

PGR Management and Use – COMPONENT I

Annual Progress Report for the year 2015-16

1. **Name of the Crop:** Maize
2. **Name of the Lead Centre:** IIMR New Delhi
3. **Name of the Nodal person with designation:** Dr. Jyoti Kaul, Principal Scientist
(Plant Breeding)
4. **Name of the Centre/collaborating centres Nodal person with designation:**

S. No.	Name of the Centre/ Collaborating centres	Nodal Persons	Designation
1	IIMR New Delhi	Dr. Jyoti Kaul	Principal Scientist
2	CSK HPKV HAREC Bajaura	Dr. SK Guleria	Principal Scientist
3	MPAU & T Udaipur	Dr. Amit Dadheech	Assistant Professor
4	PAU Ludhiana	Dr. J S Chawla	Sr. Breeder
5	DMR Hyderabad	Dr. N. Sunil	Scientist

- 5 **Number of accessions received from ICAR-NBPGR:** 2500
- 6 **Number of accessions sown for characterization/multiplication:** 2500 for
characterisation
- 7 **Number of accessions germinated as data were recorded:** 2499
- 8 **Experimental design:** Augmented
- 9 **Details of the characterization:**

Sl. No.	Name of the Centre	No. of accessions characterize d/ multiplied	Checks used	Date of sowing (From – to)	No. of descri ptors*	Date of harvesting (From – to)	Date of dispatch of data and seed material to NBPGR	
							Seed	Data
1	ICAR-Indian Institute of Maize Research, New Delhi.	500 Accessions Characterised	Prakash (E), Bio 9637 (M), Seed tech 2324 (L)	July 02, 2015	30	Oct 9-10, 2015	-	sent

2	CSK HPKV HAREC Bajaura, Kullu(HP)	500 Accessions Characterised	HKI 1105, V378	June 9,19 & 22, 2015	30	Oct 1,12,20 &10 ,2015	-	sent
3	MPUAT, Udaipur	500	EI 586-2, Pratap Makka3, Pratap Makka-9 & Pratap Hybrid Maize-3	July 6, 2015	30	Oct 20, 2015		sent
4	PAU, Ludhiana	500	PEMH- (L), LM-13 Prakash (E)	July 4, 2015	30	Oct 1-2, 2015		sent
5	IIMR, Hyderabad	499	DHM 117, PMH 3, Vivek 43	July 9, 2015	30	Oct 22, 2015		sent
		485 accessions for Rejuvenation	-		-		sent	-

*Please attach the list of descriptors/descriptor status

10 Same descriptors were used at all the locations: Yes

11 Detailed report on salient achievements of characterization with details of promising lines identified for important characters: -

1. Characterization of Germplasm:

A total of 2500 accessions comprising 2130 Indigenous collections (ICs) and 370 Exotic collections (ECs) of maize germplasm held in NGB at NBPGR was characterized as per common set of 30 descriptors during 2015 kharif at five locations, viz ICAR-IIMR New Delhi, ICAR-WNC IIMR Hyderabad, MPUAT Udaipur, PAU Ludhiana and CSKHPKV Palampur, respectively. The data indicated that most of the accessions were flint / semi-flint, yellow and medium / late maturing types.

2.Regeneration

A. During kharif 2015 at ICAR-WNC IIMR Hyderabad, 485 accessions were regenerated (seed increased) based upon the biological states of the accessions. The land races / population were regenerated by sib mating.

B. During rabi 2015-16, 280 accessions of maize germplasm have been regenerated (based upon biological states)

12 Details of monitoring:

Sl. No.	Name of the Centre	Date of monitoring	Crop stage at the time of monitoring	Monitoring team members
1	ICAR-Indian Institute of Maize Research, New Delhi.	-	-	-
2	CSK HPKV HAREC Bajaura, Kullu (H.P)	Sep9, 2015	Grain filling stage	Dr Ashok Kumar, Pr Scientist, IIMR, New Delhi Team Leader Dr N.K.Singh Professor GBUA&T, Pantnagar, Dr Jawala Jindal, PAU, Ludhiana Dr C Chandershekhar, VPKAS Almora
3	MPUAT, Udaipur	Sep 29,2015	Dough stage	Dr. Meena Shekhar , IIMR, New Delhi Dr. Maha Singh HAU, Hissar Dr. Nirupama Singh, IIMR, New Delhi Dr. V.K. Paradkar ,Chindwara

4	PAU, Ludhiana	Sep 17,2015	Milky dough	Dilip Singh and AICRP team
5	IIMR, Hyderabad	Sep 24,2015	Post Flowering	Dr. CG Karjagi IIMR, New Delhi and Dr. JC Sekhar, IIMR, Hyderabad

13 Papers Published:

- (i) Papers published in peer reviewed journal (NAAS rating may be given) : Nil
- (ii) Papers presented at scientific meetings: Nil
- (iii) Manuscripts under preparation: Nil

14 Patents/varieties and products developed or in pipeline:

Signature:

Name: Dr. Jyoti Kaul

Designation: Principal Scientist

Principal Investigator:

Date:

Director/Project Director/Project Coordinator

