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ANNUAL REPORT

2023 - 2024



Protection of Plant Varieties and Farmers' Rights Authority

(A Statutory Authority Created by an Act of Parliament)

Department of Agriculture & Farmers Welfare

Ministry of Agriculture and Farmers Welfare, Government of India

Plant Authority Bhawan, Dev Prakash Shastri Marg, Near NASC Complex,

Opposite Todapur Village, New Delhi-110012

www.plantauthority.gov.in



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Preface



“The secret of improved plant breeding, apart from scientific knowledge is love”

Luther Burbank

The above quote of noted horticulturalist explains that plant breeding involves not only knowledge, but also creativity, passion and love, which in fact spur development of new crop varieties to address the challenges to food security globally.

Luther Burbank spent his whole life developing hundreds of new crop varieties. Though he did not keep proper record of his methods and observations, it was truly an intellectual activity, for which he thought about protecting his varieties by patenting. Support for Intellectual Property Protection to plant varieties came from Thomas Alva Edison on seeing the varieties developed by Luther Burbank including the famous potato variety Russet Burbank. With Edison's testimony to US Congress, the American Plant Patents Act, 1930 came into existence. One of the earliest plant varieties getting protection through American Plant Patents Act, 1930 include PP12 'PLUM' in the year 1932, which was developed by Luther Burbank.

India, opting for a *sui generis* model, enacted the Plant Variety Protection Law in the year 2001. Indian law of Plant Variety Protection, apart from protecting the rights of plant breeders, also protects the rights of farmers. Thus Indian Law is different from its international counterparts as it recognises that farmers are custodians, vanguards and donors of genes for varietal development.

The Protection of Plant Varieties and Farmers' Rights (PPVFR) Authority has been striving to register plant varieties since its establishment in 2005 under the PPVFR Act, 2001. The current reporting period 2023-24 was marked by landmark developments. The Authority organised Global Symposium on Farmers Rights, first of its kind, which was inaugurated by the Hon'ble President of India on 12th September, 2023. Hon'ble President also launched an online application system for registration of plant varieties named Portal to Apply for Registration of Varieties (PARV). The Plant Authority Bhawan that now houses the office of the Authority was also inaugurated. The global symposium in which several countries participated brought out Delhi Framework on Farmers Rights, signifying an era

in the chapter of Farmers Rights.

This year recorded the highest number of registration certificates (1763) which is a milestone in the history of plant variety registration in India. Sanction for additional 17 staff positions was granted to strengthen the Authority. Several high level committees were constituted to identify bottlenecks in registration and facilitate smooth registration of plant varieties. Two major bottlenecks, which reduced the number of applications and choked the registration of plant varieties namely, compound registration and closing of applications for registration of extant plant varieties were done away with. By withdrawing the notification on compound registration, several court cases could be resolved. This is a major relief to seed industry as well. Efforts were made to increase the awareness programmes to facilitate the applications for registration of farmers' varieties.

I express my sincere thanks to the Hon'ble Minister of Agriculture and Farmers' Welfare for his valuable guidance. I also thank Sh. Manoj Ahuja, Secretary, Ministry of Agriculture & Farmers Welfare for his support in many possible ways without which the smooth functioning of the Authority would not have been possible. I also thank Sh. Rakesh Ranjan, Additional Secretary (Seeds), Sh. Pankaj Yadav, Joint Secretary (Seeds) and the Seed Division of the nodal department for their immense support in administrative and financial matters. I also place on record the role played by ICAR/SAUs in collaborating with the Authority in carrying out its mandated technical functions.

I am thankful to the esteemed Members of the Authority, Dr. D.K. Agarwal, Registrar-General and other officers of the Authority for their active involvement in Authority functions. I acknowledge the co-operation, support and active involvement of all officers and staff of PPVFR Authority who were instrumental in carrying out the mandated activities of the Authority. Special thanks to Shri D.S. Raj Ganesh for meticulously compiling the Annual Report.

(T. Mohapatra)

Chairperson
PPVFR Authority, New Delhi

Acknowledgements



It is with the deep sense of obligation and privilege that I place on record my boundless gratitude to Dr. T. Mohapatra, Chairperson, PPVFR Authority for his dynamic and vibrant leadership, and for playing a pivotal role in guiding and supporting the Authority to accomplish its assigned duties and tasks and surpassing many milestones in the process. I also thank all the ICAR Institutes/SAUs/Seed Industry in making this period under reporting a memorable one as a record of 1763 registration certificates have been issued. Under the auspices of Nodal Ministry, the Authority also successfully organised the Global Symposium on Farmers Rights on 12th September, 2023 which was inaugurated by the Hon'ble President of India. I have to thank each and every one who made this event a memorable one. I thank all the members of the Authority who were instrumental in deciding several important decisions of the Authority. I must thank ICAR for whole hearted support in discharging the technical functions of the Authority without their support it would not have been possible in conducting DUS test and grant registration, frame DUS guidelines and notify DUS test centres. I also thank officials of ICAR Institutes and SAUs in discharging the statutory duties as DUS test centres of Authority. I thank all Principal Investigators of DUS test centres without their timely output the publication of this report would not have been possible. I also thank Sh. Manoj Ahuja, Secretary, Ministry of Agriculture & Farmers Welfare, Sh. Rakesh Ranjan, Additional Secretary (Seeds), Ministry of Agriculture & Farmers Welfare and Sh. Pankaj Yadav, Joint Secretary (Seeds) and the officials of Nodal Seed Division for their day to day support in the efficient functioning of this Authority. UPRNN who were involved in the construction of Plant Authority Bhawan. I also acknowledge the efforts and inputs of officers of the Authority namely, Shri. Vipin Tyagi, Financial Advisor, Shri. Dipal Roy Choudhury, Joint Registrar, Sh. U.K. Dubey, Deputy Registrar and Sh. R.S. Sengar, Former Deputy Registrar. I also acknowledge the efforts of Dr. A.K. Singh, Plant Variety Examiner and Dr. D.S. Pilania, Technical Assistant, PPVFRA. I

also thank Sh. Raj Ganesh, Legal Advisor and his team Shri. Arun Kumar, Legal Advisor and Legal Cell for coordinating in compiling and publishing this report. I am also thankful to all the project staff and other contractual persons engaged at Authority Hqs. and its Branch Offices for performing their assigned job with utter dedication and sincerity. I thank one and all involved in the publication of this report.

(D.K. Agarwal)

Registrar-General

Protection of Plant Varieties & Farmers' Rights
Authority, New Delhi

Executive Summary

The “Protection of Plant Varieties and Farmers’ Rights Act” (53 of 2001) is a unique Act which fulfills the spirit of International Treaty on Plant Genetic Resources for Food & Agriculture. It also strikes a balance between the rights to breeders and the farmers as per the national requirement. The Authority, since its establishment in the year 2005, has been consistently improvising the system of registering the plant varieties, connecting the stakeholders, encourage innovation in seed sector, acknowledge the contribution by the farmers/communities towards conservation of plant genetic resources and making them available to plant breeders, established a National Gene Fund, build and maintain gene banks etc.

Till the time of going for printing, the Government of India has notified 197 crop species on the recommendations of PPVFR Authority for plant variety registration. During the reporting period, the Authority notified *Kokum, Lemon, Pummelo, Lilium, Jasmine, Ashwagandha, Olive and Anthurium*. During 2023-24, total of 235 applications were received for registration from both public and private as well as farmers’ variety sectors under different categories.

In the annual year of 2023-24, a total of 1763 certificates of registration were issued. In the Farmer Variety 1546 followed by Extant Notified (82), New category (75) and VCK (60). Similarly, highest number of certificates were issued for cereals (1364) followed by Legumes (97), Oilseeds (84), vegetables (67), Fibre crops (61), Fruits (53) and Spices (31) etc.

The Legal Cell of the Authority pursued the cases filed in different Courts. During the reporting period, out of 33 cases 12 cases were disposed of.

The Notifications published in the Gazette of India were Gazette Notification **S.O. 2028 (E)** dated **2nd May, 2023** regarding appointment of Dr. T. Mohapatra, Chairperson, PPVFRA, Notification **S.O. 2221 (E)** dated **18th May, 2023** regarding notification of 7 Crops species Teak, Kalazeera, Saffron, Dolichos bean, Ash gourd, Snake gourd and Ivy gourd, Notification **S.O. 1540(E)** dated March 22, 2024 regarding on the 8 crop-species Kokum, Lemon, Pummelo, Lilium, Jasmine, Ashwagandha, Olive and Anthurium for the purpose of registration.

During the period under report 487 candidate

varieties representing 40 crop species were tested for DUS characterization and evaluation at 45 centres in the country. The Authority has received Rs.3852.04 lakh as grants-in-aid from Department of Agriculture and Farmers’ Welfare, during the year 2023-24 and utilized Rs.3322.21 lakh after adjusting unspent balance of Rs.257.15 lakh of previous year leaving a balance of Rs.786.98 lakh. The Annual Account of the Authority has been audited and submitted to CAG within prescribed time schedule.

The annual accounts of the Authority for the year 2023-24 was finalized and audited within the prescribed time schedule. The Annual Report of Authority is being forwarded under Section 85 of the Act.

1: Introduction

Plant varieties are vital for the survival of human beings and livestock as they serve as source of food, fibre, fodder, forest and raw materials for domestic households and industries in any society. Even before the science of genetics was discovered in late 19th Century, the scientific foundation of plant breeding science and techniques, since human beings began cultivating plants for a purpose of harvesting its product for survival, the farmers have practiced plant breeding improving the crop generation after generation by evaluating the performance and expression of the plant population they are growing. The farming community and forest dwellers, nurtured existing diversity as is how is to select for better plant type and yield from within the available adapted naturalized plant varieties such as land races to produce plants of use since millennia. As the science of genetics and plant breeding evolved, formally trained plant breeders collected genetic diversity through exploration in biodiversity rich zones, use different tool to increase values for cultivation. It is these plant breeders whose ingenious skill to detect variability, work out the genetics behind such variability and accordingly strategise the breeding methods enable development of new plant varieties, different and better than the previously existing ones. Therefore, the Plant Breeders' Right is one of the most crucial intellectual property rights in any society as food is basic requirement for both developed and developing societies. These rights granted to the plant breeders are therefore a means to recognise their contributions that results in the creation of an ecosystem that sustains innovation continuum. Such a system can establish a mechanism to exert responsible stewardship over germplasm, support long term research and development that would be crucial to enhance agricultural productivity in the form to incentivisation of plant breeding in public and private sectors while promoting the industry to competitively provide high quality seeds as well as planting materials to farmers.

Although ancient Indian history reveals records of naming of a plant variety by either the individual or commune or village native to the variety, in legal terms, the first formal enforcement of Intellectual Property Rights (IPRs) in plants used in agriculture came about in the form of the "*Plant Patent Act, 1930*" in USA which was followed in Europe by the formation of the *Union Internationale pour la Protection des Obtentions Végétales* (UPOV) or the International Union for the Protection of

New Varieties of Plants in 1961 at Europe which was subsequently revised in 1972, 1978 and 1991. Presently, there are 78 member states as part of the UPOV convention including regional associations like EU, OAPI. India has not acceded to the UPOV Convention but is listed in the category of observer in the UPOV.

Plant varieties protection through Plant Breeder's Rights was brought into major focus by the General Agreement on Tariffs and Trade (GATT), a multilateral instrument governing international trade. GATT negotiations in Uruguay Round led to the establishment of World Trade Organisation (WTO) in 1995. Article 27.3(b) of the Agreement on Trade Related Aspects of Intellectual Property Rights (TRIPs) under WTO, provides that members shall provide for the protection of plant varieties, either by patents or by an effective *sui generis* system or by any combination thereof.

The Government of India enacted the *Protection of Plant Varieties and Farmers' Rights (PPVFR) Act* in 2001 (53 of 2001) to provide for the establishment of an effective *sui generis* system for protection of plant varieties, the rights of farmers and plant breeders and to encourage the development of new plant varieties of economic importance.

PPVFR Rules were notified on 12 September, 2003 and amended from time to time, thereafter. Subsequently, for the purposes of the Act, the Government of India having exercised the powers conferred under the section 3 (1) of this Act, established the Protection of Plant Varieties and Farmers' Rights Authority on 11 November, 2005, vide Gazette notification S.O. 1588(E).

1.1 OBJECTIVES OF THE PPVFR ACT, 2001

Following are the objectives of the Act:

- To establish an effective system for protection of plant varieties, the rights of farmers and plant breeders and to encourage the development of new varieties of plants.
- To recognize and protect the rights of the farmers in respect of their contribution made at any time in conserving, improving and making available plant genetic resources for the development of new plant varieties.
- To protect plant breeders' rights to stimulate investment for research and development both

in the public and private sector for development of new plant varieties.

- To facilitate the growth of seed industry in the country that will ensure the availability of high-quality seeds and planting material to the farmers.

1.2 SALIENT FEATURES OF THE ACT

The PPVFR Act is based on the option under TRIPS Agreement for a member country to protect the rights of plant breeders *sui generis* system by enactment by legislation if they would not opt for UPOV (International Union for Protection of New Varieties of Plants, Geneva) Convention, and is also unique in the sense that it concurrently recognizes the rights of plant breeders, farmers (including their right as plant breeders), farming communities and researchers who breed new varieties as well as those already bred and existing prior to protection (extant). It confers exclusive rights upon the breeder or his successor, his agent or licensee, to produce, sell, market, distribute, import or export of the registered variety. As far as farmers' rights are concerned, the Act recognizes a farmer as cultivator, conserver and breeder and provides that the farmers' variety can also be registered. Further, the Act provides for compulsory license of a registered variety, if the seeds/propagating material is not available to the public at a reasonable price or quantity. Any person or group of persons or any organization can also claim for benefit sharing, if the plant genetic material belonging to them is used in the development of a registered variety. The researchers are conferred the right to use any registered variety for conducting experiment or research and the use of a variety by any person as an initial source of variety for the purpose of creating the other varieties. India is a pioneer country where a national legislation has been enacted to establish and secure Farmers' Rights. The Act also recognizes the past, present and future contributions of the farming communities and provides an opportunity for the award to farming communities/farmers for their contributions in agro-biodiversity conservation.

1.3 PPVFR AUTHORITY

The PPVFR Authority is a Statutory Body established by the Parliament of India through the PPVFR Act of 2001. The Authority is a body corporate, having perpetual succession and a common seal with the power to acquire, hold and dispose of movable and immovable properties and to contract, and shall by the said name sue and be sued. The head office of the Authority is at New Delhi and

it is functioning from a leased space in the premise of the National Agricultural Science Centre Complex, Dev Prakash Shastri Marg, Pusa Campus, New Delhi. The Authority consists of a Chairperson and fifteen members as on 31st March, 2022 (Annexure-I).

1.4 PLANT VARIETIES REGISTRATION

The PPVFR Authority has finalized the Distinctiveness, Uniformity and Stability (DUS) test guidelines for registration of 197 crop species (Annexure-VII). The Authority has issued 1763 (Annexure-VIII) certificates of registration for plant varieties (under new, extant and farmers' variety category) during the reporting year 2023-24. To facilitate more applications seeking plant varieties protection from different stakeholders, the Authority regularly organizes/supports awareness and capacity building programmes.

The PPVFR Authority has also established network of DUS test centres across the country under the Central Sector Scheme for the implementation of PPVFR Act, 2001, to verify the claims of candidate varieties by applicants, maintenance breeding, multiplication of reference/example varieties/ the varieties notified under section 5 of the Seeds Act, 1966, and generation of database for varietal characteristics as per crop specific DUS (Distinctiveness, Uniformity and Stability) guidelines. In addition, DUS tests for the candidate varieties are being conducted at crop specific centres. The data recorded as per the DUS test guidelines is submitted by these centres to Authority for further analysis. The Authority, in consultation with the ICAR institutes and SAUs has identified potential crop species of economic importance and supports projects for the development of the DUS guidelines. The Authority has established its National Gene Bank, field gene banks across the country. It regularly publishes *Plant Variety Journal of India* and maintains the National Register of Plant Varieties at Headquarters and also its branch offices.

1.5 CATEGORIES OF PROTECTION OF PLANT VARIETIES

The process of granting protection to a plant variety through plant breeders' rights as enshrined in the Act is based on a broad principle of internationally recognized system of DUS and novelty for a new variety. Any person can apply for registration in any of the following:

- **New variety** of such genera and species as specified under section 29(2) of the Act.

- **Extant variety** (To a limited period after the species is notified (in the case of new and VCK varieties) as announced time to time by the Authority)
 - Notified under section 5 of Seeds Act, 1966,
 - Variety of common knowledge (VCK),
 - Farmers' variety
 - Traditionally cultivated and evolved by the farmers in their fields,

- Wild relative or landrace of a variety about which the farmers possess common knowledge

- **Essentially derived variety (EDV)**

A variety predominantly derived from an initial variety, or from a variety that itself is predominantly derived from such initial variety, while retaining the expression of the essential characteristics that result from the genotype or combination of genotypes of such initial variety.

1.6 FARMERS' RIGHTS

The Act, also provides following rights to the farmers that is unique only to India among all signatories to TRIPS and WTO and the sole reason for India not acceding to UPOV Act 1991:

- *Right to register their varieties:* A farmer who has bred or developed a new variety is entitled for registration and other protection as a plant breeder under this Act.
- *Right on seed:* A farmer is entitled to save, use, sow, resow, exchange, share or sell his farm produce including seed of a variety protected under this Act; provided that the farmer is not entitled to sell branded seed of a variety protected under this Act.
- *Right for reward and recognition:* A farmer or community of farmers engaged in the conservation and improvement of plant genetic resources (landraces and wild relatives of economic plants) are entitled for the Plant Genome Saviour Award, Reward and Recognition, provided their plant material has been used in development of varieties registrable under this Act.
- *Protection of innocent infringement:* If a farmer being, infringed according to section 65 of PPVFR Act, 2001, can prove before court that he or she was not aware of the existence of such rights at the time of infringement; he or she will not be charged.

- *Fee Exemption:* A farmer or group of farmers are not liable to pay any fee payable for inspection of any document or for obtaining a copy of any decision or order or document under this Act. Farmers have the privilege of being completely exempted from payment of any kind of fees or other payments that are normally payable for variety registration; testing of varieties and other services rendered by the PPVFRA; as well as for legal proceedings related to infringement or other cases in courts, tribunal etc.

- *Reasonable Seed Price:* Farmers have the right to access seed of registered varieties at a reasonable and remunerative price. When this condition is not met, the breeder's exclusive right over the variety can be revoked under the provision concerning compulsory licensing, and the breeder is obligated to license the seed production, distribution and sales of the variety to any competent person. Most of the laws for plant varieties protection have provisions on compulsory licensing of protected varieties to ensure adequate seed supply to farmers.

- *Authorization of farmers' variety:* In the development of an essentially derived variety from a farmer's variety and its commercialization. The authorization should be given with the consent of the farmer or group of farmers who have contributed in the conservation or development of such a variety. Such a process can allow farmers to negotiate the terms of authorization with the breeders, which may include royalties, benefit-sharing etc.
- *Right for compensation:* When any propagating material of a variety registered under this Act has been sold to a farmer, the breeder of such variety should disclose the expected performance under given conditions. If the propagating material fails to provide such performance under such given conditions, the farmer can claim compensation before the Authority. The Authority would then notify the breeder of the variety the issue and after providing him an opportunity to file an opposition, may direct the breeder to pay compensation to the farmer as it deems fit.

The Registry of the Authority facilitates the IPR registration of farmers' varieties by equating the farmers to plant breeders as empowered by the Act, conducts country-wide training-cum-awareness programmes, and identifies farmers and farmer communities for their contribution towards conserving germplasm and developing new varieties.

1.7 PLANT BREEDERS' RIGHTS

Registration gives exclusive rights to produce, sell, market, export or imports the variety along with its denomination. This right is subject to farmers' rights that farmers can use seeds of registered varieties in an unbranded manner.

Breeders' Right is one of the pivotal provisions of this Act with far reaching implications in the context of Indian agriculture and global scenario. The breeder also of the registered variety is necessary.

1.8 REGISTRATION OF PLANT VARIETIES

An application for registration of a plant variety and its denomination can be made under the following categories:

- **New Variety:** On the date of filing of application for registration if the variety has been commercialized for period of less than one year then it is a new variety.
- **Extant Variety:** Consist of the following categories namely:
 - **Extant variety notified under section 5 of Seeds Act, 1966:** Varieties notified under Section 5 of Seeds Act, 1966 are eligible for registration under this category
 - **Farmers' variety:** Traditionally cultivated and evolved by the farmers in their fields and includes wild relative or land race or a variety about which the farmers possess common knowledge.
 - **Variety of Common Knowledge (VCK):** which are not notified under Section 5 of Seeds Act, 1966 and are in commercial chain for more than a year.
- **Essentially Derived Variety:** A variety predominantly derived from an initial variety and should fall either under new or extant category.

1.9 EXTENT AND NATURE OF FIELD-TESTING (DUS TESTING) OF VARIETIES

The application is processed depending on the category of the variety claimed for registration, according to which the applicant is required to deposit DUS test, registration and any other fees, as may be required. After receipt of necessary fees and seeds and to a satisfactory examination of the application at the Plant Varieties Registry, the

Registrar shall send the variety to crop specific centres for conducting DUS test. The period of DUS testing is as follows:

- **New Varieties:** Two similar crop seasons at two locations
- **Farmers' Variety and VCK:** One crop season at two locations
- **Extant variety notified under section 5 of Seeds Act, 1966:** No DUS testing is conducted but variety is processed by an EVRC Committee which recommends for registration
- **EDV:** DUS testing is not mandatory but field test is conducted to ascertain DUS criteria

After the receipt of DUS test result, the application is processed and distinctiveness is ascertained through DUS test and comparison across the database. Subsequently, the passport data of the variety is published in the *Plant Varieties Journal of India*.

The application is advertised in *Plant Variety Journal of India* inviting opposition within a period of three months from the date of publications. If no opposition is filed or if opposition filed is rejected, the variety proceeds for registration. The period of protection is as follows:

1.9.1 Protection Period in Different Types of Crops

A total of 197 crop species are presently eligible for protection (Annexure VII). The total period of protection for field crops is of 15 years with 6 years of protection at the time of registration renewable to next 9 years, whereas that of trees and vines is for 18 years with 9 years of protection at the time of registration renewable to next 9 years. The extant varieties notified are given a protection for 15 or 18 years for field crops or trees and vines respectively, from date of notification under Seeds Act, 1966.

1.10 AWARD/REWARDS TO FARMERS'/ FARMING COMMUNITIES

Section 45(2) of the Act reads with Rules 70 (2) (a) of PPVFR Rules, 2003 provides for support and reward, to farmers, communities of farmers, particularly the tribal and rural communities engaged in conservation, improvement and preservation of genetic resources of economic plants and their wild relatives, particularly in areas identified as agro-biodiversity hotspots from National Gene

Fund. To operationalize these provisions, Plant Genome Savior Community Award was instituted in 2009-10. A maximum of five such awards can be conferred annually. Along with this, ten farmers are conferred the Plant Genome Saviour Farmer Reward and twenty farmers are conferred Plant Genome

Saviour Farmer Recognition certificates. The details of the various awards and recognitions available for farmers conferred are mentioned in Table 1. The selection of awardees is made by a committee of experts/ scientists headed by an eminent scientist/ subject matter specialist.

Table 1: Details of the Plant Genome Savior awards, rewards and recognition

Award	Details	Application
Plant Genome Saviour Community Awards	Five farming communities are awarded each year. Each award includes a citation, a memento and Rs. 10 lakhs.	Advertisement for these awards is published in the National dailies and on the Authority website: (http://www.plantauthority.gov.in/forms.htm)
Plant Genome Saviour Farmers' Rewards	Ten farmers are rewarded every year. Each reward includes a citation, a memento and cash of Rs. 1.5 lakh.	The applications should be forwarded by Chairperson/Secretary of the concerned Panchayat Biodiversity Management Committee or Concerned District Agricultural Officer or Director of Research of Concerned State Agriculture University or Concerned District Tribal Development Officer
Plant Genome Saviour Farmers' Recognitions	Twenty farmers are rewarded every year. Each reward includes a citation, a memento and cash of Rs. 1 lakh.	

2: Plant Varieties Registry

2.1 PUBLICATION OF DUS TEST GUIDELINES FOR CROP SPECIES

During 2023-24, DUS guidelines have been developed for eight crop species and published in *Plant Variety Journal of India* as mentioned in Table 2 totalling to 197 crop species for which Authority has developed DUS guidelines and notified in Gazette of India. Registrations are now open for plant variety protection under *PPV&FR Act, 2001* for the varieties under these different crop species. The proposal advising the Government of India for their notification in the Gazette of India is under consideration to facilitate registration of varieties of these crop species in future.

Table 2: DUS test guidelines developed for different crop species during 2023-24.

Sl. No.	Crop & Species	PVJ Publications Details
1.	Kokum (<i>Garcinia indica</i> Choisy),	Vol.-17, No.-8 (August 2023) (Date of Publication: 1 st September, 2023)
2.	Lemon (<i>Citrus limon</i> (L.) Burm. f.)	
3.	Pummelo (<i>Citrus maxima</i> (J. Burm.) Merr.)	
4.	Lilium (<i>Lilium</i> sp. (Asiatic, LA, OT and Oriental hybrids)	Vol.-17, No.-12 (December 2023) (Date of Publication: 01 st January, 2024)
5.	Jasmine (<i>Jasminum</i> spp.)	
6.	Ashwagandha (<i>Withania somnifera</i> (L.)	
7.	Olive (<i>Olea europaea</i> L.)	
8.	Anthurium (<i>Anthurium andraeanum</i>)	

2.2 NUMBER OF APPLICATIONS RECEIVED DURING 2023-24

During 2023-24, total of 235 applications were received for registration from both public and private as well as farmers' variety sectors under different categories. Majority of applications belonged to cereals, vegetables and fruits crops (Table 3).

Table 3a: Total number of applications received during 2023-24 (Sector-wise) crop group-wise)

Category	Public Sector	Private Sector	Farmers
New	17	110	-
Extant Notified	14	7	-
Extant VCK	5	50	-
Extant Farmers	-	-	28
EDV	-	4	-

Table 3b: Total number of applications received during 2023-24 (crop group-wise)

S.No.	Crop Group	Total
1.	Cash	1
2.	Cereals	77
3.	Fibre Crops	10
4.	Flowers	6
5.	Fruits	21
6.	Legumes	10
7.	Medicinal and Aromatic plants	1
8.	Oilseeds	11
9.	Spices	2
10.	Sugar Crops	4
11.	Tree, forest and plantation crop	2
12.	Vegetables	90
	Grand Total	235

Highest number of applications is received for Rice (47), Chilli (23), Okra/Lady's Finger (15), Cucumber (12), Pumpkin (12), Pearl Millet (9), Tomato (9), etc. (Table 4)

Table 4: Total number of applications received (crop-wise)

S.No.	Common Name	Total
1.	Apple	5
2.	Ashwagandha	1
3.	Bael	3
4.	Banana	1
5.	Barley	1
6.	Bitter Gourd	4
7.	Black gram	2
8.	Black Pepper	1

S.No.	Common Name	Total
9.	Bottle Gourd	6
10.	Carrot	1
11.	Cashew	2
12.	Castor	2
13.	Chickpea	3
14.	Chilli	23
15.	Cucumber	12
16.	Custard Apple	1
17.	Durum Wheat	1
18.	Fieldpea	1
19.	Finger Millet	3
20.	Ginger	1
21.	Grapes	7
22.	Groundnut	1
23.	Guava	1
24.	Indian mustard (Sarso)	5
25.	Jackfruit	2
26.	Jamun	1
27.	Jute	2
28.	Maize	7
29.	Marigold	5
30.	Moringa	1
31.	Okra/Lady's Finger	15
32.	Pearl Millet	9
33.	Pigeon pea	4
34.	Potato	7
35.	Pumpkin	12
36.	Rice	47
37.	Soybean	3
38.	Sugarcane	4
39.	Tetraploid Cotton	8
40.	Tomato	9
41.	Tuberose	1
42.	Watermelon	1
43.	Wheat	9
Total		235

Out of 235 applications, 171 applications were filed by private sector, 37 applications were filed by public sector and 28 by farmers. Under extant VCK category, 55 applications were received, 127 under New, and 28 under farmer's variety category were also filed for registration.

2.3 REGISTRATION OF PLANT VARIETIES

During 2023-24, registration process is completed and certificates were issued for 1763 varieties under different crop species (Fig) with maximum number of certificates issued under Farmer Variety 1546 followed by Extant Notified (82), New category (75) and VCK (60). Similarly, highest number of certificates were issued for cereals (1364) followed by Legumes (97), Oilseeds (84), vegetables (67), Fibre crops (61), Fruits (53) and Spices (31) etc.

Table 5: No. of certificates issued crop group-wise (2023-24)

S. No.	Crop group	No. of certificate issued
1.	Cash	1
2.	Cereals	1364
3.	Fibre Crops	61
4.	Flowers	1
5.	Fruits	53
6.	Legumes	97
7.	Medicinal and Aromatic plants	1
8.	Oilseeds	84
9.	Spices	31
10.	Sugar Crops	1
11.	Tree, forest and plantation crop	2
12.	Vegetables	67
	Total	1763

2.4 REPORTS OF BRANCH OFFICES OF THE REGISTRY

2.4.1 Branch Office, Shivamogga

PPVFRA Branch Office Shivamogga was established on 3rd May 2017 in the premises of College of Agriculture Campus, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Navile, Shivamogga. The PPVFRA Branch Office Shivamogga covers five states viz., Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Telangana and two Union Territories-Puduchery and Lakshadweep.

DUS characterization

The branch Office was headed by Dr. A K Singh. The following crops were taken for DUS characterization, during the year 2023-24. All the DUS observations were recorded from 10 randomly selected plants by the project staff at appropriate stage.

Sl No	Crops	No of entries	Sl No	Crops	No of entries
1	Pearl millet	24	10	Cauliflower	15
2	Sorghum	15	11	Watermelon	04
3	Okra	19	12	Ridge gourd	01
4	Chilli	40	13	Marigold	04
5	Brinjal	07	14	Sunflower	08
6	Tomato	35	15	Castor	06
7	Cucumber	10	16	Mustard	10
8	Bitter gourd	12	17	Rice	55
9	Bottle gourd	04	18	Cotton	52

Applications received for Registration under PPV&FR Act, 2001.

Ten applications along with seed were received for field pea, rice, black pepper, water melon, Ragi, Tomato and chilli crops under various categories at PPVFRA Branch Office Shivamogga. After preliminary examination they were forwarded to the Plant Varieties Registry, Head Office at New Delhi for further necessary action.

Visits, participation and Extension activities

- Dr Ajay Kumar Singh, In-charge and Plant Variety Examiner, Shivamogga Branch Office of PPVFRA visited DUS monitoring of *Triticum durum* and *Triticum dicoccum* at University Of Agricultural Sciences, Dharwad on 15.03.2024



Participated in International conference on Mighty Millets for Food, Nutrition and Health Security, organized by MSSRF, Chennai, Tamil Nadu from 6th August to 8th August, 2023 to create awareness about PPVFR, Act, 2001

- Interacted with B.Sc. Agri, RAWE Students on PPVFR, Act, 2001 on 20th February 2024. Participated in SEED FEST-2024 and Seminar, organized by MSSRF, Wayanad, Kerala to facilitate PGSC Awardees during March 1-2, 2024



- Contacted Director (Research) and Director (Extn.) of different State Agricultural Universities from southern zone (Andhra Pradesh, Karnataka, Kerala, Lakshadweep, Puducherry, Tamil Nadu and Telangana) regarding filing and facilitating applications seeking plant variety registrations in new/ extant/notified and farmers' varieties from plant breeders and farmers

E. Publications:

- Brought out one technical folder entitled "**Protection of Plant Varieties and Farmers' Rights**" in local language (Kannada)
- Advertised about the Plant Genome Saviour Award in local news paper to encourage the farmers to apply for the award.

2.4.2 Branch Office, Guwahati

The PPVFRA Branch Office Ranchi is situated in the premise of AAU, Khanapara Campus, Khanapara Jorhat, Guwahati Assam with its territorial jurisdiction, functioning since May, 2011.

The mandate of Branch Office is to function as Branch of Authority to participate in Training cum Awareness programme/ Meetings/ Seminars/ Workshop etc. convened by various research Institutions/ Agricultural Universities/ KVKs/ Departments/ Organizations/ Agencies in the jurisdiction for dissemination of knowledge concerning to PPVFR Act 2001.

- Registration Process:** During the reporting period Branch Office Guwahati has made following achievements:

- **Farmers, New & Extant varieties applications:** During the reporting period Branch Office Guwahati has received many letters of Farmers varieties applications for DUS Testing at SAU/CAU/ICAR/CSIR. The said extant & Farmers Varieties applications were submitted with all guide lines to headquarter for further processing.
 - **Seed Samples:** Branch Office Guwahati also took effort for receiving Seed samples of different crops which were applied earlier for DUS.
 - **Collecting Agronomic & Commercial (A&C) information /Attributes:** During reporting period Branch Office Guwahati also collected (A&C) **information /Attributes** from the concern KVKs/Farmers & submitting to the head office for further processing as demanded by the H.O.
 - **Inviting Plant Genome Saviour Farmer Reward applications:** During the reporting period Branch office Guwahati has communicated in their jurisdiction to Institutions/KVKs/ Organizations/Farmers for different Plant Genome Savior Awards for the year 2022-23 up to last extended date of sending/receiving of the application i.e. 30.09.2023.
 - **Co-ordination for submitting fee & others:** Branch office Guwahati also took effort for submitting of different fees i.e. Annual fee, Renewal fee & DUS fee etc from Institutes/ organizations.
 - **Deputy Registrar, Participation in Seminars/ Workshop/Kisan Goshthi etc. organized in the territories of PPV&FRA Branch office , Guwahati :-**
Hon'ble Chairperson & Deputy Registrar/In Charge Admin, PPVFRA, has attending awareness programme at AAU; Jorhat Assam and at others. Also, Deputy Registrar visited Branch Office on 22, Nov.2023.
- Miscellaneous:** - Branch Office also took effort for receiving Farmers variety & others applications from the organization/ KVKs/ Farmers etc for registration regarding.

2.4.3 Branch Office, Ranchi

The PPVFRA Branch Office Ranchi is situated in the premise of Computer Centre Building of the Birsa Agricultural University, Kanke, Ranchi Jharkhand with its territorial jurisdiction, functioning since May, 2011.

The mandate of Branch Office function as branch office of Authority to participate in Training-Cum-Awareness programme/ Meetings/ Seminars/ Workshop etc. convened by various research Institutions/ Agricultural Universities/ KVKs/ Departments/ Organizations/ Agencies in the jurisdiction for dissemination of knowledge concerning to PPVFR Act 2001, including different awards/rewards & Recognitions, popularization & motivation of registration of Farmers & others varieties.

- **Registration Process:** During the reporting period Branch Office Ranchi has made following achievements:

- **Farmers, New & Extant varieties applications:** During the reporting period Branch Office Ranchi has received various **applications** of farmer's & other varieties. In which, **01(One)** Extant variety application of Swarna Mukut of Cowpea received. Also **20 (Twenty)** F.V application of different crops, were sending through PC, Krishi Vigyan Kendra (KVK) Dunka (11) & PC, Krishi Vigyan Kendra (KVK) Jamtara, Jharkhand (09) respectively.
- **Seed Samples: 22(Twenty-two) seed samples** of different crops received for DUS Test.
- **Collecting Agronomic & Commercial (A&C) information /Attributes:** During reporting period Branch Office Ranchi also collected (A&C) **information /Attributes** from the concerned KVKs/Farmers & submitted to the Head Office for further processing.
- **Inviting Plant Genome Saviour Farmer Reward applications:** During the reporting period Branch office Ranchi has communicated in their jurisdiction to all Institutions/KVKs/ Organizations/Farmers for different Plant Genome Savior Awards for the year 2022-23 up to last extended date of sending/receiving of the application i.e 30.09.2023. **04** applications of different Award, Reward & Recognition were sent to Head Office.
- **Co-ordination for submitting fee & others:** Branch office Ranchi also effort for submitting of different fees i.e. Annual fee, Renewal fee & DUS fee etc. from Institutes/organizations.

- **Deputy Registrar, Participation in Seminars/ Workshop/Kisan Goshthi etc. organized in the territories of PPV&FRA Branch office, Ranchi**

Training-cum-Awareness Programme on PPV&FR Act, 2001 organized at Birsa Agriculture University, Ranchi, Jharkhand on 31st July, 2023 & also Visit of PPVFRA, Branch Office Ranchi.

The PPVFR Authority organized one day Training cum Awareness programme on different provisions of PPVFR Act, 2001 at Birsa Agriculture University (BAU), Ranchi on July 31, 2023. Dr. T. Mohapatra, Hon'ble Chairperson, PPVFR Authority, Ministry of Agriculture & Farmers Welfare, Govt. of India graced the occasion as Chief Guest along with Shri UK Dubey, Deputy Registrar & I/C Admin, PPVFR Authority, Ministry of Agriculture & Farmers Welfare, Govt. of India. More than 200 participants comprising of farmers, agriculture scientists, students and other stakeholders participated. The programme was presided by Hon'ble Vice-Chancellor, in the presence of Dr. Sujay Rakshit, Director, ICAR-IIAB, Jharkhand, Dr. Vishal Nath, OSD, ICAR- IARI, Hazaribag, Dr.A.K.Singh, Principal Scientist & head, ICAR-RCER, Plandu, Ranchi, Sri Umakant Dubey, Deputy Registrar, PPV&FRA, Dr. S. Karmakar, DSF, Birsa, Deans and Directors of the University, faculties, staff and students & Scientists of different KVKs, and farmers from neighbors of Jharkhand.



Dr. T. Mohapatra, Hon'ble Chairperson, & Sh. UK. Dubey Deputy Registrar & In/Charge Admin, arrived at Ranchi on 31st Dec. 2023. They attended the Kisan mela, organized on 01.01.2024.

State Level Training-Cum Awareness Programme on Protection of Plant Varieties and Farmers' Rights Act, 2001 Organised at Shilpgram Auditorium Deoghar on 5.03.2024.

The PPVFR Authority organized one day Training cum Awareness programme on different provisions of PPVFR Act, 2001 at Shilpgram Auditorium Deoghar, Jharkhand along with ICAR- Agricultural Technology Application, Research Institute (ATARI), Zone-IV, Patna, Bihar and the programme was coordinated by KVK, Deoghar.

