

PLANT GERMPLASM REGISTRATION COMMITTEE
(Indian Council of Agricultural Research)
ICAR-National Bureau of Plant Genetic Resources (NBPGR), New Delhi

Proceedings of the
XXXXVIIth Meeting of Plant Germplasm Registration Committee (PGRC)
Held at ICAR-NBPGR, New Delhi on March 29, 2022 in virtual mode

The XXXXVIIth meeting of PGRC was held on **March 29, 2022** (11:00 hrs). at ICAR - NBPGR, New Delhi and it was attended by the following members/invitees:

1.	Dr TR Sharma	DDG (Crop Science), Indian Council of Agricultural Research, Krishi Bhavan, New Delhi	Chairman
2.	Dr DK Yadava	ADG (Seeds), ICAR, Krishi Bhavan, New Delhi	Member
3.	Dr RK Singh	ADG (Commercial Crops), Krishi Bhavan, New Delhi	Member
4.	Dr Sanjeev Gupta	ADG (O&P), ICAR, Krishi Bhavan, New Delhi	Member
5.	Dr BK Pandey	ADG (Hort.-II), ICAR, KAB-II, New Delhi	Member
6.	Dr Vikramaditya Pandey	ADG (Hort.-I), ICAR, KAB-II, New Delhi	Member
7.	Dr Ashok Kumar	Director (Acting), ICAR-National Bureau of Plant Genetic Resources, New Delhi	Member
8.	Dr Shiv Sewak	Director and Project Coordinator, ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh	Member
9.	Dr Vilas A Tonapi	Representative of Director, Indian Institute of Millets Research, Rajendranagar, Hyderabad, Telangana	Member
10.	Dr RM Sundaram	Director, ICAR-Indian Institute of Rice Research, Hyderabad, Telangana	Member
11.	Dr PK Rai	Director, ICAR-Directorate of Rapeseed-Mustard Research, Bharatpur, Rajasthan	Member
12.	Dr S Uma	Director, ICAR-National Research Centre for Banana, Trichy, Tamil Nadu	Member
13.	Dr. Satyanshu Kumar	Director (Acting), ICAR-Directorate of Medicinal & Aromatic Plants Research, Anand, Gujarat	Member
14.	Dr M. Sujatha	Director (Acting), ICAR-Indian Institute of Oilseeds Research, Hyderabad, Telangana	Member
15.	Dr Padmini Swain	Director (Acting), ICAR-National Rice Research Institute, Cuttack, Odisha	Member
16.	Dr GP Dixit	Project Coordinator (Chickpea), ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh	Member
17.	Dr SM Palve	Representative of Director, ICAR-Central Institute of Cotton Research, Nagpur, Gujarat	Member
18.	Dr Vinod Kumar	Representative of Director, ICAR-Central Potato Research Institute, Shimla, Himachal Pradesh	Member
19.	Dr Anjali Kak Koul	Principal Scientist, Division of Germplasm, Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member
20.	Dr Veena Gupta	Head (Acting), Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member Secretary



The XXXXVIIth meeting of Plant Germplasm Registration Committee was organized under the Chairmanship of Dr. TR Sharma, Deputy Director General (Crop Science), ICAR in virtual mode. Dr. Ashok Kumar, Director (Acting), ICAR-NBPGR welcomed and thanked the Chairman for holding the meetings at quarterly interval. The Director also thanked all the experts and PC/PD for reviewing the proposals well in time for the meeting.

The minutes of the XXXXVIth meeting of PGRC were adopted as such after the confirmation of the Chairman.

A total of 128 proposals were received for registration and out of that, 90 (proposals completed in all respect) were placed for consideration along with comments. These were received from the respective PD/PC or experts to ascertain their unique feature(s) and potential values, which formed the basis for registration. Each proposal was discussed in detail and recommendations of the committee for each proposal have been summarized in the enclosed table. Finally, 63 proposals belonging to 26 crop species were approved for registration and 13 were deferred for want of additional data and additional comment from experts. It was also agreed upon that next meeting of PGRC will be held in June 2022.

The meeting ended with vote of thanks by Dr. Veena Gupta, Member-Secretary, PGRC, ICAR-NBPGR

(Veena Gupta)
Member Secretary, PGRC
ICAR-National Bureau of Plant Genetic Resources
Pusa Campus, New Delhi-110 012


(TR Sharma)
DDG (CS) & Chairman, PGRC
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XXXXVIIth Germplasm Registration Committee Meeting, March 29, 2022:

Summary of New Proposals with Recommendations

S. No.	App. No./ National Id.	Other Identity	Crop/ Botanical Name	Pedigree	Potentially valuable features	Corresponding author	Recommendations of PGRC
Cereals							
1.	22056; IC0643995	SBTIL31	Rice/ <i>Oryza sativa</i>	Ranbir Basmati x Punjab Basmati 4	Bacterial blight resistant possessing <i>xa13</i> and <i>Xa21</i> genes. Very early maturing 125-130 days from seed to seed.	Dr. RK Salgotra, SKUAST-J, Chatha, Jammu (J&K)	Deferred: For want of more two years' data.
2.	22057; IC0643996	SBTIL25	Rice/ <i>Oryza sativa</i>	Ranbir Basmati x Punjab Basmati 4	Bacterial blight resistant possessing <i>xa13</i> and <i>Xa21</i> genes. Early maturing 130-135 days from seed to seed.	Dr. RK Salgotra, SKUAST-J, Chatha, Jammu (J&K)	Deferred: For want of more two years' data.
3.	22058; IC0643997	SBTIL39	Rice/ <i>Oryza sativa</i>	Ranbir Basmati x Punjab Basmati 4	Bacterial blight resistant possessing <i>xa13</i> , <i>Xa21</i> and <i>sd1</i> genes lodging tolerance	Dr. RK Salgotra, SKUAST-J, Chatha, Jammu (J&K)	Deferred: For want of more two years' data.
4.	22059; IC0643998	SBTIL80	Rice/ <i>Oryza sativa</i>	Ranbir Basmati x Punjab Basmati 4	Bacterial blight resistant possessing <i>xa13</i> and <i>Xa21</i> genes. High yielding which mature in 135 days from seed to seed.	Dr. RK Salgotra, SKUAST-J, Chatha, Jammu (J&K)	Deferred: For want of more two years' data.
5.	22060; IC0643999 INGR22001	SBTIL121	Rice/ <i>Oryza sativa</i>	Ranbir Basmati x Punjab Basmati 4	Bacterial blight resistant possessing <i>xa13</i> , <i>Xa21</i> and <i>sd1</i> genes. Very early maturing 125-130 days from seed to seed.	Dr. RK Salgotra, SKUAST-J, Chatha, Jammu (J&K)	Recommended: For <i>sd1</i> gene
6.	21118; IC0640658 IC0640659 INGR22002	DCMS 9A & DCMS 9B	Wheat / <i>Triticum aestivum</i>	CHUAN13A/CH UAN13B/4/7*KA UZ/PFAU//VEE# 5/3/KAUZ/5/8*D BW 17	New cytoplasmic genetic male sterile line in DBW 17 background with CMS source Chuan 13A alongwith maintainer (B) line.	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
7.	21120; IC0640660 IC0640661 INGR22003	DCMS 44A & DCMS 44B	Wheat / <i>Triticum aestivum</i>	MTSA 2A/8*RAYON//8 *CBW 38	New cytoplasmic genetic male sterile line in CBW 38 background with CMS source MTSA 2A	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
8.	21121;	DCMS 35A &	Wheat /	CHUAN13A/CH	New cytoplasmic genetic	Dr. SK Singh	Recommended

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	IC0640662 IC0640663 INGR22004	DCMS 35B	<i>Triticum aestivum</i>	UAN13B/4/7*KA UZ/PFAU//VEE# 5/3/KAUZ/5/8*D BW 55	male sterile line in DBW 55 background with CMS source Chuan 13A	ICAR-IIWBR, Karnal, Haryana	
9.	21122; IC0640664 IC0640665 INGR22005	DCMS 52A & DCMS 52B	Wheat / <i>Triticum aestivum</i>	MTSA 2A/8*RAYON//8 *UP 2338	New cytoplasmic genetic male sterile line in UP 2338 background with CMS source MTSA 2A	Dr. SK Singh ICAR-IIWBR, Karnal, Haryana	Recommended
10.	21173; IC0640668 INGR22006	DWAP 18-12	Wheat / <i>Triticum aestivum</i>	DBW 87/5EGPSN 82//HI 1583	Highly tolerant to water stress conditions of warmer areas. Low SSI. Low yield reduction under stress	Dr. SK Singh ICAR-IIWBR, Karnal, Haryana	Recommended
11.	21163; IC0640677	HW5074	Wheat / <i>Triticum aestivum</i>	HD 2833 (Sr2+ & Sr24/Lr24) * 4/COOK (Sr36/Pm6)	Consist of one adult plant minor stem rust resistance gene (APR), Sr2 which has pleiotropic effect on leaf rust (Lr27) and stripe rust (Yr30) resistance. Contains two major stem rust (Sr24 & Sr36), one leaf rust (Lr24) and one powdery mildew (Pm6) resistance genes. Resistant to the prevailing stem rust, leaf rust and powdery mildew pathotypes.	Dr Vikas VK, ICAR-IARI RS, Wellington, Tamil Nadu	Deferred: To be considered in the next meeting after receiving comment from one more expert.
12.	21183; IC0640674	LBP2017-2	Wheat / <i>Triticum aestivum</i>	WH147/HD2967	Earliness in heading coupled with high thousand grain weight for Northern Hills.	Dr. Vikas Gupta, ICAR-IIWBR, Karnal, Haryana	Not Recommended: Not much difference are identified in comparison to other genotypes. Early in maturity by two days compared to Sonalika.
13.	21242; IC0296727 INGR22007	IC296727	Wheat/ <i>Triticum aestivum</i>	UP 368-Shailaja x WH 157- Bulk 1858/ GP 104	High level of grain zinc content (51.3 ppm). Protein content (13.8%).	Dr. Jyoti Kumari, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
14.	21287; IC0279317 INGR22008	IC279317; HS-86/	Wheat/ <i>Triticum sativum</i>	Introduction and Selection from Gumma Shimla, Himachal Pradesh	Physio-biochemical traits. Yield and yield traits. Heat stress indices.	Dr. VP Agarwal, SKRAU, Bikaner, Rajasthan	Recommended

File No.CS.11/8/2020-seed (E-office no. 81299)

