Response of Nandyala Pogaku-1(NBD-119) Bidi Tobacco (*Nicotiana tabaccum L.*) to Nitrogen levels and Topping Under Rainfed conditions in Vertisols of Andhra Pradesh

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ABSTRACT

To study the response of Nandyal Pogaku -1(NBD-119) a newly released bidi tobacco variety to nitrogen levels and topping, an experiment was conducted for two *kharif* seasons (2014 – 15 and 2015 – 16) at Regional Agricultural Research station, Nandyal, Andhra Pradesh with three nitrogen levels i.e. 90 kg/ha,110 kg /hand 130 kg /ha and three topping stages i.e. 12 leaf,15 leaf and 18 leaf stage and two varieties viz Nandyala pogaku-1(NBD-119) and A-119 (local popular variety) in a split-split plot design, replicated thrice. The variety Nandyala pogaku-1(NBD-119) recorded significantly higher cured leaf yield (1816 kg/ha) than A-119 (1588 kg/ha) . Application of 130 kg nitrogen /ha recorded significantly higher cured leaf yield (1959 kg/ha). Topping at 18 leaf stage recorded significantly higher cured leaf yield (1991 kg/ha). Leaf quality parameter in terms of spangle score was significantly higher with Nandyala pogaku-1(NBD-119) (3.35) and decreased significantly when topping was performed at 15 and 18 leaf stage. Nicotine percentage and reducing sugars percentages were not influenced by different nitrogen levels as well as topping stages.

Key words: *Cured leaf yield, Nandyala pogaku-1(NBD-119), Nitrogen, Topping* .