

## **ABSTRACT**

The demand of power is expanding quickly so electric load forecasting has an incredible significance in this time. Load Predictions assists an electric utility to make decisions which includes buying and creating electric power, load exchanging, and Infrastructure development. The total power consumption in building is influenced by factors like temperature, humidity, behavioral pattern of the occupants, holidays etc. These factors are highly varying which in turn causes variations in total power consumption making the forecasting problem very changeling. The proposed technique is based on short term load forecasting. Hourly data of day has been recorded which contains input values like temperature, humidity etc. and error has been calculated which shows that results are too precise and accurate. This research explains different methods of electric load forecasting but Artificial Neural Networks are best to deal with it. This research compares the result with already designed fuzzy logic approach method as there are more error issues in fuzzy logic approach. In this work Artificial Neural networks are used Due to artificial neural techniques accurate predictions are made which can help in optimizing energy costs, load scheduling and addressing demand response.