

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

**LOK SABHA**  
**UNSTARRED QUESTION NO. 1602**  
TO BE ANSWERED ON 12/02/2019

**FLOOD AND DROUGHT TOLERANT RICE**

1602. SHRIMATI SANTOSH AHLAWAT:

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

- (a) whether the Government has approved the new varieties of flood and drought-tolerant rice for cultivation in disaster prone areas, if so, the details thereof and the steps taken by the Government for the smooth availability of new rice varieties;
- (b) whether there is any difference in cost of production between the new varieties and the already available old varieties of rice, if so, the details thereof; and
- (c) the steps taken by the Government to promote the new varieties of flood and drought-tolerant rice?

**A N S W E R**

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE  
कृषि और किसान कल्याण मंत्रालय में राज्य मंत्री  
**(SHRI GAJENDRA SINGH SHEKHAWAT)**

(a) The research efforts of National Agricultural Research System (NARS) comprising Indian Council of Agricultural Research (ICAR), Central Agricultural Universities (CAUs) and State Agricultural Universities (SAUs) have led to development of several flood and drought tolerant varieties of rice which have been released and notified by Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Agricultural Crops (**Annexure-I**).

The ICAR through its All India Coordinated Research Project on National Seed Project-Crops (AICRP-NSP-Crops) undertakes production of breeder seed which is further multiplied in seed chain in order to make available quality seed to farmers. Besides, 'ICAR Seed Project' is also aimed at strengthening of infrastructure pertinent to seed domain of NARS, thereby promoting production of quality seed and making them available to farmers. Approximately, 1620 quintals breeder seed and 9163 quintals quality seeds of flood and drought tolerant varieties of rice have been produced during 2014-15 to 2017-18.

(b) There is no additional cost involved for cultivation of new varieties as compared to old varieties, rather, these varieties are more economical.

(c) The ICAR along with NARS partners organizes the frontline demonstrations (FLDs) of improved varieties for their promotion. During last three years ~ 2000 frontline demonstrations were conducted in different States and technologies promoted including flood and drought tolerant varieties.

Besides, site visits, kisan melas, farmers days, seed days, farmers training programmes are also organized to promote the new varieties and generate awareness among the farmers about new technologies like flood and drought tolerant varieties of various crops including rice.

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**Annexure-I**

[Part (a) of Lok Sabha USQ No.1602 for 12/02/2019]

**Flood and drought tolerant varieties of rice released and notified since May 2014 to till date**

<b>Sl. No.</b>	<b>Stress Condition</b>	<b>Varieties</b>
1.	Flood/submergence/ water logging /deep, semi-deep water tolerance	Ashutosh; Bheema (Dheera); Bahadur SUB-1; CR Dhan 408 (Chakaakhi); CR Dhan 409; CR Dhan 505; CR Dhan 506; CR Dhan 507; CR Dhan 508; CR Dhan 801; CR Dhan 802; CR Dhan 510; CR 1009 Sub-1; CO 43 Sub-1; DRR Dhan 50; Ksheera; Ranjit Sub-1; Samba Sub-1; Tanmayee; Tripura Jala-1
2.	Drought/moisture stress /low rainfall tolerance	ADT 51; ADV 8301 (Hybrid); Birsa Vikas Dhan 111; Birsa Vikas Dhan 203; CAU-RI; CR Dhan 801; Daksha; DRR Dhan 43; DRR Dhan 44; DRR Dhan 46; DRR Dhan 47; DRR Dhan 50; DRR Dhan 52; Him Palam Lal Dhan-1; IR-64 Drt I; JRH 19 (Hybrid); Kalachampa; Nandyala Sona; Sabour Shree; Tripura Aush-1; Tripura Hakuchuk-1; Tripura Hakuchuk-2; Tripura Khara-1; Tripura Khara-2; VNR-2111 Plus

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