Dr. T. Mohapatra, Hon'ble Chairperson, PPVFR Authority, Ministry of Agriculture & Farmers Welfare, Govt. of India Chaired the technical session on PPVFR Act, 2001 and its different provisions and co-chaired by Dr. SC. Dubey Vice-Chancellor, BAU, Ranchi. The following staff from PPVFR Authority and other institutes were also present on the occasion;

1. Dr. Nishikant Dubey, Hon'ble MP, Godda Loksabha.
2. Dr. Anjani Kumar, Director, ATARI Zone-IV, Patna.
3. Dr. DK Agarwal, Registrar-General, PPVFRA, New Delhi.
4. Shri U K Dubey, Deputy Registrar, PPVFR, New Delhi.
5. Dr. Ravi Prakash, Consultant (Technical), PPVFRA, New Delhi.

More than 500 participants were participated in the programme and an exhibition was arranged by the KVKs to showcase various activities by displaying live material and seeds of traditional varieties of their respective areas. The PPVFR Authority also participated in the exhibition and put up a stall and displayed posters on activities/provisions of PPVFR Act, 2001. Live plants and seed samples of the PGSC Awardee farmers and farming community from the state of Bihar and Jharkhand were displayed in the exhibition.

2.4.4 Branch Office, Pune

Details of varieties submitted by Branch office, Pune

Category	Public Sector	Private Sector	Farmers
New	01	01	--
Extant Notified	06	--	--
Extant VCK	--	--	--
Extant Farmers	--	--	05

Crop wise list of proposal submitted

Sr. No.	Crop Name	Proposal Submitted
1	Tuberose	01
2	Maize hybrid	01
3	Wheat	02
4	Pigeon pea	02
5	Cowpea	01
6	Custard apple	04
7	Drumstick	01
8	Chickpea	01

2.4.5 Branch Office, Palampur**Submission of New Mungbean Variety (JAUM0936)**

On 7th July, 2023, the PPV & FRA Branch Office in Palampur submitted a new mungbean variety (JAUM0936) for Plant Variety Protection (PVP) registration under the application number PL-0708230001 to the PPV

Communication with Directors of Research

On 22nd December, 2023, letters were sent to all Directors of Research from various State Agricultural Universities, including CSKHPKV Palampur, PAU Punjab, GBPUAT Uttarakhand, SKUAST Jammu & Kashmir, and Chandigarh, regarding the registration of extant, and farmers' varieties under the PPV & FR Act.

Training Sessions for Farmers

Four training sessions were organized in collaboration with KVK Kangra and CSKHPKV Palampur:

- 12th and 15th July 2023: Conducted at KVK Kangra with a total participation of 170 farmers.

- Two additional sessions were held at the Directorate of Research, CSKHPKV Palampur with 100 farmers in attendance.

The training focused on educating farmers about the PPV & FR Act, 2001, specifically their rights under the act and the process of registering farmers' varieties. The principles of Distinctiveness, Uniformity, and Stability (DUS) were highlighted, along with information on various awards and recognitions available for farmers.

3: DUS Test Centers

3.1 DUS TESTING CENTERS ESTABLISHED UNDER SECTION 19 OF PPVFR ACT 2001 AND RULE 29 (7) OF PPVFR RULES, 2003 IN GOVERNMENT OWNED NATIONAL AGRICULTURAL RESEARCH SYSTEM.

During the period under report 487 candidate varieties representing 40 crop species were tested for DUS characterization and evaluation at 45 centres in the country. These centres are established at locations most suitable either under Central Government or State Government owned agricultural research systems comprising the ICAR, CSIR, SAU or CAU. Dedicated research staff and support were provided as required, to maintain under the control of a designated Principal Investigator nominated by the Head of the Institution at each centre to operate for the testing and evaluation procedures required under the Act, in project mode with the approval of the Authority.

1.1.1. DUS TESTING CENTRES FOR RICE:

ICAR-Indian Institute of Rice Research, Hyderabad



A total of 131 test entries were sent for DUS testing in Kharif 2023. Of which 69 were in first year of testing and 62 were in second year of testing. 48 typical varieties, 12 candidate hybrids, 3 EDVs along with 3 IVs and 3 farmer's varieties were evaluated in 1st year. During the IInd year of testing (13) typical varieties and 23 hybrids were evaluated during kharif 2023-24 at ICAR-Indian Institute of Rice Research, Hyderabad as per the guidelines and were characterized DUS descriptors. A total of 125 Reference Collection of varieties (RCV's) was grown for multiplication during Rabi season. The sowings were done on 14.7.2023 (2nd year) and 17.7.2023 (1st year). Later, ~30 days old seedlings were transplanted in the main field on 24.8.2023 & 26.8.2023. The delayed transplanting was due

to severe labour shortage at IIRR farm, ICRISAT campus.

Details of DUS testing of candidate varieties in 2023-24:

Crops	New		Date of monitoring
	1 st year entries	2 nd year entries	
Rice	69	62	09/12/23

The grouping characters (stem length, decorticated grain length, basal leaf sheath color grain type, grain color, amylose content and grain aroma) among the entries were mostly uniform.

Key observations of the Monitoring team:

- Monitoring of DUS experiments (Kharif 2023) was conducted by the PPV& FRA, New Delhi in virtual mode on 9th December, 2023. The monitoring was delayed because of some unforeseen situation of the DUS testing at IIRR, Hyderabad.
- The monitoring team consisted of Dr. J. Aravind Kumar, Principal Scientist/Nodal Officer, Mr. Dipal Roy Choudhury, Joint Registrar, PPV& FRA, Dr. Rakesh Seth Principal Scientist & Head, ICAR-IARI and other personnel from PPV & FRA.
- In general, the team felt that the overall management of the experiments was good. The field was well maintained and free from weeds.
- The team opined that grain features should be recorded as per prescribed in DUS guidelines and variability if any be recorded accordingly
- The team critically examined the traits claimed by the applicant's vis-a-vis the data recorded by the project staff and expressed their satisfaction about the conduct of DUS tests.

ICAR-National Rice Research Institute, Cuttack

The experiment was carried out in Kharif 2023 season for DUS testing which had several unique results. All the data from morphological to biochemical analysis were recorded on proper growth stage of crop by following proper guidelines of the Authority. All the entries varied widely for both qualitative and quantitative characters. These

data were computerized in proper format and sent to PPV & FRA.

Crops	New		VCK	FV	Notified varieties	Date of monitoring
	1 st year entries	2 nd year entries				
Rice	25	31	Nil	1	96	18.10.2023

A set of 154 (25 Candidates for 1st year testing, 31 Candidates for 2nd year testing, 1 FV and 97 notified for 1st year testing) rice variety received from PPV & FRA, New Delhi on 5th June, 2023. Germination test results were taken after one week (13.06.2023) of receiving of seed packets. One notified variety i.e. CO 53 from 1st year testing did not germinate. All entries along with references and checks (Local and Regional) were sown in the nursery on 8th June 2023 and transplanted on 11th July 2023, 12.07.2023, 19.07.2023 and 20.07.2023 with randomized block design in three replications as per the standard recommended DUS test guideline. Coleoptile colour was recorded after 5 days of sowing. The crop started attaining flowering in the month of August - October. All the data (Quantitative and qualitative) from morphological to biochemical analysis were recorded in the appropriate growth stage of crop. A total of 135 reference varieties, 10 local checks and 10 regional checks were used against the candidates having fulfilled the demanded characters. All the data were recorded in the proper format provided by the authority and send to PPV & FRA, New Delhi on 19th April, 2024.



Out of 56 Candidates, only one entry (22RE3) was found to have purple coleoptile. Varieties 23RI273111H, 2890/2071, 23RICG222, 23RICR0605, 22REH4 and 22RV13 were found to have very strong pubescence. Entry 22REH7 was found to have nil/weak leaf pubescence. All the entries were having erect culm attitude except 2889/2137/H, 2890/2076, 23RIIR6417, 22R2H, 22RV1, 23RIB11001, 23RIB11702, 22RE2, 22RV11 (semi erect). 23RIRR6701H, 2890/2076, 23RIC218, 23RICR0220, 2890/2073, 22RE2, 22RV11, 22RE8, 23RIB11001, 23RICH404, 22 R2 H were having

shortest stem length. Only 22RE3 was found to have very strong Lemma anthocyanin colouration of keel and Lemma anthocyanin colouration below apex. Only entries 2889/2162/H, 23RITM8602H, 22RV13 were showing maximum panicle length of main axis. 22RE6, 23RICH404, 23RIPA0206H, 23RITM0807H were having maximum panicle number per plant. Among candidates only 23RITM0807H, 23RIRR6701H, 2883/2671, 22REH3, 23RIB11702 were found to have horizontal flag leaf attitude of blade in late observation. 23RICGOG19, 23RICR0605, 22RV1 were found to have awn. Entries 2883/2671, 22RE3 & 22REH3 were having dark brown and dark purple decorticated grain colour respectively. Only 22RE3, 22 RE H3 was found to have purple lemma palea colour. Varieties 23RIIR6417, 22 RE 8, 22REH4 were found to have gold and gold furrow lemma and palea colour. Among the entries 2890/2073, 23RIRR6701H and 2883/2671 were found to have semi erect to spreading panicle attitude of branches. 22RV5 was found to have both partial and mostly exerted panicle. Among all the entries 22RV13 (32g) was found to have maximum 1000 grain weight and 2890/2073 & 2890/2076 were having very low 1000 GW (10g). Grain phenol reaction was present in all entries except 23RIIMAR21 & 22RE8. Maximum and minimum grain length was found in 23RIRR0702H (11.23mm), 2889/2137/H (11.14mm) and 22REH4 (6.98mm) respectively. Maximum and minimum grain width was found in 22RV8 (3.08mm) and 2890/2076 (1.68mm) respectively. Entries 23RITM0807H (8.77mm) and 22RE6 (7.92mm) were found to have very long decorticated grain. Entries 2883/267 (2.69mm) & 22RV8 (2.66mm) were found to have broad decorticated grain. Entries 2890/2076, 2890/2074 & 23RIIMAR21 were having short slender decorticated grain. Entries 2889/2136/H, 2889/2137/H, 23RITM0807H, 23RIRR0702H were found to have extra long slender decorticated grain. 22RE3, 22REH3 were found to have dark purple decorticated grain. Entry 2890/2071 (32.175) and 23RICGOG19 (10.125) were found to have maximum and minimum content of amylase respectively. 2889/2137/H, 23RITM0807, 23RIRR0702H, 23RIIMAR21, 22RE3, 23RICH404, 23RIBR7506, 22REH3 were found to have aroma. Out of 56 entries 25 candidates 1st year, 26 Candidates 2nd year and one farmer variety were found to be uniform with respect to all the DUS characters. Most of the varieties were showing variation in stem length, panicle length, panicle number/plant, leaf width, leaf length, grain length, decorticated grain length, decorticated grain width. Many entries were found to be non-uniform with respect to two or three quantitative characters. On

line monitoring was conducted at the centre by PPVFRA.

Training cum Awareness programme on PPV&FRA conducted:

A two day Regional Workshop on PPV&FR Act, 2001 and Exhibition on Agro-Biodiversity was organized at ICAR-National Rice Research Institute, Cuttack during May 11-12, 2023. Nearly 80 farmers from different districts of Odisha; Scientists from ICAR-NRRI, ICAR-CTCRI Regional Station, ICAR-CHES, OUAT, Odisha Millet Mission and representatives from civil society organisations like WASSAN and MSSRF; Kaveri Seeds; Seed Industry of Bengal; Bharat Nursery; Debagiri Seeds; Centurion University; Agri Plos Pvt Ltd. etc participated.



During the inaugural session on May 11, Padma Shri Ms Sabarmateji was the Chief Guest; Sh Natabar Sarangi, Farmer and Conserver of traditional varieties, was the Guest of Honour. Following an introduction about the workshop by Dr B C Patra, Officer I/c ITMU and brief remarks by Dr M J Baig, Director (A), ICAR-NRRI, Cuttack, Padma Shri Ms Sabarmateji spoke about the importance of conservation of traditional varieties by farmers.



She highlighted with statistics the concept “Desi se Besi”, i.e., farmers can reap better profits by cultivation of traditional varieties that require less input but

provide better nutrition and stress tolerance. Sh Natabar Sarangi, Farmer and Conserver, discussed about the initiative called Rajendra Traditional Variety Research Centre at Niali, where nearly seven hundred endangered, traditional rice landraces, collected from different states, are being conserved. Dr. Trilochan Mohapatra, Chairperson, PPV&FRA, Guest of Honour of the Workshop, discussed about the genesis of the PPV&FR Act, 2001; importance of IP protection of traditional varieties by farmers and communities and how farmers can be benefitted; DUS centre at ICAR-NRRI since 2002, rights of farmers and PGSC Award for farmers conserving landraces and indigenous varieties of economically important crops. He has informed that till date about 775 traditional rice varieties are registered however farmers-research institutes and state dept must work together for documentation, cataloguing and registration of farmers varieties in millets, vegetables, tuber crops, legumes and oilseeds where Odisha has plenty of biodiversity. Dr Mohapatra informed that the National Gene Fund has provisions towards supporting *in situ* and *ex situ* conservation for traditional varieties and Authority, under his leadership shall take appropriate initiative to take it to farmers. A biodiversity exhibition is organized to showcase varietal diversity in cereals, millets, oilseeds, pulses, fruits, medicinal and aromatic plants and their value added products by ICAR-NRRI; MSSRF, Jeypore; Odisha Millets Mission; OUAT, Bhubaneswar; ICAR-CHES; ICAR-CTCRI, RS, Bhubaneswar. Participating farmers interacted with great enthusiasm with the resource persons and enquired about the important varieties, cultivation practices, nutritional factors and value addition.

ICAR-Indian Agricultural Research Institute (Regional Station), Karnal

Details of DUS testing of candidate varieties in 2023-24:

Crop	New		EDV	IV	FV	Date of monitoring
	1 st year entries	2 nd year entries	1 st year entries	1 st year entries		
Rice	16	03	03	03	3 (1 st yr) +4 (1 st Ind yr)	19.10.2023

Sixteen candidate entries (CVs/typical varieties) were under first year testing and three candidate varieties (CVs) (2223-5, 2223-6 and 2223-7) were under second year testing during *Kharif* 2023 at IARI, RS, Karnal. Three EDVs (2889/2146/EDV, 2889/2147/EDV, 2889/2148/EDV) and three IV varieties (2889/2146/IV, 2889/2147/IV,

2889/2148/IV were under first year testing during *Kharif* 2023. DUS Data were tabulated in proper format and sent to PPV&FRA. 3 FVs were under 1st year testing and 4 FVs were also under IInd year testing during *Kharif* 2023. In addition, 64 Notified varieties were under testing and 11 Reference varieties (RVs) were maintained during *Kharif* 2023. N.B. Apart from these 64 notified varieties were also under DUS characterization during *Kharif* 2023.

The nurseries of candidate, farmers' and reference varieties were raised on 12nd June 2023 and the DUS trials were transplanted on 13rd July 2023 as per DUS protocols. The nursery for notified varieties and maintenance breeding block of reference varieties was raised on 13rd June 2023 and transplanting was undertaken on 15th July 2023. The FVs were raised in paired Rows (No. of plants per replication: 120 and replications: 03).



Observations were recorded at various stages as per DUS Test guidelines. Field data (characteristic nos. 01 to 49) and laboratory data (characteristic nos. 50 to 57) have been recorded for CVs, FVs, EDVs, IVs and notified varieties and RVs. For recording of 5 chemical characteristics (Ch. no. 58-62) the samples of 19 CVs, 7 FVs, 3 EDV, 3 IV, 64 notified varieties and 29 (reference varieties including zonal and national checks) and 11 reference varieties of maintenance block were sent to Nodal Officer (DUS), IIRR, Hyderabad (by registered post parcel dated 10th January 2024). The DUS Trial online monitoring was done on 19-10-2024 by PPV&FRA, New Delhi.

List of varieties under maintenance breeding in 2023-24

Basmati 564, Sharbati, Savitri, Dhanrasi, Nidhi, PR 113, PR 116, Mashuri, CO 51, IR 64, Jaya

Out of afore said 19 entries (16 coded candidate entries (Ist yr.) + 3CVs (IInd yr.), one entry (23RDR4910) has purple coleoptile. Entries 2887/2213 and 2223-5 have basal leaf sheath colour light purple and 23RDR4910 has purple lines basal leaf sheath color. All the entries were having semi erect culm attitude except 23RIJAYA02. Out of 19 entries, 9 entries (2223-6, 2223-7, 23RIMT1001, 23RIKARI03, 23RIJAYA02, 23RDR4910, 23RICR0211, 23RICGOG12, 23RDR4910) were having very short stem length. Entries no. 23RDR4910 were found to have spikelet colour of stigma purple and presence of stem anthocyanin colouration of internodes. Entry 23RIBA104 has lemma palea colour brown furrows on straw. Entries 23RIKARI03, 23RIIN106 and 2223-7 have lemma and palea colour gold and gold furrows on straw background. All entries have semi erect panicle attitude of branches. Among all the entries 23RIPU2107 were found to have maximum 1000 grain weight (28.6g) and 23RIBA104 minimum 1000 grain weight (11.5g). Grain phenol reaction was present in all entries except (2887/2213, 23RIKARI 03 and 2223-5).

Tamil Nadu Agricultural University, Coimbatore

Eighteen candidate varieties were received from PPV & FRA, New Delhi on 14.07.2023. Nursery sowing of candidate varieties was taken on 28.07.2023 at wetland nursery, TNAU, Coimbatore. The sowing report was sent to PPV&FRA on 10.08.2023 along with germination test results. Among the 18 candidate varieties received, two varieties viz., 23RIINNI09 and 23RIANLI10 showed nil germination. Hence, 16 candidate varieties were transplanted on 25.08.2023 and the characterization/DUS testing was done as per the DUS guidelines.

For DUS characterization, 56 varieties notified under Seeds Act were received from PPV & FRA, New Delhi on 18.07.2023. Nursery sowing of notified varieties were taken on 28.07.2023 at wetland nursery, TNAU, Coimbatore. The sowing report was sent to PPV&FRA on 10.08.2023 along with germination test results. All 56 gazette notified varieties were transplanted on 29.08.2023 and the characterization was done as per the DUS guidelines.

List of gazette notified varieties for characterisation

Bapatla Mahsuri (BPT 2295) (IET 22188)	TRY 5 [TR 09030] (IET 26068)	CR Dhan 506 (IET 23053) (CR2687-2-3-1-1)
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Jagtiala Rice-1 (JGL24423) (IET 25310)	RNR 15048	28S41 (IET 24891)
Teja (BPT 2595) (IET 25486)	MTU 1121 (Sri Dhruthi)	Bhupesh (IET 23324) (CN 1752-18- 1-9-MLD19)
Sasya (BPT-2411) (IET 23081)	Nellore Siri (NLR 4001) (IET 25273)	DRR Dhan 47 (IET 23356)
Bhavathi (BPT-2782) (IET 27124)	Nellore Sugandha (NLR 40054) (IET 23194)	DRR Dhan 48 (IET 24555)
TKM 13	MTU Rice 1239 (IET 26263)	DRR Dhan 50 (IET 25671)
TKM 15 [TM 12077] (IET 26645)	NLR 40024	Nandyala Sona (NDLR 7) (IET No.23715)
KPR-1 (IET-23077)	NLR 3041	CN 1272-55-105 (IET 19886)
KHP-13 (Bharath)(IET 21479)	MTU 1281	Telangana Vari-1 (IET 25330) (WGL-739)
KKP-5 (IET 24250)	MTU 1212	Warangal Rice - 1 WGL-915 (IET 25284)
Sahyadri Panchmukhi	MTU 1280	DRR Dhan 59
Sahyadri Megha	MTU Rice 1293	DRR Dhan 60
BMR-MS-1-2-1	MTU Rice 1310	DRR Dhan 62
Sahyadrikem-pumukthi (IET-29855)	MTU Rice 1321	DRR Dhan 63 (IET 26383)
CO 51	KKL (R) 2 (IET 28791)	DRR Dhan 65 (IET 27641)
CO 52	Daksha (KMP-175)	DRR Dhan 66 (IET 28066)
CO 43 Sub-1 (IET 25676)	Gangavati Ageti (IET-19251)	
CO 53 (CB 06803 (IET 24057)	GNV 10-89 (IET 24716)	
CO 54 (CB 12588)	Pusa Samba 1853 (IET 28014)	
CO 55 (CB 15714) 4 (IET 27873)	VGD 1 (VG 09006) (IET 24606)	



Pubescence on blade surface was absent in the entries 2890/2092, 2890/2088, 2890/2083, 2890/2087, 23RIRN4804, 23RIBARI06, 23RILUIT07, 23RIBP0408 and all other entries showed weak leaf pubescence. Leaf length of blade was found to be long in the entries 2890/2092, 2890/2088, 2890/2084, 23RIBARI06 and medium in all other varieties. Width of leaf blade was found to be narrow in 2890/2020, 2890/2086, 23RIKA302, 23RIMT1005, 23RILUIT07, 23RIBP0408 and medium in other entries. Flag leaf attitude of blade was erect in 2890/2091, 2890/2092, 2890/2083, 2890/2084, 2890/2087, 23RIKA302. In the entries 2890/2091, 2890/2092, 2890/2083, 2890/2085, the number of panicle was few. Sterile lemma colour was gold in 2890/2088. Time of maturity was late in 2890/2020 and 2890/2091. 1000 Grain weight was very high in 2890/2091. Grain length was medium in 2890/2084 and 23RIMT1005. The entries 2890/2091 and 23RILUIT07 exhibited broad grain width, whereas 23RIKA302 and 23RIRN4804 showed very narrow grain width. Grain Phenol reaction of lemma was present in the entries 2890/2020, 2890/2091, 2890/2086, 2890/2087, 23RIKA302, 23RIBARI06, 23RILUIT07 and 23RISADA11. Decorticated grain length was medium in 2890/2091, 2890/2092, 2890/2083, 2890/2084, 2890/2087, 23RIMT1005, 2890/2085 and width was broad in 2890/2091, 23RIBARI06, 23RILUIT07. The shape of decorticated grain was long bold 23RIMT1005; short bold in 2890/2020, 2890/2091, 2890/2092, 23RIBARI06, 23RILUIT07, 23RISADA11. The entry 23RILUIT07 showed red colored grain. Endosperm content of amylose was very low in 2890/2084. Off types were present in the entry 2890/2091 (2 Nos. in R1- Purple stigma) and 23RIBP0408 (2 Nos. in R2 - Early flowering). All the 16 entries of candidate variety showed uniformity.

List Varieties under maintenance/ characterized:

Sl. No	List of varieties under maintenance breeding	Source, Release / commercial release date, if any
1.	CO 43 Sub-1	TNAU / 27.03.2018
2.	CO 51	TNAU / 30.03.2017
3.	CO 52	TNAU / 27.03.2018
4.	CO 53	TNAU / 07.10.2020
5.	CO 54	TNAU / 24.12.2021
6.	CO 55	TNAU / 31.08.2022
7.	TKM 13	TNAU / 22.11.2016
8.	TKM 15	TNAU / 31.08.2022
9.	TRY 5	TNAU / 31.08.2022
10.	VGD 1	TNAU / 05.09.2019

Dr DK Agarwal, Registrar General, PPV & FRA visited the Department of Seed Science and Technology on 02.02.2024 and reviewed the progress of DUS testing in Rice and Sunflower. The technical and financial progress report of the DUS testing of Rice and sunflower was presented.

**Indira Gandhi Krishi Vishwavidyalaya, Raipur**

In total, 35 candidate varieties were evaluated for DUS performance during the season of *Kharif* 2023-24. Overall trial condition was very good.

- The date of sowing of seed materials was 22/06/2023 and the materials were transplanted on dated 18/07/2023.
- All the candidate varieties were uniform for all the traits except Swarna Unnat Dhan and Swarna Purvi Dhan 3 they have some quantity of seed admixture.
- The variety VNR -216, US-303 and CG Madhuraj-55 was observed to be light purple

to uniform purple anthocyanin pigmentation on Basal leaf sheath.

- The variety VNR-2111, CO-51, Hybrid Indam 200-022, CG Barani Dhan-2 was observed to be mid early, VNR-216, CR-312, Trombey CG Sonagathi Mutant, Pusa Samba 1850 was observed late and other than these, 27 varieties were showed medium duration of 50% heading of plants with panicles.
- Germination in the variety US -303 were observed to be very less and the appears like a traditional variety, unique for open culm attitude, purple stigma, higher stem thickness and higher grain weight (29.8g) of 1000 fully developed grains.

Publications and other significant achievements:

- Souvenir for workshop on Agro-biodiversity conservation and commercialization of local varieties/Traditional landraces for increasing livelihood of rural farmers' communities. Agri-carnival 2022, IGKV, G&PB, Raipur



- Sharma, D., Singh, S., Sahu, P., Choudhury, D.R., Rana, J.C., Dsouza, S. and Ahlawat, S.P. 2021. Registered farmers' variety under PPV&FRA in Chhattisgarh state. (Catalogue Part-1), Indira Gandhi Krishi Vishwavidyalay, Raipur, Chhattisgarh.
- Sharma, D., Singh, S. and Tiwari, A. 2021. Scenario of PPV&FRA activities in Chhattisgarh. Indira Gandhi Krishi Vishwavidyalay, Raipur, Chhattisgarh.

Icar-Neh Regional Station, Lamphelpet, Manipur

Season	No. of entries	General growing	Sowing-transplanting
Season 1	26	Good	18/7/2023-21/8/2023
Season 2	6	Good	18/7/2023-21/8/2023

During 2023, first year DUS characterization was carried out for 26 released and notified varieties of rice along with 28 reference varieties including 8 maintenance lines from Manipur centre and 6 farmer varieties from the last year 2022. The experiment was carried out in randomized complete block design with three replications under rainfed lowland transplanted condition. Observations were recorded for 48 morphological characters and 14 post harvest characters for both the farmer varieties from last year and newly received this year. In comparison to reference varieties, some of the farmers variety e.g., CAU-R4(Eenotphou), CAU-R2(Tomthinphou), CAU-R3(Mangal phou), Dehangi (AAUDR 9313-14-3) etc. are found distinct for few traits namely 50% flowering, anthocyanin colour of collar, anthocyanin colouration of apex, colour of stigma, anthocyanin colouration of nodes and presence of awn & distribution of awn etc. Out of the entries where 2nd year of testing were done, few characters were found distinct for few traits, viz., presence of highest leaf pubescence of blade surface, stem length (63-144 cm), few panicle number per plant, strong secondary branching, higher 1000 grain weight ($\geq 28g$), grain shape being short bold, white decorticated grain color and presence of decorticated grain aroma. Entry from the last year 2022-23, farmers variety entry 22 ref 1, 22 ref 2 & 22 ref 6, were found distinct for few character/traits namely, presence of highest leaf pubescence of blade surface, stem length (117-149 cm), few panicle number per plant (< 11 no.), strong secondary branching, higher 1000 grain weight ($\geq 28g$), grain shape being short bold, white decorticated grain color and presence of decorticated grain aroma.



Few entries like CAU-R4 (Eenotphou) & Dehangi (AAUDR 9313-14-3) are found to have unique DUS character like anthocyanin colour of collar, anthocyanin colouration of apex, colour of stigma, anthocyanin colouration of nodes etc.

ICAR-NEH Regional Station, Nagaland

Crops	New	Date of monitoring
	1 st year entries	
Rice	26	7-11-2023

ICAR, NEH, Regional Stations, Nagaland Centre received a total of 26 entries from the PPV & FRA, New Delhi on 14th June, 2023. Germination test was carried out and all the entries along with reference and checks (local and regional) germinated successfully. All the entries along with reference and checks (local and regional) were sown in the nursery on 20th June 2023 and transplanted on 26th July 2023 with randomized block design in three replications as per the recommended DUS test guidelines. The crop started attaining flowering in the month of September-October. All the data based on morphological to biochemical analysis were recorded in the appropriate growth stages of crop. These 26 entries were evaluated along with 6 checks, RCM-9, Pusa Sugandha, Ranjit, Bhalum-3, IR-64 and IR-8 during *kharif* season in lowland ecology. Observations were recorded for the 62 DUS characters on 10 randomly selected plants.



All 32 entries were evaluated: leaf collar was present for all entries except CAU-R4 and CAU-R2. Presence of leaf anthocyanin colouration of collar was observed on CAU-R4, CAU-R2, Mogme, Mn-56 and Chahou. Split shape of ligule was observed for all entries except CAU-R4 and CAU-R2. All the entries have white colour of ligule except for Mogme, Mn-56 and Chahou. Varieties Diyung, Ranjit sub-1, TTB 103-3-1, Cau-R3 and Chahou observed long length of blade. Broad width of blade was observed for varieties Diyung, Ranjit sub-1, TTB 103-3-1, Mogme and Chahou. All the entries were having erect culm altitude. Erect altitude of blade was observed for all entries except TTB 103-3-1, TTB 283-1-26, AAUDR 9313-14-3, HPR 2636, WTR1 and Hau 565 which showed semi-erect attitude of blade. Spikelet density of pubescence of lemma was absent in TTB 103-3-1, TTB 283-1-26, AAUDR 9313-14-3, WTR1 and Hua 565 and male sterility was absent in MEGA SA-2 and Kohima special. Lemma anthocyanin colouration of kneel was strong for Chahou and lemma anthocyanin colouration below apex and apex was very strong for chahou. Puple colour stigma was observed in Cau-R4 and very long stem length was found for Cau-R4, Mogme, MN-56, MEGA SA-2, Kohima special, Poilwa

and Chahou. Stem anthocyanin colouration of nodes and internodes was present for Cau-R4, MN-56 and Chahou. Very long panicle length of main axis was found in HPR 2795 and maximum number of panicle was found in Haccha, Langpi, Ranjit sub-1, Bahadur sub-1, HDR 2656, HPR 2880, SAG C7, MN-56, MEGA SA-2, Kohima special, Poilwa and Chahou. Varieties Mogme, Poilwa were having purple lemma palea colour and MN 56 and chahou had black lemma palea colour. Varieties VL 32130, Cau R4 and Kohima special were found purple colour of awns. Panicle presence of secondary branching was found for all the entries and panicle secondary branching was found clustered for Kohima special. Erect to semi erect panicle attitude of branches was found in all except for the variety VL 32224 which showed spreading type. Early type of maturity was found in Haccha, AAU-KMJ-Dhan-46, TTB 283-1-26, AAUDR 9313-14-3, AAUDR 9301-14-1, WTR1, Hua 565, VL 32139, Cau R2 and Cau R3 and late maturity was found in Langpi, Diyung, Ranjit sub-1, Bahadur sub-1, Mogme, MN 56, MEGA SA-2, Kohima special, Poilwa and chahou while the rest showed medium. Maximum number of grain weight was found in VL 32130 and Cau R4 (28.2g) and least was found in Chahou (18.1g) and for grain width Kohima special and Chahou showed broad type. Grain phenol reaction of lemma was absent for the varieties AAUDR 9301-14-1, AAUDR 9312-13-1, HPR 2795, HPR 2880, VL 32130 and Mogme. Decorticated grain length was found extra long for varieties Mogme (7.58mm) and Poilwa (7.73mm) and broad grain width was found for varieties TTB 202-4, TTB 202-3, SAGC7, WTR1 and kohima special. Varieties Mogme, MN-56 and poilwa was found long slender* decorticated grain and varieties AAUDR 9313-14-1, AAUDR 9301-14-1, AAUDR 9312-13-1, HPR 2795, HPR 2656 and MEGA SA-2 showed red type of grain colour whereas varieties Mogme and MN-56 showed purple type. Maximum content of amylase was content in the variety AAU-TTB-Dhan-40. Decorticated grain aroma was present for all except for the varieties Haccha, AAU-KMJ-Dhan-46, Bahadur sub-1, TTB 202-4, TTB 202-3, AAUDR 9313-14-3, HPR 2795, HPR 2880, MN-56 and Kohima special.

Sl No	List of varieties under maintenance breeding in 2022-23	Source, Release / commercial release date, if any
1	RCM-9	ICAR Manipur centre, 2000

2	Pusa Sugandh	IARI, New Delhi, 2004
3	Ranjit	AAU, Jorhat
4	Sikkim Dhan-1	ICAR Sikkim Centre, 2020
5	Sikkim Dhan-2	
6	Sikkim Dhan-3	
7	Sikkim Dhan-4	

Assam Agricultural University, Jorhat

Crops	New		Date of monitoring
	1 st year entries	2 nd year entries	06.11.2023
Rice	55 Entries	11 entries	

A set of 66 rice entries comprised of 11 varieties for 2nd year trial (5 typical variety and 6 hybrids) and 55 varieties for 1st year trial were received from PPVFR Authority, New Delhi on 6th July, 2023. These varieties were evaluated along with 9 regional and zonal checks for the 2nd year trial and 12 regional and zonal checks for the 1st year trial respectively. Sowing was done for all the entries along with regional and zonal checks on 14th July 2023. All the varieties germinated well. Transplanting was done from 10th to 12th of August 2023 following standard recommended DUS guideline and package of practices for *kharif* rice in Assam. Transplanting was done in a randomized block design in 3 replications for 2nd year trial and the 1st year trial was non-replicated. All the qualitative and quantitative data for morphological and biochemical characters were



recorded at appropriate growth stages. All the data were recorded in the proper format provided by the Authority and send to PPV & FRA, New Delhi on 22nd June, 2024.



Out of 55 entries grown for 1st year; SAVA 134, PAN 2423, CAU R4 possessed purple lines on basal leaf sheaths. Twenty- three entries were found to have medium leaf intensity of green colour and 18 entries (Haccha, CR Dhan 801, SAVA 134, Swarna Unnat Dhan, PAN 2423, CAU R4 and Rajdeep) were with dark leaf intensity of green colour. Seven entries (Rajdeep, CAU R4, PAN 2423, Swarna Unnat Dhan, Sabour deep, Jalashree and Jalkuwari) were found to have strong leaf pubescence in blade surface. CR Dhan 802, SAVA 134, PAN 2423 and Uttar Sona were recorded with light purple anthocyanin colouration in auricle. Purple anthocyanin colouration in auricles was present in CAU R4. Anthocyanin colour in collar was reported in CAU R4, SAVA 134 and PAN 2413. These entries also possess light purple leaf ligule. Very early 50% flowering was recorded in CAU R3. Early 50% flowering was recorded for the entry viz., Sukumar, Chinsura Nona 1, CAU R2, PAN 2423, Sabour Deep, VL Dhan 88, Uttar Sona, Uttar Samir, BRRI Dhan 69, Rongkhang, Dehangi and Haccha. Light purple stigma was recorded in Dehangi and purple stigma in SAVA 134, PAN 2423 and CAU R4. Very short stem length was recorded for 33 entries viz., Chinsura Nona 2, Rajdeep, Sukumar, Manisha etc. Twenty- one entries were recorded for short stem length viz., Dholi, Numali, Jalkuwari, Jalashree, Kanaklata etc. Other entries were recorded for having medium stem length. Strong anthocyanin colouration was present at node and internode in CAU R4. Kanaklata was recorded for long Panicle length (27.15cm). Other entries with long panicle varieties were Sabour Sampanna Dhan (25.89cm), Sabour Ardhjal (25.6cm), DRR Dhan 64 (28.11cm), CR Dhan 909 (27.2cm), VL Dhan 88 (25.3cm), Sabour Surbhit (26.44cm), Sabour deep (26.89cm), PAN 802 (29.94cm), Chinsura Nona 2 (26.88cm). Purple tip of lemma was recorded in Uttar Sugandhi. Awns were present in the panicle of CR Dhan 909, Sabour Surbhit, SAVA 134, CAU R4 and Manisha. Very early maturing entries recorded were CAU

R3 (94 days), CAU R2 (96days) and early maturing entry was Sukumar(108 days). Very high 1000 grain weight was observed in Jalashree (30.42g). High 1000 grain weight was present in Chinsura Nona 1 (29.74g), CAU R4 (26.65g), PAN 2423(26.63g), Swarna Samriddhi Dhan (26.63g), VL Sikkim Dhan 4(26.71g), CR Dhan 307(26.52g), CR Dhan 508(27g), Sabour Harshit Dhan (28.08g), Gitesh (28.12g) and Jalkunwari (28.96g). Medium grain weight was recorded in 21 entries and low grain weight in 23 entries. Short slender grain shape was recorded in Bina Dhan 17. Entries possessing short bold grain shape were Dholi, Jalkunwari, Kanaklata, Inglongkiri, Rongkhang, CR Dhan 307, Uttar Samir and VL Sikkim Dhan 4. Medium slender grain shaped entries were Ranjit Sub 1, Bahadur Sub 1, Gitesh, Dehangi, MTU1223, Sabour Sampanna Dhan, Sabour Shree, BRRI Dhan 69, Uttar Sugandhi and Chinsura Nona2. Twelve entries (Numali, Sabour Harshit Dhan, Sabour Ardhjal, BRRI Dhan 75, CR Dhan 909, VI Dhan 88, Sabour Surbhit, SAVA 134, Swarna Samriddhi Dhan, Swarna Unnat Dhan, PAN 802 and Sukumar) were found to have extra-long slender grain. Two entries Dehangi and VL Sikkim Dhan 4 were found to have red decorticated grain colour. Other entries were recorded for having light brown decorticated grain colour. Three entries were recorded for having very low (<10%) amylose in endosperm; viz., CAU R4, CAU R2, CAU R3. Medium (20-25%) amylose content in endosperm was recorded in 9 entries viz., Haccha, Ranjit Sub-1, Numali, Jalkunwari, Jalashree, Kanaklata, Dehangi, MTU 1223 and DRR Dhan 64. Uttar Sugandhi was recorded for containing strong aroma. Other mild aroma containing entries were viz., BRRI Dhan 75, CR Dhan 506, CR Sugandh Dhan 908, CR Dhan 909, VL Dhan 88, Sabour Surbhit, Sabour deep and PAN 802. Only a few off types were recorded in the population.

