

## UPSC

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question  
number in  
this marginCandidate must adhere to the word limit specified in the question.  
Any page or portion of the page left blank must be clearly struck off.उम्मीदवारों को  
इस हार्डिप में  
नहीं लिखना  
चाहिए।  
Candidates  
must not  
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this margin.

1. Farm mechanization holds key for sustainable and efficient development of Indian agriculture and rural economy. Analyse.

Usage of agricultural machinery for mechanisation of agricultural work - is Farm Mechanisation.

Level - Farm mechanisation.

India - overall (40-45%) - Farm mechanisation.  
usage  $\left\{ \begin{array}{l} \text{very high usage - Punjab, U.P., Haryana.} \\ \text{Low - North East.} \end{array} \right.$

Gov Significance.

1. Optimise the Land usage & input requirements
2. Improve agricultural productivity and enhance farmers income
3. One of key drivers of sustainable development
4. Attracts youth for agriculture in rural areas

Government Initiatives

1. Sub mission on Agriculture mechanisation by M/o AFW

Subsidy for Farm machineries - 40-50% for states and  
60% for North East

2. Custom Hiring Centres' mobile app by M/o AFW

Positive outcome

India - largest tractor industry in the world - 80%  
global contribution.

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## Concerns

1. Mechanisation mostly skewed toward land preparation
2. other activities done with minimal equipment/manual labour
3. Geographical variation  $\left\{ \begin{array}{l} \text{North India} \\ \text{North East} \end{array} \right.$

## Measures

1. Make Indian Farm mechanization self-reliant, with domestic production (Atmanirbhar)
2. 'Atmanirbhar Kishi' - empowers farmers as technology driven.
3. Domestic mechanisation - addresses diminishing agri labours
4. Government Reform - Indigenous R&D and crop specific mechanisation
5. Restrict imports - FY2021 - 148.1 qntrs in imports (63.1 from china)  
↓  
(70% - crawler)  
(60-70% → rice transplanter)
6. PLI - for farm mechanisation (tractors, farm machinery)  
'need for 'mechanisation' not 'fractionisation'
7. Subsidy must be prioritise by distinguishing domestically designed & made agri machinery from foreign made.  
Farm mechanisation has potential to become ₹100 bn plus industry and also realise dream of 'Atmanirbhar' in farming sector