The number of fog events were higher than normal and in some occasions, fog cover remained over the state till afternoon, causing no sunlight and significant drop in day temperatures. The state also observed higher than normal rainfall during January, whereas rainfall remained below normal during December and February. Month wise brief weather summary for two stations of IMD in Tripura (Agartala and Kailashahar) for the season is prepared here.

### **December 2019**

Day temperatures remained normal to above normal during the first half of December, but moderate to dense fog over the state during the second half of the month brought the day temperatures down. The day temperatures remained below normal at Agartala consecutively for 11 days from 18<sup>th</sup> to 28<sup>th</sup> December. During this month, the maximum temperature at Agartala was less than 20°C for four days. The temperature recorded on 21<sup>st</sup> December (16.0°C) was the 3<sup>rd</sup> lowest maximum temperature over Agartala in the last 50 years. The minimum temperatures were normal to above normal for the whole month except for one day. During the last week of the month, light rainfall was observed on two days over the state.



Monthly average rainfall for the state during December 2019 was 3.8 mm, which was -67% from normal. Dense fog was observed on seven days at Agartala Airport during this month.

### **January 2020**

The monthly average maximum temperature (day temperature) during January 2020 was lower than the normal value by more than 1°C at both Agartala and Kailashahar, whereas the night temperatures were higher than normal. In case of individual days, the day temperatures were below normal (less than 1.5°C or more from normal) on 14 days at Agartala and on 13 days at Kailashahar during the month. On three occasions over Agartala and four occasions over Kailashahar, the day maximum temperature was below 20°C. Rainfall was observed on as many as nine days during this month, with monthly average rainfall for the state of 26.7 mm, against the normal value of 7.8 mm (+242% from normal). Dense fog was observed on eight days at Agartala Airport during this month. On 13<sup>th</sup> and 14<sup>th</sup> January dense fog prevailed for more than five hours over Agartala Airport.

### **February 2020**

During February 2020, the monthly average day temperature was close to normal value, but average night temperature was slightly less than normal. Number of foggy days was also less as compared to the last two months, with only two days of dense fog at Agartala Airport, but on 17<sup>th</sup> of this month, dense fog prevailed for six hours at Agartala Airport, which is the longest during this winter season. Light rainfall occurred on three days during this month in Tripura. The state observed average rainfall of only 1.4 mm during this month (-95% from normal).



## TABLES

**Table 1:** Mean monthly maximum and minimum temperatures and their departures from normal over Agartala during December 2019 – February 2020.

<b>AGARTALA</b>				
<b>Month</b>	<b>Maximum Temperatures (°C)</b>		<b>Minimum Temperatures (°C)</b>	
	<b>Monthly Mean</b>	<b>Departure from Normal</b>	<b>Monthly Mean</b>	<b>Departure from Normal</b>
<b>December '19</b>	25.4	-1.2	13.4	1.3
<b>January '20</b>	24.2	-1.0	12.4	1.9
<b>February '20</b>	28.1	-0.1	13.1	-0.8

**Table 2:** Mean monthly maximum and minimum temperatures and their departures from normal over Kailashahar during December 2019 – February 2020.

<b>KAILASHAHAR</b>				
<b>Month</b>	<b>Maximum Temperatures (°C)</b>		<b>Minimum Temperatures (°C)</b>	
	<b>Monthly Mean</b>	<b>Departure from Normal</b>	<b>Monthly Mean</b>	<b>Departure from Normal</b>
<b>December '19</b>	26.6	-0.4	12.7	0.6
<b>January '20</b>	25.5	-1.2	11.0	0.4
<b>February '20</b>	27.9	0.2	12.8	-0.5

**Table 3:** Month wise highest maximum and lowest minimum temperatures over Agartala and Kailashahar during December 2019 – February 2020.

<b>Month</b>	<b>AGARTALA</b>		<b>KAILASHAHAR</b>	
	<b>Max Temp (°C)</b>	<b>Min Temp (°C)</b>	<b>Max Temp (°C)</b>	<b>Min Temp (°C)</b>
<b>December '19</b>	<b>32.4</b>	<b>09.7</b>	<b>30.2</b>	<b>10.4</b>
<b>January '20</b>	<b>29.2</b>	<b>08.3</b>	<b>30.6</b>	<b>07.4</b>
<b>February '20</b>	<b>32.6</b>	<b>07.8</b>	<b>32.8</b>	<b>08.4</b>



**Table 4:** Month wise no. of days with maximum and minimum temperatures in the range of above normal, normal and below normal category at Agartala and Kailashahar during Dec 19 – Feb 20

Month	Category *	AGARTALA		KAILASHAHAR	
		Max Temp (No. of days)	Min Temp (No. of days)	Max Temp (No. of days)	Min Temp (No. of days)
December '19	Above Normal	6	8	7	7
	Normal	14	22	18	23
	Below Normal	11	1	6	1
January '20	Above Normal	4	17	4	11
	Normal	13	11	14	15
	Below Normal	14	3	13	5
February '20	Above Normal	4	5	5	4
	Normal	20	14	20	18
	Below Normal	5	10	4	7
Total	Above Normal	14	30	16	22
	Normal	47	47	52	56
	Below Normal	30	14	23	13

\* **Normal:** If temperature in the range -1.5 to +1.5°C from normal value

**Above normal:** If temperature departure from normal value is more than 1.5°C

**Below normal:** If temperature departure from normal value is more than -1.5°C

**Table 5:** Month wise number of days with dense fog less than or equal to 1 hours, 1 to 2 hours, 2 to 3 hours, more than 3 hours and total no of days with dense for at Agartala Airport during December 2019 – February 2020.

AGARTALA					
Month	No. of days with dense fog hours				Total no. of days with dense fog
	<= 1 hour	1-2 hours	2-3 hours	> 3 hours	
December '19	2	0	4	1	7
January '20	1	0	3	4	8
February '20	1	0	0	1	2

(Prepared by Meteorological Centre, Agartala, India Meteorological Department)

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