

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

Proceedings of the 51st Meeting of Plant Germplasm Registration Committee

The 51st Plant Germplasm Registration Committee (PGRC) meeting was held in virtual mode on November 22, 2023 (02:30 PM) under the Chairmanship of Dr. TR Sharma, Deputy Director General (Crop Science), ICAR. 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 (Seed), ICAR, Krishi Bhavan, New Delhi	Member
3.	Dr Gyanendra Pratap Singh	Director, ICAR-National Bureau of Plant Genetic Resources, Pusa campus, New Delhi	Member
4.	Dr Sharat Kumar Pradhan	ADG (Food & Fodder Crops) ICAR, New Delhi	Member
5.	Dr Sanjeev Gupta	ADG (Oilseeds & Pulses) ICAR, New Delhi	Member
6.	Dr VB Patel	ADG (Horticultural Science-II) ICAR, KAB-II, Pusa campus, New Delhi	Member
7.	Dr RM Sundaram	Director, ICAR-Indian Institute of Rice Research, Hyderabad, Telangana	Member
8.	Dr GP Dixit	Director, ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh	Member
9.	Dr Gyanendra Singh	Director, ICAR-Indian Institute of Wheat and Barley Research, Karnal, Haryana	Member
10.	Dr KH Singh	Director, ICAR-Indian Institute of Soybean Research, Indore, Madhya Pradesh	Member
11.	DR Mahendra Kr. Verma	Director, ICAR-Central Institute of Temperate Horticulture, Srinagar, Jammu and Kashmir	Member
12.	Dr Vijay Mahajan	Director, ICAR-Directorate Of Onion And Garlic Research, Pune, Maharashtra	Member
13.	Dr RK Mathur	Director, ICAR-Indian Institute of Oilseeds Research, Hyderabad, Telangana	Member
14.	Dr Shailesh Tripathi	Project Coordinator (AICRP on <i>Rabi</i> Pulses), ICAR-Indian Institute of Pulses Research, Uttar Pradesh	Member
15.	Dr KV Prasad	Director, ICAR-Directorate of Floricultural Research, Pune, Maharashtra	Member
16.	Dr C Aruna	Principal Scientist, ICAR-Indian Institute of Millets Research, Rajendranagar, Hyderabad, Telangana	Nominee of the Director

17.	Dr Rajiv Kumar	Principal Scientist, ICAR-Indian Institute of Horticultural Research, Bengaluru, Karnataka	Nominee of the Director
18.	Dr P Gobindraj	Principal Scientist, ICAR-Sugarcane Breeding Institute, Coimbatore, Tamil Nadu	Nominee of the Director
19.	Dr Vinod Kumar	Head & Principal Scientist, ICAR-Central Potato Research Institute, Shimla, Himachal Pradesh	Nominee of the Director
20.	Dr VV Singh	Principal Scientist, ICAR-Directorate of Rapeseed-Mustard Research, Bharatpur, Rajasthan	Nominee of the Director
21.	Dr Chikkappa GK	Sr Scientist & In Charge, ICAR-Indian Institute of Maize Research (Unit), Pusa Campus, New Delhi	Nominee of the Director
22.	Dr P Sanghamitra	Scientist, ICAR-National Rice Research Institute, Cuttack, Odisha	Nominee of the Director
23.	Dr Anju Mahendru Singh	Head, Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member Secretary
24.	Dr RK Gautam	Head, Division of Germplasm Evaluation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member
25	Dr Anjali Kak Koul	Principal Scientist, Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member of the PGRC Team

At the outset, Dr. Gyanendra Pratap Singh, Director, ICAR-NBPGR welcomed the Chairman, ADGs and the PC/PD/Invitees from different institutes and thanked the Chairman for holding the meetings at regular intervals. The Chairman appreciated the efforts of NBPGR in registering the potentially valuable trait specific germplasm.

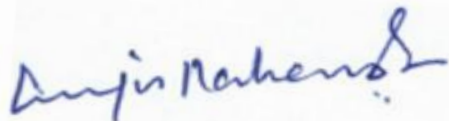
After the Chairman's remarks, Dr. Anju Mahendru Singh, the Member-Secretary, PGRC, apprised the committee members about the changes made in the processing of online applications as per revised PGRC guidelines (Third Edition, 2023). The minutes of the 50th meeting were presented and were adopted as such after the confirmation by the Chairman.

