

**B-141: Composition of some compounded poultry feed marketed in Sri Lanka**

Shubhashini Panchanatham<sup>1</sup>, S P Gunaratne<sup>2</sup>

(<sup>1</sup>*Dept of Animal Science, Faculty of Agriculture, University of Jaffna,* <sup>2</sup>*Animal Nutrition Division, Veterinary Research Institute, Gannoruwa, Peradeniya*)

In Sri Lanka several types of compounded animal feeds are produced and marketed by various private companies and poultry feeds constitute a major proportion of the feeds manufactured. Prima, Gold coin and New Bernard are the leading manufacturers of poultry feeds. No quality control was established to ensure the quality of these feeds.

Laboratory investigation of the five different poultry feeds (4 replications each) produced by these three leading manufacturers was carried out (according to AOAC method) to assess the nutritional quality of their products, at Veterinary Research Institute, Peradeniya. Laboratory analysis for Crude Protein (CP), Crude Fibre (CF), Ether Extract, Moisture, Total Ash, Calcium, Phosphorus, Gross Energy (GE) and Metabolizable Energy (ME) was carried out. The

analytical values were compared with the Sri Lanka Standards Institution Specifications (SLS) and the Declared Specifications of manufacturers.

The result revealed that the ME values of Prima feed were lower than declared levels, but it satisfied most of the SLS levels. Gold Coin did not satisfy the nutrient levels of CP in layer feed, CF in Broiler starter and Layer mash, and ME in all types of feeds. New Bernard showed deficiencies in ME, CP and CF in all types of feeds.

As GE analysis is faster than ME analysis, it was attempted to correlate the GE and ME by using simple correlation. However, it was found to be an insignificant relationship  $r=0.239$ . Multiple correlation between ME with proximate principles revealed a significant relationship only with CP. This study indicated an urgent need to introduce quality control procedures for the feeds manufactured in Sri Lanka.