

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

LOK SABHA
UNSTARRED QUESTION NO. 3240
TO BE ANSWERED ON 16/03/2021

PRODUCTION OF BREEDER SEED

3240. SHRI ARVIND GANPAT SAWANT:
SHRI GAJANAN KIRTIKAR:
SHRI DHANUSH M. KUMAR:
SHRI SELVAM G.:
SHRI C.N. ANNADURAI:
SHRI GAUTHAM SIGAMANI PON:

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

- (a) whether Indian Council of Agricultural Research (ICAR) is undertaking production of breeder seed to make available quality seed to farmers and if so, the quantity of breeder seeds produced during each of the last three years and the current year;
- (b) whether ICAR has carried out research and developed several flood and drought tolerant varieties of rice for cultivation in disaster-prone areas;
- (c) if so, the details thereof and the steps taken by the Government for smooth availability of new rice varieties;
- (d) whether there is any difference in cost of production between the new varieties and the already available old varieties of rice and if so, the details thereof; and
- (e) the steps taken by the Government to promote the new varieties of flood and drought tolerant rice?

A N S W E R

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

- (a) Yes, ICAR is taking up breeder seed production of more than 1300 field crop varieties of more than 50 crops annually. Total 393904.61 q breeder seed has been produced during last four years viz., 118665.80 q (2017-18), 117771.70 q (2018-19), 116573.31 q (2019-20) and 40893.80 q (upto kharif 2020-21).

(b) & (c): Yes, since 2014, 25 flood/water submergence tolerant and 37 drought tolerant varieties of rice have been released for cultivation in various disaster-prone areas of the country (*Annexure-I*). These varieties have been put in breeder seed production chain for downstream multiplication of foundation and certified seed by the various public and private seed production agencies. Forty five centres of All India Coordinated Rice Research Project located across the country in ICAR Institutes and State/Central Agricultural Universities are involved in varietal improvement programme and seed production. All India Coordinated Research Project on National Seed Project (Crops) through its 41 centres across the country cater the requirement of breeder seed. ICAR-Seed Project is producing the quality seed of different crop varieties including rice through its 63 centres across the country.

(d) No, Sir.

(e) All India Coordinated Research Project on Rice through its 45 centres located across the country are involved in the transfer of technologies to the farmers through Front Line Demonstrations, Field days, Farmers field visits, Kisan Melas, and Farmers training programmes. During last three years more than 2000 frontline demonstrations of rice varieties and improved technologies including flood and drought tolerant varieties in more than 18 states have been conducted. More than 1500 q breeder seed of these varieties has been produced and used for production of foundation and certified seed for distribution to farmers during past four years. These varieties are also promoted through the various schemes of central/state governments like cluster demonstrations, mini-kits and also part of contingency crop planning of disaster-prone areas.

**Flood/water submergence and drought tolerant varieties of
rice developed during 2014 to 2021**

Flood/Water submergence tolerant varieties	Drought tolerant varieties
<ol style="list-style-type: none"> 1. CR Dhan 505; 2. Samba Sub-1 (IET 21248); 3. Tanmayee (OR2339-8) (IET20262); 4. CR 1009 Sub 1; 5. CR Dhan 508 (IET 23601); 6. Bheema (Dheera) (MTU 1140); 7. Rajdeep CN 1039-9 (IET 17713) (CNR 4); 8. CR Dhan 506 (IET 23053); 9. CR Dhan 408 (IET 20265) Chakaakhi; 10. CR Dhan 507 (IET 22986); 11. CR Dhan 409 (IET 23110); 12. CO 43 Sub-1 (IET 25676); 13. DRR Dhan 50 (IET 25671); 14. Bahadur Sub-1; 15. Ranjit Sub-1; 16. Ashutosh (OR 2331-14) (IET 21341); 17. Tripura Jala -1; 18. CR Dhan 801 (IET 25667) (IR 96322-34-223-B-1-1-1-CR3955-2); 19. CR Dhan 510 (IET 23895) (CR2593-1-1-1-1); 20. Ksheera (IET 24495) (MTU 1172); 21. CR Dhan 802 (Subhas) (IET 25673) (CR3925-22-7); 22. CAU-R4 (Eenotphou) (IET 22469) 23. IR 64 – Sub 1 (IET 21247) 24. NDR 9930111 (IET 19117) 25. Sabour Sampanna Dhan (IET 25960) 	<ol style="list-style-type: none"> 1. IR-64 Drt I (IET 22836) 2. Birsa Vikas Dhan 111 3. Birsa Vikas Dhan 203 4. Sabour Shree (RAU 724-48-33) 5. Kalachampa 6. DRR Dhan 44 (IET 22081) 7. DRR Dhan 43 (IET 22080) 8. ADV 8301 (IET22410) Hybrid 9. CR Dhan 101 (Ankit) (IET 21627) 10. DRR Dhan 46 11. JRH 19 Hybrid 12. PAC 129 (Arize 6129) Hybrid 13. BS 129G (Arize 6129 Gold) Hybrid 14. Nandyala Sona (IET 23715) 15. Daksha (KMP-175) 16. DRR Dhan 50 (IET 25671) 17. DRR Dhan 47 18. CAU-RI (IET 23544) 19. Him Palam Lal Dhan-1 20. Tripura Hakuchuk – 2 21. Tripura Khara -2 22. Tripura Khara -1 23. Tripura Hakuchuk – 1 24. Tripura Aush -1 25. ADT 51 (AD 09367) (IET 23617) 26. CR Dhan 801 (IET 25667) 27. DRR Dhan 52 (IET 23354) 28. Ratnagiri-8 (IET 25493) 29. CR Dhan 802 (IET 25673) 30. VNR-2111 PLUS (IET 24075) 31. Uttar Sona UBKVR-1 (IET 24171) 32. MP 3030 (IET 25764) 33. CR Dhan 102 (IET 25121) 34. CO 53 (IET 24057) 35. PNP 24 36. DRR Dhan 54 (IET25653) 37. Sabour Sampanna Dhan (IET 25960)
