

## **PGR Management and Use – COMPONENT I**

### **Annual Progress Report for the year 2014-15**

- 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 Centre/ collaborating Centre, Nodal persons with designation:**

<b>S. No.</b>	<b>Name of the Centre/ Collaborating centres</b>	<b>Nodal Persons</b>	<b>Designation</b>
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	IIMR 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:** 2489
- 8 Experimental design:** Augmented
- 9 Details of the characterization:**

<b>Sl. No.</b>	<b>Name of the Centre</b>	<b>No. of accessions characterized/ multiplied</b>	<b>Checks used</b>	<b>Date of sowing (From – to)</b>	<b>No. of descriptors*</b>	<b>Date of harvesting (From – to)</b>	<b>Date of dispatch of data and seed material to NBPGR</b>	
							Seed	Data
1	ICAR-Indian Institute of Maize Research, New Delhi.	500 Accessions Characterised	Prakash (E), Bio 9637 (M), Seed tech2324 (L).	July 08,2014	30	Oct 21-22 22, 2014	-	sent

2	CSK HPKV HAREC Bajaura, Kullu (HP)	500 Accessions Characterise d	HKI 1105, V378	July 6,12&18, 2014	30	Sep 25,2014, Oct.13,15 20,2014	-	sent
3	MPUAT, Udaipur	500	EI586-2, Pratap Makka- 3,Pratap Makka-9 & Pratap Hybrid Maize-3	July 17,2014	30	Oct 31, 2014	-	sent
4	PAU, Ludhiana	500	LM 13 (inbred), PMH 1(L), Prakash (E), Navjot	June 21, 2014	30	Sep 23, 2014	-	sent
5	IIMR, Hyderabad	500	DHM 117, PMH 3, Vivek 43	July 19 ,2014	30	Oct. 30 , 2014	-	sent
		233 accessions for Rejuvenatio n	-		-		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 2052 Exotic collections (ECs) and 448 Indigenous collections (ICs) of maize germplasm held in NGB at NBPGR was characterized as per common set of 30 descriptors during 2014 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. Around 4% accessions were of dent kernel texture.

## 2.Regeneration (*Rabi*, 2014-15)

During *Rabi*, 2014-15 two hundred and fifty-five accessions maize accessions were grown for regeneration at ICAR- WNC , IIMR , Hyderabad . The accessions were regenerated based on their biological states i.e. the populations / land races were multiplied by sib-mating.

## 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, (HP)	Sep 18-19, 2014	Grain filling	Dr Bhupendra, Scientist Plant Breeding IIMR, New Delhi Dr Mrityunjay kumar, Agronomist Dholi, Bihar  & Dr Vinod Kumar, Pathologist, Uchani, Karnal
3	MPUAT, Udaipur	Oct 2, 2014	Dough stage	Dr. J.S Chawla, PAU, Ludhiana Dr. Jwala Jindal, PAU, Ludhiana Dr. N. Malikarjuna, UAS, Bangalore, Dr. Ganpati Mukri,

				IIMR, New Delhi
4	PAU, Ludhiana	Sep 05, 2014	Post flowering	Dr. Jyoti Kaul, IIMR, New Delhi. Dr. JS Chawla, PAU Ludhiana
5	IIMR, Hyderabad	Sep 15, 2014	Post flowering	Dr. Jyoti Kaul, IIMR, New Delhi, Dr. J C 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: Nil**

Signature:

Name: Dr. Jyoti Kaul

Designation: Principal Scientist

Principal Investigator:

Date:

**Director/Project Director/Project Coordinator**

