

PGR Management and Use – COMPONENT I

Annual Progress Report for the year 2015-16

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:** 3407 + 1574 + 1521 + 140 + 41= 6683
7. **Number of accessions sown for characterization/multiplication:** 6683
8. **Number of accessions germinated as data were recorded:**
6596

Sr. No.	Common name	Bot. name	No. of accessions			
			Multipled & Characterized	Multipled & Maintained	Not established	Total
1	Indian mustard	<i>Brassica juncea</i>	2514	1895	348*	4757
2	Leafy mustard	<i>Brassica juncea ssp. rugosa</i>	10	44	9	63
3	Gobhi sarson	<i>Brassica napus</i>	27	92	46	165
4	Karan rai	<i>Brassica carinata</i>	17	18	1	36
5	Toria	<i>B. rapa ssp. toria</i>	339	125	16	480
6	Yellow sarson	<i>B. rapa ssp. yellow sarson</i>	541	132	11	684
7	Brown sarson	<i>B. rapa ssp. brown sarson</i>	32	86	10	128
8	Taramira	<i>Eruca sativa</i>		260	8	268
9	Black mustard	<i>B. nigra</i>		1		1
10	Jangli / Asiatic rai	<i>B. tournefortii</i>		9		9

11	White mustard	<i>S. alba</i>		2		2
12	Raphanus	<i>Raphanus sp.</i>		3		3
	Total		3480	2667	449	6596
	Not germinated					87
	Total					6683

*Exotic accessions

9. **Experimental design:** Augmented Design

10. **Checks used:** Pusa mustard 25, Maya, RGN 73, Kranti, Pusa Bold, Girraj and RH

0749

11. **Details of the characterization:** Mentioned in earlier table

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	Mentioned above	15 th & 16 th Oct., 2015	17	Feb., to April, 2016		
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) Silique length (cm)
- 13) No. of seeds/silique
- 14) 1000 seed wt.(g)
- 15) Seed yield /plant (g)
- 16) Harvest Index (%)
- 17) Oil content (%)

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

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

The following accessions were identified and selected based on their phenotypic expression for various agro-morphological traits. These accessions will be subjected to re-evaluation in next cropping season (2016-17). Post harvest data recording, data feeding etc are under progress.

EC0147843, EC0196476, EC0634281, EC0634284, EC0764481, EC0764502, EC0764700, EC0764706, EC0764717, EC0764731, EC0764739, EC0764741, EC0764972, EC0764973, EC0765064, EC0765103, EC0765116, EC0765221, EC0765223, EC0765231, EC0765232, EC0765234, EC0765288, EC0765297, EC0765299, EC0765300, EC0765416, EC0765418, EC0765460, EC0765473, EC0765475, EC0765477, EC0765480, EC0765481, EC0765482, EC0765483, EC0765484, EC0765507, EC0765508, EC0765509, EC0765510, EC0765511, EC0765512, EC0765513, EC0765514, EC0765515, EC0765581, EC0765583, EC0765610, EC0765611, EC0765612, EC0765681, EC0765874, EC0765875, IC0492294, IC0492421, IC0492585, IC0493192, IC0493540, IC0493749, IC0606073.

EC0764497, EC0764501, EC0764502, EC0764508, EC0764509, EC0764510, EC0764861, EC0765098, EC0765406, EC0765526, EC0765630, EC0765692, EC0765805, EC0765806, EC0765807, EC0765808, EC0765809, EC0765810, EC0765811, EC0765812, EC0765813, EC0765815, EC0765816, EC0765817, EC0765818, EC0765819, EC0765820, EC0765823, EC0765824, EC0765825, EC0765826, EC0765827, EC0765984, IC0310752, IC0312531, IC0362687, IC0362766.

EC0206723, IC0122234, IC0122235, IC0122236, IC0122237, IC0122348, IC0122369, IC0122377, IC0122391, IC0122400, IC0122406, IC0122407, IC0122410, IC0122414, IC0122415, IC0122417, IC0122418, IC0122419, IC0122420, IC0122421, IC0122423, IC0122424, IC0267710.

14. 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				
-				
-				

15. Papers Published:

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

16. Patents/varieties and products developed or in pipeline:

Signature:

Name:

Designation:

Principal Investigator:

Date:

Director/Project Director/Project Coordinator