Difference in basal leaf sheath colour was found in both candidate and SMG hybrids of 22RE H1 and 22RE H2. Difference in 1000 grain weight and decorticated grain width was observed in case of both SMG and candidate hybrids of 22RE H1. Difference in flag leaf attitude of blade (early observation), stem thickness, maturity time was observed in case of both SMG and candidate hybrids. Eleven entries were grown for 2nd year evaluation along with the reference varieties. Out of these 22RE3, 22RE H1(F1) and 22RE H2 (Candidate Hybrid) possessed purple basal leaf sheath colour. 22RE H1(Candidate Hybrid) and 22RE H2(F1) were recorded with light purple basal leaf sheath. Five entries 22RE3, 22RE H1(Candidate

Hybrid), 22RE H1(F1), 22RE H2(Candidate Hybrid) and 22RE H2(F1) were found to have dark leaf intensity of green colour. 22RE3 was found to have strong leaf pubescence on blade surface. Purple anthocyanin colouration in auricles was present in 22RE3. Light purple anthocyanin colouration in auricles was present in 22RE H1(Candidate Hybrid), 22RE H1(F1), 22RE H2(Candidate Hybrid) and 22RE H2(F1). Early 50% flowering was recorded for the entry viz., 22RE H2(Candidate Hybrid), 22RE H2(F1) and 22 RE H3. Very short stem length was recorded for 22 RE H3, 22RE H2(Candidate Hybrid), 22RE H2(F1), 22RE8 and 22RE2. The varieties 22RE H4, 22RE H1(Candidate Hybrid), 22RE H1(F1), 22RE7, 22RE6 and 22RE3 were observed to be with short stem length. High 1000 grain weight was recorded in 22RE H1(F1) (26.51g), 22RE H2(Candidate Hybrid) (26.35g), 22RE H2(F1) (26.74g). 22RE3, 22RE6, 22RE8, 22RE H1(Candidate Hybrid) and 22RE H1(F1) were found to have long bold grain. Medium slender grain shape was present in 22 RE H3, 22RE H4 and 22RE7. 3 entries 22RE2, 22RE H2(Candidate Hybrid) and 22RE H2(F1) were found to have long slender grain. One entry 22RE3 was found to have purple decorticated grain colour. Other entries were observed to be having light brown decorticated grain colour. Very low (<10%) amylose in endosperm was present in 22RE3, 22 RE H3 and 22RE H4. Four entries viz., 22RE H1(Candidate Hybrid), 22RE H1(F1), 22RE H2(Candidate Hybrid), 22RE H2(F1) were recorded with low (10-19%) amylose in endosperm. Two entries 22RE6 and 22RE8 were recorded to be with high (26-30%) amylose content and rest of the entries were found to have medium (20-25%) amylose content in endosperm. 22RE3 was recorded for containing strong aroma. Other aroma containing entry was 22RE H3.

3.1.2. DUS TESTING CENTRES FOR COTTON

Mahatma Phule Krishi Viswa Vidyalaya (Cotton), Rahuri



In year 2023-24 at Cotton Improvement Project MPKV, Rahuri, there were four new Hybrid for 1st year testing, 68 entries tested for IInd year in which

32 typical and 36 candidate hybrids. Like wise 55 reference varieties received from PPV&FRA as well as 68 reference varieties has been maintained at this centre and nine commercial check/ hybrids was sown. During the year 2023-24 Monitoring was conducted online mode at this Centre on 25th Nov 2023, under the members of monitoring team Dr. K. Rathinavel, (Principal Scientist, CICR, Coimbatore), Dr. R.S. Wagh (Cotton Breeder, MPKV, Rahuri), Dr. V. Santhy, (Principal Scientist, CICR, Nagpur) and Mr. Dipal Roy Choudhury (Joint Director, PPV&FRA, New Delhi). All the observations were recorded and results were submitted in stipulated time with photograph of field. The performance of tested varieties was uniform, satisfactory and good upto harvesting.

As regard for Ist year testing, out of four entries three varieties (2889/2133, 2877/2495 & 23COANLI01) found flat leaf appearance and one variety (23COG0002) found cup shape leaf appearance. In relation to boll shape, two entries (2889/2133, 2877/2495) were found having round shape boll and remaining two (23COANLI01 & 2889/2133) recorded ovate shape of boll. Petal color and pollen color observed different in tested entries, in which two entries (2889/2133 & 23COANLI01) recorded cream color petal and two entries (2877/2495 & 23COG0002) recorded yellow color petal.

In second year testing, out of 68 candidate's hybrids, 33 hybrids recorded yellow color petal and 35 hybrids recorded cream color of petal. As pollen color, 18 hybrids were observed with yellow color, 43 hybrids with cream color and 7 hybrids with deep yellow color pollen respectively. In relation to boll shape, among 68 hybrids only 8 found elliptical. Most of the candidate's hybrids found with ovate shape boll those 43 hybrids and remaining 17 hybrids found with round shape of boll. As regard leaf appearance more number of hybrids (41) found with flat leaf appearance and 27 hybrids found cup leaf appearance.



During the monitoring there were some minor differences in claimed characters and observations recorded regarding the growth performance. Leaf appearance and boll shape having differences in recording of observation at Rahuri and Nagpur centre, discussion was done on this point. All entries were looking uniform in their proper stage of growth.

Gazette Notified cotton varieties recommended for Central Zone: charactersiation done			
S.No.	Notification Date	Notification No.	Name of the variety
1	10.07.2020	S.O. 3482 (E)	Gujarat Anand Desi Cotton 3 (GADC 3: Wagad Gaurav) (GVhu 767)
2	01.04.2019	S.O. 1498(E)	G.Cot.36 (Gujarat Cotton 36) (GSHV 177)
3			G.Cot.34 (Gujarat Cotton 34) (GISV 272)
4	01.06.2020	S.O. 99(E)	Central Cotton CCH 14-1 (Sunantha)
5			G.Cot.40 (Gujarat Cotton 40) (GSHV 172)
6			G.Cot.42 (Gujarat Cotton 42) (GSHV 180)
7	09.05.2019	S.O. 3220(E)	GN Cot. Hy-18 (GSHH-2759)
8			PA-740
9	10.07.2020	S.O. 3482 (E)	Central Cotton CICR CNA 1028 (CNA 1028)

10	10.07.2020	S.O. 3482 (E)	Central Cotton CICR CNA 1032 (CNA 1032)
11			ICAR- CICR 16 BT
12			ICAR- CICR RajatBt 2
13			ICAR- CICR GJHV 374 Bt
14			Phule JLA- 0906 (JLA-0906)
15			NBC-1103 BG II
16			PKV -081 Bt
17			GTHV 13/28
18			PA 812
19	20.07.2021	S. O.2986 (E)	Dafttri-333 (BG-II)
20			Gold Star BG II
21	22.11.2016	S.O. 3540 (E)	GN.Cot.25
22			GN.Cot.22
23			G.Cot.20 (GSHV 97/59)
24	24.12.2021	S. O. 8 (E)	Nandyal Cotton-22 (NDLH 2005-4)
25	25.08.2017	S.O. 2805(E)	Nandyal Cotton-24 (NDLH 2051-1)
26			CICR-H Cotton 47 (CNH 1111)
27			CICR-A Cotton 46 (CNA 1054)
28			ICAR-CICR Bt 9 (ICAR-H Bt Cotton 49)
29			ICAR-CICR Bt 14 (ICAR-H Bt Cotton 50)
30			ICAR-CICR Bt 21 (ICAR-H Bt Cotton 51)
31			Solar 106 BG II
32			Solar 108 BG II
33			PA 810
34			GN. Cot. Hy-14 (GSHH-2729)

35			Central Cotton CCH 12-2 (Suchitra)
36			Central Cotton CCH 4474 (Subiksha)
37	26.12.2018	S.O. 6318(E)	G N . C o t . - 3 2 (GISV-267)
38			G N . C o t . - 2 6 (GVHB 170)
39			G N . C o t . - 2 9 (GBab 106)
40	29.01.2021	S. O. 500 (E)	CICR-H Cotton 36 (Suraksha)
41			MC5431 BGII
42			RCH 947 BG II
43	29.01.2021	S. O. 500 (E)	RCH 956 BG II
44			RCH 953 BG II
45			RCH 929 BG II
46			CICR-A Cotton 56 (CNA1031)
47			CICR-A Cotton 59 (CNA17522)
48			CICR- H Bt Cotton 60 (YogankBt (CICR-183059-5))
49			CICR- H Bt Cotton 62 Namami (CICR 19-32 BT)
50	31.08.2022	S. O. 4065 (E)	CICR- H Bt Cotton 63 (SamartBt (CICR- 183059-2))
51			GBCH-1801 BG II
52			SHAIV MC5444 BGII
53			NBC 2020 BGII
54			GISV 312 GN.Cot.44
55			RCH-971 BG II

Varieties under maintenance/characterized:

MCU-10, H-1098, MCU-3, SUMAN, MCU-11, REBA-B-50, HLS-329, LH-900, MCU-13, SUPRIYA, AKH-07R, JK-4, AH-107, NH-545, MCU-5, RMPBS-155, PH-93, RCH-001, F-1378, VC-21, SUVIN, ACP-71, PRATIMA, JCC-1, NCH-419, TCB-209, MDH-89, SH-2379, AKH-081, SAHANA, KHANDWA-3, NH-452, GSHV-112, G.COT.18, MCU-7, DEVIRAJ, ABADHITA,

MCU-9, LAKSHMI, G.COT.12, KANCHANA, BADNAWAR-1, SUMANGALA, GUJRAT-67, J-34, DHY-286-1, LH-1556, BUNNY-FEMALE, NCH-11, T-7, MCU-8, MCU-5VT, SURABHI, PKVRAJAT, VC-32, RSP-4, KHANDWA-2, F-846, G.COT.16, MCU-12, JLH-168, G.COT.16, PRS-74, MCU-4, SUJATHA, H-974, H-1220, LRA-5166, Phule Suman, Phule Prabha, Dhanwantry, Phule Dhara, MRC-7351, Dhandev, NCH-854, Rasi-Magic, Rasi-659, Phule-688, Phule-717, Phule 388, Phule-492, Phule-622, NCS-954, Ajit-155, Ajit-199.

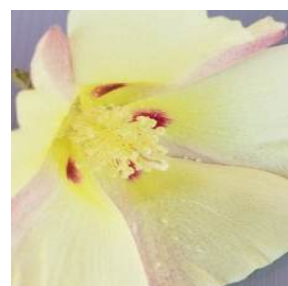
ICAR- Central Institute for Cotton Research, Regional Station, Nagpur

Details of DUS testing of candidate varieties in 2023-24:

Crops	New		Notified Varieties
	1 st year entries	2 nd year entries	
Cotton	4	98	55

The kharif 2023 season witnessed moderate and timely rainfall. The germination and plant stand was very low in majority of the 43 entries received for second year testing. This set of entry also exhibited heavy sucking pest infestation requiring frequent insecticide spray. In 23COG1810 entry, it was showed high number of off-types (12 out of 100 total plants) In 2881/2036 entry, showed high number of off-types (14 out of 50 total plants F1 SMG plot), and (10 out of 50 total plant population in candidate plot). Few unique traits which are not listed in the DUS test guideline was observed in few entries. Popular private Bt hybrids (Four), CICR released Bt varieties (One) and Zonal as well as regional checks were also included in the trial. DUS monitoring was held online on 20.11.2023 in presence of officials from PPVFRA, ICAR-CICR and other centres.

List of varieties under maintenance breeding in 2023-24	Source, Release / commercial release date, if any
<i>G. hirsutum</i> (31)	State Universities, ICAR-CICR, PPV&FRA
<i>G. barbadense</i> (3)	



In the 2nd year trial, the entry, 2870/2114 - Plants were fully pigmented in all three replications. Another entry, 2876/2295 was unique with chain boll bearing and loose flower opening. One entry, 23CORC1103H was showed high seed index (13.88g). The entry, 2871/2556 showed semi-oval type boll shape and was unique.

The monitoring team suggested including those entries in advance trials of AICRP as reference hybrids for DUS testing. The data of centers (central zone at Rahuri and Nagpur) need to be checked thoroughly for any discrepancies before finalizing and sending to PPV&FRA.

ICAR- Central Institute for Cotton Research, Regional Station, Coimbatore

The trial initially suffered during to continues rainfall and as a result, sowing was delayed by one month, however, but germination and seedling growth was good. Delayed sowing did not affect the expression of qualitative traits. All traits were recorded, photographs were taken.

Crops	New		FV	Gazette notified entries	Date of monitoring
	1 st year entries	2 nd year entries			
Cotton (Tetraploid)	(12)	47+66	-	39	2.2.2024
Cotton (Diploid)	(3)	-	2		



Twenty-five candidate varieties along with its corresponding F1 from Shimoga were grown side by side, they were comparable and uniform. The trial was conducted as per the test guidelines and data recorded in appropriate stage.

Following varieties were under maintenance: Abadhita(H), Acala glandless(H), ACP71(H), AH107(H), American nectariless, Anjali, ARBH 813(H), Arizona Super okra leaf(H), Badnawar(H), Bhagya(H), Bikeneri Nerma(H), BN Red(H), BN(H), BN1, CA 116(H), CCH 2623 (H), CPD 423, Deviraj(H), DHY 286-1, DS 28 F, EC 344034 (H)-Nankeen Spot-

Brown Lint, Extreme okra (H)-Green Lint, F 1054 (H), F 1378 (H), F 1861 (H), F 320 (H), F 505 (H), F 846 (H), Phule 492, G.cot. 10, G.cot. 100, G.cot. 12 (H), G.cot. 16 (H), G.cot. 18 (H), G.cot. 20 (H), G.cot. 22 (H), GL-CO2-4-4, GLM 5 (H)- Green Lint, GSHV112, Gujarat 67, H 1098 (H), H 1117 (H), H 1157, H 1220 , H 1226 (H), H 1236 (H), H 974 (H), HC 122-66 (H)-Brown Lint, HLS 329, HS 6 (H), J 34 (H), Jalandhar (H), JCC 1 (H) -Brown Lint, JK 35 (H), JK4, JLH 168 (H), K-34007, Kanchana, KC 2(H), KC 3(H), Kekchi Red (H), Kemp (H), Khandwa 2(H), Khandwa 3(H), L 604 (H), LAHH 5(H), Laxmi (H), LH 1134 (H), LH 2076 (H), LH 2108 (H), LH 372 (H), LH 900 (H), LRA 5166 (H), LSS (H), Mahalakshmi (H), MCU 11 (H), MCU 12 (H), MCU 3 (H), MCU 4 (H), MCU 5 (H), MCU 5VT (H), MCU 7 (H), MCU 8 (H), MCU 9 (H), MCU10, MCU13, MDH 89 (H), Mysore Vijaya, N-1 (H)-Green Lint, Narasimha, Narmadha (H), NC 217 (H), NC-61, NCH 11, NH 452 , NH 545 (H), NH 615 (H), P-15 (H) -Green Lint, P-15 DP (H) -Brown Lint, P-15-1 (H) -Brown Lint, PG 6 (H), PH 93 (H), PIL 8, PKV Rajat (H), Pratima (H), PRS 72 (H), PRS 74 (H), PUSA 8-6 (H), RAJHH 769 (H), REBA B -50RHC 003, RHC 004, RMPBSS155 (H), RS 2013 (H), RS 810 (H), RS 875 (H), RST 9 (H), Sahana (H), SH 2379, Sivanandhi (H), Sowbhagya (H), Sujatha, Suman (H), Sumangala, Supriya (H), Surabhi, SVPR 5 (H), T 7, TCB 209, TCH 1716 (H), Vagad kalyan (H), VC 21, Vikram , AK 235 (a), AKA 5 (a), AKA 8 (a), Cat No.8405 (a)-Brown fuzz, Dhumad (a), DS 5 , G.Cot. 15 (a), G.Cot. 19 (a), GMS Line, HD 107 (a), HD 226, Jawahar tapti (a), JK5 (a), JLA 794 (a), K11 (a), KR 111 (a), KR 64 (a), LD 210, LD 327, LD 491 (a), LD 694 (a), PA 183 (a), PA 402 (a), Phule Anmol (a), Phule Dhanwanrty (a), RAJDH 9 (a), RG 18 (a), RG 8 (a), Y1 (a), DCSA17, DDhC11, G. Cot.23, G.Cot.25.

Chaudhary Charan Singh Haryana Agricultural University, Hisar

Crop	New	Date of monitoring
	Entries in 2023	
Cotton	36 Candidate hybrids (including F ₁ s and reference hybrid), two Zonal Checks + 59 Typical variety +16 Reference variety	8/11/2023

1st season 19 candidate hybrids including reference hybrid, 15 SMG and 18 reference varieties were characterized as per DUS test guidelines.

2nd season sowing was done on 7th may, 2023. Crop condition was good, only one was there that seed quantity of candidate hybrids, their F₁s and typical varieties was very less, even it was difficult to sow ten

rows of each entries. There was some variation for petal colour in case of candidate hybrid 2876/2136/H and F1 SMG. Flower colour was cream in the hybrid but yellow in case of F1 SMG. Round and ovate both types of bolls were present in the candidate hybrid 2873/2511/H and its F1 SMG. In the candidate hybrid 2871/2039/H, mixture was observed.



A set of 28 candidate hybrids including F1 SMGs, 59 typical varieties and 16 reference varieties were received from PPV & FRA, New Delhi on 19th April, 2023. All entries along with references and checks (RCH 773 and ACH 177-2) were sown on 7th May, 2023 in randomized block design in two replications as per the standard recommended DUS test guidelines. Hypocotyl colour was recorded after seven days of sowing. The crop started attaining flowering in the month of June-July. All the data (Quantitative and qualitative) were recorded at appropriate growth stage of crop.



Out of 38 entries (28 candidate hybrids and theirs F1s, 8 ref hybrids and two checks), 36 had hypocotyl pigmentation. It was present in 52 typical varieties and all the 16 reference varieties. All the entries except 23CO54V and 23CO58V had palmate (normal) leaves.

Among candidate hybrids, typical varieties and reference varieties, only eleven entries (23CO15V, 23CO27V, L-604, LAXMI, SUMANGALA, F-2228, Pratima, JLH-168, F-1861, ACP-71 and Khandwa) were semi-spreading type and rest were spreading types.

Three candidate hybrids and three ref. hybrids (2876/2136/H, 2871/2041/H, 2876/2126/H, 23CORCH09H, 23COGBII11H and 23COGBII12H) had yellow petal colour whereas among typical varieties, nine varieties (23CO09V, 23CO12V, 23CO17V, 23CO19V, 23CO22V, 23CO27V, 23CO28V, 23CO32V, 23CO35V) had yellow petal colour and 23CO54V had variegated petal colour. Among 16 reference varieties, seven [KANCHNA, JCC-1, L-604, PKV-RAJAT, LAXMI, KHANDWA, BADNAWAR-1 (H)] were having yellow petal colour namely. Rest of the entries had cream petal colour.

Only three candidate hybrids and two ref. hybrids *i.e.* 2873/2511/H, 2879/2235/H, 2871/2039/H, 23CORA0708H, 23COGBII11H had yellow pollen



colour. Out of 59 typical varieties nine varieties namely 23CO20V, 23CO24V, 23CO30V, 23CO39V, 23CO40V, 23CO43V, 23CO48V, 23CO50V and 23CO54V had yellow pollen colour. Among 16 reference varieties, two varieties (LAXMI and JCC-1) had yellow pollen colour and rest were having cream pollen colour.

Out of 38 entries (28 candidate hybrids and theirs F1s, 8 ref hybrids and two checks), eight entries had round bolls whereas thirty entries had ovate bolls. Among 59 typical varieties, forty-nine entries had round bolls and ten entries had ovate type bolls. Out of sixteen reference varieties, thirteen varieties had round bolls, two varieties had ovate bolls whereas F-1861 had elliptic boll shape.

Punjab Agricultural University, Regional Station, Bhatinda

Seeds of 58 typical varieties, 9 (candidate hybrids + F1hybrid SMG) and 8 reference hybrids were received from PPV & FRA, New Delhi on 24th April, 2023. All entries along with references and



check were sown on 21st May, 2023 in randomized block design in two replications as per the standard recommended DUS test guidelines. All observations were recorded at the optimum growth stage of the crop. Hypocotyl colour was recorded during the seedling stage. Except for 5 typical Varieties, all entries had hypocotyl pigmentation. All the entries had palmate (normal) leaves except for the typical variety 23CO54V, which had a digitate (okra) leaf shape, and 23CO58V, which had a semi-digitate (semi-okra) leaf shape. Among candidate hybrids, typical varieties and reference varieties, only one entry (23CO08V) showed a semi-spreading growth habit, while the rest displayed spreading types.



There was variation for petal colour in the case of candidate hybrids 2876/2136/H, 2869/2497/H and their F1 SMGs 2876/2136/F1, 2869/2497/F1. The Flower colour was cream in candidate hybrids but yellow in the F1 SMGs. Additionally, two candidate hybrids and their F1 SMGs (2871/2027/H, 2871/2027/F1, 2871/2041/H, 2871/2041/F1), three ref. hybrids (23CORCH09H, 23COGBII11H and 23COGBII12H) and nine typical varieties (23CO09V, 23CO10V, 23CO11V, 23CO15V, 23CO17V, 23CO19V, 23CO27V, 23CO32V, 23CO35V) had yellow petal colour. The typical variety 23CO54V exhibited variegated petal color, whereas typical varieties 23CO22V and 23CO56V displayed deep yellow petal color. Two candidate hybrids and their F1 SMGs (2871/2027/H, 2871/2027/F1, 2871/2041/H, 2871/2041/F1), three ref. hybrids (23CORCH09H, 23COGBII11H and 23COGBII12H) and nine typical varieties (23CO09V, 23CO10V, 23CO11V, 23CO15V, 23CO17V, 23CO19V, 23CO27V, 23CO32V, 23CO35V) had yellow petal colour. The typical variety 23CO54V displayed variegated petal colour whereas typical varieties (23CO22V, 23CO56V) had deep yellow petal colour. All candidate hybrids along with their F1 SMGs, typical varieties and reference varieties had exerted stigma except for one candidate hybrid (2871/2027/H) and seven typical hybrids having embedded stigma. Both exerted and embedded type stigmas were recorded in typical variety (23CO13V). All candidate hybrids along with their F1 SMGs, typical varieties and reference varieties had exerted stigma except for one candidate hybrid (2871/2027/H) and seven typical hybrids having embedded stigma. Both exerted and embedded type stigmas were recorded in typical variety (23CO13V).

List of varieties under maintenance breeding in 2023-24	Source, Release / commercial release date, if any
LH 2298, F 2228	PAU Ludhiana
H 1157, Sumangala, J 34, Pratima, NH 452, NH 545, GSHV112, MCU 5, JK 4, Badnawar, Abadhita, JCC 1, CU 10, Laxmi, ACP 71, Kanchana,	CICR Regional Station, Coimbatore

Variation for pollen colour was seen in case of candidate hybrid (2873/2486/H) which exhibited yellow pollen colour while F1 SMG showed cream pollen colour. Candidate hybrids (2873/2511/H) and three reference hybrids (23CORCH106H, 23COJEI107H, 23CORA0708H, displayed yellow pollen colour. Out of 58 typical varieties yellow pollen colour were observed in fifteen varieties

namely (23CO04V, 23CO09V, 23CO18V, 23CO30V, 23CO35V, 23CO39V, 23CO40V, 23CO41V, 23CO43V, 23CO44V, 23CO46V, 23CO47V, 23CO49V, 23CO54V and 23CO59V) and three varieties namely (23CO49V, 23CO54V and 23CO59V) had deep yellow pollen colour.

University of Agricultural Sciences, Dharwad

Details of DUS testing of candidate varieties in 2023-24:

Crops	New
	1 st year entries
Jute	10

A total of 64 cotton seed samples were received at ARS, Dharwad farm, UAS, Dharwad during second week of June 2023 from PPV&FRA, New Delhi to characterize cotton samples as per DUS guidelines. The seed samples were weighed and recorded as 200 g each packet. Sowing of 64 DUS testing entries along with regional and local checks was done on 20 July 2023 as monsoon was delayed with showers received only from third week of July 2023. First year DUS testing included 15 cotton entries (typical) and another set of 39 Gazette notified entries recommended for South zone. Second year testing trial included 10 cotton entries (typical). All the entries were sown in RBD design with three replications and with other prescribed guidelines for cotton crop. Despite limited showers and with support of life saving irrigations, germination was fair in all the entries and crop came up well. Recommended fertilizer dosage @ 40 N:20 P:20 K kg/acre was applied and pest and diseases were managed with application of pesticides Thiomethoxam, Indoxacarb, Profenofos, Cypermethrin. No fungicides were used as no disease was serious.



All the prescribed traits were recorded for both tetraploid and diploid cotton species on field as well as in the laboratory. There was no significant difference among the replications for any of the

traits. Crop stand was uniform in all the entries. In some of colored cotton entries white lint plants were observed and were found as mixtures rather than off types. However, some of observations were unexpected while conducting trials as mentioned below. The Entry CNH-1128 as listed in the Gazette Notified varietal trial is *G. hirsutum* but it showed expression of *G. arboreum* in the field. With successful crop management, DUS testing trials were conducted successfully and harvesting was done on 19-02-2024. Fibre quality assessment was done at CIRCOT unit at UAS, Dharwad.



3.1.3. DUS TESTING CENTRES FOR JUTE

ICAR-Central Research Institute for Jute and Allied Fibers, Barrackpore & Csrsjaf, Bud Bud, Burdwan, WB

New	
1st year	2nd year
15 + 39	10
39 gazette notified varieties	

Ten varieties of two species of *Corchorus* i.e. *olitorius* (23JU05T, 23JU06T, 23JU07T, 23JU08T, 23JU09T and 23JU10T) and *capsularis* (23JU01T, 23JU02T, 23JU03T and 23JU04T) were tested in DUS trial during 2023-24. Sowing was done on 15.03.2023 at ICAR-CRIJAF, Barrackpore (Nodal centre) and on 23.03.2023 at ICAR-CSRSJAF, Bud Bud, West Bengal (Co-nodal centre). During entire crop growth period 17 DUS characteristics were recorded following DUS test guideline.



In both *capsularis* and *olitorius* entries plants were uniform with regard to expression of traits. In case of *capsularis* varieties all four (23JU01T, 23JU02T, 23JU03T and 23JU04T) were uniform in expressions of DUS characteristics. Leaf lamina colour and leaf vein colour were green (RHS:137 A) and petiole colour was red in all the varieties. Most of the varieties can be distinguished on the basis of stem colour (characteristic-6). Stem colour was coppery red (178



A) in 23JU01T and 23JU04T, red (44 A) in 23JU03T, purple in (187 D) in 23JU02T. These two varieties (23JU01T and 23JU04T) differ with respect to seed size (extra large 3.65g in 23JU01T and large 3.41g in 23JU04T) and fibre quality (23JU01T: very fine and fairly average fibre strength; 23JU04T: coarse and fairly good fibre strength). Plant height was medium (303-339cm) and leaf shape (characteristic-7) was ovate-lanceolate in all *capsularis* varieties. Time of flowering (characteristic-12) was late (>100days) and seed colour (characteristic-17) was chocolate brown in all these *capsularis* varieties. Pigmentation of calyx was green (RHS:137 A) in 23JU03T and red in 23JU01T, 23JU02T and 23JU04T. Pod pigmentation (characteristic-14) was green in 23JU03T, and red in 23JU01T, 23JU02T and 23JU04T.

In case of *olitorius* varieties, stem colour (characteristic-6) was green (RHS:144 B) and leaf shape (characteristic-7) was ovate-lanceolate in all varieties. Plant height (characteristic-8) was medium (301-400cm) in 23JU07T, 23JU09T and 23JU10T and tall (>400cm) in 23JU05T, 23JU06T and 23JU08T. Fibre fineness (characteristic-9) was fine (2.8-3.2 tex) in 23JU06T and 23JU08T and very fine (<2.8 tex) in 23JU05T, 23JU07T, 23JU09T and 23JU10T whereas fibre strength (characteristic-10) was fairly good (23.5-26.4g/tex) in 23JU06T, average & weak (20.4g/tex & below) in 23JU07T, fairly average (20.5-23.4g/tex) in 23JU05T, 23JU08T, 23JU09T and 23JU10T at both the centres. Most of these varieties were distinct from each other with respect to seed color (characteristic-17) (23JU05T: black with red ridge and apex;

23JU06T: steel grey (N186 A); 23JU07T: brownish grey (RHS: 200 A); 23JU08T: chocolate brown (RHS:

166 A); 23JU09T: black (203 A); 23JU10T: steel grey (N 200 B)

3.1.4. DUS TESTING CENTRES FOR MAIZE

ICAR-Indian Institute of Maize Research (ICAR-IIMR), New Delhi

Crop [Maize]	New		Total	Date of Monitoring
	1 st -year	2 nd -year		
Hybrid	29	26[18 (candidate) + 8 (F1 SMG)]	55	19.09.2023
Inbred	03	-	03	19.09.2023
Notified hybrids	33	-	33	
Total	65	26	91	

The sowing of the DUS trial was conducted on 23rd July 2023. The DUS testing was carried out successfully on a total of 91 entries which include 55 hybrids, and 3 inbred lines and 33 notified hybrids. The 55 hybrids include twenty nine in the 1st season of testing and 26 in the 2nd season. The hybrids (26 varieties) for the 2nd year trial include parental crosses of 8 hybrids, by crossing parents of the hybrids to test the stability of the hybrids. Thus, 8 candidate hybrids of 2nd season testing were tested along with their parental crosses (F1 hybrid SMG) whereas the remaining 10 candidate hybrids were tested without their parental crosses (F1 SMG) in the 2nd season. The candidate hybrids of 2nd season testing were sown side-by-side along with their parental crosses



for ease in comparison. The DUS testing trial also comprises 17 references (un-coded), comprising 9 hybrids and 7 inbred lines. The overall plant stand, growth and expression of the DUS testing trial were satisfactory in all three replications. However, the germination percentage of a few candidate entries viz., 2874/2332/H 2879/2844/H (53%), 22 KMH 5 (68%), 22 KMH 11 (51%), 22 KMH 12 (65%), 22 KMH

15 (65%), 23MA349917 H (65%), 23MAHM1018



H (46%), 23MAPM311 H (69%), 23MASH319 H (64%), 23MAVI912 H (68%) and 23MAPHW02 (57%) were <80% and the same was reported to PPV&FRA after sowing. Data on various DUS descriptors have been recorded for all the entries as per the DUS guidelines.

Except for a few entries, the entries in 2nd season of testing showed uniformity, the details of discrepancies/ mismatches observed for one or two traits in a few entries were discussed during the visit of Dr T. Mohapatra, Chairperson, Protection of Plant Varieties and Farmers' Rights Authority, Government of India, New Delhi. In the second year of evaluation candidate entry 22KMH 10 (C) displayed a prevalence of 20% short-statured plants across the plot, resembling the female parent while F1 Hybrid Shivamogga, 22KMH 10 (SMG) exhibited approximately 15% short-heighted plants. Similarly, 23MATM4421 H and PMH 5 both displayed 20% short-heighted plants. Furthermore, 22KMH 12, 22KMH 6, 23MAAM3615 H, 23MABI4403 H, 23MADH1720 H, 23MAHM416 H, 23MAP30109 H, 23MAPR110 H, 23MASY0302 H, 23MAVI912 H, and HM 8 exhibited 15% short-heighted plants, whereas 22KMH 15, 23MAHM1018 H, 23MASH414 H, 2890/2058/H, 2890/2090/H, and HQPM 1 displayed approximately 10% short-heighted plants. Notably, 23MADM0822 H recorded the highest proportion of short-statured plants, comprising approximately 25%. Except for a few entries, the entries in 2nd season of testing showed stability. Candidate hybrid and the seeds generated from their parental crosses by PPVFRA in Shivamogga, Karnataka, exhibited identical characteristics. Except in a few entries for one or two traits, the observations recorded in the parental crosses of candidate hybrids (F1SMG) on DUS descriptors matched with observations recorded on various DUS descriptors in the respective candidate hybrids. The Candidate entry 22KMH 10 (C) displayed a prevalence of 20% short-statured plants across the plot, resembling the female parent while F1 Hybrid Shivamogga, 22KMH 10 (SMG) exhibited

approximately 15% short-heighted plants.

Except few entries for one or two DUS descriptors (leaf angle, leaf attitude, tassel angle, tassel attitude, anthocyanin colouration of glume, anthocyanin colouration of glume excluding base, silk pigmentation, anther colour, etc.), most of the candidate entries (hybrids and inbred lines) in second-season matched with observations recorded on various DUS descriptors in the first-year.

Similarly, except few entries for one or two DUS descriptors (22KMH 10 with respect to plant height), the observations recorded on candidate entries in the second season matched with their parental crosses (F1SMG) produced by PPV&FRA at Shivamogga, Karnataka.

SRTC, Prof. Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad

DUS testing trials in maize during 2023-24 were conducted for 52 candidate entries (comprising 29 First year hybrids and 3 typical (First year), 10

S. No.	New		New	Total
	Hybrids	Inbred Lines	Parental cross	
1 st Year	29	3	-	32
2 nd Year	10	3	10	23
Gazette notified entries	33	-	-	33
References	53	75	-	128
Total	125	81	10	216

second year hybrids, 10 parental crosses of 2nd Year) along with thirty three (33) gazette notified entries and 128 references.

General growing conditions, sowing details, etc.: Sowing of all the hybrids was taken up on 30.7.2023 after receipt of sufficient rainfall. The seedling stage of the crop was exposed to continuous heavy rains during August 2023 due to which initial plant stand was affected in some entries. Sufficient rainfall was received during the entire crop season and irrigations were given whenever necessary. Timely plant protection and weed control measures were taken up to raise a healthy crop. Expression of all DUS traits was good in all the entries and data was recorded timely as per the DUS guidelines. One typical entry 22MAVQ-202 (2nd year testing) failed to germinate completely and the same was reported.

Most of the entries exhibited uniform and clear expression of traits. Within the entry variation for plant height was observed in KMH-4 (2nd year candidate hybrid). The characters of KMH-4 (2nd year candidate hybrid) were varied from its SMG hybrid for plant height.



DUS testing trials of hybrids and inbred lines were conducted as per the DUS test guidelines. DUS evaluation of 3 hybrids references and 6 inbred references was also taken up along with 52 candidate entries.

3.1.5. DUS TESTING CENTRES FOR SOYBEAN

ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora

The trial was carried out during Kharif 2023 for DUS testing. All the data were recorded at proper growth stages of crop by following the national DUS testing guidelines of the Authority. All the candidate varieties varied for both qualitative and quantitative characters. The data recorded for 1st year entries (7), 2nd year entries (8) along with zonal checks (2) were filled in proper format and sent to PPV&FRA.

Crops	New		Date of monitoring
	1 st year entries	2 nd year entries	
Soybean	Trial code 2889/2080, 2889/2097, 2889/2098, 2889/2099, 23S0JS6001, 23SOPS2902 and 23SOPS4703	Trial code 22SB1, 22SB2, 22SB3, 22SB4, 22SB5, 22SB6, 22SB7 and 22SB8	28-09-2023

A set of 15 (7 entries for 1st year testing and 8 entries for 2nd year testing) soybean entries received from PPV & FRA, New Delhi on 24th May, 2023. Soybean



entries for 1st year testing were 2889/2080, 2889/2097, 2889/2098, 2889/2099, 23SOJS6001, 23SOPS2902, 23SOPS4703 and entries for 2nd year testing were 22SB1, 22SB2, 22SB3, 22SB4, 22SB5, 22SB6, 22SB7 and 22SB8. The sowing was carried out on 22nd June, 2023 in randomized block design in three replications, taking VL soya 63 and VL soya 89 as zonal checks. All entries germinated well, except two 2nd year entries, 22SB4 and 22SB6. The crop started flowering in the month of August-September. Data (quantitative and qualitative) were recorded in the appropriate growth stages of crop. All the data were recorded in the proper format provided by the authority and send to PPV & FRA, New Delhi on 6th March, 2024.

Crop	no of entries in 1 st season	2 nd season	general growing conditions	sowing/ transplanting details	DUS data recording
Soybean	7	8	Rainfed	Replication-3, Fertilizer-08:32:08 NPK/acre, Spacing-45 cm×10 cm, Plot size-6 m × 2.70 m (6 rows), Design- RBD, DoS-22.06.2023	Recorded DUS traits as per the national DUS testing guidelines

Soybean DUS trial received from the authority comprised a total of 15 candidate varieties (comprising 7 first year entries namely 2889/2080, 2889/2097, 2889/2098, 2889/2099, 23SOJS6001, 23SOPS2902, 23SOPS4703 and 8 second year entries namely 22SB1, 22SB2, 22SB3, 22SB4, 22SB5, 22SB6, 22SB7 and 22SB8) were grown with two zonal checks, VL Soya 63 and VL Soya 89 at ICAR- VPKAS, Almora centre. For trait anthocyanin pigmentation on hypocotyl, only eight entries (2889/2080, 2889/2098, 23SOJS6001, 22SB1, 22SB2, 22SB3, 22SB5 and 22SB6) were found to have purple pigmentation. Candidate varieties 2889/2099, 23SOJS6001, 23SOPS2902, 23SOPS4703, 22SB6

and 22SB8 have determinate growth type, while remaining were semi determinate.

Crop	Unique trait	Uniformity/ stability
Soybean	Trial code 2889/2080 was found to have SMV resistance.	Except Trial code 22SB1, 22SB2 & 22SB8 (off types observed), all candidate varieties were found uniform
	Trial code 23SOJS6001 was found to have compact plant type and good pod bearing.	

Lanceolate leaf types were observed in 2889/2080, 23SOJS6001, 23SOPS4703 and 22SB6, however pointed ovate leaf types were found in rest of the entries. Most of the entries have dark green leaf colour, while only 4 entries (2889/2097, 2889/2098, 23SOPS2902 and 22SB7) possess green coloured leaves. Trial code 2889/2097, 2889/2099, 23SOPS2902, 23SOPS4703, 22SB7 and 22SB8 were found to have white flower whereas trial code 2889/2080, 2889/2098, 23SOJS6001, 22SB1, 22SB2, 22SB3, 22SB5 and 22SB6 had purple flowers.

Taller plants were observed in entries namely 22SB1, 22SB6 and 22SB7, short plant height was observed in entries 23SOJS6001 and 23SOPS2902 whereas remaining entries exhibited medium plant height. Pod pubescence was present in 2889/2097, 2889/2098, 23SOPS2902, 23SOPS4703, 22SB7 and 22SB8, whereas found absent in remaining entries. In entries with pod pubescence present, tawny (brown) pubescence was observed in all the entries. Only two entries (2889/2080 and 23SOJS6001) were found to possess black coloured pods whereas the remaining entries had brown-coloured pods. All the entries were found to be non-shattering types, late in flowering and maturity duration. Maximum 100 seed weight (16.36 g) was found in trial code 2889/2080 whereas minimum (9.04 g) was recorded in 22SB1. On the basis of seed size 6 candidate entries were found in large (2889/2080, 23SOJS6001, 23SOPS2902, 22SB5, 22SB6 and 22SB8) and medium (2889/2097, 2889/2099, 23SOPS4703, 22SB2, 22SB3 and 22SB7) whereas only two (2889/2098 and 22SB1) were found to have small seed size. All the entries found to have yellow coloured seed with spherical shape. Entries 22SB2

and 22SB8 have dull lustre in seeds whereas remaining entries have shiny seeds. Entries namely 2889/2080 and 23SOJS6001 have grey coloured and four entries namely 2889/2097, 23SOPS4703, 22SB1 and 22SB7 have brown coloured hilum whereas remaining entries had black hilum. The cotyledon colour of seeds was yellow in all the entries. Among 15 entries, eleven candidate entries were found uniform with respect to all the DUS traits but off types were observed in entry 22SB2, 22SB1 and 22SB8. These entries were found to be non-uniform with respect to flower colour, pod pubescence colour and seed hilum colour.