15.	21307; IC0335971	IC335971	Wheat/ <i>Triticum aestivum</i>	Introduction and Selection from Kardigudda Dharwad Karnataka	Heat tolerance nature.	Dr. VP Agarwal, SKRAU, Bikaner, Rajasthan	Deferred: To be considered in the next meeting after receiving comment from one more expert.
16.	21308; IC0336816 INGR22009	IC0336816	Wheat/ <i>Triticum aestivum</i>	Introduction and Selection from Lunera Dhar Madhya Pradesh	Heat tolerance nature.	Dr. VP Agarwal, SKRAU, Bikaner, Rajasthan	Recommended
17.	22067; IC0212176 INGR22010	IC0212176	Wheat/ <i>Triticum aestivum</i>	Indigenous collection	Gigas plant with reduced number of tillers (69 Tillers/m row) and long spike (12 cm).	Dr. Arun Gupta, ICAR-IIWBR, Karnal, Haryana	Recommended
18.	22086; IC0643956 INGR22011	QBI19-09	Wheat/ <i>Triticum aestivum</i>	C80.1/3*Batavia// 2*Wb11/3/Attila/ 3* Bcn* 2//Bav92/4/Wb11 *2/Kuruku/5/ Iwa 8600211 // 2* Pbw343* 2/Kukuna / 7/Trap#1/Bow/3/ Vee/Pjn//2*Tui/4/ Bav9 2/Rayon/5/Kachu #1/6/Toba97/ Pastor /3/T.Dicoccon Pi94624/Ae.Squar rosa (409)//Bcn/4/Bl 1496/Milan/3/Cro c_1/A E.Squarrossa	High grain zinc concentration (48.6ppm).	Dr Anju M Singh, ICAR-IARI, Pusa Campus, New Delhi	Recommended: Only for high zinc content

19.	22089; IC0643957 INGR22012	QBI20-20	Wheat/ <i>Triticum aestivum</i>	Excalibur//CIRO1 6*2/PVN/3/Kachu #1/Kiritati//Kachu	Low Hardness Index (32) (Soft endosperm). Low SDS- Sedimentation value (40.5ml).	Dr Anju M Singh, ICAR-IARI, Pusa Campus, New Delhi	Recommended
20.	21248; IC0641989 INGR22013	DWRBG 2	Barley / <i>Hordeum vulgare</i>	ICARDA 5 (PYT- 2014-15 entry number-41) of ICARDA	Barley genotype with High hectoliter weight (66.7 kg/hl) coupled with higher protein content 13.0 % (dwb) and bold grains (>2.5 mm size) .	Dr Dinesh Kumar ICAR-IIWBR, Karnal, Haryana	Recommended
21.	20224; IC0644007 INGR22014	QBLM11	Maize/ <i>Zea mays</i>	QLM11/HP-467- 15//2*QBLM11	Nutritionally enriched. Developed through marker assisted selection. Enhanced beta-carotene (7.46 ppm), lysine and tryptophan (0.298% and 0.080%).	Dr. Yogesh Vikal, PAU, Ludhiana, Punjab	Recommended
22.	22009; IC0644008 INGR22015	QBLM12	Maize/ <i>Zea mays</i>	QLM12/HP-467- 15//2*QBLM12	Nutritionally enriched. Developed through marker assisted selection. Enhanced beta-carotene (7.40 ppm) lysine and tryptophan (0.333% and 0.068%).	Dr. Yogesh Vikal, PAU, Ludhiana, Punjab	Recommended
23.	22010; IC0644009 INGR22016	QBLM13	Maize/ <i>Zea mays</i>	QLM13/HP-467- 15//2*QBLM13	Nutritionally enriched. Developed through marker assisted selection. Enhanced beta-carotene (6.89 ppm) lysine and tryptophan (0.383% and 0.074%).	Dr. Yogesh Vikal, PAU, Ludhiana, Punjab	Recommended
24.	22011; IC0644010 INGR22017	QBLM14	Maize/ <i>Zea mays</i>	QLM14/HP-467- 15//2*QBLM14	Nutritionally enriched. Developed through marker assisted selection. Enhanced beta-carotene (6.12 ppm), lysine and tryptophan (0.336% and 0.079%).	Dr. Yogesh Vikal, PAU, Ludhiana, Punjab	Recommended

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25.	21033; IC0643993 INGR22018	V 601	Maize/ <i>Zea mays</i>	V 407 x PDH-3 (EC928978)	Liguleless. Early maturity. The stock is broadly in the genetic background of elite inbred V 407 (female parent of Vivek Maize Hybrid 53 and CMVL 55). Known heterotic affinity of V 407 makes the stock directly usable maize hybrid breeding programmes	Dr. RK Khulbe, ICAR-VPKAS Almora, Uttarakhand	Recommended
26.	22025; IC0643994 INGR22019	V 602	Maize/ <i>Zea mays</i>	V 407 x PDH-3 (EC928978)	V 602 is broadly in the broad genetic background of elite inbred V 407 (female parent of Vivek Maize Hybrid 53 and CMVL 55). Known heterotic affinity of V 407 makes the stock directly usable maize hybrid breeding programmes.	Dr. RK Khulbe, ICAR-VPKAS Almora, Uttarakhand	Recommended
27.	22030; IC0643958 INGR22020	PML 46	Maize/ <i>Zea mays</i>	SAFAL-X12-9-1- 1-B-B	Tolerant to high density planting. Flint and orange colored kernel. Medium maturity.	Dr Ganapati Mukri, ICAR-IARI, Pusa Campus, New Delhi	Recommended
Fibre							
28.	21277; IC0643975 INGR22021	PAUFL 1	Cotton/ <i>Gossypium arboreum</i>	Mutant of desi cotton variety LD 327	Lintless. Fuzzless. Trichomeless.	Dr. Dharminder Pathak, PAU, Ludhiana, Punjab	Recommended
Millets							

