PGR Management and Use – COMPONENT I

Annual Progress Report for the year 2014-15

1. **Name of the Crop**: Rapeseed- Mustard
2. **Name of the Lead Centre**: ICAR-DRMR, Bharatpur
3. **Name of the Nodal person with designation**: Dr J Nanjundan, Scientist SS(Genetics & Plant Breeding
4. **Name of the collaborating centres**: NA
5. Name of Nodal person with designation: NA
6. **Number of accessions received from ICAR-NBPGR**: 600
7. **Number of accessions germinated as data were recorded**: 553 (534 Indian mustard, 9 Karan rai, 2 gobhi sarson and 8 *B rapa)*
8. **Experimental design**: Augmented Design
9. **Checks used**: Pusa mustard 25, Maya, RGN 73, Kranti, Pusa Bold and DRMRIJ 31
10. **Details of the characterization**:

Sl. No.	**Name of the Centre**	**No. of accessions characterized/ multiplied**	**Date of sowing (From – to)**	**No. of descriptors***	**Date of harvesting (From – to)**	**Date of dispatch of data and seed material to NBPGR**	
						Seed	Data
1	ICAR-DRMR, Bharatpur	553	15th Oct, 2014	17	3rd Feb. to 4th April, 2015	9th July, 2015	2nd Oct. 2015
2							
3							
4							
6							
-							
-							

*Please attach the list of descriptors/descriptor status

List of descriptors

1) Day to initial flowering
2) Days to 50% flowering
3) Days to maturity
4) Plant height (cm)
5) Fruiting zone length (cm)
6) First basal branching (cm)
7) No. of primary branches/plant
8) No. of secondary branches/plant
9) Main shoot length (cm)
10) No. of siliquae on main shoot
11) Fruiting zone length (cm)
12) Siliqua length (cm)
13) No. of seeds/siliqua
14) 1000 seed wt.(g)
15) Seed yield /plant (g)
16) Harvest Index (%)
17) Oil content (%)

11. **Same descriptors were used at all the locations**: Yes/No NA

12. **Detailed report on salient achievements of characterization with details of promising lines identified for important characters**:

The following 69 Indian mustard accessions were selected based on their performance for yield component traits viz. days to maturity (<130 days), plant height (< 170 cm), main shoot length (>80 cm), No. of siliquae on main shoot(>60 cm), siliquae density (>1), siliqua length (>5.0 cm), number of seeds/siliqua(> 17), 1000 seed weight (>7.0 g), harvest index (>28%) and oil content(> 42 %).). These accessions were subjected to re-evaluation in the ongoing cropping season (2015-16). Post harvest data recording, data feeding and analysis are under progress.

IC492616, IC492617, IC492643, IC492720, IC492728, IC492756, IC493205, IC492648, IC492750, IC492926, IC493175, IC493281, IC492612, IC492632, IC492637, IC492678, IC492763, IC492794, IC492797, IC492840, IC492870, IC492898, IC492934, IC493101, IC493154, IC493267, IC492607, IC493342, IC493446, IC49498, IC492903, IC493201, IC493238, IC492698, IC493020, IC492615, IC492881, IC492885, IC493006, IC493018, IC493024, IC493031, IC493079, IC493151, IC493167, IC493244, IC493415, IC493422, IC492667, IC493231, IC493235, IC493255, IC493518, IC492847, IC492853, IC493005, IC493030, IC493186, IC493241, IC493293, IC492605, IC492751, IC492882, IC492893, IC493008, IC493009, IC493228, IC493374, IC493554.

13. **Details of monitoring**:

Sl. No.	**Name of the Centre**	**Date of monitoring**	**Crop stage at the time of monitoring**	**Monitoring team members**
1				
2				
3				

4				
6				
-				
-				

14. **Papers Published**:

(i) Papers published in peer reviewed journal (NAAS rating may be given)

(ii) Papers presented at scientific meetings:

(iii) Manuscripts under preparation:

15. **Patents/varieties and products developed or in pipeline**:

Signature:

Name:

Designation:

Principal Investigator:

Date:

Director/Project Director/Project Coordinator