Training cum Awareness programme on PPV & FRA conducted: The Regional Training cum Awareness Programme on “Protection of Plant Varieties and Farmers’ Right Act 2001” was organized jointly by ICAR-VPKAS, Almora and Protection of Plant Varieties and Farmers’ Rights Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India on 28-09-2023 at ICAR-VPKAS, Experimental Farm, Hawalbagh Almora, Uttarakhand to create awareness among the officials of local KVKs, NGOs, farmers, staff, students and other stakeholders for protecting plant varieties. Approx 120 farmers, PGSC Awardees, representatives of FPOs, students, KVK staff, scientists from ICAR-VPKAS participated in the programme. Dr. Lakshmi Kant, Director ICAR-VPKAS, Almora explained PPVFRA’s role in the protection of plant breeders’ rights, the promotion of farmers’ rights, agricultural innovation, economic benefits, knowledge dissemination and international cooperation and encouraged the farmers to secure ownership rights for their varieties through their registration with PPV& FR Authority, New Delhi.



Chief Guest Dr. Pramod Kumar Pandey, Hon'ble Director, ICAR-DCFR, Bhimtal, appreciated the efforts of Protection of Plant Varieties and Farmers’ Rights Authority for their contribution in empowering

plant breeders and farmers by providing intellectual property protection on the plant varieties.

Shri Dipal Roy Choudhury, Joint Registrar, PPVFRA presented an overview of the PPVFR Act, 2001 and talked about the various provisions designed to safeguard the rights of both plant breeders and farmers, functioning of authority, registration criteria, PGSC awards etc. He highlighted the various successful examples of registered FVs with PPVFRA that are befitting farmers of the country. He also interacted with the audience and addressed all queries asked by farmers, scientist and other stakeholders.



Dr. R.K. Khulbe, Pr. Scientist, ICAR-VPKAS, Almora presented an “Overview of Geographical Indications and protection of traditional knowledge” and also discussed several GI’s from the state, procedures, benefits to local communities. Progressive farmer Shri Gopal Dutt Upreti, PGSC Awardee (individual category in reward 2021-22) shared his experiences urged farmers from Uttarakhand to register plant varieties to secure IPR rights. One representative from “Gramin Khadya Samprabhoota Samooh” PGSC awardee (community category) in 2014-15 shared their experiences in agro-biodiversity conservation in millets, cereals, vegetables etc. Several farmers interacted with the panelists and scientists from ICAR-VPKAS.



3.1.6. DUST TESTING CENTRES FOR BREAD WHEAT, DICOCCUM, DURUM AND OTHER TRITICUM SP.

ICAR-Indian Institute of Wheat and Barley Research, Karnal, Haryana

During 2023-24, eleven entries (2nd year of testing)

& 52 entries (1st year of testing) was compiled and submitted to the authority on 29/09/2023 through email for decision making. During crop season 2023-24, each entry of bread wheat, durum wheat and dicoccum wheat was coded by the authority and seed along with code was supplied to DUS testing centre for the conduct of DUS test.



Six DUS trials were conducted in wheat, in which 93 coded entries (61 entries in bread wheat, 6 in durum and 26 in dicoccum) along with national check (DBW 187, HD 2967 in bread wheat, HI 8737 and MACS 3949 in durum wheat and DDK1029 in dicoccum wheat) were tested as per the DUS test guidelines of wheat published by PPV&FRA.

Crops	2 nd year entries	1 st year entries
Bread - wheat	22 BW 1, 22 BW 2, 22 BW 3, 22 BW 4, 22 BW 5, 22 BW 6, 22 BW 7, 22 BW 8, 22 BW 9, 22 BW 10, 22 BW 11, 22 BW 12, 22 BW 13, 22 BW 14, 22 BW 15, 22 BW 16, 22 BW 17, 22 BW 18, 22 BW 19, 22 BW 20, 22 BW 21, 22 BW 22, 22 BW 23, 22 BW 24, 22 BW 25, 22 BW 26, 22 BW 27, 22 BW 28, 22 BW 29,	2890/2108, 2890/2111, 2890/2110, 2890/2109, 2889/2205, 2889/2177, 23 BRHIE01, 23 BRDB0302, 23 BRDB0703, 23 BRHII04, 23 BRHII05, 23 BRHIA06, 23 BRHD8507, 23 BRWB B 210, 23 BRRW4611,
	22 BW 30, 22 BRHI 4407, 22 BRHI 0006, 22 BRHI 3405, 22 BRHI 3304, 22 BRDB 1003, 22 BRWH 2402, 22 BRDP 5001, 2889/2139, DBW 187 (C), HD 2967 (C)	23 BRGW9612, 23 BRHS9013, 23 BRDB2714, 23 BRHIN15, 23 BRHIA16, 2890/2134, 2890/2135, 2877/3940,

Dicoccum wheat	22 DiW 1, 22 DiW 2, 22 DiW 3, 22 DiW 4, 22 DiW 5, 22 DiW 6, 22 DiW 7, 22 DiW 8, 22 DiW 9, 22 DiW 10, 22 DiW 11, DDK 1029 (C)	2890/2033, 2890/2034, 2890/2035, 2890/2036, 2890/2037, 2890/2038, 2890/2039, 2890/2040, 2890/2041, 2890/2042, 2890/2043, 2890/2044, 23 DIDD2501, 23 DIDD2902, 23 DIHW9803,
Durum	22 DuW 1, 22 DuW 2, 22 DuW 3, HI 8737(C)	2890/2112, 23 DUDD4701, 23 DUWH4302, MACS 3949 (C)

Details of varieties in DUS trial at IIWBR, Karnal

Maintenance of reference and example varieties of wheat

In wheat, 185 example varieties beside 66 reference collection of released varieties of Durum & aestivum are being maintained at IIWBR, Karnal during 2023-24.

Monitoring of DUS wheat trial



The monitoring of DUS Wheat and Barley trials was carried out under the Chairmanship of Dr. Sushila Kundu, Ex-Principal Scientist, ICAR-IIWBR, Karnal along with Dr. Arun Gupta, Nodal officer (DUS Wheat), and Dr. Charan Singh, Nodal officer (DUS Barley) on dated 22.03.2024 and Dr. Trilochan Mohapatra, Chairperson PPV&FRA with authority staff visited the DUS field at ICAR-IIWBR, Karnal on dated March 27, 2024.

Registration of wheat varieties

Three wheat varieties namely DBW296, DBW327

and DBW332 which were registered under extant category by the PPV&FRA, New Delhi vide registration number REG/2021/219, REG/2021/220 and REG/2021/221 respectively. Five new applications (DBW316, DBW370, DBW371, DBW372 and DDW55) were submitted to PPV&FRA for registration.

ICAR-Institute of Agricultural Research Institute, Regional Station, Indore, Madhy Pradesh

In crop season 2023-24, 23 Typical Varieties including reference Varieties for 1st year and 38 Typical Varieties including reference Varieties for 2nd year DUS testing are being tested under New/VCK Category in DUS Testing.

Monitoring of DUS wheat trial

Monitoring was carried out by a committee duly constituted by PPV&FRA, New Delhi under the Chairmanship of Dr. JB Singh, Head at ICAR-IARI,



RS Indore and Dr. D.K. Verma, PI at ICAR-IARI, RS Indore. The critical comments here as mentioned below;

- Photographs of each plot should be taken and some varieties have been found to be rust susceptible.
- Reference Variety Maintenance Trial should be grouped as per zone
- In one variety, there are mixtures of barley and aestivum. Taking its photo with label and care must be taken at forwarding centres to identify species and mixture.

Varieties under Maintenance/Characterization: 150 Reference collection of wheat varieties are being maintained at Referral Library of ICAR-IARI, Regional Station, Indore

Crops	Name or No of varieties under maintenance breeding in 2022-23
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Wheat	Released varieties aestivum - 100 Released varieties durum - 45 Released varieties dicoccum - 05
Total	150

University of Agricultural Sciences, Dharwad, Karnataka

During *rabi* 2023-24, totally four DUS testing trials including two durum and two dicoccum wheat were conducted at DUS durum wheat centre, UAS, Dharwad. Details of experiments are as given below table.

Year	Typical	Entries
1st Year Trial	Durum - 3	2 8 9 0 / 2 1 1 2 , DUD4701 and 23DWH4
	Dicoccum - 15	2890/2033 to 2890/2044, 2 3 D I D D 2 5 0 1 , 23DIDD2902 and 23DIHW9803
2nd Year trial	Durum - 3	22 Du W 1 to 22 Du W 3
	Dicoccum - 11	22 Di W 1 to 22 Di W 11

Observations were recorded for 45 characters representing growth habit characters, ear head characters, grain characters, etc. Perusal of observations indicated quantifiable variation for various DUS characters among the candidate and reference varieties.

In the 1st year durum testing trial, DUD4701, 23DWH4, HI 8737 (Zonal check) and MACS 3949 (Regional checks) were used as a reference varieties.

The centre has maintained 67 reference varieties of Wheat under maintenance breeding.

3.1.7 DUS TESTING CENTRES FOR BARLEY:

ICAR-Indian Institute of Wheat and Barley Research, Karnal, Haryana

During the year 2023-24, four farmer's varieties with 20 reference varieties were grown in DUS trial as per DUS guidelines. All these four varieties i.e., 2880/3840, 2883/2394, 23 BABC7301 and

23BARANA02 were grown in 1st year of testing. In addition, a set of 49 barley reference and 106 barley released varieties were also grown for validation of 32 barley DUS characteristics. During the period, characteristics mentioned in DUS guidelines were recorded for all the candidate's and reference varieties for the trials. The data of DUS characteristics was recorded, compilation is under process and will be submitted to the PPV&FR Authority.



Rajasthan Agricultural Research Institute, Durgapur (Sri Karan Narendra Agriculture University, Jobner)

In crop season 2023-24, four candidate farmer's varieties were tested at DUS testing centre. The centre has maintained 105 reference varieties of barley. The crop growth and expression of morphological characters were good in all the entries. Observation on DUS characteristics on all the characters were recorded as the prescribed guidelines. Farmer's varieties were showing uniformity. Apart from this, stability in the DUS traits was also observed and all the traits in varieties were stable.

3.1.8 DUS TESTING CENTRES FOR SORGHUM:

ICAR- Indian Institute of Millets Research, Rajendranagar, Hyderabad, Telangana

During the reporting period 2023-24, total 139 varieties including parental (A/B/R) lines and OPVs, one A/B pair and five A × R planted for maintenance breeding and characterization at DUS testing centre.

List of varieties under DUS test

Crops-	New		FV
	1st year entries	2nd year entries	
Sorghum			
Kharif 2023	-	3	-
Rabi 2023-24	3	-	-

Kharif 2023 and rabi 2023-24:

DUS testing was conducted successfully during

kharif 2023 season. Three candidate varieties were tested under the 2nd year trial along with two checks (CSH 24MF and CSH 40F). Data were enumerated as per revised DUS test guidelines and submitted to PPV&FRA in time. During kharif 2023, all the kharif adapted example varieties were also planted for characterization and data were enumerated for updating the DUS database. During rabi 2023-24, three candidate varieties and two checks (CSH 13 and CSH 15) were planted under 1st year DUS testing.



Maintenance breeding/characterization was undertaken for 139 reference varieties including hybrids, parental lines and OPVs during rabi 2023-24 season. The reference varieties have been harvested and post-harvest observations are being recorded, and the DUS database will be updated for submission to PPV&FRA.

Mahatma Phule Krishi Vidyapeeth, Rahuri, Ahmednagar, Maharashtra

During reporting period 2023-24, this DUS testing centre has maintained 120 Sorghum reference varieties out of which 56 Sorghum varieties characterized during Kharif 2023-24 and total 120 sorghum varieties were characterized in rabi 2023-24. Total 06 candidate varieties of sorghum were tested under DUS test during 2023-24, 03 candidate varieties were tested for 1st year and 03 candidate varieties for 2nd year in New category. The DUS data has been taken and observed as per DUS test guidelines PPV&FRA.

3.1.9 DUS TESTING CENTRES FOR PEARL MILLET

Agriculture Research Station, Mandore, Jodhpur

During 2023-24, total 54 reference varieties (20 hybrids and 34 parental lines) of pearl millet has been maintained at DUS testing centre for testing of candidate varieties as per DUS testing guidelines, PPV&FRA.

Total 14 candidate varieties of pearl millet were received as testing entries, it was characterized in

replicated trails for DUS traits along with reference varietal sets (coded) as per the DUS guidelines prescribed by PPVFRA. The compiled trial Data has been submitted to PPVFRA.



Bajra Research Scheme, Collage of Agriculture, Dhule, Maharashtra

During reporting period 2023-24, the DUS testing of 06 candidate and 02 farmer's varieties for first year and 06 candidate varieties for second year as per guidelines conducted successfully during kharif 2023 and data recorded. The stage wise photographs were also taken for candidate varieties. The recorded datasheet and stage wise photographs of Kharif 2023 trial is submitted to the Nodal center: P.C., Unit, ARS, Mandor, Jodhapur. Successfully conducted DUS Character Study Test Trial for Reference Varieties in Kharif 2023.

3.1.10 DUS TESTING CENTRES FOR FINGER MILLET, FOXTAIL MILLET, BARNYARD MILLET, PROSO MILLET, LITTLE MILLET, KODO MILLET

AICRIP on Small Millets, University of Agricultural Sciences, Gandhi Krishi Vigyan Kendra, Bangalore

During 2023-24, DUS center has been maintained following reference varieties in millet crops:

Crops	No. of varieties under maintenance breeding
Finger millet	77
Foxtail millet	28
Kodo millet	26
Little millet	17
Proso millet	12
Barnyard millet	12

To conduct DUS testing of small millet varieties as per DUS Test guidelines, five test entries of finger millet (2889/2138, 23FIKM3001, 23FIGP2802, 23FIGP6603, and 23FIGP6704) were received and evaluated during Kharif 2023-24 in replicated trials.

These entries were characterized for DUS traits alongside reference varietal sets and second year DUS characterization has been done, following the



DUS guidelines provided by PPV & FRA for each crop. Additionally, reference sets for Foxtail millet, Kodo millet, Proso millet, Barnyard millet, and Little millet were maintained and characterized. The range of values for each character was recorded in coded form according to the DUS guidelines.

BARNYARD, PROSO, KODO AND LITTLE MILLET

Centre of Excellence in Small Millets, Tamil Nadu Agricultural University, Athiyandal, Tamil Nadu

During the period 2023-24, DUS testing centre at TNAU, Athiyandal following reference varieties maintained crop-wise. DUS characterization recorded and data base completed for reference varieties of foxtail millet, kodo millet, little millet, barnyard millet and proso millet.

S. No.	Crops	No. of reference varieties
1.	Finger millet	77
2.	Foxtail millet	28
3.	Kodo millet	26
4.	Little millet	17
5.	Barnyard millet	12
6.	Proso millet	12

DUS testing of Finger Millet and Foxtail Millet

- ✓ Five (2889/2138, 23FIGP2802, 23K IFM3001, 23FIGP6603 and 23FI GP6704) number of first year finger millet new entries were raised during Kharif, 2023 and all the entries were germinated.
- ✓ 2889/2138 - medium days to flowering (70 days), light green colour glume, compact ear shape and light brown colour seeds.
- ✓ 23F1GP2802 - medium days to flowering (68 days), dark green colour glume, Semi compact ear shape and dark brown colour seeds.

- ✓ 23KIFM3001 - medium days to flowering (72 days), light green colour glume, compact ear shape, finger branching present, position of branching in all the fingers, multiple whorl is present and light brown colour seeds.
- ✓ 23F1GP6603 - medium days to flowering (67days), dark green colour glume, semi compact ear shape finger branching present, position of branching in all the fingers, multiple whorl is present and light brown colour seeds.
- ✓ 23FIGP6704 - medium days to flowering (68days), dark green colour glume, fist type ear shape finger. branching present, position of branching in thumb fingers and copper brown colour seeds
- ✓ Also second year entries of finger millet and foxtail millet were raised and evaluated as per PPV&FRA DUS guide line.

3.1.11. DUS TESTING CENTRES FOR CHICKPEA

ICAR- Indian Institute of Pulses Research, Kanpur, Uttar Pradesh

During the year 2023-24, DUS testing centre has maintained 147 reference varieties of chickpea.



04 Chickpea Candidate varieties were tested for 1st year and 06 candidate varieties for 2nd year under New category. one farmer's variety also under DUS testing during this year. Observations have been recorded on candidate varieties on the basis of 20 DUS traits as given in National guidelines of DUS testing for chickpea.

Mahatma Phule Krishi Vidyapeeth, Rahuri, Ahmednagar, Maharashtra



During 2023-24, 11 candidate varieties of Chickpea under New category out of which 05 candidate varieties for 1st year & 06 candidate varieties for 2nd year and 01 farmers varieties were tested under DUS testing. Total 20 reference varieties of chickpea has maintained by this Centre under maintenance breeding programme.

Salient Achievements:

- Characterization of 31 chickpea varieties as per DUS guidelines (20 Reference Varieties, 01 Farmer and 10 Typical Varieties).
- Published one popular article on Farmer Variety Registration in Shetkari Masik of Department of Agriculture Government of Maharashtra on November, December Masik 2023.
- Organized Farmer Awareness Training Programme at Madgyal village, Tal-Jat., District-Sangali, on PPVFRA Act, 2001 and Farmer Variety Registration on 12th Dec, 2023.

3.1.12. DUS TESTING CENTRES FOR PIGEONPEA

ICAR- Indian Institute of Pulses Research, Kanpur, Uttar Pradesh

During Kharif 2023-24, 14 farmers' varieties (six varieties for first year DUS Testing & eight varieties for second year DUS Testing) were sown for DUS characterization along with the reference varieties



at ICAR-IIPR, Kanpur. Every plants was healthy and in good condition. Data have been recorded and observed for 21 DUS traits as per the National Guidelines of DUS testing for pigeonpea.

Reference Varieties Under Maintenance (2023-24)

1.	Early Duration Reference varieties: 25	ICP 84031, AL 15, GT 100, ICPL 151, ICPL 87, PUSA ARHAR-16, PUSA 855, PUSA 2001, PUSA84, PUSA 33, PUSA 991, PUSA 992, PARAS, PA 291, AL 2091, AL 1992, AL 201, MANAK, GT 101, CORG 9701, TAT 10, VLA 1, PAU 881, UPAS 120, IPA 15-06
2.	Medium Duration Reference varieties: 40	BDN 708 LRG 38, ICPL 85063, AK 101, TS 3, WRG 27, BRG 2, LRG 30, GS 1, WRG 53, GC 11-39, JA 4, AKP 1, JKM 7, CO 5, JKM 189, GT 1, TV 1, VIPULA, VAMBAN-2, PT 221, AK 022, WRP 1, T 15-15, TJT 501, C11, ICPL 332, TTV 7, CO 6, VBN 3, PRG 176, AASHA, MARUTHI, BSMR 853, BSMR 736, BDN 2, GNP 2, AGT-2
3.	Long Duration Reference varieties: 29	IPA 15-2, IPA-206, IPA-203, NDA-1, Bahar, NDA-2, MAL-13, Pusa -9, Amar, MA-6, Azad, T-7, DA 11, MA 3, IPA 8F, IPA 9F, IPA 15F, IPA 16F, KPL 43, KPL-44, IPA 2012-1, Kudrat-3, Errama Chchakamti, Dholi Dwarf, Rajendra Arhar-1, Bahar (Purple pod), NDA-1, Rajendra Arhar-2, IPA15-2 (Green Pod)

PIGEON PEA AND SAFFLOWER

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra

During the period 2023-24, this centre has maintained 101 reference varieties of pigeonpea and 23 reference varieties of Safflower under maintenance breeding. Six farmer's varieties of pigeonpea received for first year DUS testing, out of which five varieties viz. 23PI PKRA01, 23PI MAHI02, 23PI VILA03, 2889/2142 and 2890/2050 were found genetically pure with no admixture reported. One variety viz. 2881/4110 shown admixture for colour of base of the petal (Standard) (1% admixture).

Six varieties of safflower received for 1st year DUS Testing, 5 varieties viz. 22SF2, 22SF3, 22SF4, 22SF5 and 22SF6 were found genetically pure with no admixture reported. One variety viz. 22SF1 shown admixture for colour of petal (1% admixture). The Technical Advisory committee constituted for the revision of "DUS Test Guidelines of Pigeonpea (*Cajanus cajan* L.)" and meeting will be conducted soon. During the reporting period farmers varieties of Sorghum, Pigeonpea and Soybean are submitted

for registration to PPV & FR Authority for further necessary action.

3.1.13 DUS TESTING CENTRES FOR LENTIL, MUNG BEAN, URD BEAN, FIELD PEA (PULSE TYPE), KIDNEY BEAN

ICAR- Indian Institute of Pulses Research, Kanpur, Uttar Pradesh

In *Rabi* season (2023-24) 61 varieties of pea, 39 varieties of Lentil and 14 varieties of Rajmash were maintained. For maintenance of these varieties 10 single plants were selected from each variety and harvested individually.



In *Rabi* season (2023-24) 4 field pea farmers varieties of pea tested in first year with reference varieties & data recorded as per DUS guideline and 1 farmers variety of rajmash tested in second year along with reference varieties & data recorded as per DUS guidelines. 3 farmers variety of lentil tested in second year along with reference varieties & data recorded as per DUS guideline.

Rabi season the field pea 2886/2183 farmers variety is the vegetable type variety in *rabi* season, the Rajmash 2879/3769 farmers variety is the plant growth habit is spreading type variety

Varieties under maintenance breeding for the year 2022-23

S.No.	Crop Species	Name of the reference varieties
1.	Green gram [<i>Vigna radiata</i> (L.) Wilczek]	70
2.	Black gram [<i>Vigna mungo</i> (L.) Hepper]	41
3.	Lentil (<i>Lens culinaris</i>)	39
4.	Pea (<i>Pisum sativum</i>)	61
5.	Rajmash (<i>phaseolus vulgaris</i>)	14

MUNGBEAN

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra

Dr. PDKV, Akola is Co-nodal DUS testing centre for Mungbean, at this DUS centre total 86 reference varieties of Mungbean has been maintained.



During reporting period 2023-24 no candidate varieties received for testing purpose.

BLACK GRAM

National Pulses Research Centre, Tamil Nadu Agricultural University, Vamban, Tamil Nadu



National Pulses Research Centre, Vamban, Pudukkottai District, Tamil Nadu during the reporting period, 2023-24, 13 test entries including 03 typical varieties viz., 22khU 1, 22khU 2 and 22khU 3 and twenty three reference varieties viz., VBN 1, WBU 108, Sekhar 2, IPU 243, LBG 17, KUG 479, Pant U 31, OBG 441, UG 338, TBG 123, Naveen, Mash 414, Pant U 40, Indira, KU 967, Azad U3, IPU 941, VBN 7, T 9, TAU 1, GU 1, Azad urd 1, ADT 6 received from IIPR, Kanpur during the year 2023. All the three typical varieties were raised along with the reference varieties during *Kharif 2023*. All the 13 varieties were raised along with the reference varieties maintained at DUS center.

All the plant and seed morphological characteristics (21) was recorded as per the DUS testing guidelines and observed data were documented. Based on the data observed, all the typical and reference varieties recorded anthocyanin pigmentation on hypocotyl region. Typical varieties and most of the reference varieties comes under early duration group except TAU 1, T 9, OBG 41, LBG 17, Mash 414. The data revealed that all the test entries (3 no's) and 19 reference varieties were erect on nature. Invariably all varieties tested were recorded determinate plant habits. The reference variety Sekhar 2 observed with

green colour seeds whereas for other entries it was black to brown. All typical and reference varieties have dull seed luster.

3.1.14. DUS TESTING CENTRES FOR OKRA, BRINJAL, TOMATO, PEA (VEGETABLE), KIDNEY BEAN, BITTER GOURD, BOTTLE GOURD, CUCUMBER, PUMPKIN

ICAR- Indian Institute of Vegetable Research, Varanasi, Uttar Pradesh

TOMATO

During reporting period 2023-24, total 92 reference varieties of tomato has been maintained and



seed pockets of 32 tomato entries. Among the 32 entries received, there was no germination in one hybrid ie. 22 TH 7 Hybrid. Related germination report was submitted on 25.10.2023. Monitoring of remaining 31 entries was done on 27.03.2024 under the chairmanship of Dr. T K Behera, Director, ICAR-IIVR. DUS characterization for all the entries were recorded as per DUS test guidelines. Off types was observed in 2nd year entry 2871/2474/H F1 hybrid SMG, 2871/2493/H Candidate hybrid and 2871/2493/H F1 hybrid SMG. Monitoring report was submitted on 10.04.2023.

OKRA

During the year 2023-24, a total of 38 okra entries were evaluated under DUS testing, which includes 12 first year hybrids, 18 second year hybrids



(7 Candidate Hybrid + 7 SMG Hybrid + 4 Candidate Hybrid), 8 typical varieties. The data were recorded as per PPV&FRA guide lines. There was no variation observed among the Candidate and Shimoga hybrids and found to be uniform and stable for all

the grouping characters. The experimental trial was monitored by an expert committee constituted by the authority on 31.10.2023. Maintenance breeding was done to maintain the reference varieties self-pollination. At present, a total 42 reference varieties of okra were maintained as reference collection and are being used as reference during DUS testing of candidate varieties.

CUCUMBER AND PUMPKIN

During the year, 24 cucumber and 25 Pumpkin varieties were collected and maintained as reference varieties for DUS Testing. 18 entries of cucumber and 12 entries of Pumpkin were evaluated under DUS testing. Eighteen cucumber entries included four hybrids of 2nd year, six hybrids and eight typical varieties of 1st year. Twelve entries of pumpkin included five hybrids and seven typical varieties of 1st year.

Monitoring of DUS testing of cucumber & pumpkin 2023-24 was conducted on 13.05.2024 and data of seed related traits are being recorded in cucumber. Pumpkin monitoring will be conducted again as in pumpkin five candidate varieties were still at their flowering stage during cucumber monitoring on 13.05.2024. The chairman has decided to 2024. Data of DUS test of cucumber & pumpkin 2023-24 of candidate varieties along with its reference will be compiled and submitted to PPV&FRA

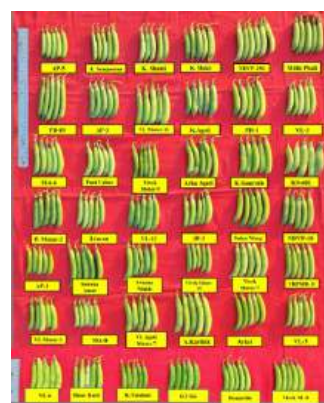
BOTTLE GOURD AND BITTER GOURD

During the year 2023-24, the centre has maintained 24 of bitter gourd and 25 Bitter gourd reference varieties. 04 candidate of Bitter gourd (22BIGH-1, 22BIGH-5, 22BIGH-7 and 22BIGH-8) were received but only candidate hybrid i.e. 22BIGH-1 germinate & transplant in the field and 03 candidate hybrids (22BOGH-1, 22BOGH-2, 22BOGH-3 along with one candidate hybrid (2877/2991/H) and one SMG hybrid (2877/2991/H) were sown. Observation taken as per as per DUS guidelines of PPVFRA. DUS monitoring team visited at DUS plot on 22.05.2023.



VEGETABLE PEA AND FRENCH BEAN

During 2023-24, Vegetable Pea 42 Reference varieties were collected and grown from different centres and maintained as reference varieties for DUS testing. These varieties originated from diverse centers including at IARI (RS) Katrain, IIVR, Varanasi, IIHR, Bangalore, DARL, Pathoragarh, NDUA&T, Faizabad, GBPUA & T, Pantanagar, HAU, Hisar, HARP, Ranchi, PAU, Ludhiana, MPKV, Rauri, Dr. YSPHUF, Solan, VPKAS, Almora and CSAUAT, Kanpur were characterized for 20 DUS characters and in French bean 16 Bush type, 11 Pole type varieties were grown and characterized for 22 DUS characters and the data recorded as per PPVFRA DUS guidelines.



OKRA, BRINJAL, TOMATO, BITTER GOURD, BOTTLE GOURD, CUCUMBER, PUMPKIN

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During the period 2023-24, DUS testing centre at ICAR-IIHR, Bengaluru following reference varieties maintained crop-wise i.e. 19 Tomato, 40 Brinjal, 20 Okra, 16 cucumber, 15 Bitter gourd, 25 Bottle gourd and 04 Pumpkin.

TOMATO:

A total of 26 tomato new/candidate varieties and 6 reference varieties and have been raised for conduct of DUS Test. All the 26 entries were characterized for 47 morphological characters as per DUS test guidelines for the year 2023-24. The DUS test trails were monitored by the committee constituted by the PPV&FRA wherein, Co-Chairman of Dr. A.T Sadashiva, Former Head, Division of Vegetable Crops, and Director IIHR were Chairman at IIHR Bangalore on 09.02.2024.

BRINJAL:

A total of 4 brinjal farmers varieties and 6 reference varieties and have been raised for conduct of DUS

Test for 47 morphological characters as per DUS test guidelines for the year 2023-24.

OKRA:

A total of Twenty (20) Okra varieties of which 12 Candidate Hybrids, 8 typical varieties and 3 reference varieties were raised to conduct of DUS testing and characterized for 31 morphological characters as per the DUS test guidelines during the year 2023. Experiment was laid out as per the DUS test guide lines envisaged by PPV&FRA, New Delhi. All the committee members visited the Okra DUS plot and thoroughly discussed and monitored.

Cucumber: we have not received any varieties during 2023-24 and 12 reference varieties of Cucumber were raised and selfed seeds were collected for further utilization.

BITTER GOURD

Maintenance of Bitter gourd Reference varieties: Sixteen Bitter gourd reference varieties namely, Pusa Vishesh, Pusa Do-Mausami, Sel.5, MC-84, Sel.1, Arka Harit, Hirkani, Phule Green Gold, Phule Ujwala, Meghana-2, Preethi, NDBT-9, Kalyanpur Baramashi, NDBT-7, HABG-1, Co-1 were maintained.

BOTTLE GOURD:

25 bottle gourd reference varieties were raised for DUS testing during the year 2023-24 and characterized for 31 morphological traits as per the crop specific DUS test guidelines. No candidate varieties are being received for testing during the year of report. Hence, 25 reference varieties are being maintained.

PUMPKIN:

Seven reference varieties (Arka Suryamukhi, Arka Chandan, Kashi Harit, CO-1, Ambili, Saras and Suvarna) have been raised for conduct of DUS Test for 32 morphological characters as per DUS test guidelines for the year 2023-24. No candidate varieties are being received for testing during the year of report. Hence, 7 reference varieties are being maintained.

BITTER GOURD, BOTTLE GOURD, CUCUMBER, PUMPKIN

ICAR- Indian Agricultural Research Institute, Pusa, New Delhi

During 2023-24 under DUS testing of Cucurbits, the following vegetable crops are tested and monitoring

done on 24.05.2023.

A. Bottle gourd - 03

B. Bitter gourd - 04

C. Cucumber – 08 (4 Hybrid and 4 FV, Typical)

Three varieties of bottle gourd (3 Hybrid), four varieties of bitter gourd (4 Hybrid) and eight varieties of cucumber (4 Hybrid and 4 FV, Typical) were evaluated and data recorded during 2023.

Number of reference and example varieties maintained at the centre;

A. Bottle gourd – 18 (Punjab Long, KBGR-12, Arka Bahar, Kashi Ganga, Pant Lauki-1, Kalyanpur Long Green, Narendra Jyoti, Narendra Rashmi, ABG-1, NDBG-619, Pant Lauki-3, NDBG-132, VRBG-136, Narendra Dharidar, Pusa Samridhi, Pusa Santusthi, Pusa Naveen and Pusa Sandesh).

B. Bitter gourd – 17 (Pant Karela-1, Kashi Urvashi, Punjab-14, CO-1, Phule Ujwala, Preethi, NDBT-7, Hirkani, Kalyanpur Baramasi, NDBT-9, Phule Green Gold, Meghana-2, HABG-21, HABG-22, Pusa Do Mausami, Pusa Vishesh and Arka Harit).



C. Cucumber – 10 (Kalyanpur Green, Swarna Ageti, Punjab Naveen, Swarna Sheetal, Phule Shubhangi, Japanese Long Green, Himangi, Swarna Poorna, Pant Khira-1 and VR-101 (genotype)

3.1.15 DUS TESTING CENTRES FOR AMARANTHUS, PALAK, RIDGE GOURD

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

Details of DUS testing of candidate varieties in 2023-24

Crops	New		VCK	FV	Reference varieties	Date of monitoring
	1 st year entries	2 nd year entries				
Amaranth	1	-	-	-	2+17	-

This DUS testing centre were tested one amaranth variety along with reference variety and centre has maintained 09 reference varieties of ridge gourd, 19 varieties of amaranth and 05 varieties of palak.

Salient Achievements:

Ridge gourd hybrid, Arka Vikram -REG/2020/50; IIHR-6-1-1 Female Parent of Ridge gourd hybrid, Arka Vikram- REG/2020/50 P1; Arka Prasan (IIHR-53-1-3) Male Parent of Ridge gourd hybrid, Arka



Vikram- REG/2020/50 P2 have been registered with PPV&FRA, New Delhi on 12.7.2023.

ICAR- Indian Agricultural Research Institute, Pusa, New Delhi



During the year 2023-24, DUS testing of Amaranth Palak and Ridge gourd trial were laid out as per the DUS testing guidelines. 09 Ridge gourd (Pusa Nasdar, Arka Sumeet, GARG-1, Jaipur Long, Pusa Nutan, Phule Sucheta, Arka Sujat, Co-1, Deephti), 19 Amaranth (Arka Samraksha, Arka Verna, Arka Arunima, Rene Sree, Canara Local, Pusa Lal Chaulai, Arka Suguma, Arun, Pusa Kiran, RNA-1, Krishna Sree, Co-2, Co-3, Co-4, Co-5, IIHR-109-1, IIHR 109-4, IC-551606, IC551608) and 05 Palak (Pusa All Green, Pusa Bharti, Arka Anupama, Co- 1and HS-23) varieties were evaluated in RBD design with three replications and 10 plants in each replication. Ridge gourd No of Rows 4, Row length 4.2m, Row to Row distance 3.0 m, Plant to Plant distance 60 cm. and Amaranth No of Rows 4, Row length 3m, Row to Row distance 50cm, Plant to Plant distance 20cm. and Palak No of Rows 5, Row length 2m, Row to Row distance 50cm, Plant to Plant distance 20cm.

3.1.16. DUS TESTING CENTRES FOR CABBAGE AND CAULIFLOWER

ICAR- Indian Agricultural Research Institute, Pusa, New Delhi

DUS testing of candidate varieties in 2023-24

Crops	New		VCK	FV	Date of monitoring
	1 st year entries	2 nd year entries			
Cauliflower (Mid-Early)	02	-	-	-	06/12/2023
Cauliflower (Mid-Late)	03	05	-	-	
Cauliflower (Late)	03	03	-	-	

Varieties under maintenance/characterized:

Mandated Crop Species	No. of varieties under maintenance breeding in 2020-2021
Cauliflower (Early)	Pusa Meghna, Pusa Ashwini, Pusa Deepali, Sabour Agrim, Sabour Mukta, Kashi Gobhi-25, Pusa Kartik Sankar, 2829/2127H, 23 CASUNI 02H, DCH-1467, DCH-9867, Pusa Kartiki
Cauliflower (Mid-Early)	CME 22H1, CME 22H2, CME 22-1, CME 22-2, CME 22-3, MLC 2022-H1 MLC
and (Mid-Late)	2022-H2, MLC 2022-H3, Pusa Sharad, Pant Shubhra, Pusa Paushja, Pusa Shukti, Pusa Himjyoti, PCH-3
Cabbage	Pusa Ageti

Salient Achievements

The trial was laid out as per the DUS testing guidelines. The candidate varieties were evaluated



in RBD design with three replications and 50 plants in each replication. In early trial the seeds were sown in 21.07.2023 and seedlings were transplanted in 06.09.2023 and in mid-early trial the seeds were sown in 29.08.2023 and seedlings

were transplanted in 18.10.2023 at a spacing of 60 x 45 cm. Total 28 agro-morphological characters for DUS testing of Cauliflower were recorded during the seedling stage, harvesting stage and flowering stage as DUS guidelines.

ICAR- Indian Agricultural Research Institute, Katrain, Kullu, Himachal Pradesh

During the reporting period 2023-2024, the centre has maintained 16 reference varieties of Cabbage (Golden Acre, Pusa Mukta, Pusa Drum Head, 83-1, 6A, C-121, Pride of India, Pride of Asia, Pusa Ageti,,



208A, 208 B, C-122, Kinner Red, KTCB-R3A, KTCB-R3B, KTCB-R5, and 4 hybrids viz., Pusa Cabbage-1 (KGMR-1), Pusa Red Cabbage Hybrid-1, Pusa Hybrid-81 and Pusa Hybrid-82) and 11 reference varieties of Cauliflower (Pusa Snowball-1, Pusa Snowball K-1, Pusa Himjyoti, Snowball-16, Pusa Snowball K-25, SK-1, Sel-27, KTDH-53-1, 33A-1, Kt-22 and Pusa Purple Cauliflower-1 along with 3 hybrids of snowball cauliflower namely Pusa Snowball Hybrid-1, Pusa Snowball Hybrid-2 and Pusa Hybrid-301), its have been characterized, purified and suitably maintained. DUS testing of three mid-late group candidate varieties of cauliflower viz., MLC 2022 H1, MLC 2022 H2 and MLC 2022 H3 in second year were tested under DUS testing.

3.1.17. DUS TESTING CENTRES FOR POTATO

ICAR-Central Potato Research Institute, Shimla, Himachal Pradesh

During reporting period 2023-24, varieties viz., Alibaba, Marverick, Java, Commando, Buffalo, Buster, Antartica of Utkal Tuber India Pvt. Ltd. and King Russet, Lady Alicia, Lady Jane and Sound of Technico Agri Sciences Ltd. Firm were evaluated for vegetative and tuber traits at CPRI RS Modipuram and Jalandhar. In summer crop season at Kufri hills, candidate varieties viz., Challenger, Sifra, Sylvana, Ronaldo, Violet Queen, Delia Red, Hermosa, Alcander, Alverstone Russet, Sun Red, Primabelle, Sunita and Double Fun (Mahindra HZPC), King Russet



(Technico Agri Sciences Ltd.), UT-320 (Alibaba), UT-169 (Buffalo), UT-722 (Java), UT-650 (Maverick) of Utkal Tuber India Pvt. Ltd. were raised for floral traits and accordingly DUS data were recorded.