29.	22043; IC0644006 INGR22022	VR 1141	Finger millet/ <i>Eleusine coracana</i>	Pedigree selection from VR 708 x GPU 48	Banded Blight Resistance	Dr. T.S.S.K. Patro, ARS, Vizianagaram, Andhra Pradesh	Recommended
30.	22041; IC0644004 INGR22023	VR 1122	Finger millet/ <i>Eleusine coracana</i>	Selection from VR 708 x GPU 48	Finger Blast Resistance.	Dr. T.S.S.K. Patro, ARS, Vizianagaram, Andhra Pradesh	Recommended
31.	22069; IC0288432 INGR22024	SPV 2804	Sorghum/ <i>Sorghum bicolor</i>	SPV 2804 (Selection from IC 0288432)	More Leaf Stem Ratio (0.32). Low HCN Content (40.9%).	Dr. RB Ghorade, PDKV, Akola Maharashtra	Recommended
32.	22070; IC0643757 INGR22025	SPV 2805	Sorghum/ <i>Sorghum bicolor</i>	SPV 2805 (Selection from IC 40921)	Longer Leaves (86.5 cm). More Plant Height (276 cm). More Number of Leaves per Plant (12.9).	Dr. RB Ghorade, PDKV, Akola Maharashtra	Recommended
33.	21218; IC0643980 INGR22026	SPV 2596 (SM-2288-3)	Sorghum/ <i>Sorghum bicolor</i>	Sorghum MR750 x Maize CM208	High fresh stalk yield. High biomass. Sorghum x maize cross derivative.	Dr. KBRS Visarada, ICAR-IIMR, Hyderabad, Telangana	Recommended
34.	22012; IC0643968 INGR22027	IS 1212-4-1-1	Sorghum/ <i>Sorghum bicolor</i>	Selection from IS 1212: IS 1212-4- 1-1	High oil content (3.14% to 4.76%). Hard seed with bigger germ size (r = 0.484).	Dr. Aruna C, ICAR-IIMR, Hyderabad, Telangana	Recommended
35.	22013; IC0643969 INGR22028	IS31714-2-1-1	Sorghum/ <i>Sorghum bicolor</i>	Selection from IS 31714: IS 31714- 2-1-1	High oil content (3.14% to 4.76%). Very bold seed with medium hardness and small germ size (r = 0.484).	Dr. Aruna C, ICAR-IIMR, Hyderabad, Telangana	Recommended
36.	22021; IC0643970 INGR22029	SPV 2017	Sorghum/ <i>Sorghum bicolor</i>	SPV 2017= (CSV 15 X IS 21891)-1- 1-1-1	High in-vitro true digestibility of dry matter (TDDM/IVDMD), Organic matter digestibility (OMD) and Metabolisable energy content (ME). Low Acid Detergent Fibre (ADF) and Acid Detergent Lignin (ADL) content.	Dr. AV Umakanth ICAR-IIMR, Hyderabad, Telangana	Recommended

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37.	22042; IC0644005 INGR22030	VR 1128	Finger millet/ <i>Eleusine coracana</i>	Pedigreed method of selection from Uduru malligae x GPU 48	Neck Blast Resistance.	Dr. T.S.S.K. Patro, ARS, Vizianagaram, Andhra Pradesh	Recommended
38.	21309; IC0643981 INGR22031	SPV 2595 (SM-2144-8)	Sorghum / <i>Sorghum bicolor</i>	27A Sorghum × CM211 Maize	Higher brix and total sugars (14.3%), early maturing. Early maturing (116 days). Early flowering (80 days).	Dr. KBRS Visarada, ICAR-IIMR, Hyderabad, Telangana	Recommended
39.	22024; IC0483093	LMV 533	Little Millet/ <i>Panicum sumatrense</i>	Pureline selection from GPmr 6	Early flowering (48-50 days) and early maturity (80-83 days) with grain and fodder yield advantage.	Dr Ganapathy KN, ICAR-IIMR, Hyderabad, Telangana	Deferred: To be considered in the next meeting after receiving comment from one more expert.
40.	22071; IC0618375 INGR22032	WWN 55	Finger millet/ <i>Eleusine coracana</i>	Pure line selection form White finger millet lines WWN-55 (WAGHAI WHITE NAGLI- 55)	Bold White Grains (3.14 g). Longer Finger length (12.27 cm). Multi-fingers ear head (10.13 cm).	Dr. HE Patil, HMRS, NAU, Waghai, Dangs, Gujarat	Recommended
41.	22020; IC0643979 INGR22033	GPU28-2081	Finger millet/ <i>Eleusine coracana</i>	Gamma mutant derived from GPU 28 variety (GPU28-2081)	Longer finger length (10.7 cm).	Dr. Ganapathy KN, ICAR-IIMR, Hyderabad, Telangana	Recommended
42.	22016; IC0643959	IIMR FxM-7 (FXV 645)	Foxtail Millet/ <i>Setaria italica</i>	Selection from ISe 1593	Early duration with high grain yield. Multiple disease resistance. Thick and Compact inflorescence.	Dr Hariprasanna K. ICAR-IIMR, Hyderabad, Telangana	Deferred: To be considered in the next meeting after receiving comment from one more expert.
43.	22019; IC0643966 INGR22034	Glumeless mutant DHBM93-3	Barnyard Millet/ <i>Echinochloa frumentacea</i>	DHBM 93-3-8-3- 32-43	Glumeless florets and seeds.	Dr. Amasiddha B, ICAR-IIMR, Hyderabad, Telangana	Recommended
44.	21317; IC0643982 INGR22035	170-SB-19 (J- 2642)	Pearl millet/ <i>Pennisetum glaucum</i>	(J-2532 X J- 2571)-23-1-1-B-B	High Fe content (84 ppm). High Zn content (50 ppm).	Dr. KD Mungra, PMRS, JAU, Jamnagar, Gujarat	Recommended
Grain legumes							
45.	21279; IC0643985	GJG 1803	Chickpea/ <i>Cicer</i>	GJG 0604 x JG 14	Wilt resistant.	Dr. MK Chudasama, Pulses Research	Not Recommended: The chickpea line GJG 1803 has been evaluated under