Each of the 65 proposals were presented and discussed in detail. Recommendations of the committee for each proposal have been summarized in the enclosed table. Accordingly, 58 proposals belonging to 25 crop species are approved for registration. Out of these three new species viz *Clausena heptaphylla*, *Caladium* sp. and *Manilkara zapota* have been recommended for registration. Four applications are deferred for further action by developers as per the comments in the enclosed table.

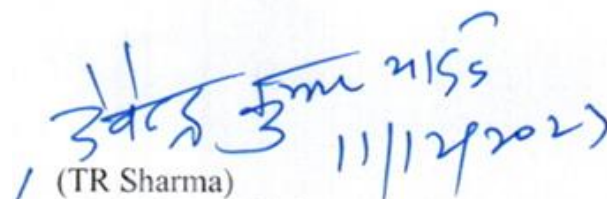
Following recommendations emerged during the discussion in the 51st PGRC meeting:

- Temporary staff (such as JRF, SRF *etc.*) and students may be included as co-developers if they are associated for two or more years in the development /evaluation of the germplasm. A copy of the period of association of the temporary staff with the developers issued by office may be attached with the proposal.
- It was recommended to obtain 4000 number of seeds of self-pollinated & 6000 number of seeds for cross pollinated crop germplasm. Except in cases where large quantities are difficult to obtain, approval of Director/ Head, DGC, NBPGR in such cases may be sought while applying.
- For enhancing the utilization of the registered germplasm, Directors/PC/PD of respective crops may ensure inclusion of registered germplasm as genetic stock nurseries in the AICRP Programmes.
- Provision of online presentation by NBPGR on the registered germplasm and its unique features may be ensured in the AICRP workshops.

In the end, the Member-Secretary thanked the chairperson, ADGs, Directors, PC/PDs & their nominees for their valuable inputs. The Member-Secretary also thanked all the experts for reviewing the proposals and sending their comments timely.



(Anju Mahendru Singh)
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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51st Germplasm Registration Committee Meeting, November 22, 2023:
Summary of New Proposals with Recommendations

S. No.	App. No./ National Id.	Crop/ Botanical Name	Other Identity	Pedigree	Potentially valuable features	Corresponding author	Recommendations of PGRC
Cereals							
1.	23085; IC0650728 INGR23068	Rice/ <i>Oryza sativa</i>	IL19273, 19273, FBL 19273	Krishna Hamsa/ Tetep//Krishna Hamsa/IR 96321- 1447-561-B-1/// Krishna Hamsa/ IRBB 60	Multiple tolerance to sheath blight, sheath rot, RTD, leaf blast and neck blast diseases Drought tolerance-high yield under reproductive stage drought stress	Dr Jyothi Badri, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
2.	23086; IC0650729 INGR23069	Rice/ <i>Oryza sativa</i>	IRGC 39111	NA	Strong culm	Dr Jyothi Badri, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
3.	23087; IC0650730 INGR23070	Rice/ <i>Oryza sativa</i>	IL 19101, FBL 19101, FBL 19102, IL 19102, RP 6614-101, RP 6614-102	WGL14/Improved Samba Mahsuri// WGL 14/RP Bio Patho-1///WGL 14/RP Patho- 3//WGL 14/RP 5925-24///WGL 14/RP 5925- 23//WGL 14/IR 96321-1447-561- B-1///WGL 14/IR 81896-96-B-B- 195//WGL 14/IR 74371-46-1-1- 13/////WGL 14/Rathuheenati	Resistance to gall midge Resistance to bacterial blight Resistance to blast	Dr Jyothi Badri, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
4.	23088; IC0650767 INGR23071	Rice/ <i>Oryza sativa</i>	IL 19471, IET 29834	Krishna Hamsa / IRBB60// Krishna Hamsa / RP Bio Patho 3///Krishna Hamsa/Tetep	Reproductive stage drought tolerance Resistance to blast and bacterial blight	Dr Jyothi Badri ICAR-IIRR, Hyderabad, Telangana	Recommended for registration