Maintenance of DUS reference varieties: Two hundred and fifty eight reference varieties (258) were maintained in in vitro conditions at CPRI, Shimla while 259 each were maintained under field condition at CPRI, Kufri-Fagu Unit, Kufri and CPRI, RS, Modipuram, respectively.

Monitoring of potato DUS trials: The monitoring of potato DUS trials at Modipuram was done on 9th January 2024. The committee of five members constituted by PPVFRA monitored potato DUS field trials. The crop monitoring was done at vegetative stage maintaining adequate plant population with no mixtures. The trial constituted 11 candidate varieties along with their respective reference varieties in healthy condition except two reference varieties (Memphis and Santana) that exhibited poor germination. Among the candidate varieties, 3 varieties viz., King Russet, Alibaba and Maverick were tested for second year data. All the agronomic practices/ plant protection measures were followed as specified for the crop. The data was recorded properly along with photographs at every stage following crop specific DUS test guidelines. The crop was harvested in second week of February and after that complete data of the crop was recorded in the format.

3.1.18. DUS CENTRES FOR ONION AND GARLIC

ICAR-Directorate of Onion and Garlic Research, Pune, Maharashtra



During the FY 2023-24, ICAR-DOGR is working as Nodal Centre for conduct of DUS test of onion and garlic and maintaining 47 onion, 04 multiplier onion and 29 garlic varieties under this project. These varieties of onion and garlic are treated as reference varieties. In onion, 45 rabi season varieties and 10 kharif season varieties and in garlic 29 varieties are being maintained at ICAR-DOGR, Rajgurunagar, Pune. Long day onion and garlic varieties are being maintained at ICAR-CITH, Srinagar and multiplier onion varieties at TNAU, Coimbatore. All the data have been recorded as per DUS test guideline in all the maintained varieties of onion and garlic under DUS project.

During 2023-24, total nine onion varieties were received for DUS testing i.e. 2889/2141, 230NBHTI02, 230NBHED04, 230NBHER05 during *kharif* and 2889/2170, 2889/2171, 230NBHAN01, 230NBHAJ02, 230NNH203 during *Rabi*. DUS monitoring was conducted during the month of Nov, 2023.

ICAR- Indian Agricultural Research Institute, Pusa, New Delhi

No. of varieties for DUS testing:

ICAR-IARI is working as a co-Nodal Centre for the conduct of the DUS test of onion and garlic. We are maintaining 29 onion and 12 garlic varieties under



this project. These varieties of onion and garlic are treated as reference varieties. All the data is being recorded per DUS test guidelines in all the maintained varieties of onion and garlic under the DUS project. All five entries were sown in the nursery on 23/11/2023. Two entries namely, 2889/2171 and 2889/2170 did not germinate. Hence three entries, 230 NBHAN 01, 230 NBHAJ 02 and 230 NNH 203 were transplanted on 25/01/2024 along with candidate variety Pusa Madhavi. Data were recorded on morphological traits as per DUS guidelines.

3.1.19. DUS CENTRES FOR CHILLI, BELL PEPPER AND PAPRIKA

Dr. YSR Horticultural University, Lam Farm, Guntur, Andhra Pradesh

During 2023-24, the following candidate varieties under DUS testing

Crop	Candidate/ New Varieties						VCK	Date of Monitoring
	1 st year entries			2 nd year entries				
	Hybrid	Typical	FV	Candidate Hybrid	F1Hybrid vs SMG	Typical		
Capsicum	-	4	-	-	-	-	-	19.02.2024
Chilli	11	4	-	10	30 (15+15)	13	-	
Total	11	8	-	10	30	13	-	
Total number of entries =72								

Out of 72 entries received, 11 hybrids, 8 typical entries, 10 candidate hybrids, 30 F1 hybrid vs SMG and 13 typical entries of capsicum and chilli were evaluated for DUS traits along with 20 reference varieties at HRS, Dr YSRHU, Lam Guntur. The seeds were sown on 01-09-2023 in portrays. Among the 72 entries sown in portrays, one entry (2884/2152) of the capsicum was not germinated and 30 entries were recorded



less than 60% germination. The seedlings were transplanted in the experimental block for evaluation on 12-10-2023. The DUS experimental plots were

well maintained according to the specifications. The DUS traits were systematically recorded. Few of the entries were infected with *chilli leaf curl virus* and black thrips at the final stages of crop growth. All the entries were characterized for DUS traits and monitoring of the DUS entries was conducted successfully under the Chairmanship of Dr L. Naram Naidu, Director of Research, Dr YSRHU, Co-Chairman T. H. Singh, Principal Scientist, Division of Vegetable Crops, IIHR, Bengaluru and member Dr. Prabhudeva S. Aijappalavara, Associate Professor/PI

Collaborating Centre (DUS on chilli) on 19-02-24.

Horticultural Research & Extension Center, Devihosur (UHS, Bagalkot)

During 2023-24, Total 72 candidate entries were received and along with them 19 open pollinated varieties and a hybrid were included as reference varieties/hybrid from HREC, Devihosur. The seedlings were raised in portray (DOS-23rd to



26th August, 2023). Among the 72 entries sown in portrays, one entry (2884/2152) was not germinated and 38 entries were recorded less than 50% germination. On 1st to 6th September 2023 the raised seedlings were transplanted to experimental block for evaluation. At later stage of the crops chilli and capsicum plants were severely infested with the thrips and crop was taken care and maintained with regular sprays (bio-agents and chemicals).

Details of DUS testing of candidate varieties in 2023-24

Crop	Candidate/ New Varieties						VCK	Reference Varieties	Date of monitoring
	1 st year entries			2 nd year entries					
	Hybrid	Typical	FV	Candidate Hybrid	F1Hybrid vs SMG	Typical			
Chilli	11	04	-	10	30 (15+15)	-	-	16	29.01.2024
	11	08	-	10	30	13	-	19	
Capsicum		04	-	-	-	13	-	03	

Varieties under maintenance/characterised:

Mandated Crop Species	No of varieties under maintenance breeding in 2022-23	Data Submission (Maintenance Breeding) Yes/No
Chilli	25	No

- DUS plot was well maintained and all DUS traits were systematically recorded
- Later stage of the crop plants were infested with thrips.

3.1.20 DUS TESTING CENTRES FOR WATERMELON AND MUSKMELON

ICAR-Central Institute of Arid Horticulture, Bikaner, Rajasthan

During summer season of 2023, conducted the DUS

testing of 08 entries of watermelon (22 Wm H1 Hybrid, 2879/2943/H Candidate Hybrid, 22 Wm H2 Hybrid, 2879/2943/H F1 Hybrid SMG, WM 22 H3 Candidate Hybrid, WM 22 H3 F1 Hybrid SMG, WM 22 H1 Candidate Hybrid, WM 22 H2 Candidate Hybrid) under the category of candidate hybrids.



In muskmelon, received 03 entries under the category of candidate hybrids (MM 22 H2 Candidate Hybrid, MM 22 H2 F1 Hybrid SMG, MM

22 H4 Candidate Hybrid), 02 entries under farmer variety category (22MuFV1, 22 MuFV2) and 03 entries under typical category (22 MM-1 Typical, 22 MM-2 Typical, 22 MM-3 Typical). All entries of muskmelon were evaluated for DUS testing as per DUS descriptors during the summer season of 2023. The seed of all reference varieties of 07 watermelon and 11 muskmelon has been maintained for the use in DUS testing.

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

Maintenance and regeneration of reference varieties

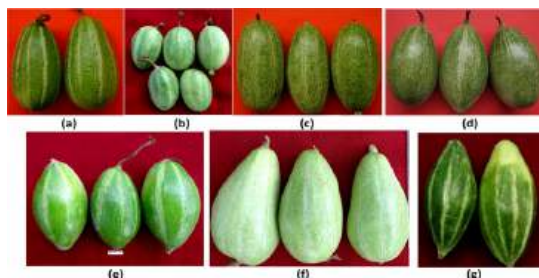
A total of ten reference varieties in watermelon (Arka Manik, Sugar Baby, Asayi Yamato, Crimson sweet, AHW-65, Durgapur Lal, Durgapur Kesar, Thar manak, Arka Shyama, Arka Muttu) and eight reference varieties in muskmelon (Arka Jeeth, Durgapur madhu, Pusa Sarbati, Punjab Sunheri, RM-50, RM-43, MHY-3, MHY-5) have been maintained and regenerated.

WATERMELON: Two candidate hybrids 22WMH1, 22WMH2 for 1st year DUS test, Candidate hybrids namely WM22H1-CH, WM22H2-CH, WM22H3-CH and Shimoga hybrid WM22H3- SMG for 2nd year DUS test, with six reference varieties (Arka Manik, Sugar Baby, AHW-65, Durgapur Lal, Durgapur Kesar, BIL-53, Thar manak) was tested as per the DUS Guidelines of PPVFRA.

MUSKMELON: DUS testing of muskmelon with two typical varieties 22 MuFVI and 22 MuFV2 for 1st year DUS test. Three hybrids MM22H4, MM22H2, and MM22H2-SMG, three typical varieties 22MM-1, 22MM-2 and 22MM-3 for 2st year along with five reference varieties (Arka Jeeth, Punjab Sunheri, RM-43, MHY-3, MHY-5) was tested as per the DUS Guidelines of PPVFRA.

3.1.21. DUS TESTING CENTRES FOR POINTED GOURD

Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal



DUS testing of candidate varieties in 2023-24, DUS characterization of pointed clones is being carried out at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal. Eighteen reference varieties are being maintained in this centre. The study suggested that plant and fruit morphological characters viz., fruit shape, fruit apex shape at blossom end, petiole length, leaf blade length, fruit skin primary colour, and depth of leaf lobing should be considered when evaluating pointed gourd genotypes for DUS testing.

Thirty Seven genotypes including eighteen reference varieties have been characterized as per DUS descriptors developed by the center. Nutritional profiles of all the tested genotypes have been done.

ICAR-Indian Institute of Vegetable Research, Varanasi, Uttar Pradesh

During the reporting period FY 2023-24, as per the objective reference varieties like Kashi Alankar, Kashi Suphal, Kashi Amulya, SwarnaRekha, SwarnaAlaukik, VRPG-221, VRPG-220, VRPG-103, VRPG-126, VRPG-173, VRPG-219, VRPG-141, VRPG-176-1, VRPG-105, BCPG-1, BCPG-2, BCPG-4 and BCPG-5 clonally propagated and maintained separately. Data related to various crop descriptors based on the DUS guideline of pointed gourd also recorded. Characters recorded for all the reference varieties were as per DUS guide lines and no deviation reported.



3.1.22. DUS TESTING CENTRE FOR DRUMSTICK :

University of Horticultural Sciences, Bagalkot, Karnataka

In this center, 21 different moringa genotypes were collected from different places and established in three replication at DUS testing Block. All these genotypes were characterized



for both qualitative and quantitative traits as per the DUS testing guidelines. These genotypes were maintained in good conditions as reference varieties. Few more Moringa genotypes were collected from different places in the form of cuttings, they have been multiplied in poly house and establishing them to the main field is in progress. Apart from this, three training programmes have been conducted during the financial year 2023-24 for the farmers and faculty members to create awareness about the various provisions of PPV & FRA Act 2001. Farmers are approaching DUS center to facilitate them in registering the varieties at PPV and FRA. We have received four genotypes of Brinjal from a farmer to characterize them for DUS characters and it is in progress. In this way, center is facilitating and encouraging the farmers to register the varieties. Center has received two applications for onsite DUS testing of moringa from Maharashtra and Jharkhand. It will be attended during current year.

3.1.23. DUS TESTING CENTRES FOR BETELVINE

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During 2023-24, total 40 Betelvine reference varieties (4 released, 36 FV/VCK/germplasm) has maintained at DUS centre. DUS traits recorded in 11 example varieties and 29 germplasm lines at ICAR-IIHR experimental farm. To collect Piper betle (L.) and on site data recorded in Ranebennur and Savanur areas of Haveri district of Karnataka



on 07/08/2023. In addition, we have visited KVK Hanumanamatti, Ranebennuru Taluk and discussed about ongoing betelvine work at the locality. Further visited to the farmer field, where the farmers are cultivating betelvine in both polyhouse and open field using ceiba pentandra as a live standard.

Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal



The germplasm of betelvine collected from different parts of the country are being maintained under boraja structure in two places at Bidhan Chandra Krishi Viswavidyalaya (BCKV), Kalyani, Nadia, West Bengal. In total 39 lines/varieties are maintained at this centre for characterisation. This includes all the example varieties mentioned in the DUS testing guidelines. We have received one betelvine variety (Huikhadan Deshi Kapuri Pan) from IGKV, Raipur claimed to be new collection. This variety was tested for its novelty, report submitted to the Authority.

3.1.24 DUS TESTING CENTRES FOR AONLA (INDIAN GOOSEBERRY)

ICAR-Central Institute of Subtropical Horticulture, Lucknow, Uttar Pradesh

During reporting period 2023-24, 08 Aonla varieties planted in the field gene bank were characterized. There reference varieties (8) are being maintained



in the field genebank. DUS testing was performed on 1 candidate varieties including five new varieties submitted for registration to the authority. UP orchardists were sensitized about benefits of registering their varieties with PPVFRA, New Delhi.

ICAR-Central Institute of Arid Horticulture, Godhra, Gujarat

During the reporting period 2023-24, the centre has maintained 14 Aonla reference varieties at field

gene bank under DUS testing centre. All reference varieties were evaluated for horticultural traits like Banarasi, Anand-1, Anand-2 and Krishna have upright spreading growth habit, Kanchan and Chakaiya have upright, Francis has drooping tree form, NA-10 has spreading type of tree form. Leaf size was recorded maximum (1.709 x 0.26 cm) in NA-10 followed by Chakaiya, Goma Aishwarya and NA-7 whereas it was recorded minimum (1.22 x 0.38cm) in Krishna. The leaf shape and apex of Banarasi, Krishna, Anand-2 were oblong obtuse, Chakaiya and Anand-1 were oblong acute, Kanchan was oval acute, Francis was oval obtuse whereas Goma Aishwarya, NA-7 and NA-10 were elliptical obtuse in shape.

3.1.25 DUS TESTING CENTRES FOR BAEI

ICAR-Central Institute of Arid Horticulture, Godhra, Gujarat

During 2023-24, 21 Bael crops reference varieties has maintained in field repository at the Station, CHES, Godhra and 07 Bael farmer's candidate varieties were tested under On-site/DUS testing including three varieties from district Gonda, U P, and 2 from Jharkhand and 2 from Chhatisgarh and DUS data recorded as per DUS testing guidelines PPVFRA.

ICAR-Central Institute of Subtropical Horticulture, Lucknow, Uttar Pradesh

This center has maintained 16 bael reference varieties are. 12 bael varieties planted in the field gene bank were characterized. DUS testing was performed on 07 candidate varieties including three varieties from district Gonda, U P, and 2 from Jharkhand and 2 from Chhatisgarh earlier submitted to the authority. Farmers from U P, Jharkhand and Chhatisgarh were sensitized about benefits of registering their varieties with PPVFRA, New Delhi.



3.1.26 DUS TESTING CENTRES FOR JAMUN

ICAR-Central Institute of Subtropical Horticulture, Lucknow, Uttar Pradesh

During the reporting period 2023-24 at Central institute for Subtropical Horticulture, Lucknow, Reference varieties of jamun (7) were maintained in the field gene bank under recommended cultural practices. A total of 22 accessions were characterized using DUS descriptors for tree growth and fruit quality traits during period under report. Farmers were sensitized for registering their jamun varieties with PPV&FRA.



ICAR-Central Institute of Arid Horticulture, Godhra, Gujarat

During the reporting period 2023-24, Eight candidate/reference varieties (Goma Priyanka, Konkan Bahadoli, CISHJ-42, Thar Kranti, CISH Jamwant, Gokak-1, Gokak-2, Paras) were maintained in field repository at the Station, CHES, Godhra for testing of farmers variety. Morphological descriptors of Round the year Jamun, farmer's variety from Tumkur, Karnataka was recorded and reported. Planting materials of Round the year Jamun and Dhoopdal were collected during October, 2023.

3.1.27 DUS TESTING CENTRE FOR GUAVA

ICAR-Central Institute of Subtropical Horticulture, Lucknow, Uttar Pradesh

During the reporting period 2023-24, Guava varieties (31) planted in the field gene bank were characterized using various DUS descriptors. The reference varieties (40) were maintained in the field gene bank. DUS testing was performed on 2 candidate varieties including 'JARVI RED-1' (REG/2023/0164) and 'ARKA POORNA' (REG/2020/19), and the on-site DUS test report submitted to the Authority. Guava growers of Kanpur district of Uttar Pradesh were sensitized about benefits of registering their varieties with PPV& FRA.



3.1.28 DUS TESTING CENTRE FOR LITCHI

ICAR-National Research Centre on Litchi, Muzaffarpur, Bihar

During the year 2023-24, ICAR-National Research Centre on Litchi, Muzaffarpur, Bihar has maintained 76 reference varieties under maintenance breeding at DUS testing centre for Litchi crop. The centre is maintaining 06 reference varieties in the DUS testing block. Total 20 germplasm of litchi genotypes viz., *Shahi*, *China*, *Bombai-II*, *Dehradun*, *Gandaki Yogita*, *Purbi*, *CHL-5*, *CHES-II*, *Ajholi*, *Bombai-I*, *Bedana*, *Gandaki Lalima*, *Gandaki Sampada*, *Mandaraji*, *Calcuttia*, *Rose scented*, *Trikolia*, *Longia*, *Green*, *Dehradun* were characterized as per DUS descriptors being maintained at National Active Germplasm Sites (NAGS) of the centre. There are one farmers' variety and one variety i.e. *Swarna Madhu* of litchi at present in the DUS block being evaluated as per the DUS descriptors.

3.1.29 DUS TESTING CENTRES FOR CUSTARD APPLE AND PAPAYA

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

PAPAYA : During the reported period 2023-24, 13 reference varieties (viz., *Red lady*, *Dwarf lily*, *Coorg Honey Dew*, *Washington*, *Shillong*, *Pink Flesh Sweet*, *PAU selection*, *Lucknow collection*, *Pusa Giant*, *Pusa Dwarf*, *Pusa Nanha*, *Arka Prabhath*, *Arka Surya*) were raised, selfing and sib-mating were carried out for the maintenance of the varieties. No entry of papaya was received for DUS testing.

CUSTARD APPLE : Thirteen reference varieties of custard apple (*A.squamosa* L.) viz *Balanagar*, *Raidurg*, *APK-1*, *Red Sitaphal*, *Mammoth*, *Barbados*, *Washington 07005*, *Washington 98797*, *Taiwan*, *NMK-1*, *Arka Neelachal Vikram*, *Phule Janki* and *Arka Sahan* are being maintained in the Field Gene Bank by following the standard production practices.



DUS characterization of *VNR Mathur* and *Balanagar* has been carried out at Jagdalpur, Chattisgarh. On-site DUS testing of custard apple in Maharashtra has been carried out at KVK, Baramati. Morphological, flower and fruit traits have been recorded in *Bhimthadi* (Baramati) selection and *Balanagar*.

PAPAYA

Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu

During the reporting period 2023-24, maintenance of 18 reference varieties in the field. Observations were made on 15 varieties as including dioecious (CO 1, CO 2, CO 4, CO 5, CO 6, TNAU papaya CO 8, *Pusa Dwarf*, *Pusa Nanha*, *Pusa Giant*, *Washington*, *Pant Papaya 2*, *PAU selection*) and gynodioecious (CO 3, CO 7, *Sunrise Solo*). Characterization of *Arka Prabhath*, *Arka Surya* and *Coorg Honey Dew* could not be done due to severe PRSV incidence. DUS characterization was attempted in 15 varieties and the grouping of varieties based on traits observed.



3.1.30 DUS TESTING CENTRE FOR NUTMEG

Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Ratanagiri, Maharashtra

During reporting period 2023-24, 13 Farmers variety (5 plants of each types) and 32 types of reference varieties are planted in the year 2018 at DUS centre, *Mulde*. Three farmers varieties (11 budded grafts of each types) received from Kerala for registration is planted at *Tetwali block*, *CES Wakawali* (Dapoli). Onsite DUS testing of 6 Farmers Varieties from Kerala state and submitted DUS data to PPVFRA.



3.1.31 DUS TESTING CENTRE FOR ARECANUT

ICAR- Central Plantation Crops Research Institute, Vittal, Karnataka

During the reporting period 2023-24, DUS centre has maintaining 16 reference varieties of Arecanut. Recorded DUS descriptor traits of seedlings of Ratnagiri germplasm and recorded morphological traits like plant height, stem height, crown length,



crown shape, girth, internodal length, no. of leaves, Leaf length, Leaf breadth, Leaf sheath length, Leaf sheath breadth etc. and fresh nut and dry nut characteristics viz., fresh fruit weight, fruit length, fruit breadth, dry nut weight, dry kernel weight etc. from example/reference varieties at ICAR-CPCRI, Regional Station, Vittal. After studying seedlings of arecanut example/reference varieties for vegetative growth characters under Assam condition at ICAR-CPCRI, Research Center, Kahikuchi, Guwahati, planted the seedlings in the field for recording observations. Recorded morphological traits of arecanut example/reference varieties at our ICAR-CPCRI, Research Center, Mohitnagar, West Bengal.

3.1.32 DUS TESTING CENTRE FOR CASHEW

ICAR-Directorate of Cashew Research, Puttur, Karnataka

During the reporting period 2023-24, DUS centre has maintaining 30 reference varieties in the reference block by following the recommended agronomic practices Two new varieties Poornima (From

Cashew Research Station, Madakkathara, Thrissur, Kerala) and Nethra Ubhaya (From ICAR- Directorate of Cashew Research, Puttur, Karnataka) have been added for onsite DUS testing. Twenty-five DUS



characteristics for varieties such as Nethra Ubhaya, Poornima, Vengurla-9, Nethra Vaaman, H-130, and H-126 which are currently under DUS testing, have been compiled along with their respective reference varieties. Cashew nut shell liquid (CNSL) has been estimated for all the candidate varieties and 30 reference varieties. Biochemical parameters like Tannins, ascorbic acid, and sugars were estimated for all the reference and candidate varieties.

NETHRA UBHAYA- It is a dual type variety with high yielding for both nuts and apples and possesses the desirable features of cashew apple qualities like low tannin content, and higher TSS content. It bears bold-sized nuts with a high shelling percentage (34.66 %). The tannin (0.034 mg/ml) content is very low compared to other varieties. The variety possesses W210 kernel grades, which is suitable for exporting.

POORNIMA- This hybrid was developed by crossing BLA-139-1 with K-30-1 at ARS-Anakkayam. The variety features an upright and compact canopy, along with notable attributes such as high nut weight (7.8 g) and kernel weight (2.6 g). It also has a high export grade (W210). This is a high-yielding, mid-season cashew hybrid with a high shelling percentage.

3.1.33 DUS TESTING CENTRE FOR CHIRONJI AND TAMARIND

Central Horticultural Experiment Station, ICAR-Central Institute of Arid Horticulture, Godhra, Gujarat

During the year 2023-24, This centre has maintained 11 varieties of Tamarind namely *Goma Prateek*, *Pratisthan*, *T-263*, *PKM-1*, *Ajanta*, *DTS-1*, *Red Type*, *Sweet Type*, *Bantoor*, *Urugum* & *CHEST-10* and 10 genotypes of chironji namely *Thar Priya*, *CHESC-1*, *CHESC-2*, *CHESC-3*, *CHESC-4*, *CHESC-5*, *CHESC-6*, *CHESC-8*, *CHESC-9*, *CHESC-10* at DUS testing centre, no candidate variety under DUS testing.



3.1.34 DUS TESTING CENTRE FOR MULBERRY

Central Sericultural Research and Training Institute, Mysuru, Karnataka

During the reporting period for the year 2023-24, the following progress are as under:

- ✓ Maintained mulberry DUS plot with 31 example genotypes and 19 reference varieties with regular pruning, weeding, irrigation, fertilizer application and other farm operations.
- ✓ Undertaken gap filling of ten example genotypes.
- ✓ Characterized example genotypes and reference varieties using 35 DUS descriptors for two independent growing cycles.



- ✓ In the example genotypes among the 35 assessed characteristics, 6 were dimorphic, 23 were trimorphic and 6 were polymorphic indicating their potential for varietal characterization, establishment of distinctiveness and identification of genotypes/varieties.
- ✓ In the available example genotypes none of the genotypes showed thick (>1.5cm) shoot thickness, tristichous (1/3) phyllotaxy, bud scale stipule nature, cordate, wide ovate and lanceolate leaf shape, repand leaf margin, gynomonoecious sex expression, twisted stigma type, very long (>8cm) mature fruit length, broad (>1.5cm) mature fruit width and green mature fruit colour. This shows need for adding new example genotypes to these characters in the DUS guidelines.
- ✓ In the reference varieties among the 35 assessed characteristics, 3 were monomorphic, 14 were dimorphic, 15 were trimorphic and 3 were polymorphic indicating their potential for varietal characterization, establishment of

distinctiveness and identification of genotypes/varieties.

- G-4 mulberry variety was registered under PPV&FR Act 2001 and PPV&FRA issued the certificate of registration with registration number REG/2019/117.

3.1.35 DUS TESTING CENTRE FOR POPLAR

Department of Tree Improvement and Genetic Resources, University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh

During the year 2023-24, DUS testing centre maintained fifteen candidate varieties of *Populus deltoides* at experimental farm in Department of Tree Improvement and Genetic Resources, Dr Yashwant Singh Parmar University of Horticulture and Forestry Nauni, Solan, (H.P.) with three replications at spacing of 60×60 cm. The details of fifteen candidate varieties are as under:

Name of the species	No of varieties		Sources
	Source	Clones	
<i>Populus deltoides</i>	Uttarakhand Forest Department	L - 6 1 / 0 5 , L - 3 0 / 0 6 , L-62/84, G-48	Forest Department
	Wimco Seedlings Ruderpur, UK	S ₇ C ₁₅ , S ₇ C ₈ , W S L - 2 2 , WSL-39	WIMCO
	Department of TIGR, UHF, Nauni	6503, 5503, 1 0 0 7 , L-200/86	State Agriculture Universities
	Department of Forestry PAU, Ludhiana	PL-3, PL-7, PL-6,	
	Total	15	

The morphological data (**leaf and growth**) on qualitative and quantitative characteristics was recorded in the month of August and December 2023, respectively. The data was analyzed in the month of February 2024. All the characters were found uniform and stable.



3.1.36 DUS TESTING CENTRE FOR WILLOW

Department of Tree Improvement and Genetic Resources, University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh

During the reporting period 2023-24, 17 reference varieties/clones were maintained in the experimental area of the department under the replication trial (3 replications) with plot size of 40 × 50 cm. The four farmer's varieties were evaluated with example varieties i.e., FLS, Ghagas and DEVMATA. The leaf data was recorded in the month of August, 2023, growth data in the month of December, 2023 and sprouting in the month of January–February 2024. The data was analyzed in the month of March 2024. The DUS characters for each variety of willow (*Salix* spp.) under maintenance testing were validated which have already been published by the Protection of Plant Varieties and Farmers' Rights Authority. The four farmer varieties (REG/2021/0128 (DOODER-1); REG/2021/0129 (Narag-1); REG/2021/0130 (SHOTTI-1); REG/2021/031 (Sanog-1) were



observed similar in distinguishing characters with example variety FLS and none can be considered distinct, however, these will be maintained along with reference varieties in nursery along with other reference varieties. In addition, one-day training camp was organized at Village Leh, teh Thunag Distt. Mandi (H.P.) on the importance of registration of Forestry germplasm with PPV&FRA New Delhi.

3.1.37 DUS TESTING CENTRES FOR CASUARINA AND EUCALYPTUS :

Institute of Forest Genetics and Tree Breeding (ICFRE), Coimbatore, Tamil Nadu

EUCALYPTUS

Eucalyptus camaldulensis clonal trials were established in different locations including IFGTB Germplasm, Karunya nagar, Kallakurichi, Salem and Marakkanam were subjected to DUS Characterization

as described in PPV&FRA guidelines, evaluation were made according to the 33 morphological parameters including both quantitative (MG) and qualitative traits (VG) in all replications. Felling of reference clones such as C7, C9, C14, C19, C63, C100, C111, C123, C187, C188, C191 were done in Clonal trial at Kurumbapatti RS, Salem for further coppice collection. Juvenile characters were recorded from coppice collected at Kurumbapatti. From both Karunya Clonal trial and GTI germplasm, IFGTB (with spacing of 3m x 2m), more than 25 reference varieties were marked for felling and future coppice collections. Multiple field visits were conducted to both locations for inflorescence observations. Therefore, digital documentation was also done for all reference clones for future activities. Actively assisted TNPL in registration procedures of their two clones with data gathered from comprehensive field visits to TNPL Unit 1&2, with DUS Guidelines outlined by PPVFRA. Girdling was performed in



selective reference clones at Karunya Clonal trial to collect coppice shoots in order to document juvenile characters and also for further propagations. Therefore, digital documentation was also done for all reference clones for future activities. Actively assisted TNPL in registration procedures of their two clones with data gathered from comprehensive field visits to TNPL Unit 1&2, with DUS Guidelines outlined by PPVFRA. Girdling was performed in selective reference clones at Karunya Clonal trial to collect coppice shoots in order to document juvenile characters and also for further propagations.

CASUARINA

IFGTB assemblage about 110 reference varieties is maintained in the Forest Campus, Coimbatore. Accessions of trees with old age were propagated and replanted to continue to retain them in the germplasm bank. DUS characters are periodically recorded from the accessions. In particular, all characters are recorded for the six candidate varieties submitted for registration during 2015 and

2017.



Industries which have ongoing varietal development programmes were contacted and encouraged to register their clones with the Authority. In particular, the ITC Limited and Tamil Nadu Newsprint and Paper Limited which have active tree improvement programmes were provided with technical information on recording of DUS characters and preparation of applications for submission to the Authority.

Navsari Agricultural University, Navsari, Gujarat

During reporting period 2023-24, for observation and the reproductive character on *E. urophylla* were recorded at Mysore paper Company, Shivamogga during October, 2023. Three online meetings were convened on 01.12.2023, 26.01.2024 and 22.03.2024 for discussion on the DUS characters on *E. urophylla*. After through discussion among the associated Scientists of Co-nodal centre, Navsari and Nodal center, Coimbatore, The DUS characters on *E. urophylla* were finalized. As per the directions from the Nodal officer, DUS centre Eucalyptus, Coimbatore, the revised DUS guidelines for Eucalyptus was proposed and the traits documented on *E. urophylla* were used to revise the DUS guidelines. Further process of submission of revised draft DUS guidelines was taken up by the Nodal Officer, Coimbatore.

3.1.38 DUS TESTING CENTRE FOR BER

ICAR-Central Institute for Arid Horticulture, Bikaner, Rajasthan

During the reporting period 2023-24, critically field evaluated and stability of DUS characters were recorded of reference (25), example (85) and others after exceptional low temperature dip during 2023 (16 January) badly affected ber except Takadi. However, the remaining 24 varieties displayed varying degrees of sensitivity at proleptic and seleptic branch. Proportion of dried sylleptic



branches per proleptic branch was substantially less in Dharki No- 1 and damage was more (higher vernier caliper) in Narma, Umran, Banarsi Pewandi and Rashmi. One day programme organised at ICAR-CIAH, Bikaner 08th Feb, 2024 on "Ber Day".

3.1.39 DUS TESTING CENTRES FOR SWEET POTATO AND CASSAVA

ICAR- Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala

During 2023-24, the gene bank of reference varieties of cassava (55) and sweet potato (52) are being conserved in the field at ICAR-CTCRI, Thiruvananthapuram. DUS trials for registration of two farmers' varieties cassava viz., Pachikizhangu and Manna were conducted. Farmers were sensitized to start registration of cassava and sweet potato varieties. Prepared applications for the registration of seven extant varieties of cassava and two varieties of sweet potato.



ICAR- Central Tuber Crops Research Institute, Bhubaneswar, Odisha

During the period 2023-24, Maintained the field gene bank with 43 reference lines related to sweet potato and 17 reference lines related to cassava at Regional Centre, ICAR-CTCRI, Bhubaneswar, Odisha. 19 pre-harvest and 06 post-harvest characteristics of each reference line for sweet potato and 22 pre-harvest and 08 post-harvest characteristics of each reference line for cassava have been identified and recorded. Maintenance breeding was done to maintain the reference varieties. Farmers variety Manna has been characterized for second year as per pre-harvest characters like leaf colour, plant height, plant type, plant canopy, etc.



Since the area is prone to cyclones, we are preserving the cassava and sweet potato in in vitro also.

Progress report of Sweet Potato and Cassava has been reviewed by Dr. Trilochan Mohapatra, Chairman, PPV&FRA, New Delhi during Regional Workshop on PPV&FRA Act, 2001 and Exhibition of Agro-biodiversity on 12th May, 2023 at ICAR-NRRI, Cuttack, Odisha. Showcased different DUS characters of both Sweet potato and Cassava during the Exhibition.

Attended First global symposium on Farmers Right at ICAR Convention Centre, NASC complex, New Delhi during September 12-15, 2023 and Showcased different crops DUS guideline at the Exhibition.

3.1.40 DUS TESTING CENTRE FOR ELEPHANT FOOT YAM AND TARO

ICAR- Central Tuber Crops Research Institute, Bhubaneswar, Odisha

During the period 2023-24, In the field gene bank at the Regional Station in Bhubaneswar, Odisha, 21 taro and 18 elephant foot yam lines were kept as reference collections. 34 pre-harvest and 16 post-harvest characteristics of each reference line for taro and 20 pre harvest and 18 post-harvest characteristics of each reference line for elephant foot yam have been identified and recorded.

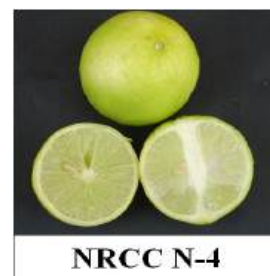


Characterization of two numbers of taro candidate varieties (Giddi Mudli and Phoola Mudli) received from PPV&FRA has been done for first year. Since the area is prone to cyclones, we are preserving the EFY and Taro types in in vitro also. Progress report of Taro and Elephant foot yam has been reviewed by Dr. Trilochan Mohapatra, Chairman, PPV&FRA, New Delhi during Regional Workshop on PPV&FRA Act, 2001 and Exhibition of Agro-biodiversity on 12th may 2023 at ICAR-NRRI, Cuttack, Odisha. Showcased different DUS characters of both Taro and Elephant foot yam during the Exhibition.

3.1.41 DUS TESTING CENTRE FOR ACID LIME, MANDARIN, SWEET ORANGE

ICAR-Central Citrus Research Institute, Nagpur, Maharashtra

In the fiscal year 2023-24, at ICAR-Central Citrus Research Institute, Nagpur, various citrus varieties were actively maintained under the crop breeding program for evaluation varieties received by the Protection of Plant Varieties and Farmers' Rights Authority (PPVFRA). For Mandarin, the varieties included NRCC Nagpur Mandarin Seedless – 4 (N-4), Mudkhed Seedless, Sikkim Mandarin, Darjeeling Mandarin, N-28, N-34, and N-38. Sweet Orange



varieties under maintenance included M3, M4, M8, Mosambi, and Sathgudi. Acid Lime varieties maintained were Vikram, Pramalini, Sai Sharbati, NRCC Niboo – 2, NRCC Niboo – 3, NRCC Niboo – 4, NRCC Niboo – 5, NRCC Acid Lime – 7, and NRCC Acid Lime – 8. These efforts are crucial for the continued development and preservation of these varieties for future agricultural use.

3.1.42 DUS TESTING CENTRE FOR TEA

Tocklai Tea Research Institute, Tocklai Experimental Station, Jorhat, Assam

Tea is a perennial, non-alcoholic, and worldwide accepted beverage. Magnificent historical evidence revealed that tea has been discovered for over two



centuries, with ongoing improvements in desirable features until 2024, making it the most generally recognized and extensively used beverage on earth. For end users, an independent lineage of distinct Assam and China tea classes creates the immortal appearance of tea (*Camellia sinensis*) with flavor, aromas, and health benefits. Under PPV&FRA guidelines, we have categorically stored and

protected these *Camellelia* gene reservoirs, which represent a core collection of primitive cultivars, wild relatives, land races, natural hybrids, and related genera. Tocklai diligently conserves the largest amount of tea germplasm in Southeast Asia. Tocklai has about two thousand total germplasm accessions, and it dignifies Assam tea as the most popular CTC tea. The Tocklai Tea Research Institute (TTRI) currently has 267 tea varieties under maintenance breeding. 39 tea varieties (20 under the TRA Garden series clone, 03 estate clones, and 16 seed varieties) underwent DUS characterization in 2023–2024. We conducted the field trial using a randomized block design (R.B.D.) with three replications. We recorded observations on the leaf growth data from March to October 2024 and the floral data from November to February 2024. A total of 20 morphological



(15 vegetative and 05 floral descriptors) were considered for the comparison to reference varieties. Therefore, we will maintain these in the nursery alongside other reference varieties and characters for examination in the years 2024–2025. Under the PPV&FRA guidelines, we have registered two tea varieties, TV32 and TV33. We are in the process of registering TV31 and TSS1 (the application and document submitted to PPV&FRA, New Delhi). We plan to register two new tea planting materials, TV34 and TV35, in the near future.

3.1.43 US TESTING CENTRE FOR TEMPERATE FRUITS AND NUTS VIZ. APPLE, PEAR, PEACH, PLUM, APRICOT, CHERRY, ALMOND, WALNUT AND STRAWBERRY

ICAR-Central Institute of Temperate Horticulture, Srinagar, Jammu and Kashmir

During the reporting period 2023-24, Characterization of apple, walnut, almond, peach, plum and cherry was performed as per the DUS descriptor developed PPVFRA, New Delhi. The characterized data was converted into different notes which can act as data base for comparing candidate varieties with reference varieties at any time. Maintenance of reference varieties is being done and all traits/characters are being tested at nodal centre ICAR-CITH, Srinagar for their

uniformity and stability. The new germplasm block of apple has been successfully developed by ICAR-CITH, Srinagar. The germplasm block consists of 238 varieties/hybrids of apple, making it Asia's first repository having such a huge number of varieties/hybrids of single fruit specie at one place.

