

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURAL RESEARCH & EDUCATION

LOK SABHA
UNSTARRED QUESTION NO. 393
TO BE ANSWERED ON 19th July, 2022

NEW TECHNOLOGIES IN AGRICULTURE

393. SHRI KRIPANATH MALLAH:

Will the Minister of AGRICULTURE AND FARMERS WELFARE
कृषि और किसान कल्याण मंत्री be pleased to state:

- (a) whether the Government is focusing to bring new technology to the farmers at lowest cost especially in North East Region;
- (b) if so, the details thereof;
- (c) the details of the funds likely to be sanctioned for this purpose and the details of the target set, if any; and
- (d) the time by which it is likely to be implemented?

ANSWER

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE
कृषि और किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

(a) & (b): Yes Sir, Indian Council of Agricultural Research (ICAR) has developed many cost-effective technologies for the farmers of the North-East Region. List of improved technologies/ machines/ processes/ products developed for the North-East Region during last three years is enclosed as **Annexure-I**. The technologies are disseminated to the farmers through Krishi Vigyan Kendras (KVKs) and other government supported programmes. During the last eight years (2014-2021), a total of 196 varieties have been released for NE States, out of which 117 are of Cereals comprising 55 of Rice, 21 of Wheat, 36 of Maize, 3 of Barley and 1 each of Little Millet and finger Millet; 20 are of Oilseeds comprising 7 of Soybean, 4 of Groundnut, 3 of Toria, 1 of Niger and Sesame, 2 of Linseed and 2 of Indian Mustard; 18 are of Pulses comprising 3 Chickpea, 2 of Pigeonpea, 1 each of Cowpea, Lentil and Rajmash, 3 of Urd bean, 5 of Mung bean and 2 of Field Pea; 21 are of Fiber comprising 14 of Jute, 5 of Kenaf, 1 each of Ramie and Mesta; 14 are of Forages comprising 5 of Oat, 2 each of Fodder Cowpea, Rice bean and Bajra Napier Hybrid; 1 each of Guinea grass, Bundel Bajra Squamulatum hybrid and Forage Sorghum and 6 of Sugarcane.

(c) & (d): During 2022-2023, ICAR has allocated funds of Rs 199.58 crore for research on development of new technologies which are relevant to the Northeast region. Similarly, Sub Mission on Agricultural Mechanization (SMAM) scheme of Department of Agriculture & Farmers Welfare (DA&FW) is operational for the region with a budgetary provision of Rs. 844.38 crore. The scheme supports farm mechanization in the region.

[Part (a) & (b) of Unstarred Question no. 393 to be answered on 19th July, 2022]

Improved Technologies/machine/process protocols developed for North East Region during last three years

Technology/Machinery developed

1. Bamboo frame Rain Shelter cultivation of strawberry
2. Low cost bamboo poly house for vegetable cultivation
3. Rain Water Harvesting (RWH) Technology
4. Development of package of practice for Asparagus (*Asparagus officinalis*)
5. Development of low cost naturally ventilated polyhouse
6. Development of package of practice for off season organic capsicum cultivation
7. Storage structure for green gram and paddy for high moisture environment
8. Control of *Sitophilus oryzae* and *Callosobruchus chinensis* by using visual stimuli
9. Development of storage bin including pheromones concept, visually stimuli aspect, moisture absorbant and heating system by using solar panel for storage of food grains.
10. Peeling machine of *Perkia speciosa*/ burghii (local Yongchak)
11. Pineapple peeler cum slicer
12. Pineapple quarter cutting machine
13. Pineapple leaf fibre extraction machine
14. Environment controlled storage structure with colour and pheromone trapping for test insects
15. Areca Nut peeling tool
16. Design and development of a cold plasma generator for microbial decontamination of some minor fruits of NE India
17. Foot pedal operated meat mincer
18. Poultry processing cum by-product collection unit
19. Mobile pork cutting, Display Cum Selling Unit

Process/products protocol developed

1. Extraction of pigment from black scented rice (local Chak-hao)
2. Pectin from pineapple waste viz, peel, core and pomace
3. Formulation of spinach, Mustard greens and fermented bamboo shoot based curry powder for ethnic cuisines of North East India
4. Silage from pineapple waste
