

Ongoing Efforts of NDRI in Discovering New Clones of Milch Animals in India

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TEJAS is a new clone of Murrah buffalo for high milk yield by NDRI, Karnal. In the last ten years, 16 clones of buffaloes have been developed by NDRI.

Recently National Dairy Research Institute, Karnal has developed a male calf TEJAS by using hand guided cloning technology. Tejas is a clone of high yield buffalo. NDRI was working on the cloning technology from a long time period in year 2009 they developed first female buffalo calf Garima which gave birth to normal birth. NDRI is working effectively to enhance the milk yield and the economical condition of farmers. By developing new breeds of milch animals the feed conversion ratio and the production of milk will be affected. If we talk about buffalo then, they are known to be more efficient converters of poor quality of roughage and crop residue into a valuable milk output. Dairy farmers get double access from getting paid for various milk constituents that are Fat and SNF percentage in milk. Fat composition in milk of Buffalo (7.4g /100g) is higher than that of cow (3.9g/100g) . India ranks first in milk production across the world with production record 187.7 MT the milk production by buffalo is much more higher 61 MT than the cow 44 MT this is because our country is having hot and humid climate condition and specially water buffalo has inherent ability to thrive under adverse climate condition .

The present condition of the cloning technology in India needs to rise up because the clone are developed by collecting the cell sample from milk, urine, blood, ear and semen .And in upcoming year 140 million doses of semen will be required and the current availability is only 85 million doses. The deterioration of these discoveries starts from the unawareness and lack of knowledge about the availability of better breed among the dairy farmers. India needs to explore the various aspects of dairy sector and needs to introduce the various new breeds

of milch animals to the dairy farmers for their better economic condition and to provide high nutrition milk to the people of the country as Tejas will set a mark in milk production in India in future.

