**SRM Institute of Science and Technology  
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**ANALYSIS OF THERMAL COMFORT INSIDE BUILDINGS WITH NATURAL VENTILATION AND SPLIT AIR- CONDITIONING DURING COVID -19 LOCKDOWN**

**ABSTRACT**

Analysis of thermal comfort inside buildings with natural ventilation and split air conditioning during COVID-19 lockdown aims to maximise the use of thermal comfort. The term "**Thermal comfort**" is a state of observance that expresses the satisfaction of human minds as they interact with the thermal environment and is measured by individual assessment. A human's **physiological** response and **psychological** response are both generated by thermal contact with the environment. This state is influenced by a number of elements, including the body's metabolic rate, the thermal resistance of the clothing worn, air temperature, relative humidity, air velocity, and the temperature of the surfaces, which vary depending on the building and its orientation. This research examines occupants' **thermal feelings and behaviour** in buildings with split air conditioners and those with natural ventilation. Participants in this survey ranged from well-experienced to local climate experts. Statistics on thermal comfort in various places are then analysed and taken into account. The result is compared with the **inhabitant’s satisfaction and dissatisfaction** with either naturally ventilated or centrally air-conditioned buildings.

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