

**RESEARCH PAPER**

## **Response in growth performance to compounded v/s homemade concentrate by Osmanabadi kids**

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### **ABSTRACT**

The quantitative aspects and palatability MAIDC manufactured kid concentrate ( $T_1$ ) was compared with homemade concentrate mixture prepared from locally available agricultural byproducts ( $T_2$ ). Nine weaned and growing kids in each treatment were fed homemade (control) concentrates along with required roughages for 98 days with a digestion trial conducted during last week. The observations on nutrient intake, body weight, linear body measurements and outgo of nutrient were recorded, and tabulated and subjected to statistical analysis. The mean live weight of kids under MAIDC ( $T_1$ ) and homemade concentrate ( $T_2$ ) feeding were significantly increased from 7.1 and 7.2 kg to 9.6 and 11.13 kg, respectively. The nutrient contents of two feeds showed the values of DM, CP, CF, NEE, EE and ash as 90.65, 18.00, 17.04, 49.16, 8.9, 6.9 per cent in MADIC feed and 91.86, 19.80, 8.01, 61.0, 9.11, 2.08 per cent, respectively in homemade concentrates. The difference between two treatments for final gain in height and for final body length of the kids was non significant. The difference between two treatments for final chest girth was also non significant. Period had significantly influenced the intake of water. The difference between the treatments for final feed intake of feed was significant indicating superior palatability of homemade over MADIC feeds. The digestibility coefficients for DM, CP, CF, EE and NFE of MADIC concentrates were 50.20, 75.56, 74.81, 86.71, 65.01 and the corresponding values for the homemade concentrates were 58.42, 72.72, 74.42, 82.60 and 66.57, respectively. The economics of feeding revealed that for one kg gain in body weight of Rs. 45.14 for MADIC and Rs. 40.42 for homemade concentrate were incurred. Feeding homemade concentrate mixture is always beneficial and can be recommended to the goat farmers.

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The goat justifies its designation as "the poor man's cow". The short generation interval of goat makes it possible to increase productive life more rapidly than cattle. Their small size and relatively low individual price bring them within the capacity of low income group. Rearing of larger animals like cattle and buffaloes is becoming more and more difficult every day. Smaller animals like goats, which have no specific demands, offer a benefiting economy in such situation in producing milk and meat.

With the rapid growth in population and perennial food shortage in the country, all available lands are now being brought under the cultivation and the result is a progressive shrinkage in grazing lands. Moreover, as the goat is a voracious eater and destroyer of vegetation indiscriminately, it would be advantageous if goats are stall fed like other farm stock. Goat displays a unique ability to adopt and maintain in harsh environmental conditions.

The Marathwada regions has an important goat

breed known as "Osmanabadi" mostly reared for meat purpose as the milk yield is very low. They are regular breeders in favourable conditions.

Government of Maharashtra has recently issued a circular to all the livestock based organizations requesting to purchase the compounded feed manufactured by Maharashtra Agro-Industrial Development Corporation (MAIDC). However, Government did not mention the quality aspect of such compounded feeds. No information is available on the qualitative aspects of kid starter. Hence, it is proposed to study feeding economics of grower ration and compare it with homemade concentrate mixture usually fed to growing kids with the following objectives to evaluate effect of kids starter (MADIC feed) on the growth performance of Osmanabadi kids, to evaluate nutrient digestibility of MAIDC feed (kid starter), to compare feeding cost of MAIDC feed with that of homemade concentrate mixture and to recommend proper concentrate mixture (kid starter) for kid feeding.