5.	23082; IC0635486 INGR23072	Rice/ <i>Oryza sativa</i>	MCM 109	MTU 2716/BPT 5204	Salt tolerance (EC-5 to 11.95ds/m)	Dr M Girija Rani, ANGRAU, ARS, Machilipatnam, Andhra Pradesh	Recommended for registration
6.	21260; IC0650731 INGR23073	Rice/ <i>Oryza Sativa</i>	CRR751-1-12- B-B (IET 28033)	IR 64 Sub1*4 / IR 88287-367-B-B	Tolerance to reproductive stage drought stress Tolerance to Submergence Resistance to blast disease	Dr. BC Patra, ICAR-NRRI Cuttack, Odisha	Recommended for registration
7.	23118; IC0650732 INGR23074	Rice/ <i>Oryza sativa</i>	IET29482 (RP6211- PR/RIL-Q181)	PR116 × Ranbir Basmati	High grain Zn content (28.22ppm) in polished rice grain High Protein content (8.08%) in polished rice grain	Dr. CN Neeraja, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
8.	23120; IC0650734 INGR23075	Rice/ <i>Oryza sativa</i>	IET29484 (RP6204- MB/RIL-J159)	MTU1010 × BR 2655	High grain Zn content (24.32 ppm) in polished rice grain	Dr. CN Neeraja, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
9.	23119; IC0650733 INGR23076	Rice/ <i>Oryza sativa</i>	RP6257- SJ3(Sampada× Jaya /3)	Sampada × Jaya	High and stable grain yield under N-Low, N-50 and N-100 fertilizer input High Nitrogen use Efficiency under N-Low and N-50 input	Dr. CN Neeraja, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration
10.	23121; IC0650735 INGR23077	Rice/ <i>Oryza sativa</i>	RP6252- BV/RIL/1689 (CNN1)	BPT5204 Varadhan ×	High and stable grain yield under N-Low, N-50 and N-100 fertilizer input. High Nitrogen Use Efficiency under N-Low and N-50 input. High nutrient (NPK) uptake and high grain yield under native sodic soil conditions (without gypsum amendment; pH 8.5 – 10.0) across field locations under AICRIP testing	Dr. CN Neeraja, ICAR-IIRR, Hyderabad, Telangana	Recommended for registration

11.	23160; IC0	Rice/ <i>Oryza sativa</i> var. <i>indica</i>	MTU1290 (IE 28007)	MTU 1010/ FL478//*3MTU 1010	Tolerance to Salinity	Dr. T Srinivas, RARS, Maruteru Andhra Pradesh	Not recommended: As MTU 1290, is an already released variety, hence, not recommended
12.	22040; IC0642306 INGR23078	Wheat/ <i>Triticum</i> <i>durum</i>	GW 2018-936	LON/2/DUKEM 2//GREEN 38/P 7228	High grain Zinc content (47.1 ppm) High grain protein content (13.9%)	Dr JM Patel, Wheat Research Station, SDAU, Vijapur, Gujarat	Recommended for registration
13.	22239; IC0648497 INGR23079	Wheat/ <i>Triticum</i> <i>aestivum</i>	TAW186	HD2733/Dhadwad dry//Catbird	Drought tolerance: drought sensitivity index (DSI) of 0.682 Heat tolerance: heat sensitivity index of (0.69)	Dr Suman Bakshi, BARC, Mumbai, Maharashtra	Recommended for registration
14.	22320; IC0648496 INGR23080	Wheat/ <i>Triticum</i> <i>aestivum</i>	TAW185	HD2281/NW1014	High thousand kernel weight (49g)	Dr Suman Bakshi, BARC, Mumbai, Maharashtra	Recommended for registration
15.	22321; IC0648495 INGR23081	Wheat/ <i>Triticum</i> <i>aestivum</i>	TAW41	Gamma ray induced mutant of HD2967	Resistant to spot blotch disease Terminal heat tolerance	Dr Suman Bakshi BARC, Mumbai, Maharashtra	Recommended for registration
16.	23084; IC0	Wheat/ <i>Triticum</i> <i>aestivum</i> subsp. <i>aestivum</i>	Doubled Haploid-455	Sr22/3*K441//2*P BW550/3/AUS914 63/3*PBW550	Stem rust resistance due to gene <i>Sr22</i> Stripe rust resistance due to gene <i>Yr57</i>	Dr. Prashanth Babu H, ICAR-IARI, Pusa Campus, New Delhi	Deferred: Documentary proof of the validation/presence of genes with molecular markers may be provided as other rust resistant genes can produce the same result
17.	23180; IC0650736 INGR23082	Wheat/ <i>Triticum</i> <i>aestivum</i>	HW3654	LOK1(<i>Sr2+</i>) *3/ RL6144 (<i>Lr45</i>) //Cook (<i>Sr36/ Pm6</i>)	One major gene each for stem rust (<i>Sr36</i>), leaf rust (<i>Lr45</i>) and powdery mildew (<i>Pm6</i>) resistance Adult plant rust resistance genes (<i>Sr2/Lr27/Sr30</i>) Resistance to the prevailing stem rust, leaf rust and powdery mildew pathotypes of India	Dr Vikas VK, ICAR-IARI RS Wellington, Tamil Nadu	Recommended for registration

