



# DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU

## TEMPERATURE PROJECTIONS FOR KANCHIPURAM



### 4.1 About Kanchipuram

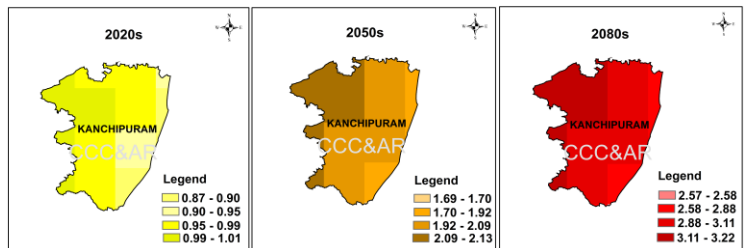
Kanchipuram district is situated on the northeast coast of Tamil Nadu. It is a temple city. It lies between 11° 00' to 12° 00' latitudes and 77° 28' to 78° 50' longitudes.<sup>1,2</sup> The district has a total geographical area of 4,43,210 hectares and a coastline of 57 km. The Palar river is the most important river running through the district. Through most of the year it remains dry, attributed to the construction of dams across the river in Andhra Pradesh. The total forest area in the district is 23,586 hectares.<sup>2</sup>

### 4.2 Climate of Kanchipuram

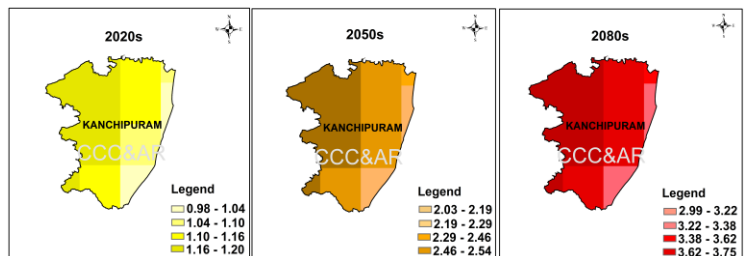
Kanchipuram district generally experiences hot and humid climatic conditions. The months between April and June are generally hot with temperatures going up to an average maximum of 36.6°C. In winter (December - January) the average minimum temperature is 19.8°C.<sup>2</sup>

### 4.3 Temperature Projections for Kanchipuram

The annual maximum and minimum temperature normal (1970-2000) of Kanchipuram district are 33.1°C and 23.7°C respectively.<sup>3</sup> Projections of maximum temperature over Kanchipuram for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of **0.9°C**, **2.0°C** and **3.0°C** respectively. Similarly, the projections of minimum temperature for the same periods with reference to the baseline (1970-2000) indicate an increase of **1.1°C**, **2.3°C** and **3.4°C** respectively.



**Fig 4.1** Changes in Max. Temperature for 2020s, 2050s & 2080s



**Fig 4.2** Changes in Min. Temperature for 2020s, 2050s & 2080s

**Table 4.1** Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+0.9°C	+2.0°C	+3.0°C
Minimum Temperature	+1.1°C	+2.3°C	+3.4°C

### 4.4 Key Findings

The average change of maximum and minimum temperature for Kanchipuram are expected to increase by **3.0°C** and **3.4°C** respectively by the end of the century.

### 4.5 References

1. [http://www.kanchi.nic.in/district\\_profile\\_pro.html](http://www.kanchi.nic.in/district_profile_pro.html)
2. ENVIS 2015. Kanchipuram District. ENVIS Centre Tamilnadu, Available at [tnevis.nic.in/files/KANCHIPURAM%20.pdf](http://tnevis.nic.in/files/KANCHIPURAM%20.pdf)
3. IMD, 2013. Temperature of Kanchipuram District. Regional Meteorological Centre, Chennai.