			<i>arietinum</i>			Station, JAU, Junagadh, Gujarat	<p>Plant pathology trial of AICRP on chickpea during 2019-20 and 2020-21. Since the proposed line do not exhibit stable resistance against wilt it is not recommended for registration.</p> <p>Wilt resistance of the chickpea genotype GJG1803 was claimed based on AICRP data of two years. In the year 2019-20, the per cent incidence ranged from 0 - 35.4% and in 2020-21, it ranged from 5.8-64.6 percent. It was evaluated different locations of NEPZ, CZ, SZ during 2019-20 and CZ, NWPZ, NEPZ and SZ in 2020-21. The race difference must be there in different locations, and details of the same was not provided. Information was not provided whether it was evaluated in sick plot in all the locations. Publication was not provided. Seed materials was not deposited in the gene bank. Confirmation of resistance at lab and molecular level is highly required. Due to inconsistency of resistance and want of confirmation, the proposal is not recommended.</p>
46.	21302; IC0644001	CSJ 556	Chickpea/ <i>Cicer</i> <i>arietinum</i>	BG 391 x RSG 973	Resistant to moderately resistant to Dry Root Rot.	Dr. SK Jain RARI, Durgapura Jaipur, Rajasthan	Not Recommended: The proposed line CSJ 556 has shown susceptibility reaction to dry root rot at many locations, hence it is not recommended for registration.



47.	21213; IC0643991	HPKM317	Horse Gram/ <i>Macrotyloma uniflorum</i>	HPKC 2 as the original line	Dwarf (32.33cms). Determinante growth habit. Synchronous maturity.	Dr. RK Chahota, CSKHPKV Palampur Himachal Pradesh	Not Recommended: This mutant line is dwarf type (height 32.33cms) with determinate growth habit and synchronous maturity. These are very important traits to grow horse gram as a sole crop. It also has 4-5 pods/cluster, photo insensitivity and early flowering and medium maturity. Since this genotype was evaluated in 2008-2009 and therefore further validation is required under current scenario with available varieties. Hence it is not recommended for registration.
48.	21215; IC0643992	HPKM191	Horse Gram/ <i>Macrotyloma uniflorum</i>	Mutant line developed from HPKC2 through gamma radiation	Very early maturing. Semi- dwarf. Synchronous maturity.	Dr. RK Chahota, CSKHPKV Palampur Himachal Pradesh	Deferred: To be considered in the next meeting after receiving comment from one more expert.
49.	22028; IC0643972	PSL-17	Lentil/ <i>Lens culinaris</i>	L-4076 x PSL-11	Salt tolerance (ECe-5.8- 6.7dS/m).	Dr. Dharmendra Singh ICAR-IARI, Pusa Campus, New Delhi	Deferred: To be considered in the next meeting after receiving comment from one more expert.
50.	22029; IC0643973	PHL-3	Lentil/ <i>Lens culinaris</i>	JL-3 x PDL-2	Heat tolerance (up to 33.4°C).	Dr. Dharmendra Singh ICAR-IARI, Pusa Campus, New Delhi	Not Recommended: The proposal is based on one-year data only. Further, the proposed genetic stock is inferior to six other materials in a multilocational trial. Tolerance of heat stress required more data on different phonological and growth parameters for validation. Hence not recommended for registration. Insufficient, non-replicative, and non-conclusive data claiming the heat tolerance line PHL3. Only one year's AICRP data from a single place is not sufficient to register as a heat tolerance lentil genotype.

51.	22096; EC499760 INGR22036	EC499760	Lentil/ <i>Lens culinaris</i>	Selection from original accession, EC499760	Bold seed (7.1-7.83g).	Dr. Kuldeep Tripathi, ICAR-NBPGR Pusa Campus, New Delhi	Recommended
52.	22097; IC0241532 INGR22037	IC241532	Lentil/ <i>Lens culinaris</i>	Selection from original accession, IC241532	Early flowering (51 days) and maturity (93 days).	Dr. Kuldeep Tripathi, ICAR-NBPGR Pusa Campus, New Delhi	Recommended
53.	22095; IC0241529	IC241529	Lentil/ <i>Lens culinaris</i>	Selection from original accession, IC241529	Early flowering (51 days) and maturity (93 days).	Dr. Kuldeep Tripathi, ICAR-NBPGR Pusa Campus, New Delhi	Not Recommended: No novelty.
54.	22098; IC0259504 INGR22038	IC259504	Wild Bean/ <i>Vigna vexillata</i>	Selection from original accession	Highly resistant to bruchid.	Dr. Kuldeep Tripathi, ICAR-NBPGR Pusa Campus, New Delhi	Recommended
55.	22072; IC0248326 INGR22039	IC0248326	Wild Bean/ <i>Vigna vexillata</i>	Introduction	Resistant against <i>Callosobruchus maculatus</i>	Dr. Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
56.	22082; IC0331436 INGR22040	IC331436	Wild Bean/ <i>Vigna stipulacea</i>	selection from collected germplasm	Early flowering (20 days after sowing). Early maturity (49 days after sowing).	Dr. Padmavathi Gore, ICAR-NBPGR Pusa Campus, New Delhi	Recommended
57.	22065; IC0251442 INGR22041	IC251442	Rice bean/ <i>Vigna umbellata</i>	Direct introduction	Highly resistant to <i>Callosobruchus maculatus</i> F.	Dr Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
58.	22092; IC009634 INGR22042	IC009634	Rice Bean/ <i>Vigna umbellata</i>	selection from collected germplasm	very bold seeds, weighing 37.44 g of 100 seed weight.	Dr. Padmavathi Gore, ICAR-NBPGR Pusa Campus, New Delhi	Recommended

