**ABSTRACTS**

EFFECT OF FERMENTED PALM KERNEL MEAL (FPKM) IN THE DIETS ON FECAL AMMONIA EMISSION AND PERFORMANCES OF LOCAL DUCK

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One of the most important environmental issue in poultry house is ammonia (NH3) due to it affects animal production, respiratory problems to farm animals and workers. So, mitigation in the farm should start from its precursor through into the diet. The aim of this experiment was to evaluate the effect of inclusion level of fermented palm kernel meal (FPKM) containning probiotic of local duck diets on fecal-ammonia emission, and performances of local ducks. Two hundreds day old duck (dod) of local duck were assigned in twenty five-floor pens in a curtain-side housed. The level of 0%, 25%, 30%, 35% and 40% FPKM containing probiotic were applied in the diets of local duck. Diets were isocaloric (3,000 kcal of ME/kg) with (20% CP), and water were provided ***ad libitum*** for the 6-wk trial. Experimental design used was Complete Randomized Design (CRD) consisting of four treatments with five replications. The ammonia concentration, pH, and moisture content of feces were measured after incubation for 24 and 48 hr. The results showed that the level up to 40% of FPKM in the diets had increased the live weight, body weight gain, and feed conversion of local ducks. Furthermore, the level 40% of FPKM was very effective to reduce the fecal-ammonia for 24 and 48 hours of measurement. The conclusion that the use of FPKM containning probiotic at level of up to 40% in the diets was no negative effect on the performances and was very efective in reducing of fecal ammonia of local ducks.

*Key words: Ammonia, Probiotic, FPKM, Local ducks*