UREA MOLASSES MINERALS BLOCK (UMMB)

AS FEED SUPPLEMENT FOR RUMINANTS
Introduction

The UMMB has established as feed supplement for ruminants by several feeding trial has conducted but FAO even in Bhutan.

In Bhutan the total numbers of improved cattle was 66223 and only 9053 Acers improved pasture is available (Live stock census 2010). To meet the requirement of roughage for 66223 improved cattle require, 99334 acres improved pasture, which deficit 91.1%. So the cattle raiser is compel to feed straw (very low quality roughage) especially during the dry season (winter) to sustain their cattle feeding.

Objectives

- Low cost feed supplements for Ruminants(local cattle, as well as improved cattle)
- Easy handling
- Palatability
- Compact

What is Urea Molasses Mineral Block?

The UMMB is a high protein concentrated feed in addition containing necessary amount of Carbohydrate, minerals and vitamins. The Urea supplies as protein to the Microbes and increase the population of microbes and thereby it maintenance rumen microbial environment which enhance the digestion of cellulous.

Ingredients

The ingredients used in making UMMB

- Molasses
- Urea
- Wheat
- Wheat bran
- Salt
- Calcium
- Sodium Bentonite (Binding agent)
- Trance Minerals and Vitamin

Procedure of Making UMMB

The manufacturing can be divided in four stages:

1. Formulation
2. Ingredients preparation
3. Pre-Mixing
4. Mixing in Molasses
5. Steaming
6. Molding
7. Drying
8. Packing

Quality Specification of Urea Molasses Mineral Block (UMMB)

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Characteristic</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>1</td>
<td>Moisture Max %</td>
<td>5.00</td>
</tr>
<tr>
<td>2</td>
<td>Crude Protein Min%</td>
<td>51.70</td>
</tr>
<tr>
<td>3</td>
<td>Crude Fiber Max%</td>
<td>2.00</td>
</tr>
<tr>
<td>4</td>
<td>Total Ash Min%</td>
<td>21.80</td>
</tr>
<tr>
<td>5</td>
<td>Sand &amp; Silica Max %</td>
<td>3.00</td>
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<tr>
<td>6</td>
<td>Calcium Max%</td>
<td>4.00</td>
</tr>
<tr>
<td>7</td>
<td>Phosphorus Min %</td>
<td>1.50</td>
</tr>
<tr>
<td>8</td>
<td>Sulphur Min %</td>
<td>1.00</td>
</tr>
<tr>
<td>9</td>
<td>Urea%</td>
<td>8-10</td>
</tr>
</tbody>
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Why supplement with Urea Molasses Block?

Ruminant diets are especially based on fibrous feeds, mainly pastures and crop residues like straw, maize. These feeds are imbalanced as they are deficient in protein, minerals and vitamins. Since they are highly lignified their digestibility is low and thus the UMMB will help the digestion of Lignin with the help of micro flora.
Satisfying the requirement of the rumen microorganisms to ensure efficient fermentation of fiber and increased production of microbial protein.

This micro flora will pass from rumen to abomasums and met the requirement of protein which in turn increase the milk, meat and wool production.

Feeding Molasses-Urea Block to Ruminants

1. Factors affecting the intake of blocks

The hardness of the block will affect its rate of intake. If it is soft, it may be rapidly consumed with the risk of urea toxicity. On the other hand if it is hard its intake may be limited.

2. Effects of intake of blocks on digestibility of straw and parameters of digestion

By feeding 100gms of UMMB will consumed 42 – 44.7 percent of straw in 24hrs. In dairy cattle the milk yield will increase around 2 litters by supplementing 500gms of UMMB per animal per day with production ration.

3. Feeding regime of UMMB on milk production

The feeding regime of UMMB is as such 500gms of UMMB as maintenance and addition 5 to 3.5kgs concentrate per day as a production ration.
Precautions while supplementing UMMB

- Fed strictly to ruminants only sheep, goats, cattle.
- Harmful to mono gastric animal i.e. horses, donkeys or pigs.
- Avoid to fed young ruminant less than six months of age (calf, kids and lambs)
- Blocks should fed as a feed supplement and not as the basic ration
- Never five blocks to a thin animal with empty stomach, there is risk of poisoning due to excessive consumption.
- The amount of UMMB blocks fed to sheep and goats should be limited to 100 grams/day
- The block should never be supplied in ground (powder) form or dissolved in water as this can result in over consumption resulted toxicities of urea
- Supply sufficient amount of water to avoid urea toxicity.
- Block should be fed as a lick
- The block should be introduced slowly and should fed forage in adequate quantity
- UMMB should not replace the entire concentrate feeding

Conclusion

- UMMB appears to be a simply way of improving the efficiency of utilization of fibrous feeds by ruminants
- UMMB have proven to be an excellent tool for the improvement of ruminant feeding
Thus

_Urea Molasses Minerals Blocks is a unique cost effective feeds supplement for ruminants which increase the intake of roughages and as a result increase the milk production._

The Karma Feeds has introduce UMMB (Urea Molasses Mineral Block) in the market @ Nu. 20.00/kg

**NOW THIS IS ABSOLUTELY YOUR PRODUCT**