

# **Production Potential of Advanced bidi Tobacco Lines under Different Levels of Nitrogen and Topping**

**S Jaffar Basha, J Manjunath and P Munirathnam**

Regional Agricultural Research Station, Nandyal, Kurnool 518 502

## **ABSTRACT**

A field experiment was conducted at Regional Agricultural Research Station, Nandyal during 2007-08 to find out the optimum level of topping and Nitrogen for the advanced breeding lines *viz.*, ABD 87, ABD 90 with check A 119 under two levels of topping *Viz.*, 14 and 16 to leaves stage and three levels of nitrogen (90,110,130 kg ha<sup>-1</sup>). The experiment was conducted in a split a split plot design with three replications. The soil of the experimental site was clay loam with pH of 9.06, low in available N (201 kg ha<sup>-1</sup>), high in available P (106 kg ha<sup>-1</sup>) and medium in available K (191 kg ha<sup>-1</sup>). The results of the study revealed that different advanced breeding lines (ABD 87 and ABD 90 with check variety A 119) and topping levels did not significantly influence the plant height where as increase in the N levels increased the plant height. Topping and N levels did not show significant difference in leaf length and leaf width. ABD 90 recorded significantly higher cured leaf yield than check A 119. The cured leaf yield did not show significant differences between the levels of topping and nitrogen. The percent of leaf chemical parameters like Nicotine, reducing sugars and chlorides were not significant due to different treatments.

**Key words :** Bidi tobacco, Cured leaf yield, Nitrogen, Topping.