



जननद्रव्य संरक्षण विभाग
Division of Germplasm Conservation
भा कृ अनु प-राष्ट्रीय पादप आनुवंशिक संसाधन ब्यूरो
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Dr Veena Gupta

Head (Acting)

Member Secretary, Plant Germplasm Registration Committee

No./CONS/PGRC/2019

October 23, 2019

Sub: The XXXXth Meeting of Plant Germplasm Registration Committee.

Respected Sir:

Please find enclosed the proceedings of the XXXXth meeting of Plant Germplasm Registration Committee held on October 21, 2019 at 10.00 hrs in Dr HB Singh Committee Room at ICAR-NBPGR, Pusa Campus, New Delhi. This is for your kind perusal and approval to enable us to circulate the same to the members, relevant institutes and the Directors, Project Directors and Project Coordinators of ICAR.

Thanks and best regards.

Put up for approval.

V. G. (Acting) 24/10/2019

Yours sincerely

Veena Gupta
(Veena Gupta) 23/10/19

Encl: Proceedings of the XXXXth meeting of PGRC.

Dr A K Singh
Deputy Director General (Crop Science) &
Chairman, Plant Germplasm Registration Committee
Indian Council of Agricultural Research (ICAR)
Krishi Bhawan, Dr Rajendra Prasad Road
New Delhi-110 001

Copy to: (i) Dr DK Yadava, ADG (Seeds), Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, New Delhi-110 114.
(ii) Dr Kuldeep Singh, Director, ICAR-NBPGR, New Delhi-110 012, for his kind
Information.

डायरी सं ५२२ बीज अनुभाग
Dy. No. 25/10/2019 Seed Section
दिनांक/Date

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

Proceedings of the XXXXth Meeting of Plant Germplasm Registration Committee
(PGRC) held at ICAR-NBPGR, New Delhi
(October 21, 2019)

The XXXXth meeting of PGRC was held on **October 21, 2019** from 10:00 hrs. onwards in the Dr H.B. Singh Committee Room, ICAR -NBPGR, New Delhi. The following members/invitees were present:

1.	Dr. AK Singh	DDG (CS)-Acting, Indian Council of Agricultural Research, New Delhi	Chairman
2.	Dr. DK Yadava	ADG (Seeds), Indian Council of Agricultural Research, New Delhi	Member
3.	Dr. RK Singh	ADG (CC) and (F&FC)-Acting, Indian Council of Agricultural Research, New Delhi	Member
4.	Dr. WS Dhillion	ADG (Hort.-II), Indian Council of Agricultural Research, KAB-II, Pusa Campus, New Delhi	Member
5.	Dr. Kuldeep Singh	Director, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member
6.	Dr. SC Dubey	Head, Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member
7.	Dr. GP Singh	Director, Indian Institute of Wheat and Barley Research, Karnal, Haryana	Member
8.	Dr. Jagdish Singh	Director (Acting), ICAR-Indian Institute of Vegetable Research, Varanasi-221 305, Uttar Pradesh	Member
9.	Dr. VS Bhatia	Director, ICAR-Indian Institute of Soybean Research, Indore, Madhya Pradesh	Member
10.	Dr. PK Rai	Director (Acting), ICAR-Directorate of Rapeseed-Mustard Research, Bharatpur, Rajasthan	Member
11.	Dr. P Manivel	Representative of Director, ICAR-Directorate of Medicinal & Aromatic Plants Research, Anand, Gujarat	Member
12.	Dr. AK Roy	Project Coordinator, AICRP on Forage Crops, ICAR-Indian Grassland and Fodder Research Institute, Jhansi-284 003, Uttar Pradesh	Member
13.	Dr. GP Dixit	Project Coordinator, AICRP on Chickpea, ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh	Member

14.	Dr. Sanjeev Gupta	Project Coordinator, AICRP on MULLaRP, ICAR-Indian Institute of Pulses Research , Kanpur, Uttar Pradesh	Member
15.	Dr. Beena Nair	Linseed Breeder, AICRP on Linseed & Mustard, College of Agriculture, Nagpur, Maharashtra	Member
16.	Dr. Vinod Kumar	Representative of Director, ICAR-Central Potato Research Institute, Shimla, Himachal Pradesh	Member
17.	Dr. BC Patra	Representative of Director, ICAR-National Rice Research Institute, Cuttack, Odisha	Member
18.	Dr. BK Singh	Senior Scientist, ICAR-Indian Institute of Vegetable Research, Varanasi-221 305, Uttar Pradesh	Special invitee
19.	Dr. Ashok Kumar	Head, Division of Germplasm Evaluation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Special invitee
20.	Dr. Anjali Kak Koul	Principal Scientist, Division of Germplasm, Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Special invitee
21.	Dr. Veena Gupta	Head (Acting), Division of Germplasm Conservation, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi	Member Secretary

Dr. AK Singh, DDG (CS-Acting), Chairman, PGRC chaired the meeting. Dr. Kuldeep Singh Director, ICAR-NBPGR welcomed the Chairman and all the experts from different Institutes. Dr AK Singh emphasized that efforts should made to enhance the registration of trait specific germplasm.

