

## **GEOGRAPHICAL LOCATION AND GENERAL CLIMATIC FEATURE OF JORHAT (ASSAM)**

Jorhat is located at an altitude of 91.0 meters above MSL ( $26^{\circ}44'N$  and  $94^{\circ}10'E$ ). The locality being situated in the monsoon sub-tropical zone is characterized by hot and wet summer, and dry to cool winter. The soils of Jorhat are mostly alluvial with sandy loam texture and  $P^H$  varies from 4.8 to 5.8. Based on temperature, rainfall and humidity prevailing throughout the year in the locality, four district seasons can be identified: (a) pre-monsoon season (March to May) characterized by gradual rise in temperature, vanishing fog and occasionally becomes strong causing dust storm, (b) monsoon season (June to August) characterized by cloudy weather, heavy rain fall, high humidity and weak variable surface wind with rising temperature, August is the warmest month in the year, (c) post monsoon season (September to November) characterized by fair weather with fall of temperature and rainfall and (d) winter season (December to February) characterized by fall of temperature and scanty rainfall with occasional cool breeze from the north and morning fog.

The climate of Jorhat is characterized by much rainfall i.e., more than 2000 mm per annum and high average humidity (around 80%). The maximum temperature rises up to  $37.7^{\circ}C$  in June/July while the minimum drops down to  $5.5^{\circ}C$  in December/January. The average daily sunshine hours are 5.7.

*Annexure-II***Meteorological data at Jorhat, India from 2012 to 2013**

Year	Month	Temperature ( $^{\circ}\text{C}$ )		Relative Humidity (%)		Rainfall (mm)	
		Max.	Min.	Max.	Min.	Max.	Min.
2012	January	24.2	6.8	99.0	66.0	4.9	1.5
	February	28.7	6.8	88.0	72.4	600.5	2.5
	March	32.0	11.3	100.0	32.0	14.5	1.5
	April	34.5	16.1	100.0	80.2	83.0	0.5
	May	36.9	18.9	95.3	86.0	187.0	5.0
	June	35.9	23.2	100.0	72.0	7.5	1.0
	July	35.9	24.6	99.0	92.5	0.0	0.0
	August	36.5	24.3	99.0	84.2	124.0	13.0
	September	36.8	23.3	99.0	88.2	120.0	5.0
	October	33.3	25.2	100.0	79.5	0.0	0.0
	November	35.9	16.0	91.2	76.5	0.0	0.0
	December	27.6	5.5	90.0	71.5	0.0	0.0
2013	January	27.7	5.9	99.0	70.0	0.0	0.0
	February	31.8	6.9	80.7	53.6	4.0	0.5
	March	33.8	18.0	83.5	65.0	0.0	0.0
	April	34.2	19.3	99.0	36.6	49.0	3.0
	May	36.5	21.0	90.5	79.5	63.0	3.0
	June	37.7	26.3	90.0	76.0	9.0	0.0
	July	35.5	25.7	100.0	71.0	7.0	3.0
	August	36.8	24.0	99.0	42.0	189.0	12.0
	September	36.7	23.9	96.0	72.0	40.0	2.0
	October	33.3	20.7	99.0	58.0	49.0	4.0
	November	29.0	13.4	99.0	50.0	0.0	0.0
	December	28.1	9.7	99.0	58.0	0.0	0.0