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School of Biomedical Engineering and Health Sciences

LOCAL FEED RESOURCES BASED TOTAL MIXED RATION (TMR) AS A COMPLETE FEED FOR PRE-WEANING LAMBS

Mira Panadi , Nor Dini Rusli , Khairiyah Mat , Rahman Abd Aziz

Faculty of Veterinary Medicine, Universiti Malaysia Kelantan, Jalan Padang Tembak, Pengkalan Chepa, 16100 Kota Bharu Kelantan.

01 | WHAT IS TMR?

TMR of complete feed

- Combination of forages, cereals/grain and supplements

Complete feed at pre-weaning stage

- Important for rumen development

02 | NOVELTY

First TMR for pre-weaning lamb in Malaysia

New formulation which consists of local raw materials

New replacement for conventional feeding

WHAT VALUE DO WE DELIVER TO CUSTOMERS?

03 | APPLICABILITY

SOLVING PROBLEMS IN INDUSTRY

BENEFIT

- Supply complete nutrients; energy, protein, minerals and vitamins
- Increase pre-weaning weight gain
- Cost-effective due to the use of variety of agro-industrial by-products
- Reduce risk of digestive upset and allow accuracy in diet

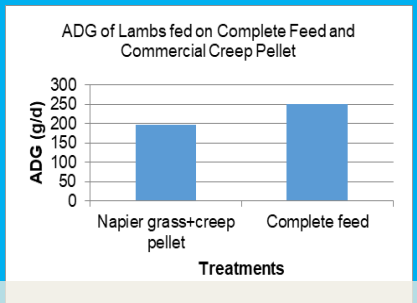
FEATURES

- Save time.
- High benefit-conversion ratio
- Low feed conversion ratio

Components	Composition
DM %	62
CP %	18
Ash %	7
CF %	21
EE %	5
NFE %	49
TDN %	71
ME (MJ/kg DM)	11

FINDINGS

- High dry matter intake (1.0 kg/d)
- High average daily gain (251g/d)
- High nutrient intake



04 | RESEARCH ACHIEVEMENT

03 PUBLICATION

Mira Panadi, Khairiyah Mat, Nor Dini Rusli, Rahman Abd Aziz. (2018). Evaluation of Local Feed Resources Based Total Mixed Ration on Weaning, Growth, Reproductive and Lactating Performance of Dorper Sheep. Research Innovation Seminar, UMK, 3-5 December 2018.

Mira Panadi, Khairiyah Mat, Nor Dini Rusli (2020). Effects of Varying Crude Protein Level on Nutrient Intake and Growth Performance of Pre-Weaning Dorper Lambs Fed on Creep Feed. Asian Australasian Journal of Animal Science (Submitted).

Mira Panadi, Khairiyah Mat, Nor Dini Rusli. (2020). Residual Feed Intake, Body Weight Gain and Cost Analysis of Creep Feed Fed on Dorper Lambs at Pre-Weaning Stage (To be submitted).

01 TALENTS DEVELOPMENT

- 1 PhD student

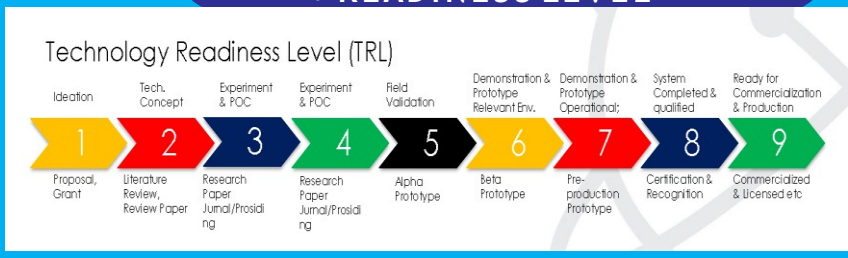
RM 90,000 RESEARCH FUND

Fundamental Research Grant Scheme (FRGS)-KPM

05 | BUSINESS PARTNER

- Agropolitan Besut Setiu Terengganu Farm, Setiu, Terengganu

06 | TECHNOLOGY READINESS LEVEL



07 | LEVEL OF IMPACT

PLANET The utilisation of agro-industrial by-products as raw materials can help to reduce pollution load from the environment.

INDUSTRY New TMR can fill the gap of nutrient deficiency in pre-weaning lamb, thus sheep industry will be improved.

PEOPLE TMR can improve performance of ruminants, thus increase the meat production. Ruminant livestock will become a driving force for food security and sustainable development.

PROFIT Reducing excessive importation of animal feeds, amounting RM 4.0 billion per year by utilizing locally available feed resources as ruminant feed

School of Biomedical Engineering and Health Sciences, Universiti Teknologi Malaysia 81310 Skudai, Johor.
Website : http://utm.my/ippc2022 Phone no: 07-5558518 Email: ippc2022@utm.my