

UPSC

Candidate must adhere to the word limit specified in the question.
Any page or portion of the page left blank must be clearly struck off.

इस हाशिए
में केवल
प्रश्न संख्या
लिखें।
Only write
question
number in
this margin

2. How the country can be atmanirbhar in food, even in face of adverse climate change? Explain.

October 16 is celebrated as world food day.
world food prize is awarded on this day.

Cynthia Rosenzweig received award for modelling
climate change & impact on food production

Need for climate adaptation

1. Agriculture is affecting from effect of climate change
eg: vagaries of Monsoon, changing monsoon pattern
2. Agriculture contributes to 18% of GHG emission
according to IN AAC report

There is a need to revamp on policies to
mitigate GHG emission. Achieving Net zero
will provide additional 10 bn to feed.

India's case

1. India's expenditure on agriculture combined,
central and state - 0.6% GDP

2. There is a need to increase allocation. Minimum
possible level 1.5-2% of GDP

इस हासिए में केवल प्रश्न संख्या लिखें।
Only write question number in this margin.

उम्मीदवारों को इस हासिए में नहीं लिखना चाहिए।
Candidates must not write on this margin.

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① High R&D Spending

Budget for agri = 28000 cr.
but ₹ 1.45L to subsidies

(Agri R&D) will provide 5-10%
at Reliance on Investment

Increasing finance.

Green financing ③

Financing from Financial Institution eg: NABARD

Farm protection fund

Blended finance ④

(Public + private) eg:

Sovereign green bonds
to increase green infrastructure
and capacity building in agri

② Funding small farmers.

≈ 1.7% funding coverage

Reaching small farmers
need to increase awareness
and climate resilient agri practices

Social change

Need for change in behaviour, as business
as usual approach won't help.

Technology and policy

Policies must incentivise the people to
see the change that ^{the} way we want

Technologies are sprinting while policies
are lagging.

Increased focus on R&D will ~~ens~~ address
and climate crisis and food security. Increasing
finances, comprehensive approach will ensure
sustainability in Food sector.