The minutes of the XXXIXth meeting of PGRC that were circulated to all the members were adopted as such after the confirmation of the Chairman.

Following recommendations emerged during the discussion in PGRC meeting:

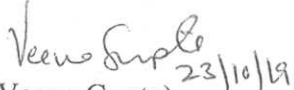
- The proposal should be sent for comments to at least two subject experts. In case the comments are not received in time, the same may be sent to concerned ADG for his comments/suggestions.
- In case of exotic lines received for registration, if any intervention is made by depositor, it should be given IC-number with original EC number in the parentage.

A total of 98 proposals were received for registration. Out of that 19 were reverted back and 79 were considered for registration along with comments 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 PGRC for each proposal has been summarized in the enclosed table. Finally, 73 proposals belonging to 24 species were approved for registration.

346466/2019/seeds

For three proposals, the committee suggested resubmission with additional data or sought clarifications which may be considered in next PGRC meeting. Three proposals were not approved.

The meeting ended with vote of thanks to the Chair and other members.


(Veena Gupta) 23/10/19
Member Secretary, PGRC
ICAR-National Bureau of Plant Genetic Resources
Pusa Campus, New Delhi-110 012

(AK Singh)
DDG (CS) & Chairman, PGRC
Indian Council of Agricultural Research
Krishi Bhawan, New Delhi-110 001

XXXXth Germplasm Registration Committee Meeting October 21, 2019: 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.	18097; IC0599610 INGR19033	Kamini (IC599610)	Rice/ <i>Oryza sativa</i>	Pureline selection	Kamini (AC 44118) tolerant to Salinity stress.	Dr. BC Patra, ICAR-NRRI, Cutback, Odisha	Recommended
2.	19063; IC0596460 INGR19034	Talmugur (AC 43228)	Rice/ <i>Oryza sativa</i>	Landrace	Tolerant to salinity stress at vegetative stage.	Dr. BC Patra, ICAR-NRRI, Cutback, Odisha	Recommended
3.	19064; IC0599610 INGR19035	Chettivirippu (AC 39394)	Rice/ <i>Oryza sativa</i>	Landrace	Tolerant to salinity stress both at seedling and reproductive stage.	Dr. BC Patra, ICAR-NRRI, Cutback, Odisha	Recommended
4.	19012; IC0632071 INGR19036	RP5972- 13-1-6-67- 129-266	Rice/ <i>Oryza sativa</i>	Swarna/MTU101 0*2	The new rice line, RP5972-13-1-6-67-129-266 developed in the background of MTU1010 showed Tolerance to Low soil Phosphorous condition. Present in the background of MTU1010 with about 95.2% background recovery of the recurrent parent genome and yields more than MTU1010.	Dr. RM Sundaram, ICAR-IIRR, Hyderabad, Telangana	Recommended
5.	19017; IC0121865 INGR19037	IC121865	Rice/ <i>Oryza sativa</i>	Not available	Resistance to blast disease.	Dr. Ruchi Bansal, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
6.	19018; IC0199562 INGR19038	IC199562	Rice/ <i>Oryza sativa</i>	Not available	Resistance to blast disease.	Dr. Ruchi Bansal, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
7.	19033; IC0632074 INGR19039	NH219 (RP Bio 5477- NH219)	Rice/ <i>Oryza sativa</i>	NAGINA22	Mutant NH219 gives higher yield than Nagina22 in normal and high temperature conditions. Dark green leaves, drought tolerant.	Dr. N Sarla, ICAR-IIRR, Hyderabad, Telangana	Recommended