Reference varieties maintained at ICAR-CITH, Srinagar		Reference varieties characterized	
Crops	No. of varieties under maintenance during 2023-24	Crops	No. of varieties under characterized during 2023-24
Apple	130	Apple	35
Pear	21	Walnut	31
Walnut	27	Almond	13
Almond	13	Peach	20
Peach	31	Plum	14
Plum	25	Cherry	09
Apricot	18	Pear	10
Cherry	10		
Strawberry	107		

3.1.44 DUS TESTING CENTRE FOR BANANA

ICAR- National Research Center for Banana, Trichy, Tamil Nadu

During the year 2023-24, This centre has been maintained 38 banana varieties at ICAR-NRC for Banana, Trichy. Musa cv. Kadali (AA) has been included as reference variety for Neykadali. DUS characterization has been completed for farmer's variety namely Ney Kadali along with reference accession namely Kadali and the data submitted for one season. KAU has filed the application for registration of FV Chavaniyankal Poovan and planting material of the same has been received at ICAR-NRCB for DUS characterization. They have been established in the DUS field for DUS characterization. The DUS data for the FV namely Numaran and Manoranjitham were resubmitted during 14th June, 2023 and the same have been successfully registered with PPVFRA and certificate received.

3.1.45 DUS TESTING CENTRE FOR NONI

ICAR- Central Island Agricultural Research Institute, Port Blair, Andman and Nicobar Islands

This centre has maintained Noni crop reference/example varieties, CIARI - Samapada, CIARI-Sanjivini, CIARI- Rakshak and CIARI-Samridhi were maintained at Garacharma and Sipighat farm under block (Vegetative propagated plantlets) and recording of phenotypic characters of the reference varieties.



The highest average fruit yield of 60.63 kg/tree was recorded in CIARI Dweep Sampada, which was comparable to CIARI Dweep Samridhi (58.34 kg/tree/year), followed by CIARI Dweep Sanjivini (43.70 kg/tree/year). The minimum fruit yield of 27.57 kg/tree/year was noted in CIARI Dweep Rakshak. Significant variations were observed between the different characteristics of the trees. The total fruit yield was higher than the previous year's harvest. However, there were variations in the mean fruit output per tree among the different types. It is important to note that CIARI Dweep Sampada had significantly highest mean weight with an average of 6.40 kg/tree in November, followed by CIARI Dweep Samridhi, (5.76 kg/tree/month) and the lowest fruit yield of 2.79 kg/tree was recorded in CIARI Dweep Rakshak.

3.1.46 DUS TESTING CENTRES FOR CORIANDER, FENUGREEK, FENNEL AND CUMIN

ICAR-National Research Centre on Seed Spices Tabiji, Ajmer, Rajasthan

DUS experiment of major seed spices (coriander, fenugreek, fennel and cumin) was laid out at NRCSS, Ajmer (Rajasthan) during 2023-24. In this experiment 38 varieties of coriander, (23 references and 15 candidates), 22 varieties of fenugreek (4 candidate), 20 varieties of fennel, 09 varieties of cumin were included for maintenance breeding. Ten plants in each entry were selected at random for recording DUS observations according to DUS guidelines at specified stages. During reporting period 15 candidate varieties of coriander and 03 candidate varieties of fenugreek were tested under DUS testing.

SEED SPICES, ISABGOL AND KALMEGH

ICAR- Directorate of Medicinal and Aromatic Plants Research, Anand, Gujarat



Maintenance of reference/example varieties of kalmegh (*Andrographis paniculata*) during the kharif season of 2023-24 a total of 24 reference/example varieties of kalmegh was maintained. Detailed characterization data for each of these reference varieties has been provided separately in conjunction with this report.

Maintenance of example/reference varieties of isabgol (*Plantago ovata*)

During the year 2023-24, eleven example varieties of isabgol (*Plantago ovata*) i.e. DMAPR PO1, DMAPR PO2, DMAPR PO3, DMAPR PO4, DMAPR PO5, DMAPR PO6, DMAPR PO7, DMAPR PO8, DMAPR PO9, DMAPR PO10 and DMAPR PO11 were maintained.

This center testing also candidate varieties of seed spices i.e. coriander and fenugreek under DUS at centre.

3.1.47 DUS TESTING CENTRES FOR MANGO



ICAR-Central Institute of Subtropical Horticulture, Lucknow, Uttar Pradesh

During 2023-24, DUS testing was performed and data submitted for 08 farmers mango varieties. The PPV& FRA Registration Certificate has been 15 farmer's mango varieties viz. MODIMANGO (REG/2021/200);

SHAMSHUL US SMAR (REG/2014/850); TAIMURIYA (REG/2014/837); GOL BHADAIYAA (REG/2014/839); AAMIN KHURD (REG/2014/841); MARKERA (REG/2014/846); HEERE HAYAT (REG/2014/847); NAYAB (REG/2014/848); GILAS (REG/2014/851); AAMIN TEHSIL (REG/2014/853); JOHRI SAFEDA (REG/2014/855); AAMIN ABBASI (REG/2014/856); AAMIN ABDUL AHAD KHAN (REG/2014/857); LAKHNAWWA SAFEDA (REG/2014/858); SURRIAYA (REG/2014/860). PPV & FRA Registration Certificate has been also been issued for (01) public sector variety i.e. AMBIKA (REG/2016/375).

DUS characterization of mango varieties (96) available in the field gene bank. The reference and farmer varieties (412) were maintained. One Awareness campaign for registration of mango farmers varieties was held in the area where farmers varieties of mango exist. Training cum awareness programs were organized to educate about benefits of registration of their varieties (Farmer's and extant) under PPV & FRA.

One of the collaborating DUS testing centre at ICAR-Central Institute of Subtropical Horticulture, RRS, Malda, West Bengal.

ICAR-Indian Institute of Horticulture Research, Hesarraghatta, Bengaluru, Karnataka

DUS testing of candidate varieties in 2023-24

Crops	New			VCK	Ref. Var.
	1 st year entries	2 nd year entries	3 rd year entries		
Mango	15	10	5		10

Varieties under maintenance/characterized:

Crops	Name (or) No of varieties under maintenance breeding in 2023-24
Mango	30

During the reporting period 2023-24, nine mango varieties from the DUS plot were analyzed for the fruit quality traits and results. A total of 30 farmers varieties and 10 reference varieties are being maintained for DUS Testing of 33 morphological characters as per DUS test guidelines. Two mango hybrids (Arka Udaya and Arka Suprabhath) and fourteen mango varieties were registered with PPVFRA. Candidate variety of Mango (American Beauty) was evaluated and observed.

3.1.48 DUS TESTING CENTRES FOR SUGARCANE (TROPICAL)

ICAR-Sugarcane Breeding Institute, Coimbatore, Tamil Nadu and Agali, Kerala



During 2023-24, DUS testing for tropical sugarcane varieties is being carried out at ICAR-Sugarcane Breeding Institute, Coimbatore (Lead Centre) and ICAR-Sugarcane Breeding Institute, Research Centre, Agali (Co-operating Centre), 246 tropical RVs (Reference Varieties) of sugarcane were raised through clonal propagation, at both the Centres of ICAR-SBI. The centres conducted DUS tests in five varieties: Phule-11082 (CoM 11082), Phule Sugarcane 15012 (MS 17082), CoA 14321, CoA 14323, and CoM 0265. Seed cane of two new varieties (NV), namely VSI 08005 (VSI 12121) from VSI, Pune, and Phule Sugarcane 13007 (MS 14082) from CSRS, Padegaon, for conducting DUS tests were multiplied.

Conduct of DUS test: The candidate variety CoA 14323 (NV) was tested with the RVs (CoC 773 and Co 7527) in respect of DUS traits viz., growth habit, ligule, inner auricle, leaf sheath curvature, internode shape, internode zig-zag alignment and growth crack. Though these two candidate varieties were distinct from their respective reference varieties, they differed from each other only for the traits viz., shape of ligule and leaf blade curvature. The Extant variety CoM 0265 (EV) was tested with the RVs (Co 87044 and CoN 07072) in respect of DUS traits viz., hairiness, ligule, inner auricle, colour of dewlap, leaf blade curvature, adherence of leaf sheath, internode shape, zig-zag alignment, growth crack, shape of bud, bud groove and budtip relation to growthring. One day Training-cum-awareness programme on PPV & FR Act conducted on July 31st 2023 at ICAR-Sugarcane Breeding Institute, Coimbatore. About 170 farmers, students and scientific professional of the Institute participated in the programme.

3.1.49 DUS TESTING CENTRES FOR SUGARCANE (SUB-TROPICAL)

ICAR-Sugarcane Breeding Institute, Lucknow, Uttar Pradesh

Maintenance of reference collection of sugarcane varieties: One hundred and eighty sugarcane clones were maintained as reference collection for the sugarcane DUS Testing during the crop season 2023-24. This reference collection includes all the identified, released and notified varieties from CVRC, varieties released from states and clones from Advanced Varietal Trials of AICRP(S) available with different research organization working on sugarcane. Observations on various morphological traits used for DUS testing were recorded on the sugarcane clones maintained in the reference collection as per the DUS Testing guidelines.

DUS Testing Trial: The status of DUS Testing during 2022-23 was as below:

1. DUS Testing Trial comprising of five sugarcane varieties viz. CoLk 11203, CoLk 11206, CoLk 12207, CoLk 12209 and Co 12029 has been completed during 2023-24. The certified DUS data of these five varieties along with the reference varieties for the two crop seasons have already been submitted to the Authority.



2. The DUS Testing Trial (2024-25/First year) comprising of 04 newly released sugarcane varieties i.e. CoLk 15201, CoLk 15207, CoLk 15466 and Co 16030 along with reference varieties has been planted at main DUS testing centre, Lucknow. The observations on DUS characters will be recorded as per the DUS testing procedure in sugarcane.

ICAR –Sugarcane Breeding Institute, Regional Centre, Karnal, Haryana

Maintenance of reference varieties (RV) of sugarcane: A total of 167 sub-tropical sugarcane reference varieties were maintained in field under the disease free conditions in a plot of size 6m L x 0.9 m spacing between rows x 2 R per RV at ICAR-Sugarcane Breeding Institute-Regional Centre, Karnal. Verification of DUS descriptors of reference varieties were undertaken as part of DUS characterization of the reference varieties.

The following category DUS reference varieties are being maintained at the centre:

BO series-17 varieties; CoP series-7; CoB series-1; CoBl series 8; CoH series 12; CoJ series 5; CoPb series 4; CoLk series 9; CoPant series 9; CoS series 50; CoSe series 14; CoPk 1; UP series 6 varieties, Co varieties 23.



Re-characterization of Reference Varieties: DUS traits of 167 RV maintained at ICAR-SBIRC, Karnal were verified /re-characterized during 2022-23 and the database of all the verified DUS reference varieties is being submitted to the PPV&FR Authority.

DUS testing for New Sugarcane Variety: First year DUS test of Co 13035 along with its reference varieties (CoPant 97222 and CoS 90269) and second year DUS test for two new sugarcane varieties viz., CoLk 11203 and CoLk 11206 was conducted at ICAR-SBI Regional Centre, Karnal along with reference varieties (CoS 8436, CoSe 0235, CoPant 84212 and UP 9530). A total of one hundred and sixty seedlings derived from single bud sets of each varieties, were transplanted into RBD design with two replications in the DUS testing field. The plot size of 4 Rows x 6 m length x 0.9 m row to row spacing was maintained. Observations on twenty seven morphological traits were recorded from the candidate as well as reference varieties. The result of 2nd year trial shows that the candidate variety CoLk 11203 and CoLk 11206 was distinct from each other as well as

from the reference varieties and the population of these varieties was uniform in both the years. The claimed /essential characters recorded from these entries had shown stable performance in second year as well.

First year DUS testing of Co13035 was completed as per the DUS testing guidelines of PPV&FR authority. DUS results indicate that the population of Co13035 was uniform during the first year trial.

3.1.50 DUS TESTING CENTRE FOR COCONUT

ICAR-Central Plantation Crops Research Institute, Kasaragod, Kerala

During the year 2023-24, 14 reference varieties of coconut has maintained and characterised at DUS centre. One candidate new variety was under DUS testing for fifth year.

DUS Testing of candidate coconut variety -REG2015/415

Growth measurements were recorded in candidate variety planted in DUS centre, and higher palm height, larger leaf, longer leaflet length, was recorded in candidate variety as compared to reference varieties. During the current year, flower initiation was observed in 75% palms in candidate variety, whereas 100% flowering was recorded in reference 1 and reference 2 and 25% flowering in reference 3 varieties. On site observations were undertaken on adult palms of the candidate variety Konkani Bhatye Coconut Hybrid-1, Reg 12015/415 at RCRS, Bhatye. Inflorescence characters were recorded during two seasons of November 2022 and 2023 while first set of tender nut and fruit characteristics were observed during in May 2023 and second set observation is to be undertaken during May 2024. Inflorescence length ranged from 90-130cm, stalk girth from 9-11cm, number of spikelet from 30-48 and female flowers from 12-26, while volume of tender nut water varied from 210-490 ml.

On site recording of data of the farmer's variety (Reg/2014/1949) was continued in the variety Edava long fibre coconut from Thiruvanthapuram. DUS table of characteristics was recorded from a total of two seedlings, two juvenile palms and fifteen adult palms from ten farmers plot viz., Samsudeen, Prasanna Kumari, N.S Babu, Usha Kumari, Prasad Kappil, Shailaja, S. Sreekumar, Sreenivasan, Leela.D.K, Rajendran, at Kappil, Edava panchayath, in consultation with Mr. S. Sreekumar, Secretary of Karshika Karmasena, Kappil, Edava, Trivandrum. Inflorescence length ranged from 80-120cm, stalk girth observed around 11.2-14.2, number of spikelet

recorded was 30-58 and female flower varied from 11-30. Seven month old tender nuts were harvested from the mother palms and tender nut water content ranged 410 ml- 610 ml. Mature fruits were harvested and studied and recorded for fruit characters.

3.1.51 DUS TESTING CENTRE FOR MENTHOL MINT, PERIWINKLE, DAMASK ROSE AND BRAHMI

CSIR- Central Institute of Medicinal and Aromatic Plants, Lucknow, Uttar Pradesh



CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, is one of the Nodal Points for the Protection of Plant Variety (PPV) and Farmers Right Authority (FRA) and is a recognized by National DUS Center for DUS testing of menthol mint (*Mentha arvensis* L.), periwinkle (*Catharanthus roseus* L. G. Don), damask rose (*Rosa damascena* Mill.) and brahmi (*Bacopa monnieri* L.) Pennell. At present, there are 14 varieties of menthol mint (vars. Saksham, Gomti, Kosi, Himalaya, CIM-Saryu, MAS-1, Kalka, CIM-Kranti, Shivalik, Kushal, Sambhav, Damroo, CIM-Vishisht, CIM-Unnati), 04 varieties of periwinkle (Dhawal, Nirmal, Prabal and CIM-Sushil), 02 varieties of damask rose, (Ranisahiba and Noorjahan) and one variety of brahmi (CIM-Jagriti), that are currently under maintenance and characterisation. The variety CIM-Kranti has been registered as Extant Notified Variety (ENV) with PPVFRA.

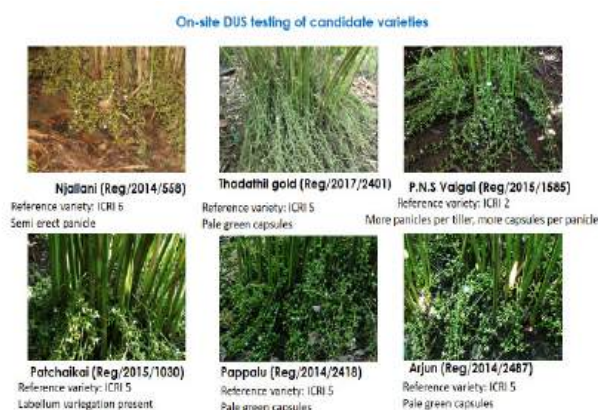


During the year 2023-24, routine maintenance of all the reference varieties belonging to all the four mandated crops was carried out at CSIR-CIMAP,

Lucknow in a separately designated conservatory named after “Phasal”. Apart from conservation of the mandated crops, all the reference varieties of menthol mint were cultivated in a Randomized Complete Block Design (RCBD) design with four replicates and afresh data on important descriptors as well as other yield related attributes of Menthol mint was collected and collated.

3.1.52 DUS TESTING CENTRE FOR BLACK PEPPER, SMALL CARDAMOM, GINGER AND TURMERIC

ICAR-Indian Institute of Spices Research, Kozhikode, Kerala



During 2023-24, ICAR Indian Institute of Spices Research is the nodal DUS testing centre for spices. Twenty one example varieties of black pepper are conserved at Chelavoor and CHES, Chettalli. Fifteen cardamom example varieties are being maintained at Regional Station, Appangala. Twenty three example varieties of ginger and 35 turmeric varieties are maintained at ICAR-IISR, Kozhikode.

On site DUS test evaluation was conducted for the candidate varieties of black pepper viz., MDBP 16 (Kondagaon, Chhattisgarh), VJ1, VJ 2, VJ 3 and VJ 4 (Shivamoga). The new candidate varieties, namely Hatte Saunth (ginger) and SK4 (turmeric), were planted for evaluation.

DUS test report of the candidate varieties of black pepper, namely Zionmundi, and cardamom varieties, namely Thadathil Gold, PNS Vaigai, Pappalu, Patchaikai, and Arjun, was submitted to the Authority. Additionally, facilitated the registration of ginger candidate varieties, viz., Adi Lo, Sitaram Adrakh, and Vajinath Adrakh, and turmeric varieties, viz., Santra, Kandaila Haldi, Gonda, Koirana, Hasogra Haldi, Budhram Haldi-1, Pahal Haldi-2, Dehati Haldi, Surkha, Siki Haldi, and Futi Haldi.

3.1.53 DUS TESTING CENTRE FOR DATE PALM

ICAR- Central Institute for Arid Horticulture, Bikaner, Rajasthan

During the period 2023-24, The 65 date palm genotypes in the national field repository were maintained and evaluated for flowering, fruiting, and yield-attributing characteristics. Out of these, 38 genotypes of diverse origins were analyzed for 26 morphological traits under the hot, arid conditions of western Rajasthan. The analysis included correlation and principal component analysis (PCA). The results revealed significant phenotypic variation among the date palm cultivars for the traits examined. PCA showed that several traits—such as leaflet length, number of thorns per rachis, number of bunches per plant, stalk length, number of strands per bunch, strand length, bunch weight, fruit weight, fruit and stone sizes, pulp-to-stone ratio, total soluble solids (TSS), and yield per plant—were highly variable among the genotypes. Additionally, the correlation coefficient analysis identified strong associations among various vegetative traits of different date palm cultivars.



3.1.54 DUS TESTING CENTRE FOR GRAPES

ICAR-National Research Centre for Grapes, Pune, Maharashtra

During the reporting period 2023-24, DUS center has maintained total 57 reference varieties of grapes, 40 characters as per DUS guidelines for 17 farmers candidate varieties. Also the data of grape reference varieties was collected from DUS plot at ICAR-NRC for Grapes, Pune comparison of the candidate varieties.

On-site DUS testing of Grapes

On-site DUS testing was carried out for 9 varieties as per various stages of vine development during the year. These include Sheegene 20, Inigrade one, Sheegene 21, Blagra Two, Sheegene 13, Sheegene 2, MACS-516, Utkarsha and Santy Seedless). Stage

specific observations were recorded as per DUS guidelines of grape. Consolidate report of these varieties submitted to PPV&FR Authority for further processing for registration.

During the period, 08 candidate grape varieties were granted for registration namely: santy seedless, Utkarsha, Sheegene 20, Sheegene 13, Sheegene 21, Sheegene 2, CHURGUN, RUKUCHAN.

3.1.55 DUS TESTING CENTRE FOR POMEGRANATE

ICAR-National Research Centre on Pomegranate, Solapur, Maharashtra



During 2023-24, 29 pomegranate reference varieties has been maintained and characterized for 36 DUS characters as per PPV&FRA guidelines. For *on-site* DUS testing visited the orchards of Mr. Ram Prakash Kesharwani (Village Lakhuri) and Mr. Deendayal Yadav (Village Behradih) at Janjgir-Champa (D), Chattisgarh to record the DUS characteristics of the candidate varieties (Lakhurianar and Anar). In both the cases of 'Lakhurianar' and 'Anar' varieties single plants of each variety were maintained without any proper management practices, hence could able to record only 15 stage specific DUS characteristic features. Further, it is suggested the farmers to raise the sufficient number of progenies of the varieties with good agricultural practices for complete evaluation of the candidate varieties as per DUS descriptor of PPVFRA, New Delhi.

3.1.56 DUS TESTING CENTRE FOR NEEM, KARANJ AND JATROPHA

Forest College and Research Institute Tamil Nadu Agricultural University, Mettupalayam, Tamil Nadu

During reporting period 2023-24, Forest College and Research Institute, TNAU, Mettupalayam is the

Nodal centre of DUS test centre for Neem and Karanj. In this centre, germplasm reference collection of Neem and Karanj was maintained since 2014. About 32 reference collection of Neem and 33 Reference collection of Karanj were maintained at this institute with different traits/descriptors (Pseudo qualitative, Qualitative and Quantitative traits). In Neem, totally twenty one (21) descriptors of which 11 essential and 10 descriptive characters were developed and standardized and in Karanj, totally twenty three (23) descriptors of which 13 essential characters and 10 descriptive characters were developed and standardized.



3.1.57 DUS TESTING CENTRE FOR JASMINE

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During the year 2023-24, jasmine varieties under maintenance breeding were characterized *J.sambac* (24 nos.), *J. auriculatum* (6 nos.), *J.multiflorum* (3 nos.) and *J.grandiflorum* (4 nos.) and six other lesser-known species (*Jasminum rigidum*, *Jasminum nitidum*, *Jasminum flexile*, *Jasminum malabaricum*, *Jasminum humile* and *Jasminum primulinum*) are being maintained in the field gene bank and characterized. The data has been submitted for *Jasminum sambac*, *Jasminum auriculatum*, *Jasminum multiflorum*, *Jasminum grandiflorum* genotypes and other lesser-known species (*Jasminum rigidum*, *Jasminum nitidum*, *Jasminum flexile*, *Jasminum malabaricum*, were evaluated based on the morphological characteristics and their corresponding states.



Genotypes under maintenance breeding were characterized in commercially cultivated *Jasminum* spp. viz., *J. sambac* (24 nos.), *J. auriculatum* (6 nos.), *J. multiflorum* (3 nos.), *J. grandiflorum* (4 nos.) and in seven other lesser-known *Jasminum* species.

The DUS test guidelines for *Jasminum* spp. has been published in the *Plant Variety Journal of India*.

Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu

During reporting period 2023-24, amended the DUS guidelines formulated for individual species and formulated Common DUS testing guidelines for *Jasminum* spp. genes wise.

The centre has maintained 65 genotypes belonging to following 12 species in the germplasm. DUS testing of candidate varieties has not yet commenced, since the common revised guidelines for *Jasminum* species were validated recently in December 2024.



Attended review meeting of DUS testing projects convened by the Registrar General of PPV&FRA, Dr. D.K. Agarwal (05.08.2023 and 02.02.2024) and presented the progress made in the project.

3.1.58 DUS TESTING CENTRE FOR BOUGAINVILLEA

ICAR-Indian Agricultural Research Institute, New Delhi

During 2023-24, total 80 reference varieties of bougainvillea have been maintained. The germplasm of different bougainvillea varieties have been procured by different institutes like PAU, Ludhiana, DFR, Pune, MHU Karnal and departments (CPWD,

Delhi Jal Board, NDMC), AIKGA, garden lovers of Delhi NCR region etc. Moreover, we have developed multicolour bougainvillea by different grafting techniques like side grafting, tongue grafting by using hard wood and soft wood scion of different varieties like Asia, Lady Mary Baring, Mary Palmer Special, Mahara, Zakriana and Hawain White etc. on root stock of Var. Chitra and R. R. Pal. Result showed that soft wood grafted scion of all the varieties gave better success percentage than hard wood scion grafting.

3.1.59 DUS TESTING CENTRE FOR GLADIOLUS

ICAR-Indian Agricultural Research Institute, New Delhi



During the year 2023-24, variety Pusa Sinduri was released and notified 04.05.2023. Another new gladiolus variety Pusa Rose Delight has been identified at divisional level vide DBRC on 04.01.2024. DUS centre has maintained 158 numbers of germplasm/ varieties and 93 hybrids excluding reference/ example varieties. Two years back 09 species of Gladiolus were received through NBPGR from South Africa such as *Carneus*, *Crassifolius*, *Dalenii*, *Hirsutus*, *Virescens*, *Two Carinatus* and two, *Tristis* are also maintained in tissue culture laboratory. As mentioned above that DUS data for our promising IARI newly released genotypes such as Pusa Sinduri, Pusa Shanti, Pusa Manmohak and Pusa Rajat have been recorded and maintained. Other activities such as harvesting/digging, cleaning, curing of corms for all reference and other varieties are under progress before sending to cold storage.

3.1.60 DUS TESTING CENTRE FOR CHRYSANTHEMUM

ICAR-Indian Agricultural Research Institute, New Delhi

The centre has maintained 154 varieties of Chrysanthemum were maintained among which 25 were evaluated based on DUS guidelines of PPVFRA during the reporting period 2023-24. Two candidate

varieties were under DUS testing under new variety category. The reference varieties were grouped as per DUS guidelines characteristics i.e. Plant type, variety class, flower head type, Ray floret, Disc type, flower type and economic use.



3.1.61 DUS TESTING CENTRE FOR CANNA, BOUGAINVILLEA AND GLADIOLUS

CSIR-National Botanical Research Institute, Lucknow, Uttar Pradesh

BOUGAINVILLEA

Total 202 varieties are conserved and maintained in the center as Reference Varieties. No candidate varieties were received during 2023-24. Measurements of morphological characters were done based on DUS Test guidelines and characters such as stem colour, thorn size, shape, leaf shape, size, bract colour, flower size and colour etc., of selected varieties were recorded, analyzed and photographed for identifying character and variations occurred within the varieties. Characterization of the following references varieties viz., Sea witch, Los Banos, Beauty Silver Margin, Lady Hudson of Ceylon, Poultoni Special, Dream was done along with their photographs of vegetative and reproductive parts.

CANNA

The germplasm (45 Canna varieties and five Canna species) are conserved in field beds (Area 3000 m²), designated for the DUS Test Centre by providing regular cultural practices around the year. Measurements of morphological characters were done based on DUS Test guidelines. The characters such as stem diameter, shape, length, leaf size, number, shape, colour, rhizome colour, diameter, number of eyes, inflorescence length, number of flowers, flower size, calyx size, corolla size shape, colour, staminode size, shape, colour, labellum size, shape, colour, fertile stamen size, colour, were recorded, analysed and photographed at DUS Test germplasm collection facility. Characterization of the following varieties viz., Wyoming, Red dazzler, King City Gold, Bangkok, Pink Sunrise were done,

along with their photographs of vegetative and reproductive plant parts.

GLADIOLUS



Total 74 exotic cultivars and 50 Indian-bred cultivars are conserved and maintained as reference varieties while no candidate varieties were received. Measurements of morphological characters were done based on DUS Test guidelines. The characters such as height, leaf length, width, colour, curvature, spike, rachis length, number of flowers / spikes, arrangement of flowers, shape, size, attitude, colour, etc., of 70 gladiolus varieties were recorded, analyzed and photographed to collect the information about distinct features of these varieties and use it as reference varieties for protection of other new varieties under PPV&FR Act, 2001. Characterizations of the following varieties viz., Nicole, Sahagun, Palampur Pride, Roshni, Garden Glory Orange were documented along with photographs of vegetative and reproductive plant parts.

Throughout the period spanning 2023 to 2024, a series of educational sessions and outreach initiatives focusing on floricultural crops were conducted via online platforms as well as traditional physical venues. These programs aimed to educate both participants and the wider public about the existence and significance of the DUS (Distinctiveness, Uniformity, and Stability) Test Centre dedicated to Bougainvillea, Canna, and Gladiolus."

Gladiolus Show: The Gladiolus germplasm maintained at the CSIR-National Botanical Research Institute (CSIR-NBRI) Botanic Garden was showcased during the 'Rose and Gladiolus Exhibition' conducted from January 20th to 21st, 2024, at the Botanic Garden premises of CSIR-NBRI, located in Lucknow. This event attracted over 5000 attendees.

3.1.62 DUS TESTING CENTRE FOR MARIGOLD

ICAR-Indian Agricultural Research Institute, New Delhi

During the reporting period 2023-24, 67 genotypes (including 23 reference varieties/ lines) of marigold

were maintained well following standard package of practices necessary for marigold crop. These varieties/lines were propagated in the nursery and transplanted in the main field at the Research Farm of Nodal/Lead centre i.e. Division of Floriculture and Landscaping, ICAR-Indian Agricultural Research Institute, New Delhi. The sexually propagated reference varieties / lines were subjected for selfing after flowering after roughing out undesired plants to maintain purity of genotypes. In addition, candidate varieties (New variety) i.e. trial code – MG22H1 & Trial code-MG22 H22 was also grown along with reference varieties for DUS testing.



ICAR Indian Institute of Horticultural Research, Hessarghatta, Bengaluru, Karnataka



During the period 2023-24, 18 varieties of marigold were maintained at DUS centre for maintenance breeding and characterisation. DUS data recording was done for a total of 18 varieties of which 11 are example varieties and remaining 7 were reference varieties. These eighteen are in addition to the candidate varieties under DUS testing MG22 H1 and MG22 H1 SMG candidate hybrids are Stable and Uniform, MG22 H1 and MG22 H1 SMG are distinct from candidate variety MG22 H2.

3.1.63 DUS TESTING CENTRE FOR SOYBEAN

ICAR-Indian Institute of Soybean Research, Indore, Madhya Pradesh

DUS Testing of candidate varieties:

7 candidate varieties were tested for 1st year for 19 morphological and 3 biochemical parameters.

Maintenance of soybean reference varieties (Released and notified soybean varieties)

157 released and notified soybean varieties were maintained during *Kharif* 2023 and characterized for morphological characteristics. These characteristics were critically observed for fine tuning of DUS Testing guidelines of soybean. The hypocotyl anthocyanin pigmentation was observed and found that there were variations in the intensity of anthocyanin pigmentation in the hypocotyl region of seedling which varied from very high to very low or absent. Moreover, some varieties fall under the absence category are having hypocotyl completely green without any anthocyanin and some varieties are having some degree of anthocyanin present in hypocotyls. The presence of hypocotyl colour is associated with flower colour. Pigmentation presence is linked to purple flower and absence is linked with white flower. Light pigmentation on hypocotyl was also linked with white flowers. The pattern of inflorescence was also studied and found significant variation for this trait. These characters are further under observation to check environmental impact on this character.

3.1.64 DUS TESTING CENTRES FOR ORCHIDS

ICAR-National Research Centre for Orchids, Pakyong, East Sikkim

During FY 2023-24, DUS characterization, digitalization and database management of Reference varieties of *Cattleya* (8 varieties), using 53 descriptors, *Cymbidium* (20 varieties) using 62 descriptors, *Dendrobium* (9 varieties), Mokara (7 varieties) using 61 descriptors, *Oncidium* (6 varieties) using 60 descriptors, *Paphiopedilum* (12 varieties) using 77 descriptors, *Phalaenopsis* (08 varieties) using 58 descriptors and *Vanda* (07 varieties) using 54 descriptors completed at DUS centre.

ORCHIDS AND CARNATION

Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan



During reporting period 2023-24, the example varieties of 30 cultivar of Carnation are being maintained at the experimental farm of the Department of Floriculture and Landscape Architecture at DUS testing centre through vegetative propagation which is a regular activity & required to be repeated different times of the year. In addition to these varieties 20 new varieties are also propagated following same procedure for laid out the fresh trial which was done during January 2024. The example varieties will be maintained and data record will be continued.

3.1.65 DUS TESTING CENTRES FOR ROSE

ICAR Indian Institute of Horticultural Research, Hessarghatta, Bengaluru, Karnataka



During the period 2023-24, the center has maintained 152 rose varieties consisting of reference and example varieties. The reference collection has categories of roses for cut flower, loose flowers, garden roses as well as for rootstock categories. The collection comprises of Indian as well as exotic rose varieties.

ICAR-Directorate of Floricultural Research, Pune, Maharashtra



A germplasm of 218 varieties consisting of both exotic and indigenous varieties are being maintained at the centre. During the year 10 new varieties and 5 wild species were collected from different sources. The selected varieties were screened for various traits. DUS characterization under Pune condition was carried out for 12 reference varieties in 2023-

24. Other germplasm is being maintained under field condition. The extreme heat and warm wind blow throughout the summer were also the reasons for dyeing many greenhouse varieties and newly planted young seedlings.

3.1.66 DUS TESTING CENTRES FOR CHINA ASTER AND CHRYSANTHEMUM

ICAR Indian Institute of Horticultural Research, Hessarghatta, Bengaluru, Karnataka

DUS China aster



During the period 2023-24, A total of 31 genotypes were characterized as per DUS test guidelines (10 vegetative traits and 11 flower traits). All 31 genotypes were multiplied and seeds were maintained in refrigerator).

DUS Chrysanthemum

A total of 90 genotypes were characterized for 77 traits as per DUS test guidelines.

Two Chrysanthemum candidate varieties namely NBRI-Pukhaj and NBRI-Himjyoti received for DUS testing. These varieties were multiplied through terminal cuttings and planted in main plot. The observations are under progress.

3.1.67 DUS TESTING CENTRES FOR CHINA ASTER

National Agriculture Research Project, Ganeshkhind, Pune, Maharashtra

During the period 2023-24, the centre has maintained eight varieties of China Aster Arka Pournima, Arka Kamini, Arka Shashank, Arka Archana, Phule Ganesh White, Phule Ganesh Purple, Phule Ganesh Violet and Phule Ganesh Pink at AICRP on Floriculture, Zonal Agricultural Research Station, Ganeshkhind, Pune.



3.1.68 DUS TESTING CENTRE FOR SUNFLOWER, SAFFLOWER, CASTOR

ICAR- Indian Institute of Oilseeds Research, Hyderabad, Telangana

The ICAR - Indian Institute of Oilseeds Research, Hyderabad is nodal centre for testing of three oilseed crops viz., castor, sunflower and safflower. The work done during April 2023 to March 2024 is presented below.

Dus Testing

CASTOR:



During *Kharif* 2023, one new candidate entry (2889/2174/H) along with two reference entries of castor (23CAIC6601 H and 23CAGV802 H) were sown (DOS 13.07.2023) for 1st year DUS testing as per test plot design defined in the guidelines. Data has been recorded for 30 DUS traits in accordance with the DUS test guidelines. Consolidated DUS testing report of two centres for castor new candidate entry 2889/2174/H along with two reference varieties is under compilation.

SAFFLOWER:

During *rabi* 2023-24, six coded entries including new candidate varieties and reference entries of safflower viz., 22Sf 1, 22Sf 2, 22Sf 3, 22Sf 4, 22Sf 5 and 22Sf 6 were sown (DOS 20.10.2023) for 2nd year DUS testing as per test plot design defined in the guidelines. Data has been recorded for 21 DUS traits in accordance with the DUS test guidelines and five post-harvest observations are in progress.

SUNFLOWER:

During *rabi* 2023-24, one new candidate entry (2889/2175/H) along with two reference entries of sunflower (23SURS8701 H and 23SULS7102 H) were sown (DOS 15.11.2023) for 1st year DUS testing as per test plot design defined in the guidelines. Data has been recorded for 26 DUS traits in accordance with the DUS test guidelines

and remaining eight post-harvest observations are in progress.

Characterization and Seed Multiplication

CASTOR:

Initial characterization of ten reference varieties (GCH-8, GCH-9, GNCH-1, ICH-66, JP-96, SKP-84, DCS-89, DCS-94, ICS-64 and PCS-124) was taken up in replicated trial with 5 rows of 6 m for each replication. Data has been recorded for 30 DUS traits in accordance with the DUS test guidelines and data is under compilation.

SAFFLOWER:

Initial characterization of six reference varieties (Nari-57, Nari-96, Phule Kiran, Phule Gold, Phule Nira and Phule Bhirava) was taken up in replicated trial with 3 rows of 5 m for each replication. Data has been recorded for 21 DUS traits in accordance with the DUS test guidelines and five post-harvest observations are in progress.

SUNFLOWER:

Initial characterization of seven hybrids (KBSH-78, KBSH-85, COH-3, PSH-1962, NDSH-1012, LSFH-171 and RSFH-1887), five A lines (CMS-1103A, CMS-903A, COSF-6A, NDCMS-30A and CMS-67A) and five R lines (RHA-92, GKVK-756, IR-6, R-893, P-93R) was taken up in replicated trial with 3 rows of 6 m for each replication. Data has been recorded for 26 DUS traits in accordance with the DUS test guidelines and eight post-harvest observations are in progress.

15 parental lines of sunflower viz. CMS-10A/B, CMS11A/B, CMS-17A/B, CMS-38A/B, CMS-67A/B, CMS-104A/B and CMS-234A/B were maintained and multiplied.

Submission of Dus Testing Reports

SAFFLOWER:

Consolidated data of six coded entries including new candidate varieties and reference entries of safflower viz., 22Sf 1, 22Sf 2, 22Sf 3, 22Sf 4, 22Sf 5 and 22Sf 6 tested during 2022-23 at 2 centres, ICAR-IIOR, Hyderabad and Dr.PDKV, Akola were submitted on 15.12.2023.

DSST, Tamil Nadu Agricultural University

This centre has maintained two crops Rice and Sunflower



RICE: Seeds of eighteen candidate varieties of rice and fifty six gazette notified varieties were received from the PPV & FRA, New Delhi during 2023-24. The characterization were carried out as per DUS test guidelines. Among the eighteen candidate varieties tested, the varieties showed difference for the following characters. Pubescence on blade surface was absent in the entries 2890/2092, 2890/2088, 2890/2083, 2890/2087, 23RIRN4804, 23RIBARI06, 23RILUIT07, 23RIBP0408 and all other entries showed weak leaf pubescence. The entries 2890/2083, 2890/2084, 2890/2085 showed erect culm attitude, while all other entries were found to be semi erect. Grain Phenol reaction of lemma was present in the entries 2890/2020, 2890/2091, 2890/2086, 2890/2087, 23RIKA302, 23RIBARI06, 23RILUIT07 and 23RISADA11. The entry 23RILUIT07 showed red colored grain. Endosperm content of amylose was very low in 2890/2084. The rice varieties CO(R)50, CO 51, CO 52, CO 53, CR 1009 Sub 1 and VGD 1 were used as zonal checks in the trial. The results were submitted on 24.08.2023. In addition, maintenance breeding was carried out for 10 rice varieties viz., CO 43 sub 1, CO 51, CO 52, CO 53, CO 54, CO 55, TKM 13, TKM 15, TRY 5 and VGD 1 as per the DUS guidelines.

SUNFLOWER : Seeds of three candidate varieties of sunflower viz., 2889/2175H, 23SULS 8701H and 23SULS 7102H were received from the PPV & FRA, New Delhi during 2023-24. The characterization were carried out as per DUS test guidelines along with TNAU reference varieties viz., COSF 5, COH 3 and COH 4. Among the three candidate varieties tested, the varieties showed difference for the following characters.

Time of 50% flowering was medium in 2889/2175H. The entry 23SULS8701H found to have medium leaf size and other two entries exhibited large leaf size. Angle of lateral veins was obtuse in 23SULS7102H. Orientation of leaf blade was erect

in 23SULS8701H. Among the entries Head diameter was small in 2889/2175H and 100 seeds weight was high in 23SULS8701H. The population of all the entries of candidate variety showed uniformity and there is no off-types.

3.1.69 DUS TESTING CENTRE FOR LINSEED, LENTIL AND FIELD PEA

ICAR- Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh



During the year 2023-24, 28 reference varieties of Linseed, 16 reference varieties of Lentil and 28 reference varieties of Field pea were maintained as per National Test Guidelines in three replications. In crop field pea four farmers' varieties were received from the Plant Varieties Registry, PPV&FRA, NASC, New Delhi, to carry out field based GOT as per statutory requirement of the PPV&FR Act, 2001. The guidelines and instructions of the PPV&FR Authority were followed while conducting the GOT and also follow crop specific DUS test guidelines, as applicable. All the precautions were taken to safeguard the interests of the PPV&FRA while conducting the tests and allow time to time inspection/monitoring by PPV&FRA officials/Monitoring team/applicants, as and when advised by the PPV&FRA. The field data duly recorded in field record note book; photos of claimed distinct characters, number of off types observed along with specific comments on the distinctiveness and uniformity are included in the report.

LINSEED

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh

Candidate varieties under DUS testing during 2023-24

1 st year entries	New	RV/VCK	Total
	2 nd year entries		
5	12	70	87

The proposed DUS trial was sown on 26.10.2023 adopting all recommended agronomical practices

time to time. The data were recorded on 10 tagged plants of each entry in three replications. Most of the entries were found homogeneous with optimum germination percentage.

Seventy RV were undertaken in varietal maintenance, the data have recorded as per guidelines. Harvesting was done as on maturity in three phases (Early, Medium and late). Harvested seed has been stored in optimum condition for further use.

3.1.70 DUS TESTING CENTRE FOR SESAME AND NIGER

ICAR- Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh



This centre are being maintained Sesame 91 and Niger 23 reference varieties for DUS testing purpose.

Two Farmers' varieties named 2889/2201 and 23GRGT1001 were evaluated during Kharif 2023-24. Farmers' variety 2889/2201 recorded profuse branching, dense petal and capsule hairiness, medium plant height, alternate capsule arrangement and showed late maturity. Also effect of powdery mildew showed higher than other varieties. Farmers' variety 23GRGT1001 showed higher stem pigmentation, profuse branching, sparse flower petal hairiness, sparse capsule and stem hairiness and showed late maturity. Out of 91 sesame references varieties which were maintained during Kharif 2023-24, cluster type capsule arrangement with more than one flower/leaf axil was observed in 14 varieties i.e. SOMA, SURYA, GT-2, GT-4, RT-351, N-32, PURVA-1, GJT-5 and GT-6, BRIJESHWARI (LTK-4), GT-1, VRI-2, PKV-NT-11 and T-85. Variety Prachi was found to be susceptible to insect Antigastra. Varieties VRI 3, Uma, RT 103, RT-125 were found to be early maturing and TMV 3, Prachi, GT 10, RT 346, Smarak, PKDS-8, TC-289, JLT-408, PRATAP, E-8, PURVA-1, SURYA, DSS-9, DS-5, DS-1, CO-1, VRI-1, TMV-6, HIMA and RT-46 were found to be late maturing.

3.1.71 DUS TESTING CENTRES FOR RAPESEED AND MUSTARAD

ICAR-Directorate of Rapeseed and Mustarad

Research, Sewar Farm, Bharatpur, Rajasthan



During 2023-24, a total of 26 candidate varieties/hybrids of Indian mustard were characterized using 24 DUS characters. Out of these, 18 varieties were characterized for 1st year while 08 hybrids were characterized for 2nd year. Out of 18 varieties one variety (23INVANA02) did not germinated. Apart from this, total 19 varieties of rapeseed-mustard were maintained through proper pollination techniques. Attended online exchange (Hybrid seminar) on "E-processing and management of DUS testing data in plant variety examination-using the example of rapeseeds-mustard under Indo-German Cooperation on Seed Sector Development on May 25-26, 2023 organised by PPVFRA, New Delhi. Participated in "First Global Symposium on Farmers Rights" organized by FAO, Rome and hosted by PPVFRA, Ministry of Agriculture, Govt. of India at NASC Complex, New Delhi from 12-15 September 2023. Also attended one day online webinar on "DUS & PVP data management" organized by PPVFRA, New Delhi on November 17, 2023.

Chandra Shekhar Azad University of Agriculture and Technnology, Kanpur, Uttar Pradesh

Candidate varieties under DUS testing during 2022-23

Crops	New		RV/ VCK	Total
	1 st year entries	2 nd year entries		
Mustard	18	8	5	31

The proposed DUS trial was sown on 26.10.2023 adopting all recommended agronomical practices time to time. Trial code 23INVANA02 seed was not germinated in all replications. The data were recorded on 10 tagged plants of each entry in three replications. Most of the entries were found homogeneous with optimum germination percentage.

Five RV were undertaken the data have recorded as per guidelines. Harvesting was done as on maturity in three phases. Harvested seed has been stored in optimum condition for further use.

3.1.72 DUS TESTING CENTRE FOR GROUNDNUT

ICAR-Directorate of Groundnut Research, Junagadh, Gujarat



During the year 2023-24, DUS testing centre has maintained 30 reference varieties of Groundnut for testing of candidate varieties at ICAR-DoGR, Junagadh. During *Kharif* 2023, Four entries (2889/2156, 2889/2204, 23GRGG201, 23GRSG3402) for DUS characterization were received during 11.07.2023. Because of continuous heavy rains, cyclone and successive floods, DUS characterization was not carried out as the sowing window is over. The lines were stored in cold storage module for next *Kharif* season testing.

3.1.73 DUS TESTING CENTRES FOR TUBEROSE AND CARNATION

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During the year 2022-23, DUS testing centre has maintained 30 reference varieties of Tuberose and 50 reference varieties of Carnation at ICAR-IIHR, Bengaluru

TUBEROSE

A reference collection of 30 genotypes of tuberose along with 15 breeding lines were being maintained under field gene bank for maintenance breeding. Observations were recorded for some of the important grouping characteristics such as leaf variegation, pigmentation on leaf base, bud colour, flower type, flower shape, spike length, stigma type, stigmatic lobes, pigmentation on peduncle, days taken for flowering and number of locules in fruit. 05 accessions of tuberose were characterized. Arka Prajwal and Arka Sugandhi tuberose varieties were

registered with PPV and FRA in extant category.

CARNATION

A reference collection of 50 accessions of carnation were multiplied and being maintained under field gene bank for maintenance breeding. Observations were recorded for the important grouping characteristics such as plant type, flower type, petal (main colour) and petal (secondary colour), qualitative and quantitative characters.

TUBEROSE

ICAR- Directorate of Floricultural Research, Pune, Maharashtra



Under DUS testing of tuberose, 37 varieties which included 22 single types and 15 double types were planted freshly during April and June 2023 respectively. One reference genotype, Calcutta Single was added to the germplasm collection. The DUS testing of the reference variety 'Calcutta Single' is in progress during 2023-24, at Co-Nodal Centre (ICAR-Directorate of Floricultural Research, Pune). All the reference varieties and four of the new varieties have been evaluated during 2023-24.

Also, application for registration of new variety of tuberose denomination Sahyadri Vaman has been submitted to PPVFRA dated April 18, 2023.

Successfully conducted Training-cum-Awareness Programme on Protection of Plant Varieties and Farmers Rights (PPV&FR) Act 2001, in collaboration with PPVFRA, New Delhi and Pawana Flower Growers Association, Pawananagar at NIPHT, Talegaon Dabhade, Maharashtra on July 24, 2023.

3.1.74 DUS TESTING CENTRE FOR CROSSANDRA

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During the period 2023-24, establishment of new DUS plot was done for Crossandra. Cuttings were taken from existing mother plants of Crossandra genotypes on 18th July 2023. Multiplications of

cuttings were carried out in mist chamber for establishing the new DUS plot.



The established rooted cuttings of Crossandra were planted on 23rd November 2023 at plant to plant spacing of 60 cm in raised beds of 30 cm height. Irrigation was provided with inline drippers. All the reference collections were multiplied vegetatively through terminal cuttings. These reference collections are maintained in the field gene bank. 15 Crossandra genotypes Arka Chenna, Arka Shreeya, Arka Shravya, Arka Kanaka, Arka Ambara, IIHR-CN-1, IIHR-GC-1, IIHR-1, IIHR-2(Mutant 2), IIHR-3, IIHR-4(Mutant 3), IIHR-5, IIHR-AP-1, IIHR-BL-1 and IIHR-ML-1 were characterized for the following vegetative traits as per the DUS guidelines for the conduct of test. New genotypes of crossandra viz, Bangalore Local Orange, Mangalore Local, Chitvel local, Bangalore Local Yellow, Crossandra dark red, Crossandra light red/pinkish, Crossandra lemon yellow were collected and are being characterized. The following three crossandra hybrids / varieties were gazette notified on March 14, 2024: Arka Kanaka for states of Maharashtra, Telangana and Karnataka; Arka Chenna for states of Maharashtra and Karnataka and Arka Ambara for Karnataka

**Dr. Y. S. R. Horticultural University,
Venkataramannagudem, Andhra Pradesh**



During 2023-24, Horticultural Research Station, Anantharajupeta under Dr. Y. S. R. Horticultural

University, Venkataramannagudem, Andhra Pradesh collect 08 varieties of Crossandra among them 6 collections ACS-1, ACS-2, ACS-3, ACS-4, ACS-5, ACS-6 were from Pakala, Y.Kota, Nagiri, Bynapalli, Puttur, Obulapalli, Railway kodur of Andhra Pradesh and two collections i.e Ratan aboli and Pishi aboli from Goa region and 5 reference varieties i.e RF1.Arka kanaka, RF2- Arka Shravya, RF3-Arka shreeya, RF4-Arka chenna, RF5-Arka ambara have been raised for conduct of DUS Test for 17 qualitative & quantative characters as per DUS test guidelines for the year 2023-24. Characterization of DUS new collections were under progress. it is the second centre for Crossandra, some more traits will be obtained from IIHR, Bangalore (1st DUS centre for Crossandra) during this year for evaluation.

3.1.75 DUS TESTING CENTRE FOR JACKFRUIT

**University of Agricultural Sciences, Gandhi
Krishi Vigyan Kendra, Bangalore**

During the period 2023-24, DUS testing centre has maintained total 90 example/reference varieties out of which 30 is a yielding varieties.



1. On-site DUS testing of fourteen farmers candidate varieties Viz. HALADI RUDRAKSHI-JAR, ORANGE-RPN, KEMPU RUDRAKSHI-DSV AND RED-RTB, Janagere, KT-17, Nelagudige Red, KT-13A, KT-13B, NR-1, SBM-1, SBR-1, SCT-1 and TEJU has been completed in 2023-2024 and the report submitted to PPV& FRA, New Delhi.
2. On site DUS testing of two farmers varieties TRS-1 and TKK-1 is being carried out during the year 2024-2025
3. New Jackfruit Variety GKVK Red Jack released from UAS, GKVK, Bangalore. GKVK Red Jack is early bearing variety with medium sized fruit. The fruits can also be used for household purpose if the trees are grown in kitchen garden. Fruits with coppery red flakes are very firm, crispy and possess small seeds. Thus, the variety

is suitable both for table purpose as well as for value addition into Jam, Juice, Squash, and pulp.

4. The Jackfruit varieties Lalbagh Madhura, Byrachandra and GKV Red Jack proposals are accepted in State variety release committee meeting held at UAHS Bagalkot.

3.1.76 DUS TESTING CENTRES FOR GREATER YAM AND YAM BEAN

ICAR- Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala

During 2023-24, nodal centre for Greater Yam and Yam bean at ICAR-CTCRI, Thiruvananthapuram, Kerala has maintained 461 greater yam germplasm maintained at CTCRI comprise of land races, exotic accessions, mutants and hybrids and 24 yam bean reference/example varieties at field gene bank. The DUS characters of these varieties were recorded. The planting material has been multiplied and the trials were planted for further evaluation.

ICAR- Central Tuber Crops Research Institute, Regional Station, Bhubaneswar, Odisha



Maintained the field gene bank with 14 greater yam accessions, including seven reference lines and seven lines obtained from Andaman, Port Blair, through the Plant Genome Saviour Community Award, all preserved at the DUS gene bank. The distinctive traits of each reference line for Greater yam and Yam bean have been identified and recorded for 15 traits in greater yam and 17 traits in yam bean as per DUS test guidelines PPVFRA. Harvesting and stored in storage room for planting in next season. Maintained in *in vitro* as Bhubaneswar is cyclone prone area.

Progress report of Greater yam and yam bean has been reviewed by Dr. Trilochan Mohapatra, Chairman, PPV&FRA, New Delhi during Regional Workshop on PPV&FRA Act, 2001 and Exhibition

of Agro-biodiversity on 12th May 2023 at ICAR-NRRI, Cuttack, Odisha. Showcased different DUS characters of both greater yam and yam bean during the Exhibition.

3.1.77 DUS TESTING CENTRE FOR SEABUCKTHORN

Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh



During reporting period 2023-24, DUS centre has maintained 13 reference varieties of Seabuckthorn, there are four farmer varieties which are under observation/ on-site DUS were conducted with the approval of PPVFRA and continued for further evaluation and data recording. This year, the farmer varieties were observed 'On-site testing' from where the recording of the appropriate characters pertaining to morphological data on Qualitative (QL), Pseudo qualitative (PQ) and quantitative characteristics (QN) of plant, leaf, thorns, fruit and seed were recorded in the field was further compared with the example varieties for further evaluation of these varieties by which the similarity between the maintenance varieties in gene pool areas of the species and farmer varieties worked out on the basis of DUS Guidelines on Seabuckthorn.

3.1.78 DUS TESTING CENTRE FOR TEAK AND MELIA

Institute of Forest Genetics and Tree Breeding, Coimbatore

During the reporting period 2023-24, Characterization of *Melia dubia* was carried out for reference clones planted at Pannampalli research station in Kerala, Anaikatti in Kerala, and Thalamalai in Tamil Nadu. Each germplasm has 23 reference clones, with 8 ramets per clone. As per the notified guidelines, DUS testing was conducted

through visual assessment by single observation of a group of plants or parts of plants (VG) as well as through single measurement of a group of plants or parts of plants (MG) using 25 morphological characters. Identified two plots at Thangamalai Karadu: Gobichettipalayam, Erode district, and Savakattupalayam-Nambiyur, Erode district and conducted DUS testing in GK10, a candidate clone. Eighteen trees in 1 block planted in uniform spacing were considered for on-site testing with an age range of 3–4 years. All the quantitative and qualitative traits were noted and analyzed through VG and MG method, and procedures for registration has been completed. The floral characters were analyzed using microscope. In addition to this, stomatography of all the clones were carried out to study about the variabilities among them and the paper is under review.

This centre belongs to Teak (*Tectona grandis* L.) crop also which has been notified in Gazette of India [S.O. 2221(E)], dated 18.05.2023 and it is open for registration under all categories. PI has maintained 100 teak reference/example varieties at DUS center.

3.1.79 DUS TESTING CENTRE FOR MINOR SEED SPICES (AJWAIN, DILL, NIGELLA, CELERY AND ANISE)

National Research Centre on Seed Spices, Tabiji, Ajmer, Rajasthan

During reporting period 2023-24, the following reference varieties has maintained at DUS centre

S. No	Crop species	Source of varieties	Name of the varieties
1.	Ajwain	ICAR & SAU'S	AA-1,AA-2,AA-93,NDaz-20,LS-1,LTa-26,GA-1,GA-2
2.	Dill	ICAR & SAU'S	AD-1,AD-2,GD-1,GD-3,GAVD-1
3.	Nigella	ICAR & SAU'S	AN-1, AN-20, Pant Krishna, Azad Kalongi, NDBC-10
4.	Celery	ICAR-NRCSS	A-Cel-1, A-Cel-5, A-Cel-6,Karnouli-4
5.	Anise	ICAR-NRCSS	AAAni-1, AAni-17



DUS experiment of minor seed spices (ajwain, dill, nigella, celery and anise) were laid out at ICAR-NRCSS, Ajmer (Rajasthan). In this experiment 8 varieties of ajwain, 5 varieties of dill, 5 varieties of nigella, 4 varieties of celery and 2 varieties of anise were included to maintenance of reference varieties. Observations were recorded on various growth stages of concern crop plants.

3.1.80 DUS TESTING CENTRES FOR COWPEA

University of Agricultural Sciences, Dharwad, Karnataka



During reporting period 2023-24: The project focused on 49 distinct Cowpea varieties, including 28 grain types, 4 vegetable types, and 17 fodder types. The importance of DUS characterization in preserving genetic diversity, ensuring plant variety protection, and promoting sustainable agriculture is highlighted. Comparative DUS morphological traits observation studies were made among 49 Cowpea reference collections. Maintenance breeding contributes to the conservation and preservation of diverse Cowpea collections as reference varieties that are carefully selected considering the range of diversity existing for each of the DUS trait (24 DUS traits in grain type; 19 DUS traits in Vegetable type and 06 DUS traits in fodder type) which involves majorly improved released varieties and cultivated in different cowpea growing states of India. This genetic diversity serves as a valuable resource for future breeding efforts, ensuring the resilience

and adaptability of cowpea crops to evolving challenges. The previously mentioned varieties were meticulously maintained for purity through rigorous self-pollination of ten representative plants identified based on individual Varietal DUS traits, using selfing nets. Subsequently, plant selections were practiced representing the variety, during harvest in accordance with the Cowpea Distinctness, Uniformity, and Stability (DUS) guidelines established by the Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA) in New Delhi. DUS traits were meticulously recorded at all the appropriate stages of crop growth as stipulated in the Cowpea DUS guidelines. Key DUS traits included Days to 50% flowering, Growth habit, Climbing tendency, Plant type, Pod shape, Seed shape, and Seed color, among others. The document includes important photographs illustrating distinct DUS traits.

3.1.81 DUS TESTING CENTRES FOR FABA BEAN

ICAR-National Bureau of Plant Genetic Resources, New Delhi



During the period under report, sixteen varieties were sown at ICAR-NBPGR, Issapur, and Delhi farm for multiplication / recording of observations during Rabi 2022-23 at DUS centre. The genotypes were protected by insect-proof nets during the flowering period to avoid cross-pollination and to maintain the genetic purity. Data of 27 traits were collected on the 16 varieties/ reference genotypes and after harvesting, the seeds were stored in Medium Term Storage at Division of Germplasm Evaluation, ICAR-NBPGR, New Delhi for growing during Rabi 2023-24. For faba bean crop second DUS centre established at Department of Plant Breeding & Genetics, PAU, Ludhiana.

3.1.82 DUS TESTING CENTRES FOR BUCKWHEAT AND GRAIN AMARANTH

ICAR-NBPGR, RS, Phagli, Shimla, Himachal Pradesh



This centre work on two crops i.e. Buckwheat and Grain Amaranth, DUS evaluation of buckwheat reference genotypes was accomplished during 2023-24 following the DUS guidelines of PPVFRA. The experimental material comprised 21 reference genotypes of buckwheat involving fourteen of *F. tataricum* namely Shimla B-1, Shimla B-3, Sangla B-1, Sangla B-5, Himpriya, Himpaphra, Sangla B-214, Sangla B-118, Sangla B-129, IC 109729, IC 14889, IC 412722, IC 26594 and IC 258233, and seven of *F. esculentum* namely IC 274426, EC 323730, IC 17371, Shimla-B-2, VL-7, PRB-1 and IC 202226 were used in the study. The experiment was conducted in randomized block design with three replications. Data was recorded in accordance with DUS guidelines for all the 17 characters consisting of seven qualitative. 22 reference/example varieties of grain amaranth namely Annapurna, Durga, Suvarna, PRA 1, PRA 2, Gujarat Amaranth 1, Gujarat Amaranth 2, Gujarat Amaranth 3, BGA 2, VL 44, VL 101, VL 102, IC 17936, IC 21795, IC 38129, IC 42371, EC 169657, IC 7918, IC 7920, IC 7941, IC 21925 and EC 150200 have been characterized as per DUS guidelines of PPVFRA and being maintained at DUS centre. The grain amaranth reference genotypes were evaluated in a randomized block design with three replications. Data was recorded as per DUS guidelines comprising of eight qualitative.



3.1.83 DUS TESTING CENTRES FOR BUCKWHEAT

CSK HPKV, MAREC Sangla, Kinnaur, Himachal Pradesh



During *Kharif* 2023, twenty reference varieties of buckwheat were maintained under maintenance program at CSK HPKV, Mountain Agriculture Research and Extension Centre Sangla, Kinnaur following all the recommended package of practices. Data for different traits such as seedling traits, leaf traits, plant growth traits, flower traits, yield traits, seed traits etc. was recorded according to DUS Guidelines and presented in the coded form. During four training cum awareness programme conducted during 16th-19th November, 2023 in different areas of district Kinnaur on topics seed production & maintenance, status & importance, post-harvest management & value added products of buckwheat in tribal area under TSP programme of AICRN on Potential Crops. In each camp 50-55 farmers were presented from the surrounding areas. During these programmes farmers were motivated for the conservation and registration of buckwheat which is an important crop of their region and also educated about the role of PPV&FRA.

3.1.84 DUS TESTING CENTRE FOR COFFEE

Central Coffee Research Institute, Chikmagalur, Karnataka

During the period 2023-24, DUS testing centre has maintained 12 arabica varieties and robusta since 2018-19. One robusta (dwarf robusta) and one Arabica (S. 4595) was planted in the reference block at CCRI. This year, a total of 180 plants of different station selections were planted in supply positions to consolidate the DUS plot. The variety-wise observation was recorded for the grouping characters in reference varieties whichever was not completed earlier, based on DUS guidelines.

3.1.85 DUS TESTING CENTRE FOR FCV (FLUE CURED VIRGINIA) AND BIDI TOBACCO

Central Tobacco Research Institute, Rajahmundry, Andhra Pradesh

During the period 2023-24, the centre has maintained and characterised the reference varieties of 32 FCV varieties (16/103, Bhavya, CH-1, CH-3, Chatam, CM 12, CTRI Spl, CTRI Spl (MR), CTRI Sulakshana, Delcrest, Dhanadayi, FCV Special, Gauthami, Godavari Spl, Hema, Jayalakshmi, Jayasri (MR), Jayasri, Kanakaprabha, Kanchan, Mc Nair-12, N-98, Rathna, Siri, Swarna, VT-1158, Thrupthi, Kanthi, Hemadri, Sahyadri, FCH-222 and LT-Kanchan) and 16 bidi varieties (A 119, A 145, A 2, ABD 19, ABD-54, ABT 10, Bhagyasree, GABT-11, GT 4, GT 5, GT 6, GT 7, GT 8, GT 9, GTH-1 and NPN 190) under maintenance breeding programme.

3.1.86 DUS TESTING CENTRE FOR GERBERA

ICAR-Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bengaluru, Karnataka

During the period 2023-24, the centre has maintained 12 genotypes example/reference varieties of Gerbera were characterized for 33 traits as per DUS testing guidelines PPVFRA. The colour photos of distinct traits were taken for distinctiveness and recorded with the help of RHS colour chart.

3.1.87 DUS TESTING CENTRE FOR COCOA

ICAR- Central Plantation Crops Research Institute, Vittal, Karnataka



During the period 2023-24, DUS centre has maintained 31 clones of Cocoa as example/reference varieties. Example varieties were multiplied as grafts for gap filling. Thirty one cocoa genotypes including 21 hybrids and 10 elite clones were observed and classified based on three each of leaf and flower characters, twelve fruit and six bean traits and fat content as qualitative parameter in the form of multiscale scores given by DUS guidelines. Apart from the DUS characters, there were some noticeable variations in the selected genotypes for types of staminodes in flowers, sweetness of pulp and fresh bean colour, which can act as morphological markers to streamline the identification further and act as field guide to researchers.

3.1.88 DUS TESTING CENTRE FOR RADISH AND CARROT

ICAR-Institute of Agricultural Research Institute,
New Delhi



During the period 2023-24, 14 reference varieties of carrot and 16 reference varieties of radish were maintained. One Farmers variety of carrot was characterised for DUS traits along with the reference variety and data (plant wise replicated data, Certified, both soft copy and hard copy) along with photographs for DUS traits have been submitted to PPVFRA.

ICAR-Institute of Agricultural Research Institute,
RS, Katrain, Kullu, HP



During the period 2023-24, this center 23 reference varieties of Carrot (Pusa Nayanjyoti (Hybrid), Pusa Yamdagini, Nantes, Pusa Nayanjyoti (A-line), Pusa Nayanjyoti (B-line), Pusa Nayanjyoti (C-line), Pusa Vrishti, Pusa Vasuda, Pusa Rudhira, Pusa Kulfi, Pusa Asita, Hisar Gairic, Kuroda-T-Strain, Kuroda-S-Strain, Ashwini, HVCR-003, Punjab ki Rani, KSP-135, KSP-

5333, Solan Carrot-5, Samson-196, Red Lady, and Solan Rachna) and 14 reference varieties of Radish (Rapid Red White Tipped, Japanese White, Pusa Himani, Punjab Safed, Hisar Sweti, Pusa Mridula, White Icicle, Arka Nishant, Pusa Shweta, Kashi Hans, Pusa Chetki, Pusa Gulabi, Chinese Pink, Punjab Pasandwas) its have been characterized, purified and fully maintained. Two farmer's varieties of carrot viz., 2890/2082 and 23-CAPUTA01 were tested under DUS testing.

3.1.89 DUS TESTING CENTRE FOR DOLICHOS BEAN

ICAR-Indian Institute of Horticultural Research,
Hessarghatta Lake Post, Bengaluru, Karnataka



During the period 2023-24, 13 varieties of Dolichos along with reference varieties (05 number bush types varieties Arka Jay, Arka Vijay, Arka Sambhram, Arka Soumya and Arka Amogh and 08 numbers pole types varieties Arka Swagath, Arka Krishna, Arka Vistar, Arka Supriya, Arka Pradhan, Arka Prasidhi, Arka Adarsh and Arka Bhavanai) has maintained in the field. Breeder seed production of above varieties was undertaken and at present around 10kgs of breeder seeds are maintained in each of all the varieties.

3.1.90 DUS TESTING CENTRE FOR ASH GOURD, SNAKE GOURD & IVY GOURD

ICAR-Indian Institute of Vegetable Research,
Varanasi, Uttar Pradesh



During the year 2023-24, The centre has maintained three crops 09 Ash gourd, 05 Snake gourd and 05 Ivy gourd reference/example varieties at centre. The seed and planting material

of reference and example varieties of ash gourd, ivy gourd and snake gourd was collected from different sources and locations. As the project was sanctioned during November 2023, hence seed of reference and example varieties of ash gourd and snake gourd will be sown in Kharif 2024 (June-July), whereas planting material of ivy gourd was planted in February, 2024 for maintenance, multiplication and testing of candidate varieties.

3.1.91 DUS TESTING CENTRE FOR SAFFRON

Saffron Research Station, SKUAST-K, Pampore, Jammu & Kashmir



During the period 2023-24, DUS centre has maintained 268 reference/example varieties and out of which 43 saffron varieties were characterized at centre. The new collection and enrichment of saffron reference varieties represent a pivotal endeavor in the continued advancement of saffron cultivation which involves a strategic and systematic approach to augmenting the existing genetic diversity within saffron population. By incorporating diverse saffron genotypes from different geographical regions and genetic backgrounds aims to broaden the genetic pool available to us through meticulous characterization and evaluation of these new saffron varieties. In this pursuit, 43 saffron germplasm lines were collected from diverse locations of Jammu & Kashmir valley and were planted at the experimental field of ARSSSS, SKUAST-K Pampore. All the lines were characterized using DUS saffron descriptor of PPV & FRA New Delhi.

3.1.92 DUS TESTING CENTRE FOR KALAZEERA

Saffron Research Station, SKUAST-K, Pampore, Jammu & Kashmir

During the period 2023-24, DUS centre has maintained 74 reference/example varieties and out of which 17 seed germplasm of Kalazeera and 21 Tuber germplasm of Kalazeera varieties were characterized at centre. Total 38 Kalazeera germplasm lines (17-seed & 21-tuber) were collected from different regions and genetic backgrounds of J&K, expanding

the available genetic pool. The collected material was planted at the Advanced Research Station for Saffron and Temperate Seed Spices, SKUAST-K Pampore. Amongst the seed germplasm, variability was observed in crop duration, seedling colour, and plant height, while in tuber germplasm, variability was noticed in terms of foliage colour, flower colour, number of branches per plant, umbel shape, etc. were observed. Furthermore, a unique germplasm line with a bush-type plant structure having >7 primary branches was also observed. At present, the crop is at the flowering stage and the complete report will be submitted after the completion of the crop cycle.



3.1.93 DUS TESTING CENTRE FOR HORSEGRAM, MOTHBEAN, CLUSTERBEAN

During the period 2023-24, Two DUS centre send proposal to establishment of DUS testing centre one is UAS, Dharwad, this centre has maintained reference/example varieties of Clusterbean-23, Mothbean - 28 and Horsegram -32 and second is ICAR-CAZRI, Jodhpur, Rajasthan this centre has maintained two crops reference/example varieties i.e. Clusterbean -28 and Mothbean -17 file is under process. DUS testing guidelines of Horsegram, Mothbean, Clusterbean has been notified in Gazette of India [[S.O. 5402 (E)], dated 18.11.2022 and it is open for registration under all categories.

3.1.94 DUS TESTING CENTRE FOR KOKUM

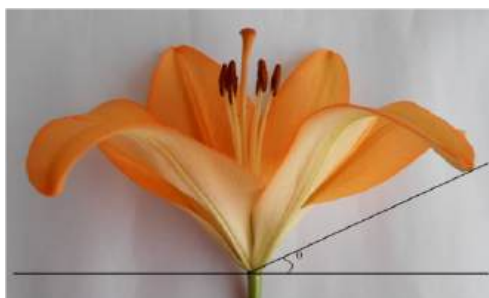
Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Ratanagiri, Maharashtra



During the period 2023-24, the development of DUS testing guidelines of Kokum crop has been notified in Gazette of India [S.O. 1540 (E)], dated 22.03.2024 and it is open for registration under all categories. This centre has been maintained 2 reference and 42 example varieties of Kokum at Dr. BSKKV, Dapoli. Accordingly, this center has converted into DUS testing center.

3.1.95 DUS TESTING CENTRE FOR LILIUM

Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan



During the period 2023-24, the development of DUS testing guidelines of Lilium crop has been notified in Gazette of India [S.O. 1540 (E)], dated 22.03.2024 and it is open for registration under all categories. This centre has been maintained 31 example varieties of Lilium (Asiatic Hybrid- 13, LA hybrid-11 and Oriental hybrid-7) at Dr. YSPUHF, Nauni, Solan. Accordingly, this center has converted into DUS testing center.

3.1.96 DUS TESTING CENTRE FOR OLIVE

ICAR-Central Institute of Temperate Horticulture, Srinagar



During the period 2023-24, the development of DUS testing guidelines of Lilium crop has been notified in Gazette of India [S.O. 1540 (E)], dated 22.03.2024 and it is open for registration under all categories. This centre has been maintained 14 example varieties of Olive at ICAR- Central Institute of Temperate Horticulture. Accordingly, this center has converted into DUS testing center.

3.1.97 DUS TESTING CENTRE FOR ANTHURIUM

College of Horticulture, Mudigrere, Chikamgalur, Karnataka



During the period 2023-24, the development of DUS testing guidelines of Anthurium crop has been notified in Gazette of India [S.O. 1540 (E)], dated 22.03.2024 and it is open for registration under all categories. This centre has been used approximately 70-80 example varieties of Anthurium for development of DUS testing guidelines.

3.1.98 DUSTESTINGCENTREFORASHWAGANDHA

CSIR-Central Institute of Medicinal & Aromatic Plants, Lucknow



During the period 2023-24, the development of DUS testing guidelines of Ashwagandha crop has been notified in Gazette of India [S.O. 1540 (E)], dated 22.03.2024 and it is open for registration under all categories. This centre has been maintained 12 Ashwagandha reference varieties at CSIR-CIMAP, Lucknow. Accordingly, this center has converted into DUS testing center and one Ashwagandha variety CIM-Pushti is under process to send the Authority for registration under PPVFR Act, 2001.

3.2 GENE BANKS OF PPV&FRA

As per Section 27, of PPV&FR Act, 2001, a breeder has to deposit seeds and propagating material including parental line seeds of registered variety in the National Gene Bank, as may be specified in the regulations for reproduction purpose.

The National Gene Bank of PPV&FRA was established at ICAR-NBPGR Old Campus for medium term storage of orthodox or true seeds (e.g. rice, wheat, maize, sorghum, tomato, rapeseed-mustard, jute etc) of candidate varieties for plant variety registration purpose at PPV&FRA.

However, for fruit trees (like coconut, mango and citrus), plantation species (like eucalyptus and poplar), spices (black peppers, ginger and turmeric), commercial species, like rubber, that either produces recalcitrant (seed normally do not withstand desiccation or low temperature storage and are not easy to store under conventional storage conditions) seeds having long regeneration cycles or sexually sterile, no seeds at all or species that are normally clonally propagated (sugarcane and potato), planting material of these species are conserved at Field Gene Bank under *ex situ* conditions. Since the diversity of the genetic resources is abundant near the places of primary or secondary centres of origin or domestication, the species concerned are also adapted to the local agro-climatic conditions (like soil, water, temperature etc), field gene bank are also strategically established in these areas.

The Field Gene Banks facility will also be used as a repository of the varieties released (referral collection) from different geographical contexts having sub species/ intra varietal variability and conserved at one place. Field Gene Bank will also maintain specimen plants of the varieties registered under the PPV&FRA Act, 2001. Documentation regarding source, parentage, morphological/ sexual/ value for cultivation characteristics, digitalization and database management will help in resolving technological issues and dispute settlement.

3.2.1 NATIONAL GENE BANK, NBPGR OLD CAMPUS, NEW DELHI

The working of medium-term facility is being monitored under this project, by the technical experts of NBPGR as well as the electrician employed under this project regularly. The temperature of the cold store is maintained at $\pm 4^{\circ}\text{C}$ and the relative humidity has been adjusted to 35%. The relative humidity and temperature of the medium-term storage (MTS) module and the DUS test repository are recorded everyday by the electrician and major problems if any, are brought to the notice of technical personnel at NBPGR and resolved accordingly.

3.2.1.1 Maintenance Activities in PPV&FRA Gene bank

The working of medium-term facility is being monitored under this project, by the technical

experts of NBPGR as well as the electrician employed under this project regularly. The temperature of the cold store is maintained at $+4^{\circ}\text{C}$ and the relative humidity has been adjusted to 35%. The relative humidity and temperature of the medium-term storage (MTS) module and the DUS test repository are recorded everyday by the electrician and major problems if any, are brought to the notice of technical personnel at NBPGR and resolved accordingly. During the period under report servicing and repairing of DG set and servicing and repairing of Air-conditioners has been done for uninterrupted and smooth functioning to the PPV&FRA Gene bank. Daily monitoring of refrigeration parameters and up keeping of all facilities were carried out to ensure uninterrupted functioning of the genebank.

3.2.1.2 Registered varieties monitored for germination and moisture test:

Seeds samples of 267 registered varieties stored in the Gene-bank (MTS) of PPV&FRA were tested for germination and moisture after 5 years of their storage for cereals, legumes and vegetable seeds and 3 years of the storage for oil seeds.

