



RESEARCH PAPER

Effect of feed supplementation through *Neem* (*Azadirachta indica*) tulsi (*Ocimum canctum*) and mentha (*Mentha piperita*) leaf powder on growth of broiler chicks

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Abstract : The experiment was conducted at the Livestock Production and management unit, Department of N.R.M Faculty of agriculture 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 Deep litter system providing 1sq. ft./ chick. Chicks were fed standard starter ration upto 2 weeks age (1 to14 days) and then broiler finisher ration upto 2 weeks (15-28 days). An experiment was conducted with DOC to 75 broilers chicks divided into five groups To T₁, T₂, T₃ and T₄ which were supplemented with *Neem*, *Tulsi*, *Mentha* powder @ 1.0g, 1.5g, 2.0g and 2.5g/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 result of the experiment, it may be concluded that feed supplementation with *Neem*, *Tulsi*, and *Mentha* powder significantly influenced the body weight, gain in body weight, feed intake and feed efficiency of broiler chicks. Based on feed intake and feed efficiency, the best performance of broilers was obtained with feed followed by 2.5g *Neem* 2.5g *Tulsi* 2.5g *Mentha* powder (T₄). Treatment T₃ was economically superior over all other treatments and control.

Key Words : Broiler chicks, Growth performance, *Neem*, *Tulsi*, *Mentha* powder

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