8.	19146; IC0 INGR19040	NH162 (RP Bio 5477- NH162); NH162 EMS induced mutant of aus variety Nagina22	Rice/ <i>Oryza sativa</i>	NAGINA22	Seed hull dark and apiculus black. Mutant NH162 is drought tolerant, gives higher yield than Nagina22 in normal, drought and aerobic conditions. It is functionally stay green with dark green leaves, drought tolerant, higher yielder in aerobic condition. Seed hull dark and seed type is slender.	Dr. N Sarla, ICAR-IIRR, Hyderabad, Telangana	Recommended
9.	19055; IC0632075 INGR19041	RP Bio 4918-230S	Rice/ <i>Oryza sativa</i>	<i>Oryza sativa</i> (Swarnavar)/ <i>Oryza nivara</i> (accession no. IRGC 81848 S)	Novel donor for resistance to Brown planthopper (BPH) <i>Nilaparvata lugens</i> in rice. Possesses high resistance at vegetative and reproductive stages. Present in the elite genetic background of popular commercial variety Swarna.	Dr. Jhansi Lakshmi, ICAR-IIRR, Hyderabad, Telangana	Recommended
10.	19004; IC0415843 INGR19042	BH 1146	Wheat/ <i>Triticum aestivum</i>	Fronteira/ Mentana/Ponta Grossa1	Tolerance to waterlogging. Resistance to spot blotch.	Dr. Gyanendra Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
11.	19011; IC0630581 INGR19043	RWP 2014- 18	Wheat/ <i>Triticum aestivum</i>	DBW22/DBW30	Short duration genotype. High 1000-grain weight.	Dr. Ravish Chatrath, ICAR-IIWBR, Karnal, Haryana	Recommended
12.	19014; IC0529962 INGR19044	IC529962	Wheat/ <i>Triticum aestivum</i>	Collection from Almora Uttarakhand	Highly resistant to spot blotch (<i>Bipolaris sorokinina</i>). Stability for grain yield performance.	Dr. Jyoti Kumari, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
13.	19019; IC0529684 INGR19045	IC529684	Wheat/ <i>Triticum aestivum</i>	VFW-2299, Collection from Almora	Highly resistant to spot blotch (<i>Bipolaris sorokinina</i>).	Dr. Jyoti Kumari, ICAR-NBPGR,	Recommended

						Pusa Campus, New Delhi	
14.	19015; IC0290150 INGR19046	IC290150	Wheat/ <i>Triticum aestivum</i>	Not available	Resistant to stem rust, leaf rust and stripe rust pathotypes prevalent in Indian condition. Based on linked marker analysis, this germplasm has combination of different leaf rust, stem rust, stripe rust and spot blotch resistance genes Lr46+, Lr67+, Yr5, Yr15, Yr36, Yr48, Sr13, Sr24/Lr24, Qsb.bhu-2B	Dr. Sundeep Kumar, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
15.	19054; IC0630582 IC0630583 INGR19047	DCMS 1A & 1B	Wheat/ <i>Triticum aestivum</i>	CMS 1A (MTSA 2A/BCN)/8*PBW 343	New CMS (A) line in PBW 343 background with diversified CMS source (CMS1A) along with maintainer (B) line	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
16.	19056; IC0630584 IC0630585 INGR19048	DCMS 2A & 2B	Wheat/ <i>Triticum aestivum</i>	CMS 10A (CHUAN 18A/CHUAN 18B//7*KAUZH EVO)/8*PBW 343	New CMS (A) line in PBW 343 background with diversified CMS source (CMS 10A) along with maintainer (B) line.	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
17.	19057; IC0630586 IC0630587 INGR19049	DCMS 4A & 4B	Wheat/ <i>Triticum aestivum</i>	CMS 12A (CHUAN18A/CH UAN18B/3/7* SER/NKT//2*K ALUZ)/8*PBW 343	New CMS (A) line in PBW 343 background with diversified CMS source (CMS 12A) along with maintainer (B) line	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
18.	19058; IC0630588 IC0630589 INGR19050	DCMS 5A & 5B	Wheat/ <i>Triticum aestivum</i>	CMS 13A (CHUAN 18A/CHUAN 18B//7*CMH80A 542/CNO79)/8*P BW 343	New CMS (A) line in PBW 343 background with diversified CMS source (CMS 13A) along with maintainer (B) line	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended

19.	19059; IC0630590 IC0630591 INGR19051	DCMS 6A & 6B	Wheat/ <i>Triticum aestivum</i>	CMS 17A (CHUAN18A/3/7 *KAUZ*2/MNV/ /KAUZ)/8*PBW 343	New CMS (A) line in PBW 343 background with diversified CMS source (CMS 17A) along with maintainer (B) line	Dr. SK Singh, ICAR-IIWBR, Karnal, Haryana	Recommended
20.	19144; IC0632081 INGR19052	QLD112	Wheat/ <i>Triticum aestivum</i>	BABAX/LR42//B ABAX/5/ BOW//BUC/BUL /3//WEAVER/4/S TAR/6/ VL908	Soft Grain Genotype.	Dr. Gopalareddy K, ICAR-IIWBR, Karnal, Haryana	Recommended
21.	19145; IC0632082 INGR19053	QLD102	Wheat/ <i>Triticum aestivum</i>	BOW//BUC/BUL /3//WEAVER/4/S TAR/5/PBW502/ 6/PBW533//H981 1/ WH542	High Sedimentation Value.	Dr. Gopalareddy K, ICAR-IIWBR, Karnal, Haryana	Recommended
22.	19142; IC0 INGR19054	IIWBR Phy 1	Wheat/ <i>Triticum aestivum</i>	Mutant of PBW 502 a wheat variety.	The High phytase level in the background of PBW 502 a high yielding wheat variety for NWPZ. Low phytic acid.	Dr. Sewa Ram, ICAR-IIWBR, Karnal, Haryana	Recommended
23.	19124; IC113045 INGR19055	IC113045/ F-13/	Barley/ <i>Hordeum vulgare</i>	Germplasm collection	Extra dwarf plant stature along with early maturity in six-rowed and hulled genetic background.	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
24.	19127; IC113052 INGR19056	IC113052	Barley/ <i>Hordeum vulgare</i>	Germplasm collection	Long spikes coupled with more number of grains/spike in two- rowed and hullless genetic background.	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
25.	19125; EC667420 INGR19057	EC667420	Barley/ <i>Hordeum vulgare</i>	Germplasm collection	Early maturing hooded barley in six-rowed and hulled genetic background	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
26.	19150; EC492301 INGR19058	EC492301	Barley/ <i>Hordeum vulgare</i>	Selection from landrace accession	Awnless spikes.	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended

				IG26310 (as per Genesys).			
27.	19151; IC0542197 INGR19059	IC542197	Barley/ <i>Hordeum vulgare</i>	Germplasm collection	Early maturity in two-rowed and huskless genetic background.	Dr. VIKENDER KAUR, ICAR-NBPPGR, Pusa Campus, New Delhi	Recommended
28.	19092; IC0624790	CRTM-2	Maize/ <i>Zea mays</i>	Mutant derivative	Maize with effective tillers (with cobs) and seed.	Dr. N. Jyothi Lakshmi, ICAR-CRIDA, Hyderabad, Telangana	Not Recommended: The breeding methodology and claim are not very convincing. When any claim is made on biomass per ha yield should be calculated, per plant data is extremely misleading.
Forages							
29.	19053; IC0632083 INGR19060	S 614- 13/SPV22 63	Sorghum/ <i>Sorghum bicolor</i>	HJ 513 x IS 2389- 1 p29-1-3-4 selfed up to F6 generation	IVDMD 56%. Anthracnose Resistance.	Dr. DS Phogat, Forage Section, CCS HAU, Hisar, Haryana	Recommended
30.	18015; EC397366 INGR19061	IG96-401	Buffel grass/ <i>Cenchrus ciliaris</i>	selection collected materials from	Rich in sugar (more than 7%). Suitable for ensiling (Silage preparation). Prostrate growth habit	Dr. Sultan Singh, ICAR-IGFRI, Jhansi Uttar Pradesh	Recommended
31.	18145; IC0630758 INGR19062	IG 96-50	Buffel grass/ <i>Cenchrus ciliaris</i>	Selection collected material from	High water soluble carbohydrate. Good for silage preparation. leaf colour pale-low chlorophyll content.	Dr. Sultan Singh, ICAR-IGFRI, Jhansi Uttar Pradesh	Recommended
32.	18146; IC0630759 INGR19063	IG 96-96	Buffel grass/ <i>Cenchrus ciliaris</i>	selection collected germplasm from	High water soluble carbohydrate. Good for silage preparation.	Dr. Sultan Singh, ICAR-IGFRI, Jhansi Uttar Pradesh	Recommended
33.	19041; IC0632070 INGR19064	SM2254-8	Sorghum/ <i>Sorghum bicolor</i>	Sorghum parent (126A) pollinated with maize line (CM208)	Sorghum forage line derived from Intergenic, sorghum x maize cross. Low HCN. High IVDMD	Dr. KBRSS Visarada, ICAR-IIMR, Hyderabad, Telangana	Recommended

Grain Legumes												
34.	19030; EC724523 INGR19065	EC724523	Cowpea/ <i>Vigna unguiculata</i>	Selected from IITA core set.	Resistant to root-knot nematode, <i>Meloidogyne incognita</i> .	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
35.	19031; EC723686 INGR19066	EC723686	Cowpea/ <i>Vigna unguiculata</i>	Selected from IITA core set	Resistant to root-knot nematode, <i>Meloidogyne incognita</i>	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
36.	19130; EC725122 INGR19067	EC725122; TVu-9544	Cowpea/ <i>Vigna unguiculata</i> subsp. <i>unguiculata</i>	Selection from exotic collection	Resistance to root knot nematode (<i>M. incognita</i>)	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
37.	19022; IC559673 INGR19068	IC559673	Lentil/ <i>Lens culinaris</i>	Selection from collected germplasm	Resistant to root-knot nematode.	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
38.	19024; IC208329 INGR19069	IC208329	Lentil/ <i>Lens culinaris</i>	Not available	High Protein content (27.4 %-28.5%)	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
39.	19026; IC0208326 INGR19070	IC208326	Lentil/ <i>Lens culinaris</i>	Not available	High Protein content (27.4-28.06 %)	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
40.	19027; IC0559890 INGR19071	IC559890	Lentil/ <i>Lens culinaris</i>	Selected from collected germplasm	Resistant to root-knot nematode, <i>Meloidogyne incognita</i> .	Dr. NK Gautam, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
41.	19128; IC317520 INGR19072	IC317520	Lentil/ <i>Lens culinaris</i>	DARL/BK/471/	Extended funiculus. Fast water uptake.	Dr. KuldeepTripathi, ICAR-NBPGR, Pusa Campus, New Delhi						Recommended
42.	19034; IC0120963	IC120963	Moth Bean/ <i>Vigna</i>	Others	Extra Early maturing (53 days)	Dr. Omvir Singh, ICAR-NBPGR						Recommended

	INGR19073		<i>aconitifolia</i>			Regional Station Jodhpur, Rajasthan	
43.	18010; IC039289 INGR19074	IC39289	Mung Bean/ <i>Vigna radiata</i>	Others	Early maturing genotype (50 days).	Dr. Omvir Singh, ICAR-NBPGR Regional Station Jodhpur, Rajasthan	Recommended
44.	19118; IC0241565 INGR19075	P-637	Pea/ <i>Pisum sativum</i>	IC-241565	Post emergence herbicide (Metribuzin) tolerant	Dr. AK Parihar, ICAR-IIPR, Kanpur, Uttar Pradesh	Recommended
45.	19147; IC0632084 INGR19076	AL 1747	Pigeon Pea / <i>Cajanus cajan</i>	<i>Cajanus scarabaeoides</i> ICPW 213 x AL 201	Moderately resistant to pod borer. Indeterminate growth habit. Early maturing (130-140 days).	Dr. Sarvjeet Singh, PAU, Ludhiana, Punjab	Recommended
Vegetables							
46.	19039; IC0630592 INGR19077	VRPM-901-5	Pea/ <i>Pisum sativum</i>	This garden pea genotype 'VRPM-901-5' producing five flowers per peduncle at multiple flowering nodes was developed by using single plant selection approach from a cross 'VL-8 x PC-531'	Capable to produce 3-5 pods/peduncle at multiple flowering nodes (Multi-podded genotype).	Dr. Jyoti Devi, ICAR-IIVR, Varanasi, Uttar Pradesh	Recommended
47.	19071; IC0 INGR19078	DC 8441-5	Cauliflower/ <i>Brassica oleracea</i> var. <i>botrytis</i>	Ogura male sterile cytoplasm from snowball cauliflower (from IARI Katrain) was introgressed into DC 41-5 elite genotype of early group Indian cauliflower.	Ogura based cytoplasmic male sterile line of early maturity group (25-30°C) of Indian cauliflower. CMS line with dwarf plant type. Good combiner for earliness and curd yield in early maturity group of Indian cauliflower.	Dr. Priyam Kaia, Emeritus Scientist ICAR-IARI, Pusa campus, New Delhi	Recommended

48.	19072; IC0 INGR19079	DC 8498	Cauliflower/ <i>Brassica oleracea</i> var. <i>botrytis</i>	Ogura male sterile cytoplasm from snowball cauliflower (from IARI Katrain) was introgressed into DC 98-10 elite genotype of early group Indian cauliflower.	Cytoplasmic male sterile line of early maturity group (25-30°C) of Indian cauliflower. Carry Ogura sterile cytoplasm. Good combiner for earliness and curd yield.	Dr. Pritam Kalia, Emeritus Scientist ICAR-IARI, Pusa campus, New Delhi	Recommended		
49.	19038; IC0 INGR19080	BR-2	Cauliflower/ <i>Brassica oleracea</i> var. <i>botrytis</i>	Local germplasm 'BR-Series'	Downy mildew resistance genotype of cauliflower and resistance is governed by single dominant PPa3 gene. The resistance locus Ppa3 is mapped with molecular markers. A genotype of medium maturity group cauliflower.	Dr. Shrawan Singh, ICAR-IARI, Pusa campus, New Delhi	Recommended		
50.	19139; IC0	IPC 126A	Carrot / <i>Daucus carota</i>	Pusa Asita (CMS plant) x IPC 126	IPC 126A is the first dark purple (black) colour main season tropical carrot CMS line developed indigenously. It has 'petaloid' type sterility and stable and easy to distinguish. Its roots are of acceptable size and of self core. It is suitable for main season sowing i.e. mid-September onwards in north Indian plains.	Dr. Pritam Kalia, Emeritus Scientist ICAR-IARI, Pusa campus, New Delhi	Deferred: Justification and the clarification on the expert comments not received.		
51.	19141; IC0	IPC 11A Orange	Carrot / <i>Daucus carota</i>	Petaloid sterile cytoplasm from 'Pusa Meghali' was introgressed into an inbred line IPC 11 Orange (developed by recurrent selection) i.e. Pusa	PC 11A Orange is the first orange colour main season tropical carrot CMS line developed indigenously. Roots are of acceptable size and suitable for main season sowing i.e. from mid September onward in north Indian plains. It has	Dr. Pritam Kalia, Emeritus Scientist ICAR-IARI, Pusa campus, New Delhi	Deferred: Justification and the clarification on the expert comments not received.		

				Meghali (CMS) x IPC 11 Orange	petaloid type sterility and stable and easy to distinguish.		
52.	19143; IC0598343	IPC 98A	Carrot / <i>Daucus carota</i>	Petaloid sterile cytoplasm was introgressed from IPC 122 A into an inbred line IPC 98A (developed by recurrent selection) i.e. IPC 122A x IPC 98.	IPC 98A is first red colour main season tropical carrot CMS line developed indigenously. Roots are of acceptable size and suitable for main season sowing i.e. from mid-September onward in North Indian plains. It has been used in the development of commercial hybrid 'Pusa Vasuda' of tropical red carrot.	Dr. Priyam Kalia, Emeritus Scientist, ICAR-IARI, Pusa campus, New Delhi	Deferred: Justification and the clarification on the expert comments not received.
53.	19082; IC0627526 INGRI19081	AHW/BR-5 (IC0627526)	Watermelon/ <i>Citrullus lanatus</i>	Segregating material collected from Chomu, Jaipur (Rajasthan)	Stable andromonoecious sex form	Dr. BR Choudhary, ICAR-CIAH, Bikaner, Rajasthan	Recommended
Oilseeds							
54.	19042; IC0630593 INGRI19082	NRCGCS-602 (HOS-130 or HOP_IL_130)	Groundnut/ <i>Arachis hypogaea</i>	ICGV06100 x SunOleic 95R	High oleic acid content	Dr. SK Bera, ICAR-DGR, Junagadh, Gujarat	Recommended
55.	19043; IC0630594 INGRI19083	NRCGCS-605 (HOS-145 or HOS-IL_MAS_145)	Groundnut/ <i>Arachis hypogaea</i>	ICGV06100 x SunOleic 95R	High oleic acid (80%) content	Dr. SK Bera, ICAR-DGR, Junagadh, Gujarat	Recommended
56.	19013; EC766091	EC766091	Indian Mustard/ <i>Brassica juncea</i>	Germplasm collection	White Rust resistant (PDI = 0) at three locations for two years and against Delhi, Hissar, Punjab, Pantnagar isolate under artificial inoculation.	Dr. Rashmi Yadav, ICAR-NBPGR, Pusa Campus, New Delhi	Not Recommended : As per earlier decision taken at Council level, EC lines, as such, can not be registered unless some intervention is made to improve the germplasm for desired trait
57.	19025; EC766134	EC766134	Indian Mustard/ <i>Brassica juncea</i>	Germplasm collection	White Rust resistant (PDI = 0) at three locations for two years and against Delhi, Hissar, Punjab,	Dr. Rashmi Yadav, ICAR-NBPGR,	Not Recommended : As per earlier decision taken at Council level, EC lines, as such, can not be registered unless some

						Pantnagar isolate under artificial inoculation	Pusa Campus, New Delhi	intervention is made to improve the germplasm for desired trait
58.	19070; IC0630607 INGR19084	CS 52- SPS-1- 2012	Indian Mustard/ <i>Brassica juncea</i>	Spontaneous Mutant of CS 54	High tolerance to Salinity (ECe 14-15 dS/m) and Alkalinity (pH 9.4-9.5). High 1000- Seed Weight (8.0-9.0g). High Photosynthetic efficiency under salinity stress.	High tolerance to Salinity (ECe 14-15 dS/m) and Alkalinity (pH 9.4-9.5). High 1000- Seed Weight (8.0-9.0g). High Photosynthetic efficiency under salinity stress.	Pusa Campus, New Delhi	Recommended
59.	19097; IC0632085 INGR19085	DRMR10- 40	Indian Mustard/ <i>Brassica juncea</i>	Intermating and selection between DRMR06-1942, DRMR06-1946, NDYR8, DYR10, Rohini	Drought tolerance	Drought tolerance	Dr. VV Singh, ICAR-DRMR, Bharatpur, Rajasthan	Recommended
60.	19136; IC0520764 INGR19086	DRMR 2059	Indian Mustard/ <i>Brassica juncea</i>	Local collection from Deoghar, Jharkhand.	High temperature tolerance at seedling stage. High temperature tolerance at terminal heat stress.	High temperature tolerance at seedling stage. High temperature tolerance at terminal heat stress.	Dr. VV Singh, ICAR-DRMR, Bharatpur, Rajasthan	Recommended
61.	19113; IC0632086 INGR19087	DRMR 4001	Indian Mustard/ <i>Brassica juncea</i>	BEC-107 (<i>B. juncea</i>) X HC 2 (<i>B. carinata</i>)	Drought tolerance.	Drought tolerance.	Dr. HS Meena, ICAR-DRMR, Bharatpur, Rajasthan	Recommended
62.	19137; IC0632087 INGR19088	DRMR 4005	Indian Mustard/ <i>Brassica juncea</i>	SEJ-2 x K 28	Thermo tolerance at juvenile stage coupled with high seed and oil yield.	Thermo tolerance at juvenile stage coupled with high seed and oil yield.	Dr. HS Meena, ICAR-DRMR, Bharatpur, Rajasthan	Recommended
63.	19020; IC0268345 INGR19089	IC0268345	Linseed/ <i>Linum usitatissimum</i>	Germplasm Collection (Landrace)	High seed oil content along with more number of primary branches over two locations and four years (2014-15, 2015-16, 2016-17 and 2017-18). Oil estimation from two different biochemistry laboratories.	High seed oil content along with more number of primary branches over two locations and four years (2014-15, 2015-16, 2016-17 and 2017-18). Oil estimation from two different biochemistry laboratories.	Dr. Vikender Kaur, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
64.	19035; IC0630595 INGR19090	NRC 142	Soybean/ <i>Glycine max</i>	JS 97-52 x PI 596540 x PI 542044	Free from Lipoxigenase 2. Free from Kunitz trypsin inhibitor.	Free from Lipoxigenase 2. Free from Kunitz trypsin inhibitor.	Dr. Anita Rani, ICAR-IISR, Indore, Madhya Pradesh	Recommended

65.	19105; EC34101 INGR19091	Dun-nun II- 2- 15/EC34101 EC 34101	Soybean/ <i>Glycine max</i>	Introduction	Photoinsensitive. Source of recessive photoperiodic allele <i>e3</i> . Source of earliness.	Dr. Sanjay Gupta, ICAR-IISR, Indore, Madhya Pradesh	Recommended
66.	19110; EC150149 INGR19092	AGS 25	Soybean/ <i>Glycine max</i>	Introduction, Pedigree known not	Long juvenility character. Wider adaptation to latitudes and sowing dates. CAPS marker for marker assisted breeding.	ICAR-IISR, Indore, Madhya Pradesh	Recommended
Medicinal and Aromatic Plants							
67.	19021; EC174527 INGR19093	EC174527	Basil/ <i>Ocimum basilicum</i>	Germplasm	Essential Oil rich in Linalool content (~ 61.18 ± 4.41%) in oil isolated from aerial plant parts.	Dr. Archana P Raina, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
68.	19023; IC0599290 INGR19094	IC599290	Velvet Bean/ <i>Mucuna pruriens</i>	Germplasm	High L Dopa content In Seeds of <i>Mucuna pruriens</i> accession IC599290 (7.1% DWB).	Dr. Archana P Raina, ICAR-NBPGR, Pusa Campus, New Delhi	Recommended
Ornamentals							
69.	19005; IC0630596 INGR19095	CSIR-IHBT-CL- Y-1	Calla lily/ <i>Zantedeschia elliptica</i>	CSIR-IHBT-CL-ZE-1 X CSIR-IHBT-CL-ZE-2	Trumpet flower shape. Bright yellow flower colour. Stalk length >40cm.	Dr. Ashok Kumar, CSIR-IHBT, Palampur, Himachal Pradesh	Recommended
70.	19006; IC0630597 INGR19096	HIM SHWETA (CSIR-IHBT-CL-W-1)	Calla lily/ <i>Zantedeschia elliptica</i>	CSIR-IHBT-CL-ZA-1 X CSIR-IHBT-CL-ZA-2	White flower colour and large spathe. Stalk length (>80cm).	Dr. Ashok Kumar, CSIR-IHBT, Palampur, Himachal Pradesh	Recommended
71.	19007; IC0623707 INGR19097	CSIR-IHBT-Gr-13-1	Gerbera/ <i>Gerbera jasmeoni</i>	CSIR-IHBT-Gr-2 x CSIR-IHBT-Gr-6	Double flower shape. Standard size (>10cm flower diameter). Red flower colour.	Dr. Ashok Kumar, CSIR-IHBT, Palampur, Himachal Pradesh	Recommended
72.	19008; IC0623708 INGR19098	CSIR-IHBT-Gr-24-6	Gerbera/ <i>Gerbera jasmeoni</i>	CSIR-IHBT-Gr-4 x CSIR-IHBT-Gr-3	Semi double flower shape. Standard size (>10cm flower diameter). Yellow orange flower colour.	Dr. Ashok Kumar, CSIR-IHBT, Palampur, Himachal Pradesh	Recommended