18.	23181; IC0650737 INGR23083	Wheat/ <i>Triticum aestivum</i>	HW 3655	MACS 2496 (<i>Sr2+</i>)*3/ RL6144 (<i>Lr45</i>) //Cook (<i>Sr36/Pm6</i>)	One major gene each for stem rust (<i>Sr36</i>), leaf rust (<i>Lr45</i>) and powdery mildew (<i>Pm6</i>) resistance Adult plant rust resistance genes (<i>Sr2/Lr27/Sr30</i>) Resistance to the prevailing stem rust, leaf rust and powdery mildew pathotypes of India	Dr Sivasamy M, ICAR-IARI RS Wellington, Tamil Nadu	Recommended for registration
19.	23107; IC0650738 INGR23084	Barley/ <i>Hordeum vulgare</i>	DWRBG15 (tested as HLR-136)	Selection from the land race accession IC0313162 (Doury Chamba, Himachal Pradesh)	High Protein (14.6%) High β -glucan (6.0 %)	Dr Chuni Lal, ICAR-IIWBR, Karnal, Haryana	Recommended for registration
20.	23131; IC0650739 INGR23085	Barley/ <i>Hordeum vulgare</i>	DWRBG16 (tested as HLR-240)	Pure line selection from the land race IC82717 (Chango Yangthang Kinnaur Himachal Pradesh)	High β -glucan (6.1 %)	Dr Chuni Lal, ICAR-IIWBR, Karnal, Haryana	Recommended for registration
21.	23132; IC0	Barley/ <i>Hordeum vulgare</i>	DWRBG18; BCLA51	DWRB101*2/BCU 390	High foliar aphid resistance	Dr. Rekha Malik, ICAR-IIWBR Karnal, Haryana	Deferred: One more year multilocation data to be provided
22.	23136; IC0650740 INGR23086	Barley/ <i>Hordeum vulgare</i>	DWRBG19; RMB2103	DWRB101*2/SLO OP SAWL 3167	Low grain β -glucan content (3.7% dwb)	Dr. Rekha Malik, ICAR-IIWBR Karnal, Haryana	Recommended for registration
23.	23152 IC0650741 INGR23087	Barley/ <i>Hordeum vulgare</i>	IC0138110-Sel	Selection from IBON (1991-92)-125-IC0138110	Early heading Early maturity	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended for registration
24.	22304; IC0650742 INGR23088	Barley/ <i>Hordeum vulgare</i>	IC113045-Sel	Selection from IC113045	Drought tolerance at seedling and adult plant stage	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended for registration

