

TITLE OF THE SUCCESS STORY – 07:

Augmentation in milk production and improving conception rate in cattle through bypass fat.

FARMER DETAILS :



Shri. Sundar Jalmi,
Kunkalye, Ponda, South Goa, Goa
Contact no. 7057071584

DETAILS OF SUCCESS STORY:

BACKGROUND:

Mr.Sundar Jalmi is a 50 year old tribal dairy farmer involve in dairy from last 6 years (September 2013) . He maintains both Holstein Frisian and Jersey cross breed cows, every year he has around 12-15 good yielding cows in his farm .Average milk yield of the animals is 10-12 litres a day. Shri. Sundar was very much satisfied with milk yield he used to get but he was not happy with the price of milk due to low fat percentage of HF crossbred animals i.e. 3.2-3.7 as dairy cooperative societies pay milk procurement rate based on fat percentage.

All the cows used to conceive regularly but late (4-5 months after delivery) than the standard period (2 -3 months after delivery). Delay in conception was due to stress on the animals i.e. generally up to 3-4 months after parturition , animals remains in negative energy balance due to different stress on the body such as loss of energy through calving , colostrum and high milk production. This type of predisposing factors of stress effects on reproduction of the animals hence animals conceive late. So the delay in conception and low fat percentage in the milk were two big problems for the farmer.

Shri. Sundar got training on "feeding of bypass fat" under, Agricultural Skill Council Of India training on "Dairy Farmer- Entrepreneurship " from ICAR- Krishi Vigyan Kendra, North Goa, ICAR –CCARI Goa in the year 2018 . After the training, he started giving bypass fat to his crossbred HF cows and found that his two big problems were no longer faced by him.

INTERVENTION PROCESS:

Bypass fat was fed along with other normal feed and fodder to five recently calved HF crossbred cows. Bypass fat was fed @ 100 grams / 10 litre of milk production for a period of 3.3 months. Fat and milk yield is recorded for this period.

INTERVENTION TECHNOLOGY:

Bypass fat technology is developed by ICAR CCARI Old Goa. Bypass fat should be feed @ 10-20 gram per litre of milk yield from 15 days before calving to 90 days after calving.

IMPACT HORIZONTAL SPREAD:

Other 10 farmers started to feed bypass fat feed supplement to their cows.

IMPACT ECONOMIC GAINS:

As price of the 1 kilogram bypass fat is 100 rupees. Farmer spent total of Rs. 1000 for purchase of 10 kilo Bypass Fat feed supplement. Bypass fat was fed @ 10 gram / lit of milk yield. It was seen that 10.99 % milk yield increased and 12.75% fat percentage increased from 3.72% to 4.2 %.

Total of 1153 litres of milk was recorded in check while in demo group it was 1280 litres milk. Shri. Sunder got average 127 litres more milk with an additional net income of Rs. 6709 /- per animal for the period of 3.3 months and all the five cows of demo group conceived within 3 months.

IMPACT ON EMPLOYMENT GENERATION:

By feeding of bypass fat to dairy cattle, Shri Sunder is getting extra income of Rs. 6709 per lactation hence any farmer if he maintains 10 cows and feed bypass fat to them then he can get additional of Rs 67,090/- per year. If we convert this in employment, he is generating 1 Employment sufficient for 5.5 months for maintaining of 10 animals. On an average Rs. 12,000 / labour is charged for maintenance of 10 cows / month.

GLIMPSES OF SUCCESS:

