

## Minimum temperature forecasting in Kathmandu

Mani R. Shakya

Keshav D. Shrestha

*Meteorological Forecasting Division*

*Department of Hydrology and Meteorology, Nepal*

### ABSTRACT:

Hazards of low temperature are recurring problem during winter season in Kathmandu. Prognosis of minimum temperature is thus, an important factor in taking strategic decisions especially in agriculture, aviation and daily lives of human beings: Hence a study has been conducted to assess day to day changes in minimum temperature in Kathmandu, during winter season for the months from December to February. Regression model is developed to forecast minimum temperature with knowledge of present day's minimum temperature and previous day's dry bulb and dew point temperature observed at 12:00 UTC. The result obtained shows that the highest percentage difference between the observed and forecasted minimum temperature lying in the range between (+1 to - 1.0) °C is 50.6 for the month of January.