Millets							
25.	23147; IC0650743 INGR23089	Pearl Millet/ <i>Pennisetum glaucum</i>	J-2648 (298-SB- 21)	ICMS 7704-S1-80- 2-1-1-2-2-1-B-B- B × JBV 3 S1 -237- 1-3-3-1-B- 20(long)-14-1-1-1- B	High Fe content (95ppm) High Zn content (53ppm)	Dr. KD Mungra, PMRS, JAU Jamnagar, Gujarat	Recommended for registration
26.	23149; IC0650744 INGR23090	Pearl Millet/ <i>Pennisetum glaucum</i>	J-2571	(MC 94 C2-S1-3-2- 2-2-1-3-B-B × ICMR 312 S1-3-2- 3-2-1-1-B-B)-B-34- 4-1	Resistant to Downy Mildew High grain Iron content (81 ppm) High grain zinc content (49.5ppm)	Dr. KD Mungra, PMRS, JAU Jamnagar, Gujarat	Recommended for registration
Grain Legumes							
27.	23067; IC0650745 INGR23091	Black Gram/ <i>Vigna mungo</i>	IPU99-43	Selection from IC519914	High seed iron (162 mg/kg) concentration	Dr Debjyoti Sen Gupta, ICAR-IIPR, Kanpur Uttar Pradesh	Recommended for registration
28.	23072; IC0650746 INGR23092	Black Gram/ <i>Vigna mungo</i>	HPU120S	Selection from HPU-120	High seed Zinc concentration (54 mg/kg)	Dr Debjyoti Sen Gupta, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended for registration
29.	23090; IC0	Lentil/ <i>Lens culinaris</i>	ILL7663-Sel	ILL7663 is a selection from ILL7663 (An ICARDA line derived from ILL4403 × ILL5604 cross)	Unique morphotype forming only 1-2 flowers/pods on a peduncle	Dr. Gyan P Mishra, ICAR-IARI, Pusa Campus, New Delhi	Not recommended: No novelty
30.	23092; IC0650748 INGR23093	Lentil/ <i>Lens culinaris</i>	L4717-NM a natural mutant (NM)	L4717-NM is a natural mutant identified from an Indian lentil variety L4717 (IC241240)	Seed-coat color anomalies due to altered anthocyanin pathway	Dr. Gyan P. Mishra, ICAR-IARI, Pusa Campus, New Delhi	Recommended for registration
31.	22260; IC0650747 INGR23094	Lentil/ <i>Lens culinaris</i>	ILWLS 118	Selection from wild accession ILWL 118	Early flowering (30-40 days) Early maturity(80-92 days)	Dr. Jitendra Kumar, ICAR-IIPR Kanpur, Uttar Pradesh	Recommended for registration

32.	23191; IC0643972 INGR23095	Lentil/ <i>Lens culinaris</i>	PSL-17	L-4076 x PSL-11	High salt tolerance (ECe- 5.8-6.7dS/m)	Dr. Dharmendra Singh, ICAR-IARI, Pusa Campus, New Delhi	Recommended for registration
33.	23093; IC0650749 INGR23096	Mung Bean/ <i>Vigna radiata</i>	PMR-1	Selection from a mungbean genotype KM-14- 44	Resistance to MYMIV infection under North Indian conditions	Dr. Gyan P. Mishra, ICAR-IARI, Pusa Campus, New Delhi	Recommended for registration
34.	23142; IC0418452	Mung Bean/ <i>Vigna radiata</i>	IC0418452	Selection from Original Accession (Source: Desh Bandu gram North Andaman Andaman and Nicobar Islands)	Resistance to Bean Common Mosaic Virus (BCMV)	Dr. Kuldeep Tripathi, ICAR-NBPGR Pusa Campus, New Delhi	Deferred: Disease evaluation data of three more environments should be provided
35.	23193; IC0650750 INGR23097	Mung Bean/ <i>Vigna radiata</i>	PMS-12	Pusa Vishal x MH- 318	High salt tolerance (RSC iw:4 me/l; ECiw:5dS/m, pH-8.8)	Dr Dharmendra Singh, ICAR-IARI, Pusa Campus, New Delhi	Recommended for registration
Vegetables							
36.	23117; IC0650751 INGR23098	Chilli/ <i>Capsicum annuum</i>	DCA-107	Selection from the germplasm	Resistance to Chilli Veinal Mottle Virus (ChiVMV) disease Single gene inheritance pattern of ChiVMV	Dr. Prabhudeva A, UHSB-HREC Devihosur, Karnataka	Recommended for registration
37.	23076; IC0650138	Shimla Mirch/ <i>Capsicum annuum</i> var. <i>annuum</i>	CPCT-144 / CPCT-144-23	Selection from KTC-144	Resistance to Phytophthora leaf blight against isolate Belgaum MZ479061 in seedling stage Hard fruit, dark green at immature stage	Dr Hemlata Bharti, ICAR-IARI, Pusa Campus, New Delhi	Not Recommended: Four environment data of screening against the Phytophthora blight source of resistance is not available
38.	22210; IC0650752 INGR23099	Onion/ <i>Allium cepa</i>	POS35	Inbred line development from PWR followed by sibmating	High salinity tolerance (EC _{iw} 7dS/m)	Dr. Anil Khar, ICAR-IARI Pusa Campus, New Delhi	Recommended for registration