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59.	20070; IC0640783 INGR22043	IPF 2014-16	Pea/ <i>Pisum sativum</i>	IPF 99-25 x Arkel	Moderately resistant to rust.	Dr. AK Parihar, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
60.	21310; IC0640781 INGR22044	IPFD 18-26	Pea/ <i>Pisum sativum</i>	DDR 23 x VRP 22	Extra early flowering & maturity. Green seeded. Resistance to powdery mildew and rust.	Dr. AK Parihar, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
61.	21229; EC564814	EC564814	Pea/ <i>Pisum sativum</i>	K-8764/	Field pea genotype with intact/extended funiculus. Dwarf and Leafy type.	Dr. AK Parihar, ICAR-IIPR, Kanpur Uttar Pradesh	Not Recommended: Already a better line of the same claimed trait of extended funicle of Pea as EC564816 is recommended for registration.
62.	21230; EC564816 INGR22045	EC564816	Pea/ <i>Pisum sativum</i>	K-8736/	A semi-leafless field pea genotype with intact/extended funiculus.	Dr. AK Parihar, ICAR-IIPR, Kanpur Uttar Pradesh	Recommended
63.	22006; IC0643988	PEVAR-5 (KS 601)	Pea/ <i>Pisum sativum</i> subsp. Hortense	KS 136 x Arkel	High green pod yield. Pod length. Ten pod Wight.	Dr. PK Singh CSAUK, Kanpur Uttar Pradesh	Not Recommended: Out of 15 locations only at two locations this entry gave highest pod yield, therefore, it cannot be recommended for registration. The present genotype does not have any novelty trait, as claimed for higher yield (early maturity group) in vegetable peas. As itself shown in data there are other genotypes/check performing better than the claimed genotypes at most of the locations. Even the location showing higher yield for claimed genotype, the yield is statistically insignificant when compared to checks in most of the cases. On the other hand, yield is complex traits govern by many factors. It is important to work out the genotypic × environments interaction for such complex traits and must check for its stability under different growing environments. Therefore, the present

							genotype is not recommended for registration.
64.	22066; IC0251385	IC251385	Mung Bean/ <i>Vigna mungo</i> var. mungo	Introduction	Highly resistant against <i>Callosobruchus chinensis</i> .	Dr. Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Deferred: To be considered in the next meeting after receiving comment from one more expert.
65.	21267; IC0641993 INGR22046	IPM 526-11	Mung Bean/ <i>Vigna radiata</i>	PDM139 x SPS 87	Highly resistant to yellow mosaic disease caused by Mungbean yellow mosaic India virus	Dr. Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
66.	21268; IC0641994	IPM 08-11	Mung Bean/ <i>Vigna radiata</i>	PDM139 x EC398894	The genotype is highly resistant against yellow mosaic disease caused by Mungbean yellow mosaic India virus.	Dr. Aditya Pratap, ICAR-IIPR, Kanpur, Uttar Pradesh	Not recommended: No novelty

Vegetables

67.	17027; IC0643986	DBL-08	Brinjal/ <i>Solanum melongena</i>	Progeny selection of a cross of DBL-21 and 129-5	It is tolerant to high temperature. Suitable for growing during May-July when temperature exceed 40oC. It contains high proline and high antioxidant enzymes which leads to heat tolerance.	Dr. Partha Saha, ICAR-IARI, Pusa Campus, New Delhi	Deferred: The genotype may be evaluated for its performance in the heat stress conditions for one more year and published data of the supporting biochemical (Proline and SOD) assays may be annexed before re-submitting the application. Acceptance and quality of fruits may be considered.
68.	21312; IC0642345	IIHR 144-1	Bitter gourd/ <i>Momordica charantia</i> var. muricata	Selection from germplasm, IIHR-144	Resistant to powdery mildew (<i>Podosphaera xanthii</i> U. Braun & Shishkoff) Dark green, deeply lobed leaves. Fruit is small, dark green, discontinuous ridges	Dr. B Varalakshmi, ICAR-IIHR, Bengaluru, Karnataka	Deferred: To be considered in the next meeting after receiving comment from one more expert.

