

- Q. The approval of GM mustard in India is a watershed moment demonstrating country's confidence in using modern technology in agriculture. Discuss.
- ↳ Genetically modified crops.
GM crops are plants used in Agriculture, the DNA of which has been modified using genetic engineering techniques
- ↳ GM mustard.
The approval of GM mustard in India is a watershed moment. It is the first GM food crop to be approved in India demonstrating country's confidence using Modern technology in Agriculture.
- ↳ India imports 60% of edible oil, there is urgent need to increase yields of oilseed crops like Mustard.
- ↳ Mustard grown 75 lakh ha/year.
- ↳ Mustard are self-pollinated crop with difficult flower structure, and their production is difficult. so plant breeders creating a new hybrids.
- ↳ New hybrid.
- Barnase (sterility) → Pure parent line
- Barstar (Restoring fertility) → Avoiding Contamination with other lines
- Bar (Herbicide tolerance)
- This technology will now made available to plant breeders in public & private sectors lead to

Significant Improvement.

→ Regulation

↳ Developed by DU Scientist → Trials

↳ GEAC recommended ← Report ← GEAC in 2015
Its approval to minister in 2016
in 2017.

↓
More trials, study
Effect of honeybees → GEAC Approved
Commercial release of
this technology - 2022.

→ Safety

↳ So far more than trillion meals with GM
foods are consumed in the world and no
adverse effect on health is reported.

↳ Indians have been consuming imported
GM oil for more than a decade and there has
not a single report of any health issue.

↳ Conclusion

we should welcome the introduction of
GM mustard, show confidence in adopting modern
technologies in agriculture.

This is for the benefit of our farmers
and consumers.