Oilseeds							
39.	23145 IC0650753 INGR23100	Castor/ <i>Ricinus communis</i>	JI 449	(JP-91 x PCS-124) x JI-258)	Wilt resistance Male monoecious line	Dr Rajeshkumar B. Madariya, MORS, JAU, Junagadh, Gujarat	Recommended for registration
40.	23171 IC0	Castor/ <i>Ricinus communis</i>	PCS-337	JHB-985 x PRC-2	High 100 seed weight (35.3 g in rainfed & 38.2 g in irrigated conditions) Wilt Resistance	Dr K. Sadaiah RARS, PJTSAU, Palem, Telangana	Deferred: One more year/ environment data to be provided
41.	23101; IC0589658 INGR20004	Indian Mustard/ <i>Brassica juncea</i>	RDV 29 or PMW 18 (IC589658)	Germplasm collection from Chettalli Kodagu Karnataka	Resistance to White rust	Dr J. Nanjundan, ICAR-IARI RS, Wellington, Tamil Nadu	Recommended for registration
42.	23105; IC0650754 INGR23101	Soybean/ <i>Glycine max</i>	YMV 16 (NRCSL 8)	JS 335 x Glycine soja	Resistance to multiple diseases (YMD, charcoal rot, Rhizactonia aerial blight) Moderate resistance to Asian soybean rust Possesses alleles from <i>Glycine soja</i> : an ancestor of cultivated soybean <i>Glycine max</i>	Dr. Shivakumar M, ICAR-IISR, Indore, Madhya Pradesh	Recommended for registration
Spices							
43.	23083; IC0584058 INGR23102	Lesser Cardamom/ <i>Elettaria cardamomum</i>	CRC 436/ APG 474	Germplasm collection from Kundalli, Kodagu Karnataka	Compact flowering. Bold capsules (80% of capsules >7mm) Relative tolerance to moisture stress	Dr SJ Ankegowda, ICAR-IISR RS, Appangala, Karnataka	Recommended for registration
Fruits & Nuts							
44.	23056; IC0647748 INGR23103	Apple/ <i>Malus x domestica</i>	DDK	Royal Delicious (Keylong, Lahaul & Spiti Himachal Pradesh)	Solid fruit peel colour (Greyed purple group - 187- B) Early fruit peel colour	Dr. DP Sharma, YSPUHF Nauni, Solan, Himachal Pradesh	Recommended for registration

