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(1) Investment in research on agricultural sector delivers higher returns than any other form of support to farmers in the country?

Introduction -

Govt should invest more in agricultural R&D for ensuring food security & environmental sustainability as climate change & (↑) population ^{factors} pushes for modernized agriculture.

R&D in agriculture till now in India

(1) according to data, India's R&D expenditure in agriculture is [0.6-0.7%]
where USA - 2.8%, CHN - 2.1%, ISR - 4.2%,
S.Korea - 4.8%.

(2) with 27,500 scientists & 1 lakh+ supporting staff in agricultural research makes it probably the largest research system in world

(3) India's agricultural GDP to

R&D is merely 0.31% where CHN has 0.62%. So, were still below in all factors.

(4) So, far Indian govt has laid out well network of research institute on agriculture but lack of financial support.

Why investment in research on agricultural sector?

→ The returns ^{on} [agri sector] yields better than others

(eg) (0.11.2) , fertilizer subsidy - (0.33), education (0.47).

→ Due to rising population, india should feed 1.63 Billion mouth by 2050, therefore it needs modernization in agriculture while cultivable lands are shrinking due to urbanization.

→ R&D has the capability to meet the (17) SDG goals target by 2030.

→ In line with current PM's vision of doubling farmers income by 2022, R&D will be a potential step to meet this requirement.

→ fortunately, indian agriculture filled with plenty of skilled human resources so, its a right time to (P) our spending on [agri RSD]

Factors pushing for immediate RSD :-

- ① Climate change - Use of biotechnology can reduce vulnerability of crops to environmental change & fertilizers ^{overdependence}
- ② Farmer distress - could reduce supply-side constraints from farmers thereby offering long-term solutions for Indian Agri.
- ③ Food security - investment in RSD would help create more seeds & productivity, due to rising population in turn ensuring India's food security.

④ Efficient water management - Area-specific RSD on irrigation technologies can play an important role in raising farmer's income.

Conclusion - As half of the Indian population depend on agriculture, investment in (RSD) on agriculture is need at the moment.