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69.	20123; IC0643987 INGR22047	DMR-2-0-7	Cauliflower/ <i>Brassica</i> <i>oleracea</i> var. botrytis	Progeny selection from a cross of 3-5-1-1 (resistant to downy mildew) × DC-466 (Susceptible to downy mildew)	Highly resistant to downy mildew disease (c.o. <i>Hyaloperonospora parasitica</i>). Carry single dominant gene Ppa207 for downy mildew resistance. The resistant gene Ppa 207 was mapped in 4.8 cM linkage interval on linkage group 2 (C02) of cauliflower, flanked by the markers BoGMS0486 and BoGMS0900 at 3.6 and 1.2 cM, respectively.	Dr. Partha Saha, ICAR-IARI, Pusa Campus, New Delhi	Recommended
70.	21273; IC0642002	DPCh-9 (Him Palam Yellow)	Chilli/ <i>Capsicum</i> <i>annuum</i>	Selection from hybridizaion between Chilli Sonal and Surajmukhi (F5 - 2-2)	Yellow colored fruits. Rich in β-carotene. Suitable for summer or summer rainy season.	Dr. Akhilesh Sharma, CSKHPKV, Palampur Himachal Pradesh	Deferred: “Supporting biochemical evaluation data should be obtained from at least two environments/seasons”. The proposed germplasm DCPH-9 has been claimed to have high beta carotene content but the amount of beta carotene has not been quantified in the claimed line and no documentary evidence has been produced in this regard as well as suitability for summer season cultivation. At least two seasons Biochemical analysis data of β-carotene pigment may be produced from the developer as supportive documents.
71.	21104; IC0643967 INGR22048	Newar landrace from Jaunpur	Radish/ <i>Raphanus</i> <i>sativus</i>	Mandi Naseeb Khan Jaunpur, Uttar Pradesh	High tolerance to irrigation water salinity (ECiw 8-10 dS/m) and soil sodicity (pHs 8.5)	Dr. Anshuman Singh, ICAR-CSSRI, Karnal, Haryana	Recommended
72.	21305; IC0644011 INGR22049	H-88-78-1	Tomato/ <i>Solanum</i> <i>lycopersicum</i>	Tomato genotype ‘H-88-78-1’ was developed through wide hybridization followed by	Root Knot Nematode resistance. <i>Alternaria solani</i> resistance. ToLCV resistance and Heat tolerance.	Dr. YS Reddy, ICAR-IIVR, Varanasi, Uttar Pradesh	Recommended

				pedigree method of breeding from a cross between Selection-7 × B6013. B6013 is a <i>Solanum habrochaites</i> (<i>Lycopersicon hirsutum</i> f. <i>glabratum</i>) accession			
Oilseeds							
73.	21275; IC0	Somatic hybrid (H1 * B. j. cv NPJ-212)	Indian Mustard/ <i>Brassica juncea</i>	(<i>B. juncea</i> + <i>S. alba</i>) * B. j cv NPJ-212	Resistant against <i>Alternaria brassicae</i> . High yeild potential on the Somatic hybrid H1. Short height and duration than the H1.	Dr. DK Yadava, ICAR-Krishi Bhavan, New Delhi	Deferred: As per the supporting paper "Stable, fertile somatic hybrids between <i>Sinapis alba</i> and <i>Brassica juncea</i> show resistance to <i>Alternaria brassicae</i> and heat stress", the screening for <i>Alternaria brassicae</i> was done on detached leaves which do not give clear understanding about the trait. The two germplasms may be deferred for want of more supporting document/data.
74.	22004; IC0643977 INGR22050	Allohexaploid Brassica (JS2)	Indian mustard/ <i>Brassica juncea</i>	<i>B. juncea</i> + <i>S. alba</i>	Resistant against <i>Sclerotinia sclerotiorum</i> . Half yellow and half brown (mottle seed colour). High male and female fertility.	Dr. DK Yadava, ICAR-Krishi Bhavan, New Delhi	Recommended
75.	21314; IC0	Somatic hybrid (H2 * B. j. cv NPJ-212)	Indian mustard/ <i>Brassica juncea</i>	(<i>B. juncea</i> + <i>S. alba</i>) * B. j cv NPJ-212	Resistant for <i>Alternaria brassicae</i> . High yeild potential on the Somatic hybrid H2. Short height and duration than the H2.	Dr. DK Yadava, ICAR-Krishi Bhavan, New Delhi	Deferred: As per the supporting paper "Stable, fertile somatic hybrids between <i>Sinapis alba</i> and <i>Brassica juncea</i> show resistance to <i>Alternaria brassicae</i> and heat stress", the screening for <i>Alternaria brassicae</i> was done on detached leaves which do not give clear understanding about the trait. The two germplasms may be deferred for want of more supporting document/data.

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76.	21315; IC0643976 INGR22051	Allohexaploid Brassica (JS1)	Indian mustard/ <i>Brassica juncea</i>	(<i>B. juncea</i> + <i>S. alba</i>)	Resistant against <i>Sclerotinia sclerotiorum</i> . Yellow seed colour. stable somatic hybrid.	Dr. DK Yadava, ICAR-Krishi Bhavan, New Delhi	Recommended
77.	21055; IC0643960 INGR22052	EC523368-2 (GMU-7399)	Safflower/ <i>Carthamus tinctorius</i>	Selection from EC-523368 designated as EC- 523368-2 (GMU- 7399)	Tolerance to safflower aphid (<i>Uroleucon compositae</i> Theobald).	Dr N. Mukta, ICAR-IIOR, Hyderabad, Andhra Pradesh	Recommended
Medicinal and Aromatic Plants							
78.	22037; IC0643989 INGR22053	Dedia P-1	Basil/ <i>Ocimum sanctum</i>	The accession 'Dedia P-1' is diverse for unique morphological parameters and chemical content. It was collected from Dediapada, Gujarat (21° 38' N 73° 35' E) and maintained at the Directorate of Medicinal and Aromatic Plants Research (DMAPR), Anand.	Unique dark purple leaf colour. Maximum essential oil content (0.28 %). Maximum eugenol content (60%), β-caryophyllene (14%) and β-elemene content (14%).	Dr. PL Saran, ICAR-DMAPR Ananad, Gujarat	Recommended
79.	22038; IC0627270 INGR18044	DOS-1	Basil/ <i>Ocimum sanctum</i>	The accession 'DOS-1' is diverse for morphological parameters and chemical content. It was collected from Mogar, Anand, Gujarat (22° 54' N 73° 02' E) and maintained at the Directorate	Medium-dark green leaf colour with light green stem and inflorescence colour. Rich in methyl eugenol (81.0 %) content.	Dr. PL Saran, ICAR-DMAPR Ananad, Gujarat	This material is already registered (INGR 18044) with NBPGR, the additional trait will be added in database.