					(Two weeks earlier) Early maturity (Two weeks earlier)		
45.	23061; IC0647749 INGR23104	Apple/ <i>Malus x domestica</i>	TKL	Royal Delicious (Tholang, Keylong, Lahaul & Spiti Himachal Pradesh)	Solid fruit peel colour (Red group - 46 - A) Early fruit peel colour (15 - 20 days earlier) Early maturity (Two weeks earlier)	Dr. DP Sharma, YSPUHF Nauni, Solan, Himachal Pradesh	Recommended for registration
46.	23062; IC0647750 INGR23105	Apple/ <i>Malus x domestica</i>	DSK	Royal Delicious (Reckong Peo Kalpa Kinnaur Himachal Pradesh)	Unique fruit peel colour (Red group - 39 - A) Early fruit peel colour (Two weeks earlier) Early maturity (Two weeks earlier)	Dr. DP Sharma, YSPUHF Nauni, Solan, Himachal Pradesh	Recommended for registration
47.	23063; IC0647751 INGR23106	Apple/ <i>Malus x domestica</i>	PSK	Kalpa, Kinnaur, Himachal Pradesh	Solid fruit peel colour (Greyed purple group - 187- A) Early fruit peel colour (Three weeks earlier) Early maturity (Two weeks earlier).	Dr. DP Sharma, YSPUHF Nauni, Solan, Himachal Pradesh	Recommended for registration
48.	22285 IC0644473 INGR23107	Avocado/ <i>Persea americana</i>	CHES-PAXIII-1; ST/13-1/	High yielding and high pulp recovery selection from open pollinated seedlings	High pulp recovery (80%) High Fruit Weight (450-600g) Flowering type B	Dr Muralidhara BM, CHES-Chettalli Bengaluru, Karnataka	Recommended for registration
49.	23129; IC0642151 INGR23108	Sapota/ <i>Manilkara zapota</i>	CHES-Sapota-1	Cricket Ball	Extra-large fruit (6.7 cm x 6.6 cm) High fruit weight (158.8 g). Yield (42 kg/plant)	Dr. PC Tripathi ICAR-IIHR, Bangalore Karnataka	Recommended for registration

Medicinal & Aromatic Plants							
50.	22316; IC0650755 INGR23109	Pan Machala/ <i>Clausena heptaphylla</i>	Jor Lab CH-2	Collection from Makum, Tinsukia, Assam	High leaf essential oil (more than 1.22 %) It has anethole (>90%)	Dr Mohan Lal, CSIR-NEIST, Jorhat, Assam	Recommended for registration
51.	22276; IC0646863 INGR23110	Shrubby Basil/ <i>Ocimum gratissimum</i>	DOGr-3	Collection from Bali (24° 52' N 75° 72' E), Chenpuriya near Gandhisagar Dam, M.P. and maintained at the Directorate of Medicinal and Aromatic Plants Research (DMAPR), Anand.	Leaf shape is broadly ovate Rich in eugenol (75.45%) content	Dr. PL Saran, ICAR-DMAPR Anand, Gujarat	Recommended for registration
Ornamental							
52.	23074; IC0630499 INGR23111	Marigold/ <i>Tagetes erecta</i>	KAU M-1	Purposive selfed (The local collection from Cherpu, Thrissur, Kerala)	Resistance to bacterial wilt	Dr Sreelatha, KAU , Vellanikkara, Kerala	Recommended for registration
53.	23113; IC0630500 INGR23112	Marigold/ <i>Tagetes erecta</i>	KAU M-2	Purposive selfed (The local collection from Kodakara, Thrissur, Kerala)	Resistance to bacterial wilt	Dr Sreelatha, KAU , Vellanikkara, Kerala	Recommended for registration
54.	22313; IC0650756 INGR23113	Elephant Ears / <i>Caladium</i> sp.	Jor Lab CL- 36	Collection from Nongpoh, R-Bhoi, Meghalaya	Olive green leaf colour Pink leaf spot. Red midrib	Dr Mohan Lal, CSIR-NEIST, Jorhat, Assam	Recommended for registration
55.	23042; IC0650757 INGR23114	Elephant Ears / <i>Caladium</i> sp.	Jor-Lab CL- 24	Collection from Dyagrung, East Siang, Arunachal Pradesh	Green color leaf Red midrib color Pink and white leaf spots	Dr Mohan Lal CSIR-NEIST, Jorhat, Assam	Recommended for registration
56.	23039;	Elephant Ears /	Jor-Lab CL-	Collection from	Leaf color green	Dr Mohan Lal,	Recommended for

