



Effect of *Neem*, *Tulsi* turmeric and ginger powder as feed supplement on growth of broiler chicks in litter system

U. K. Shukla and Abhishek Kumar Mishra

ABSTRACT : The experiment was conducted at the Livestock Production and Management unit, MGCGV Chitrakoot - Satna M.P. To complete the research work following steps were followed. Day old 75 broiler chicks (DOC) of same hatch were produced and reared in Deep litter system. The chicks were weighed, leg banded and distributed randomly into five groups of 15 chicks each as treatment. Chicks of each treatment were further divided into three sub groups of five chicks in each in Randomized Block Design (RBD). Chicks of each sub group were accommodated comfortably in cage system providing 1 sq. ft./chick. Chicks were fed standard starter ration upto 2 weeks age (1 to 14 days) and then broiler finisher ration upto 2-4 weeks (22-28 days). An experiment was conducted with DOC to 75 broilers chicks divided into five groups T₀, T₁, T₂, T₃ and T₄ which were supplemented with turmeric powder @ 5.0g, 5.0g, 5.0g and 5.0g/kg of broiler ration, respectively. Weekly observations were recorded for live body weight, weekly gain in weight, weekly feed consumption and feed conversion of birds for four weeks. Based on the results of the experiment, it may be concluded that feed supplementation with Turmeric (*Curcuma longa*) powder influenced the body weight, gain in body weight, feed intake and feed efficiency of broiler chicks. Based on feed intake and feed efficiency (low feed intake and higher feed conversion ratio), economically best performance of broilers was obtained with T₃ (feed supplementation of 5 g turmeric powder with 1 kg standard ration), followed by T₄ (feed supplementation of 5 g ginger powder with 1 kg standard ration). Economically T₃ was superior over all other treatment and control.

KEY WORDS : Broiler chicks, Growth performance, Turmeric powder

HOW TO CITE THIS PAPER : Shukla, U.K. and Mishra, Abhishek Kumar (2019). Effect of *Neem*, *Tulsi* turmeric and ginger powder as feed supplement on growth of broiler chicks in litter system. *Res. J. Animal Hus. & Dairy Sci.*, 10(1) : 21-28 : DOI: 10.15740/HAS/RJAHDS/10.1/21-28. Copyright@ 2019: Hind Agri-Horticultural Society.

MEMBERS OF RESEARCH FORUM

Address for correspondence :

U.K. Shukla, Department of Natural Resource Management, Faculty of Agriculture, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, Satna (M.P.) India

Email : umeshdr2006@rediffmail.com

Associated Authors' :

Abhishek Kumar Mishra, Livestock Production and Management (unit), Department of Natural Resource Management, Faculty of Agriculture, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, Satna (M.P.) India

Email : abhishekmishr17@gmail.com
