

of dairy industry in the country. substantiate.

Cow and dairy products have its roots in our culture right from ancient times. Thanks to Operation Flood India has become Dairy deficient to sufficient state over decades.

India produces 22% of world's milk production, much of it are used for consumption. India has not able to become a export nation.

Technology boon:

- Indigenous cows yield  $\approx 3$  kg milk per day whereas cross breed yield  $\approx 8$  kg milk per day.
- Cross breeds are capable of increasing many folds.
- Techniques involved
  - ① In vitro fertilization
  - ② Embryo transfer
  - ③ Artificial Insemination.

- Government has launched National Artificial Insemination program to use the technology for benefit
- This is capable of enhancing yield of 1,099 kg per year to 3,000 kg per year. from cross breeds.
- Issue with Artificial Insemination is it requires finding heat and timely transfer.
- In vitro fertilization has other promising benefits - its efficiency is quite higher.
- It requires investment & infrastructure

India has wants to double farmers income it can achieve it by leveraging this opportunity.