	IC0650758 INGR23115	<i>Caladium</i> sp.	12	Roing, Lower Dibang Valley, Arunachal Pradesh	Midrib color green Three leaf spot pink/red/white	CSIR-NEIST, Jorhat, Assam	registration
57.	23040; IC0650759 INGR23116	Elephant Ears / <i>Caladium</i> sp.	Jor-Lab CL-54	Collection from Kachugaon, Golaghat, Assam	Green/white contrast leaf color White midrib color White leaf spot	Dr Mohan Lal, CSIR-NEIST, Jorhat, Assam	Recommended for registration
58.	23041; IC0650760 INGR23117	Elephant Ears / <i>Caladium</i> sp.	Jor-Lab C-115	Collection from Dergaon, Golaghat, Assam	Leaf color pink with green margin Midrib dark pink Leaf spot absent	Dr Mohan Lal, CSIR-NEIST, Jorhat, Assam	Recommended for registration
Commercial Crops							
59.	23151; IC0650761 INGR23118	Sugarcane/ <i>Saccharum officinarum</i>	SBI/2022/ CoM 11086/302/	CP 52-1 PC	Resistance to whip smut under artificial inoculation	Dr. SV Nalawade CSRS, Padegaon, Maharashtra	Recommended for registration
60.	23155; IC0650762 INGR23119	Sugarcane/ <i>Saccharum officinarum</i>	SBI/2022/Co M13082/303/	CoM 0265PC Other (OT (Hybridization and selection)	Resistance to whip smut under artificial condition	Dr. SV Nalawade CSRS, Padegaon, Maharashtra	Recommended for registration
Tubers							
61.	22326; IC0650763 INGR23120	Potato/ <i>Solanum tuberosum</i>	MS/8-1148/ CP4480	Clonal selection from the segregating progenies of cross Kufri Surya x CP3125	Cultivated clone (<i>Solanum tuberosum</i> ; 2n=4x; 48) High vitamin C content (77.7 mg/100g FTW)	Dr. SK Luthra, ICAR-CPRI, RS, Modipuram, Uttar Pradesh	Recommended for registration

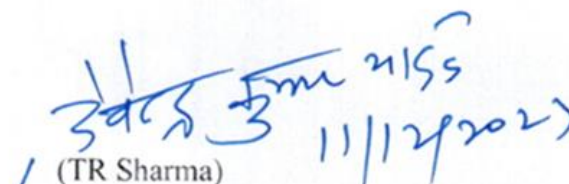
Summary of Deferred Proposals of previous PGRC Meeting with Recommendations

S. No.	App. No./ National Id.	Crop/ Botanical Name	Proposer Identity	Pedigree	Potentially valuable features	Corresponding author	Recommendations of PGRC
Cereals							
1.	23003; IC0646727 INGR23121	Rice/ <i>Oryza sativa</i>	AC43160	Landrace (Bagabil, Padmabil, West Tripura, Tripura)	High total anthocyanin (116.76 mg/100g) High total gammaoryzanols (86.26 mg/100g) High total phenolic content (788.18 mg/100g) High total flavonoid content (221.27 mg/100g) High ABTS Activity germplasm (3163.94.AAE/g). Low phytic acid content (0.16 g/100g)	Dr. Priyadarsini S, ICAR-NRRI, Cuttack, Odisha	Recommended for registration
2.	22032 IC0644600 INGR23122	Maize/ <i>Zea mays</i>	V 603	CM 152 x PDH-8 (EC928979)	Ligule less Early maturing	Dr. RK Khulbe, ICAR-VPKAS Almora, Uttarakhand	Recommended for registration
3.	22033 IC0644601 INGR23123	Maize/ <i>Zea mays</i>	V 604	CM 152 x PDH-8 (EC928979)	Liguleless Extra early maturing	Dr. RK Khulbe, ICAR-VPKAS Almora, Uttarakhand	Recommended for registration

Spices							
4.	22307; IC0624520 INGR23124	Fenugreek/ <i>Trigonella</i> <i>foenumgraecu</i> <i>m</i>	IC624520;OM /AKS-8	Others (Collection from Mathaniya Osian Jodhpur Rajasthan)	Extra early maturing (93 days)	Dr. Omvir Singh, ICAR-IIWBR, Karnal, Haryana	Recommended for registration



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