73.	19088; IC0624189 INGR19099	IIHRV1	China Aster/ <i>Callistephus chinensis</i>	Selection from cv. Arka Poornima	Flower colour: NN155D, White Fan 4, New flower form: Semi-double with pseudo ray florets.	Dr. Rajiv Kumar, ICAR-IIHR, Bengaluru, Karnataka	Recommended
74.	18089 IC0624190 INGR19100	IIHRV2	China Aster/ <i>Callistephus chinensis</i>	Selection from cv. Arka Violet Cushion.	Flower colour: N81A, Purple Violet group, Fan 2, New flower form: Semi-double with pseudo ray florets.	Dr. Rajiv Kumar, ICAR-IIHR, Bengaluru, Karnataka	Recommended
Fruits							
75.	19155; I0625848 INGR19101	IC0625848	Ber/ <i>Ziziphus mauritiana</i>	Germplasm Collection	Fruit Fly Resistant.	Dr. Omvir Singh, ICAR-NBPGR Regional Station, Jodhpur, Rajasthan	Recommended
76.	19156; IC0625849 INGR19102	IC0625849	Ber/ <i>Ziziphus mauritiana</i>	Germplasm Collection	Stone less ber.	Dr. Omvir Singh, ICAR-NBPGR Regional Station, Jodhpur, Rajasthan	Recommended
Tubers							
77.	18173; IC0630606 INGR19103	MSH/14-113	Potato/ <i>Solanum tuberosum</i>	P8 × KufriJyoti	Interspecific potato hybrid with diverse genetic base [interspecific potato somatic hybrid P8 (<i>Solanum tuberosum</i> + <i>S. pinnatisectum</i>) × cv. Kufri Jyoti (<i>S. tuberosum</i>)]. Very high resistance to potato late blight disease. High tuber dry matter content	Dr. JK Tiwari, ICAR-CPRI, Shimla, Himachal Pradesh	Recommended

Summary of Deferred Proposals of previous PGRC Meeting with Recommendations

S.No	App. No./ National Id.	Proposer Identity	Crop/ Botanical Name	Pedigree	Potentially valuable features	Corresponding author	Recommendations of PGRC
Cereals							
1.	19134: IC0427824	IC427824 (Pusa T3336)	Wheat/ <i>Triticum aestivum</i>	Lok Bharti/DARF (Derivative Agropyronresistansce falcon)	Higher Grain Zinc content (Additional trait in already registered genetic stock)	Dr. Arun Gupta, Karnal, Haryana ICAR-IWBR	Recommended: The certificate will be issued with the INGR no. already assigned to this germplasm with additional trait (Higher Grain Zinc content (Additional trait in already registered genetic stock))
Oilseeds							
1.	18126; IC0628060 INGR19104	Allohexaplo id (H1)	Indian Mustard/ <i>Brassica juncea</i>	<i>Brassica juncea</i> + <i>Sinapis alba</i>	Allohexaploid (<i>Brassica juncea</i> + <i>Sinapis alba</i>). Resistant to <i>Alternaria brassicae</i> & <i>Sclerotinia sclerotiorum</i> . Tolerant to temperature.	Dr. Preetesh Kumari, ICAR-NRCPP, Pusa Campus, New Delhi	Recommended
Tubers							
2.	17040: IC0625993 INGR19105	J.93-58	Potato/ <i>Solanum tuberosum</i>	Kufti Pukhraj x MS/82-797	Better water use efficiency than popular cultivars. High yield	Dr. Raj Kumar, ICAR-CPRI, Jalandhar, Punjab	Recommended