

Success Story 12. Distinctness, Uniformity and Stability (DUS) test in Rice

Directorate of Rice Research is the nodal centre for the DUS test in rice supported by four Co-Nodal centers (Central Rice Research Institute, Cuttack; Assam Agricultural University, Jorhat, Indian Agricultural Research Institute, Karnal, Tamil Nadu Agricultural University, Coimbatore for DUS testing program. DRR has developed data base of 512 rice varieties as Reference Collection of Rice Varieties (RCVs) for DUS test. 2 kg seed of each of the 512 varieties have been deposited at NBPGR under medium term storage for future reference. In addition, 50g of each of these varieties were deposited in the varieties module of NBPGR. Further, efforts are being continued to obtain the remaining released rice varieties and parental lines of hybrids. First DUS testing of the candidate varieties was started at DRR, Hyderabad as the Nodal centre and CRRI, Cuttack as the second location (Co-nodal centre) during Kharif 2008. So far 4 DUS test programmes were conducted from 2008 and 1st season completed for Fifth DUS test programme. Of the 82 new varieties tested so far, 18 varieties were registered and certificates were issued. 12 certificates were issued by the authority out of 40 VCKs evaluated from 2010-13. As many as 869 farmers' varieties from the states of Odisha, West Bengal, Tamil Nadu and Kerala were also evaluated for facilitating the registration of these varieties. Of these 44 farmers varieties have already been issued the certificates of registration by PPV&FRA. The details of the test conducted since 2008 are furnished below.

Status of DUS testing in Rice

FY/Material	08-09	09-10	10-11	11-12	12-13	13-14	No of Var. Registered
New	8 (1 st yr)	8 (2 nd yr)	15 (1 st yr)	15 (2 nd yr) 26 (1 st yr)	26 (2 nd yr) 21 (1 st yr)	21 (2 nd yr) 12 (1 st yr)	18
VCKs	-	-	6	17	9	8	12
FV	3	-	8	66	129* 623#	51	44
Total	11	-	29	109	782	71	76
No of vars under maintenance breeding	35	80	312	50	112	45	

*Rabi ; # kharif

In addition to the above mentioned 141 Extant Notified Varieties (ENV's) were sent to PPV&FRA for registration. Of these registration certificates were issued for 71 varieties and 31 are pending while 39 varieties disqualified since those varieties completed 15 years after their release. PPV&FRA conferred the status of **Best DUS test centre** for maintaining large number of RCVs on 11.11.2011(Foundation Day of Authority). A book entitled "**DUS characterization of Rice Varieties**" published by DRR was released on 22nd May 2013 by the Honorable minister of state for Agriculture Shri Tariq Anwar. So far three "**One day Awareness cum Training Programmes on Plant Variety Protection and Registration of Plant Varieties**" (7th February 2011, 15th November 2012 and 25th March 2013) were organized at DRR, Rajendranagar, Hyderabad. These programmes were sponsored by PPV&FRA to create awareness among the Agricultural Officers of Departments of Agriculture, Assistant Professors/Scientists from SAUs, NGOs and progressive farmers.



Monitoring DUS test plots at DRR Farm ICRISAT campus.



General Crop photo



One day Awareness Cum Training on Plant Variety Protection & Registration of Plant Varieties on 15th November 2012



DUS book released on 22nd May 2013 by the Honorable minister of state for Agriculture Shri Tariq Anwarji.