				of Medicinal and Aromatic Plants Research (DMAPR), Anand.			
80.	22039; IC0643990 INGR22054	DOB-5	Basil/ <i>Ocimum basilicum</i>	The accession 'DOB-5' is diverse for morphological parameters and chemical content. It was collected from social forestry area of Bhadra, Rajasthan (22.9747° N, 88.4337° E) and maintained at the Directorate of Medicinal and Aromatic Plants Research (DMAPR), Anand.	Light green new leaf margin with club type purple coloured inflorescence. Maximum essential oil content (0.50 %) in herbage. Maximum Linalool (32.13%), β -elemene (2.53%) and Germacrene D (3.32%) content.	Dr. PL Saran, ICAR-DMAPR, Ananad, Gujarat	Recommended
81.	21304; IC0590895 INGR22055	HD-6 (CIARI-Sampada)	Noni/ <i>Morinda citrifolia</i>	Local Germplasm	Big fruit (140-160 g), high pulp recovery. Vigorous plant (3-4 m) and year round yielder.	Dr. I Jaisankar, ICAR- CIARI, Port Blair, A and N Islands	Recommended
82.	21306: IC0590905	TRA-1 (CIARI-Samridhi)	Noni/ <i>Morinda citrifolia</i>	Local Germplasm	Small fruit (55-60 g) high yield due to more number of fruits. Dwarf stature (1.7 - 2.5 m) year round yielder.	Dr. I Jaisankar, ICAR- CIARI, Port Blair, A and N Islands	Deferred: To be considered in the next meeting after receiving comment from one more expert.
Ornamental							

83.	22079; IC0633777 INGR22056	IIHR-4	Tube rose/ <i>Polianthes</i>	Mexican Single x Pearl Double	Double type flower compactly arranged on short spike.	Dr. T Usha Bharathi, ICAR-IIHR Bengaluru,	Recommended
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			<i>tuberosa</i>		More number of flowers open at a time (7.10). Resistant to root knot nematode (<i>Meloidogyne incognita</i>).	Karnataka	
Fruits and Nuts							
84.	21228; IC0250498 INGR22057	IC No. 250498	Banana/ <i>Musa spp.</i>	Borchampa	Resistant to <i>Fusarium oxysporum</i> f. sp. cubense (Foc) race 1 (VCG 0124).	Dr. S Uma, ICAR-NRCB, Trichy, Tamil Nadu	Recommended
85.	21231; IC0250650 INGR22058	NRCB0197	Banana/ <i>Musa spp.</i>	Poovan	Resistant to <i>Fusarium oxysporum</i> f. sp. cubense (Foc) race 1 (VCG 0124).	Dr. S Uma, ICAR-NRCB, Trichy, Tamil Nadu	Recommended
86.	21233; IC0250462 INGR22059	NRCB 0009	Banana/ <i>Musa spp.</i>	Borjahaji	Resistant to <i>Fusarium oxysporum</i> f.sp. cubense (Foc) race 1 (VCG0124).	Dr. S Uma, ICAR-NRCB, Trichy, Tamil Nadu	Recommended
87.	21234; IC0251061 INGR22060	NRCB0608	Banana/ <i>Musa spp.</i>	William	<i>Fusarium oxysporum</i> f. sp. cubense Foc race 1 (VCG0124)	Dr. S Uma, ICAR-NRCB, Trichy, Tamil Nadu	Recommended
88.	21235; IC0250503 INGR22061	NRCB0050	Banana/ <i>Musa spp.</i>	Karthobiumtham	<i>Fusarium oxysporum</i> f. sp. cubense Foc race 1 (VCG0124). Resistant to <i>Pratylenchus coffeae</i> .	Dr. S Uma, ICAR-NRCB, Trichy, Tamil Nadu	Recommended
Tubers							
89.	21313; IC0644002 INGR22062	MSP/15-26	Potato/ <i>Solanum tuberosum</i>	Clonal selections from the segregating progenies of cross Bareilly Red × CP3770	MSP/15-26 is an elite cultivated potato clone (<i>Solanum tuberosum</i> ; 2n=4x=48). Possessing high carotenoids in flesh. Yellow flesh colour with red vascular ring.	Dr. SK Luthra, ICAR-CPRI, Regional Station, Meerut, Uttar Pradesh	Recommended
90.	21316; IC0644003 INGR22063	MSP/15-51	Potato/ <i>Solanum tuberosum</i>	Clonal selections from the segregating progenies of cross Bareilly Red × CP3770	MSP/15-51 is an elite cultivated potato clone (<i>Solanum tuberosum</i> ; 2n=4x; 48). High ascorbic acid in flesh. Distinct red purple flesh.	Dr. SK Luthra, ICAR-CPRI, Regional Station, Meerut, Uttar Pradesh	Recommended

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