Crop	No. of samples	Moisture range (%)	Germination Range (%)
Barley	4	9.65-13.25	0-100
Black Gram	3	11.62-14.23	96-100
Brinjal	15	4.59-12.52	4-100
Chickpea	4	10.69-14.76	0-100
Dicccum Wheat	2	8.6-9.54	96-96
Diploid Cotton	1	8.68	92
Durum Wheat	2	9.4-11.4	64-84
Foxtail Millet	1	12.81	92
Lentil	1	13.87	96
Maize	1	11.23	92
okra	4	6.89-14.79	72-96

Onion	2	9.32-10.85	32-84
Pearl Millet	3	9-10.39	24-84
Pigeon pea	3	9.66-13.9	52-96
Pumpkin	1	9.10	0

Rice	181	8.2-15.2	0-100
Tetraploid Cotton	20	7.44-12.87	16-100
Tomato	8	2.7-9.36	0-80
Wheat	9	8.9-12.69	0-100
Soybean	1	8.29	72

3.2.1.3 Medium term storage condition & DUS Repository (as on 31st March, 2024)

Sl. No.	Crops	DUS Test Repository (STS)					Medium Term Storage					GRAND TOTAL
		(Candidate varieties for DUS test kept at 22°C)					(4°C)					
		SEED RECEIVED A					CERTIFICATE ISSUED B					
		New	VCK + EDV	Farmer	Extant Notified	Total	New	VCK + EDV	Farmer	Extant Notified	Total	
1	Ash Gourd	-	-	1	-	1	-	-	-	-	-	1
2	Barley	12	5	41	8	66	1	1	27	19	48	114
3	Barnyard Millet	-	-	39	2	41	-	-	-	1	1	42
4	Bitter Gourd	32	29	17	-	78	-	9	2	1	12	90
5	Black Gram	5	2	117	16	140	1	-	9	32	42	182
6	Bottle Gourd	13	11	54	-	78	-	6	3	4	13	91
7	Brinjal	120	88	98	4	310	29	84	34	13	160	470
8	Cabbage	17	1	1	-	19	4	1	-	1	6	25
9	Carrot	-	-	1	-	1	-	-	-	-	-	1
10	Bread Wheat	55	7	99	29	190	35	10	97	164	306	496
11	Castor	6	2	7	-	15	3	3	2	5	13	28
12	Cauliflower	43	12	13	1	69	16	8	4	3	31	100
13	Chickpea	4	-	78	15	97	2	-	45	55	102	199
14	Chilli	145	156	24	8	333	-	-	1	8	9	342
15	Cluster Bean	-	-	1	-	1	-	-	-	-	-	1
16	Coriander	1	-	32	-	33	-	-	-	-	-	33
17	Cowpea	-	2	-	5	7	-	-	-	3	3	10
18	Cucumber	11	25	38	-	74	-	2	-	2	4	78
19	Dolichos Bean	-	-	1	-	1	-	-	-	-	-	1
20	Fennel	-	-	1	-	1	-	-	-	-	-	1
21	Durum Wheat	2	-	4	5	11	4	-	3	27	34	45

Sl. No.	Crops	DUS Test Repository (STS)					Medium Term Storage					GRAND TOTAL
		(Candidate varieties for DUS test kept at 22°C)					(4°C)					
		SEED RECEIVED A					CERTIFICATE ISSUED B					
		New	VCK + EDV	Farmer	Extant Notified	Total	New	VCK + EDV	Farmer	Extant Notified	Total	(A+B)
22	Dicoccum Wheat	8	-	-	-	8	-	-	-	5	5	13
23	Diploid Cotton	5	3	2	4	14	12	9	-	30	51	65
24	Faba Bean	-	-	3	1	4	-	-	-	1	1	5
25	Fenugreek	-	-	11	-	11	-	-	-	-	-	11
26	Finger Millet	3	-	64	7	74	-	-	-	11	11	85
27	Foxtail Millet	-	-	33	2	35	-	-	-	2	2	37
28	Grain Amarathus	-	-	1	-	1	-	-	-	-	-	1
29	Garden Pea	-	-	-	2	2	-	-	-	2	2	4
30	French Bean	-	-	4	-	4	-	-	-	-	-	4
31	Grain Amaranth	1	-	4	3	8	-	-	-	-	-	8
32	Green Gram	6	4	54	15	79	-	1	8	37	46	125
33	Groundnut	8	1	19	2	30	1	-	8	38	47	77
34	Horse gram	-	-	2	-	2	-	-	-	-	-	2
35	Jute	16	2	4	1	23	10	1	-	14	25	48
36	Kidney Bean	-	2	30	1	33	-	4	7	9	20	53
37	Kodo Millet	-	-	102	-	102	-	-	-	-	-	102
38	Lentil	-	-	60	2	62	-	-	16	12	28	90
39	Linseed	-	-	58	2	60	-	-	10	7	17	77
40	Little Millet	-	-	81	1	82	-	-	-	3	3	85
41	Maize	344	66	324	73	807	201	83	40	109	433	1240
42	Marigold	6	-	5	-	11	-	-	-	-	-	11
43	Muskmelon	18	-	1	-	19	1	-	1	2	4	23
44	Mustard	35	9	59	7	110	4	14	42	54	114	224
45	Okra	96	45	28	3	172	18	21	1	16	56	228
46	Onion	4	12	10	2	28	2	1	1	11	15	43
47	Oriental Pickling Melon	-	-	1	-	1	-	-	-	-	-	1
48	Pea	7	3	98	2	110	-	-	8	29	37	147

Sl. No.	Crops	DUS Test Repository (STS)					Medium Term Storage					GRAND TOTAL
		(Candidate varieties for DUS test kept at 22°C)					(4°C)					
		SEED RECEIVED A					CERTIFICATE ISSUED B					
		New	VCK + EDV	Farmer	Extant Notified	Total	New	VCK + EDV	Farmer	Extant Notified	Total	(A+B)
49	Pearl Millet	168	280	29	28	505	75	41	8	58	182	687
50	Pigeon Pea	14	3	179	13	209	17	2	46	27	92	301
51	Pumpkin	-	4	31	-	35	-	-	8	3	11	46
52	Rapeseed	-	-	21	1	22	-	-	30	13	43	65
53	Rice	420	63 + 4	2656	143	3286	207	58	2857	293	3415	6701
54	Ridge Gourd	8	2	20	-	30	-	2	5	1	8	38
55	Safflower	5	-	1	3	9	-	1	-	7	8	17
56	Sesame	1	-	68	2	71	-	-	5	10	15	86
57	Snap Melon	-	-	12	-	12	-	-	-	-	-	12
58	Sorghum	67	10	67	23	167	74	38	56	57	225	392
59	Soybean	18	2	23	2	45	5	1	16	36	58	103
60	Sunflower	67	7	-	-	74	39	19	-	11	69	143
61	Tetraploid Cotton	326	162 + 115	2	32	637	168	230 + 14	1	77	490	1127
62	Tomato	145	91+3	22	9	270	40	43	17	16	116	386
63	Vegetable Amaranth	-	-	-	-	-	-	-	-	1	1	1
64	Velvet Bean	-	-	2	-	2	-	-	-	-	-	2
65	Watermelon	7	19	-	-	26	-	4	-	-	4	30
Total		2269	1252	4858	479	8858	969	711	3418	1340	6438	15296

3.2.2 Seed Requirements

S. No	Crop	Date of Notification	Seed Requirement Candidate /Parental line Hybrid (each) in gm unless otherwise mentioned		Germination %	Moisture %	Physical Purity %	Tentative Season – Months for seed submission for DUS testing	Prescribed size of seed packets (mm)
1	Rice (<i>Oryza sativa</i> L.)	01/11/2006	3000	1500	80	11-12	98	Kharif – March-Apr	230x300
2	Bread Wheat (<i>Triticum aestivum</i> L.)		3000	1500	95	8-9	98	Rabi-Aug	230x300

3	Maize (<i>Zea mays</i> L.)		3000	1500	80(i nbred/SC H)90 (var/DCH)	8-10	98	Khariif- Mar-Apr Rabi- Aug	230x 300
4	Sorghum (<i>Sorghum bicolor</i> (L.) Moench)		2000	1000	80	10	98	Khariif- March Rabi-Aug	230x 300
5	Pearl Millet (<i>Pennisetum glaucum</i> (L.) R.Br.)		600	300	80(i nbred/ SCH) 90(v ar/D CH)	10	98	Khariif- March	165x 220
6	Chickpea (<i>Cicer arietinum</i> L.)		2000 (desi) 3000 (kabuli)	NA	95	8-9	98	Rabi-Aug	230x 300
7	Green Gram (<i>Vigna radiate</i> (L.) Wilczek)		1000	NA	95	8-9	98	Khariif- March	230x 300
8	Black Gram (<i>Vigna mungo</i> (L.) Hepper)		1000	NA	95	8-9	98	Khariif- March	165x 220
9	Field Pea (<i>Pisum sativum</i> L.)		2000	NA	85	8-9	98	Rabi-Aug	230x 300
10	Kidney Bean (<i>Phaseolus vulgaris</i> L.)		3000	NA	85	8-9	98	June-July	230x 300
11	Lentil (<i>Lens culinaris</i> Medik)		1000	NA	85	8-9	98	Rabi-Aug	230x 300
12	Pigeonpea (<i>Cajanus cajan</i> (L.) Millsp.)		2000	1500	95	8-9	98	Khariif- Mar	230x 300
13	Cotton (<i>Gossypium hirsutum</i> L.)	31/12/2007	2000	1000	75	10	98	Khariif- North- Feb Peninsula r- South- May-June	230x 300
14	Cotton (<i>G. barbadense</i> L.)		2000	1000	75	10	98		
15	Cotton (<i>G. arboreum</i> L.)		1500	750	75	10	98		
16	Cotton (<i>G. herbaceum</i> L.)		1500	750	75	10	98		
17	Jute (<i>Corchorus capsularis</i> L.)		1000	500	85	9	97	Pre- Khariif-	165x 220

								early Jan	
18	Jute (<i>Corchorus olitorius</i> L.)		1000	500	85	9	97	Pre-Kharif-early Jan	
19	Sugarcane (<i>Saccharum</i> L.)	27/07/2009	400 single bud sett						
20	Ginger (<i>Zingiber officinale</i> Rosc.)		5000 g (clean and whole sum rhizome of 25-30 g each of 150 pieces)						
21	Turmeric (<i>Curcuma longa</i> L.)		6 kg (clean and whole sum fresh rhizome with 35-40% moisture content)						
22	Indian Mustard (<i>Brassica juncea</i> L. Czern & Coss)	30/04/2010	500	250	85	8	98	Jun-Jul	165x100
23	Karan rai (<i>Brassica carinata</i> A Braun)		500	250	85	8	98	Jun-Jul	165x100
24	Rapeseed-Mustard (<i>Brassica rapa</i> L.)		500	250	85	8	98	June-July	165x100
25	Gobhi sarson (<i>Brassica napus</i> L.)		500	250	85	8	98	Jun-Jul	165x100
26	Groundnut (<i>Arachis hypogaea</i> L.)		3000 (Spanish & Valencia) 8000(kerne l) for Virginia bunch and runner type	1500 4000	80	9	98	Kharif: May-June Rabi: Aug-Sep	300x450
27	Soybean (<i>Glycine max</i> (L.) Merrill)		3000	NA	70	9	98	Apr-May	230x300
28	Sunflower (<i>Helianthus annuus</i> L.)		3000	2000	70	9	98	July-Aug	230x300
29	Safflower (<i>Carthamus tinctorius</i> L.)		3000	1500	80	9	98	June-July	230x300
30	Castor (<i>Ricinus communis</i> L.)		6000	2500	70	10	98	April-May	300x450
31	Sesamum (<i>Sesamum indicum</i> L.)		500	250	80	9	97	April - May	165x100
32	Linseed (<i>Linum usitatissimum</i> L.)		500	250	85	9	98	May-June	165x100
33	Black pepper		40 no of rooted cuttings						

	(<i>Piper nigrum</i> L.)								
34	Small cardamom (<i>Elettaria cardamomom</i> Maton)		50 Suckers						
35	Tomato (<i>Lycopersion lycopersicum</i> (L.) Karsten ex. Farw.)	02/12/2010	15(open field) 8 (Greenhouse)	same	85	8	98	April-May	165x100
36	Brinjal (<i>Solanum melongena</i> L.)		15 (open)	15 (open)	85	8	98	April-May	165x100
37	Okra (<i>Abelmoschus esculentus</i> (L.) Moench.)		New: 300 VK&FV: 150 ENV : 60		65	10	99	May-June	230 x 300
38	Cauliflower (<i>Brassica oleracea</i> L.var. botrytis)		15	15	As per certified seed in India.			April-May	165x100
39	Cabbage (<i>Brassica oleracea</i> L. var capitata)		15	15	-do-			April-May	165x100
40	Potato (<i>Solanum tuberosum</i> L.)		300 Fully matured tubers (Tuber size should be 3.5-5.0 cm)						
41	Onion (<i>Allium cepa</i> L.)		hybrids and parental lines: 100 grams, vegetatively propagated varieties (multiplier onion): 1200 bulblets, male sterile lines : 50 bulbs	NA	70	As per certified seed standard		As per respective sowing seasons	
42	Garlic (<i>Allium sativum</i> L.)	2000 viable clove	NA	The planting material shall meet the minimum requirements for sprouting capacity, moisture content and physical purity for marketing planting material in India, and shall meet the			Aug-Sep	-	

					minimum seed standards prescribed for certified seed in India.				
43	Rose (<i>Rosa spp.</i> (other than <i>R.damascena</i>)		9 grafted/budded plants 9 plants in 12 inch or 30 cm pots size						
44	Chrysanthemum (<i>Chrysanthemum spp.</i>)		100 two node terminal rooted cutting taken from mother plant						
45	Mango (<i>Mangifera indica</i> L.)		9 rooted grafts for each location						
46	Duram wheat (<i>Triticum durum</i> Desf.)	18/08/2011	3000	1500	95	8-9	98	Same as wheat	230x 300
47	Dicoccum wheat (<i>Triticum dicoccum</i> L.)/ Other <i>Triticum</i> sp		3000	1500	95	8-9	98	Same as wheat	230x 300
48	Isabgol (<i>Plantago ovata</i> Forsk)		250	NA	95	8-9	98	Rabi: Nov-Dec	230 x 300
49	Menthol mint (<i>Mentha arvensis</i> L.)		5 Kg suckers (10-15 cm long)						
50	Damask Rose (<i>Rosa damascena</i> Mill)		100 Cutting						
51	Periwinkle (<i>Catharanthus roseus</i> L.)		10 gm	NA	85	8	98	Kharif : June-July	230 x 300
52	Brahmi (<i>Bacopa monnieri</i> L. Pennell)		500 Cutting (clean and wholesome vegetative parts 10-15 cm long)						
53	Coconut (<i>Cocos nucifera</i> L.)		30 number of one year old seedlings raised in polybag containing standard potting mixture						
54	Orchids (<i>Cymbidium</i> Sw.)	27/03/2012	20 plants (10 for each centre) with at least two pseudo-bulbs and one back-bulb. Age 3-4 years						
55	Orchids (<i>Dendrobium</i> Sw.)		20 plants (10 for each Centre) with at least two shoots. Age 2-3 years						
56	Orchids (<i>Vanda jones</i> ex R. Br.)		20 plants, Age 2-3 year						
57	Pomegranate (<i>Punica granatum</i> L.)	15/04/2014	10 propagules, one year old propagated through air layering or rooted stem cutting (multiplied from the same tree) or tissue culture raised plants for each location.						

58	Orchid (<i>Cattleya Lindl.</i>)	20 plants two or three year old with at least two shoot						
59	Orchid (<i>Phalaenopsis Blume</i>)	20 flowering size plants						
60	Casurina (<i>Casurina equisetifolia</i> L.)	50 rooted cutting (at least three month old), measuring minimum 20 cm from collar to apical tip with a well developed root system						
61	Casurina (<i>Casurina junghuhniana</i> Miq.)							
62	Bitter gourd (<i>Momordica charantia</i> L.)	300 gm or 1500 no	NA	80	8	98	Dec-Jan	230x 300
63	Bottle gourd (<i>Lagenaria siceraria</i> (Mol.) Standl.)	250 gm or 1500 no	NA	80	8	98		230x 300
64	Cucumber (<i>Cucumis sativus</i> L.)	50 gm or 1500 no	NA	80	8	98		230x 300
65	Pumpkin (<i>Cucurbita moschata</i> Duch. ex Poir.)	200 gm or 1500 no	NA	80	8	98		230x 300
66	Barley (<i>Hordeum vulgare</i> L.)	1500	1000	95	8	98	Aug-Sep	230x 300
67	Coriander (<i>Coriandrum sativum</i> L.)	250	NA	80	8-9	98	Jul-Aug	165x 100
68	Fenugreek (<i>Trigonella foenum graecum</i> L.)	250	NA	80	8-9	98	Jul-Aug	165x 100
69	Almond (<i>Prunus dulcis</i> (Mill.) D.A. Webb)	10 grafted or budded plants						
70	Apple (<i>Malus domestica</i> Borkh)	6 grafted or budded plants						
71	Pear (<i>Pyrus communis</i> L.)	6 grafted or budded plants						
72	Apricot (<i>Prunus armeniaca</i> L.)	10 grafted or budded plants						
73	Cherry (<i>Prunus avium</i> L.)	10 grafted or budded plants						
74	Walnut (<i>Juglans regia</i> L.)	10 grafted or budded plants						

75	Grapes (<i>Vitis spp.</i>)		12 grafted plants(one yr old) for each location						
76	Indian jujube (Ber) (<i>Ziziphus mauritiana</i> Lamk.)		7 plants for each DUS centre(minimum age 3 months)						
77	Eucalyptus (<i>Eucalyptus camaldulensis</i> Dehnh.)		60 rooted plant (plant should be in 250 cc root trainer)having minimum age of 6 months						
78	Eucalyptus (<i>Eucalyptus tereticornis</i> Sm.)								
79	Tea (<i>Camellia sinensis</i> L.)	16/10/2014	75 Plants (15-18 inches height), young plant having pencil thick stem with their own root						
80	Tea (<i>C. assamica</i>)								
81	Tea (<i>C. assamica</i> ssp <i>lasiocalyx.</i>)								
82	Acid Lime (<i>Citrus aurantifolia</i> Swingle)		10 plants for each DUS centre. Age should be above six months						
83	Mandarin (<i>Citrus reticulata</i> Blanco)		10 plants for each DUS centre. Age should be above six months						
84	Sweet Orange (<i>Citrus sinensis</i> (L.) Osbeck)		10 plants for each DUS centre. Age should be above six months						
85	Bougainvillea (<i>Bougainvillea Comm.</i> Ex Juss.)		10 well rooted and established plant						
86	Banana (<i>Musa spp.</i>)		40 tissue cultured plant per location						
87	Orchid (<i>Oncidium sw.</i>)		20 plants of 2-3 year old with at least two pseudo-bulbs/shoots						
88	Canna (<i>Canna</i> L.)	21/01/2015	20 young plants or 20 matured rhizomes						
89	Gladiolus (<i>Gladiolus</i> L.)		30 Corms (4 - 4.5 cm in diameter)						
90	Muskmelon (<i>Cucumis melo</i> L.)		100 gm seed for open field cultivation	NA	80	8	98	Dec-Jan	230x300
91	Watermelon (<i>Citrullus Lanatus</i> (Thunb.) Mansf.)		150 gm seed for open field cultivation	NA	80	8	98	Dec-Jan	230x300
92	Jasmine (<i>Jasminum auriculatum</i> L.)	02/07/2015	20 rooted plant						

93	Tuberose (<i>Polianthes tuberosa</i> L.)		75 Bulbs of more than 2 cm (diameter at broadest point) weighing 25-30 gm						
94	Papaya (<i>Carica papaya</i> L.)		20 gm for gyno-dioecious varieties & 40 gm for dioecious varieties in both season	NA	60	7	98% for var & 90% for Hybrid	--	---
95	China Aster (<i>Callistephus chinensis</i> (L.) Nees.)		2 gm each in two packets	NA	60	6-9	98	---	---
96	Peach (<i>Prunus persica</i> L. Batsch.)		10 grafted or budded plants						
97	Japanese Plum (<i>Prunus salicina</i> L.)		10 grafted or budded plants						
98	Strawberry (<i>Fragaria x ananasa</i> Duch.)		120 runners or plant propugules or seedling plants (tissue cultured plant hardened at 4-5 leaf Stage)						
99	Chilli, Bell Pepper and Paprika (<i>Capsicum annuum</i> L.)		15 gm for OP var & 10 gm for Hybrid and Parental line	NA	85	8	98	Aug-Sep	165x100
100	Finger Millet (<i>Eleusine coracana</i> (L.) Gaertn.)		250 gm & 10 Panicles	NA	80	10-12	97	Apr-May	230x300
101	Foxtail Millet (<i>Setaria italic</i> (L.) Beauv)		250 gm & 10 Panicles	NA	80	11-12	97	Apr-May	230x300
102	Vegetable Amaranth (<i>Amaranthus tricolor</i> L.)		150 g	NA	80	<8	98	July-Sep	165x100
103	Ridge gourd (<i>Luffa acutangula</i> (L.) Roxb.)	19/04/2016	250g or 1500 seeds	NA	80	<8	98	Dec-Jan	230-x300
104	Spinach beet (<i>Beta vulgaris</i> var. <i>bengalensis</i>)		250 g	NA	80	<8	98	Aug-Sep	165x100

	Roxb.)									
105	Carnation (<i>Dianthus caryophyllus</i> L.)		150 rooted cuttings							
106	Orchid (<i>Paphiopedilum Pfitz.</i>)		10 plants for each centres							
107	Noni (<i>Morinda citrifolia</i> L.)		10 grafted or budded plants for each location							
108	Bael (<i>Aegle marmelos</i> (L.) Correa)		5 Plants for each centres							
109	Jamun/Black plum (<i>Syzygium cumini</i> (L.) Skeels.)		07 grafts for each location							
110	Nutmeg (<i>Myristica fragrans</i> Houtt.)		10 grafted or budded plants for each location							
111	Jasmine/Mogra (<i>Jasminum sambac</i> L.)	13/07/2016	20 rooted plants for each location							
112	Custard apple / Sugar apple (<i>Annona squamosa</i> L.)		8 grafts							
113	Kalmegh /King of Bitters (<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees)		30 gm	NA	95	8-9	98		Kharif : May-June	230 x 300
114	Neem (<i>Azadirachta indica</i> A. Juss.)		40 clonally rooted plants with 60cm height							
115	Karanj (<i>Pongamia pinnata</i> (L.) Pierre.)	12/05/2017	40 clonally rooted plants with 60 cm height							
116	Indian Gooseberry (<i>Emblica officinalis</i> Gaertn.)		03-04 months old plants							
117	Betelvine (<i>Piper betle</i> L.)		Rooted cutting terminal shoots shall be 3 months old with 25 cm height							

118	Marigold (<i>Tagetes spp.</i> L.)	10 gm seed or 200 Nos rooted cuttings	NA	80	Not more than 8	98	Apr-May	165x 100
119	Guava (<i>Psidium guajava</i> L.)	10 grafts/ air layers for each locations						
120	Litchi (<i>Litchi chinensis</i> Sonn.)	7 plants raised through air layering for each location						
121	Deodar (<i>Cedrus deodara</i>) (Roxb.) G. Don	5 trees						
122	Chir pine (<i>Pinus roxburghii</i>) Sargent	5 trees						
123	Mulberry (<i>Morus spp.</i>)	50 stem cuttings of 12-15 cm length & 1.0-1.5 cm diameter						
124	Jasmine (<i>Jasminum multiflorum</i> L.)	20 numbers of 6 months old, fully rooted plants						
125	Buckwheat (<i>Fagopyrum esculentum</i>)	500 gram	NA	80	≤10%	98	Kharif: May-June	165 x 100
126	Buckwheat (<i>Fagopyrum tataricum</i>)	500 gram	NA	80	≤10%	98		
127	Grain Amaranth (<i>Amaranthus hypocondricus</i>)	50 gram	NA	80	≤10%	98	Kharif: May-June Rabi: Sept-Oct	165 x 100
128	Grain Amaranth (<i>A. cruentus</i>)	50 gram	NA	80	≤10%	98		
129	Grain Amaranth (<i>A. caudatus</i>)	50 gram	NA	80	≤10%	98		
130	Grain Amaranth (<i>A. edulis</i>)	50 gram	NA	80	≤10%	98		
131	Faba bean (<i>Vicia faba</i> L. var. major Harz)	150 gram	NA	70	≤9%	98	Rabi: Sept-Oct	230 x300
132	Elephant Foot Yam (<i>Amorphophallus Paeonifolius</i>)	36 tubers 200-400g each						
133	Taro (<i>Colocasia esculenta</i> var. esculenta, <i>Colocasia</i>	36 tubers 30-40g each						

	<i>esculenta</i> var. antiquorum, <i>Colocasia esculenta</i> var. stoloniferum)		
134	Taro (<i>Cyrtosperma chamissonis</i> / <i>C. merkusii</i>)		36 tubers 30-40g each
135	Jatropha (<i>Jatropha curcas</i> L.)		60 rooted plants with 60 cm height, to be submitted in June-July
136	Barnyard millet (<i>Echinochloa frumentaceae</i> (Roxb.) Link)		250 grams seed with 10 panicles NA 80 12 97 Apr-May 230x300
137	Kodo millet (<i>Paspalum scrobiculatum</i> L.)		500 grams seed with 10 panicles NA 80 12 97 Apr-May 230x300
138	Little millet (<i>Panicum sumatrense</i> Roth. Ex Roemer And Schultes)		150 grams seed with 10 panicles NA 80 12 97 Apr-May 230x300
139	Proso millet (<i>Panicum miliaceum</i> L.)		200 grams seed with 10 panicles NA 80 12 97 Apr-May 230x300
140	Cashew (<i>Anacardium occidentale</i> L.)	23/10/2017	8 grafted plants
141	Areca nut (<i>Areca catechu</i> L.)		10 numbers of one year-old seedlings
142	Chironji (<i>Buchanania lanzan</i> Spreng.)		9 grafts for each location
143	Tamarind (<i>Tamarindus indica</i> L.)		9 grafts for each location
144	Sweet potato (<i>Ipomoea batatas</i> (L.) Lam.)	09/01/2018	150 vine cuttings (each one with a length of 30cm with 5 to 8 buds) for both centres
145	Cassava (<i>Manihot esculenta</i> Crantz.)		100 cuttings for each centre, length 20 cm with minimum 5 to 8 viable buds
146	Poplar (<i>Populus deltoides</i> L.)		120 cuttings from 1 year old plants

147-153	Willow (<i>Salix</i> species) <i>Salix tetrasperma</i> , <i>Salix nigra</i> , <i>Salix jessoensis</i> , <i>Salix x rubens</i> , <i>Salix matsudana</i> , <i>Salix alba</i> , <i>Salix acmophylla</i> .	11/07/2018	120 hardwood cuttings, diameter 1 cm and length 20 cm						
154	Oat (<i>Avena sativa</i> L.)		1000	NA	85	10	98	Jul-Aug	230x300
155	Date Palm (<i>Phoenix dactylifera</i> L.)		06 Rooted suckers (offshoots), weight 8-10 kg						
156	Moringa (<i>Moringa oleifera</i> L.)	18/07/2019	30 plants or 100 pure seeds for each centre						
157	Melia (<i>Melia dubia</i> Cav.)	25/02/2019	100 rooted plants.						
158	Pointed Gourd (<i>Trichosanthes dioica</i> Roxb.)	15/12/2020	50 (fifty) tuberous root/ rooted vine cuttings (having minimum 3 nodes)						
159	Crossandra (<i>Crossandra infundibuliformis</i> (L.) Nees.)	15/12/2020	100 terminal rooted cuttings in plugs or pro-trays (50 for each center) of 6 cm to 8 cm						
160	Cowpea (<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>unguiculata</i> and <i>Vigna unguiculata</i> (L.) Walp. ssp. <i>sesquipedalis</i> (L.) Verdc.)	15/12/2020	1000		95	9	98	May-June	230x300
161	Jackfruit (<i>Artocarpus heterophyllus</i> Lam.)	23/08/2021	The plant material has to be supplied in the form of grafts / budded plants.						
162	Greater Yam (<i>Dioscorea alata</i> L.)		10 healthy tubers 750-1100g						
163	Yam Bean (<i>Pachyrhizus erosus</i> L.)		The minimum quantity of planting material (seeds), to be supplied by the applicant, should be 75 - 100g for three replications.						
164	Seabuckthorn (<i>Hippophae</i>		The minimum required quantity of planting material, should be at least seven well rooted one-year-old plants in poly bags with at least two						

	<i>rhamnoides</i> L.)		shoots.					
165	Ajwain (<i>Trachyspermum ammi</i> L.)	16/03/2022	New-50g, ENV- 10g, VCK- 25g, FV- 25g	65%	8-9%	98%	Rabi: Oct-Nov	165 x 100
166	Anise (<i>Pimpenella anisum</i> L.)		New- 100g, ENV-20g, VCK-50g, FV-50g	65%	9-10%	98%	Rabi: Oct	
167	Celery (<i>Apium graveolens</i> L.)		New-50g, ENV-10g, VCK-25g,, FV-25g	65%	8-9%	98%	Rabi: Oct	
168	Cumin (<i>Cuminum cyminum</i> L.)		New-100g, ENV-20g, VCK-50g, FV-50g	65%	8-9%	98%	Rabi: Oct	
169	Dill (<i>Anethum graveolens</i> L.)		New-100g, ENV-20g, VCK-50g, FV-50g	65%	8-9%	98%	Rabi: Oct	
170	Dill (<i>Anethum sowa</i> Roxb)		New-100g, ENV-20g, VCK-50g, FV-50g	65%	8-9%	98%	Rabi: Oct	
171	Fennel (<i>Foeniculum vulgare</i> Mill.)		New-200g, ENV-40g, VCK-100g, FV-100g	70%	8-9%	98%	Rabi: Oct	
172	Nigella (<i>Nigella sativa</i> L.)		New-100g, ENV-20g, VCK-50g, FV-50g	65%	8-9%	98%	Rabi: Oct	
173	Horse gram (<i>Macrotyloma uniflorum</i> (Lam) Verdc.)	18/11/2022	New-1500g, VCK & FV-750g, ENV-350g	95%	9%	98%	Kharif: April	
174	Gerbera (<i>Gerbera jamesonii</i> Adlem ex. Hooker f.)		plant height of 15 cm with 8-9 leaves and 4-5 roots of length 4-5 cm					
175	Coffee (<i>Coffea arabica</i> L.)		Arabica: i) Seedlings (six-months to one-year-old): 50 plants ii) Seed (viable seed prepared from fresh harvest): 100 nos.					
176	Coffee (<i>Coffea canephora</i> Pierre ex A. Froehner)		Robusta: i) Clones (six-months to one-year-old) : 50 clones					
177	Flue-Cured Virginia (FCV) and bidi tobaccos (<i>Nicotiana tabacum</i> (L.))		New-20g, VCK & FV-10g, ENV-4g	95%	4%	98%		
178	Moth bean [<i>Vigna aconitifolia</i>		New-1500g, VCK&FV-750g, ENV-	95%	9%	98%		

	(Jacq.) Marechal.]		300g					
179	Cluster bean (<i>Cyamopsis</i> <i>tetragonaloba</i> L. Taub)		New-1500g, VCK&FV- 750g, ENV- 300g	95%	9%	98%		
180	Cocoa (<i>Theobroma</i> <i>cacao</i> L.)		6 vegetatively propagated, rooted plants in poly bags					
181	Radish (<i>Raphanus</i> <i>sativus</i> L.)	14/02/2023	New-200g, VCK&FV- 100g, ENV- 40g	90%	6%	98%		
182	Carrot (<i>Daucus</i> <i>carota</i> L.)		New-100g, VCK&FV-50g, ENV-20g	70%	8%	98%		
183	Teak (<i>Tectona</i> <i>grandis</i> L. f.)		30 rooted plant (plant should be in 400 cc root trainer) having minimum age of 6 months					
184	Kalazeera [<i>Bunium</i> <i>persicum</i> (Bioss.) Fedts.]		200 tubers (3 - 4 g each & minimum 4 years old)					
185	Saffron (<i>Crocus</i> <i>sativus</i> L.)		New - 300 corms (8- 10g each) VCK & FV - 150 corms (8- 10g each)					
186	Dolichos bean (<i>Lablab</i> <i>purpureus</i> (L.) Sweet)	18/05/2023	New-1000g, VCK&FV- 500g, ENV- 200g	95%	8%	98%	Kharif: June	230x 300
187	Ash gourd (<i>Benincasa</i> <i>hispida</i> (Thunb.) Cogn.)		New-60g, VCK&FV-30g, ENV-12g	80%	8%	98%	Kharif: April	165 x 100
188	Snake gourd (<i>Trichosanthes</i> <i>angulina</i> L.)		New- 400g, VCK&FV- 200g, ENV- 80g	80%	8%	98%	Rabi: Nov	165 x 100
189	Ivy gourd (<i>Coccinia grandis</i> (L.) Voigt)		50 (fifty) rooted vine cuttings (having minimum 3 nodes) in polybag					
190	Kokum (<i>Garcinia</i> <i>indica</i> Choisy)		20 grafted plants					
191	Lemon (<i>Citrus</i> <i>limon</i> (L.) Burm. f.)	22/03/2024	More than one year old five plants					
192	Pummelo (<i>Citrus</i> <i>maxima</i> (J. Burm.) Merr.)		five plants					
193	Lilium (<i>Lilium</i>		200 Bulbs per growing cycle. The planting material supplied should be					

	sp., Oriental, Asiatic, LA Hybrids and OT Hybrids)		uniform sized (Oriental Hybrids: 14-16 cm and Asiatic, LA, OT Hybrids : 12-14 cm)					
194	Jasmine (<i>Jasminum spp.</i>)		20 numbers of 6 months old fully rooted plants					
195	Ashwagandha (<i>Withania somnifera</i> (L.) Dunal)		60 g	70%	8-9%	98%		
196	Olive (<i>Olea europaea</i> L.)		15 plants of olive in the form of trees (one-year old) on their roots or on one-year old trees grafted on rootstock specified by the competent authority.					
197	Anthurium (<i>Anthurium andraeanum</i>)		(a) Varieties for pot plants: 300 young plants (150 for each centre). (b) Varieties for cut flowers: 300 young plants (150 for each centre).					

3.3 REGIONAL HORTICULTURAL RESEARCH AND TRAINING STATION, MASHOBRA; DR Y S PARMAR UNIV. OF HORT. AND FORESTRY, MASHOBRA, SHIMLA

The project entitled “Establishment of field gene bank of temperate fruit crops” is being implemented at Dr Y S Parmar Univ. of Hort. and Forestry, Mashobra, Shimla having mandated Crops: Apple, Pear and Cherry.

Characterization of Apple and Cherry varieties for different characters in field gene bank at RHR&TS, Mashobra:

- In 2023, 28 apple varieties were characterized for their morphological and fruiting characteristics, while 30 cherry varieties were characterized for their vegetative, floral, and fruit characteristics.
- Tree height and trunk girth varies from 1.10 m (Royal Red Honey Crisp) to 2.14 m (Crimson Crisp) and 4.7 cm (Red Honey Crisp) to 8.67 cm (Aztec Fuji). Tree spread in E-W direction ranges between 0.33 m (Red Honey Crisp) and 1.08 m (Gale Gala grafted) whereas, in N-S direction between 0.30 m (Red Honey Crisp) and 1.09 m (Gale Gala).

- Time of initiation of flowering was earliest on 22th March in Aztec Fuji and late on 1st April in Crimson Crisp. Opening of last flower was earliest in Aztec Fuji (30th March) and latest in Crimson Crisp (6th April). Earliest full bloom was recorded in Scarlet Spur-II (29th March) and Crimson Crisp was last on 3rd April.
- In apple, leaf length varies from 6.04 cm to 9.52 cm and leaf width from 3.46 cm to 5.16 cm, respectively. Leaf area was recorded maximum (33.40 cm²) in Baigent Gala and minimum (15.64 cm²) in Crimson Crisp. Leaf margins vary from crenate to biserrate to serrate type-II and serrate type-I among different varieties. Petiole length was found maximum (3.70 cm) in Scarlet Spur- II and minimum (1.84 cm) in Gale Gala. Colour of leaf was medium green in six varieties and dark green in remaining varieties.
- Colour of flower was white in Aztec Fuji, whereas pinkish in rest of the varieties. Bearing of all of the varieties was on spur. Arrangement of petals varied from free (Crimson Crisp, Gale Gala) to intermediate (Aztec Fuji, Valley Spur, Sun Fuji) to overlapped (Scarlet Spur- II, Schlect spur).

Plate 1: Characterization of apple varieties for leaf and flower characters

	
Aztec Fuji	Baegent Gala
	
Crimpsn Crisp	Gale Gala
	
September Wonder	Scarlet Spur-II
	
Aztec Fuji	Baegent Gala
	
Crimpsn Crisp	Gale Gala
	
September Wonder	Scarlet Spur-II
	
Valley Spur	


Silver Spur

Red Delicious

King Roat

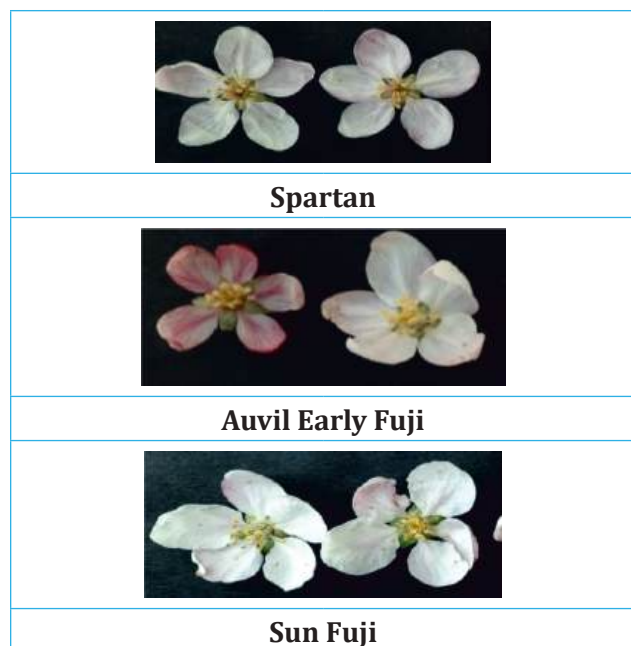
Early Red One

Granny Smith

Jonagold

Fullford Gala

Buckeye Gala

**Plate 2: Fruit characterization of apple varieties:**

Fruit length and width varied from 56.75 mm (Baigent Gala) to 71.69 mm (Scarlet Spur- II) and 69.13 mm (Baigent Gala) to 80.07 mm (Scarlet Spur-II). Fruit shape was cylindrical in Scarlet Spur- II and Aztec Fuji, conical in Baigent Gala, Schlect spur, Globose in Sun Fuji, Fuji kiku and Fuji Raku Raku. Fruit firmness was highest (7.72 kg/cm²) in Buckeye Gala and lowest (5.75 kg/cm²) in Schlect spur. TSS was TSS: 12.82°B in Sun Fuji, Scarlet Spur- II, 11.88°B in Fulford Gala, 11.86°B in Buckeye Gala, 10.53°B in Silver Spur and 10.2°B in Valley Spur, respectively.

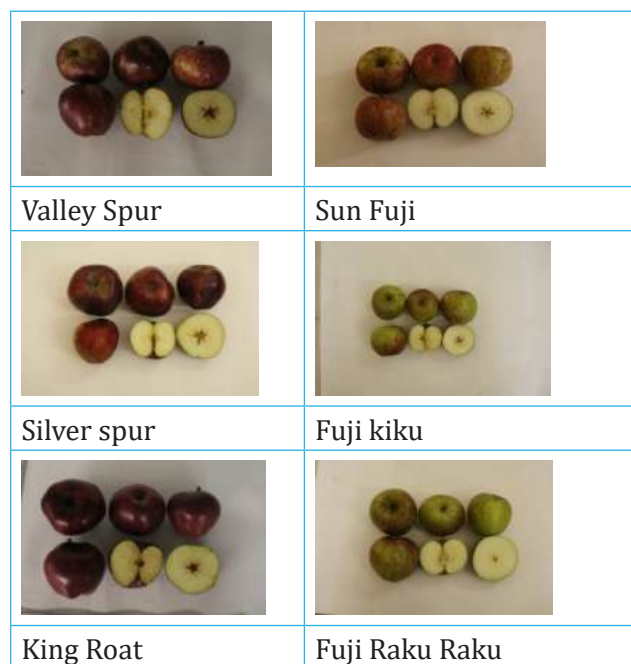
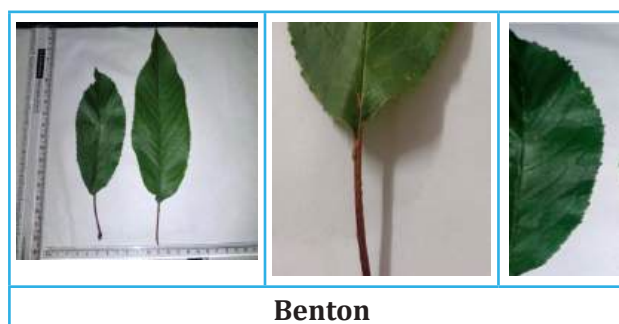
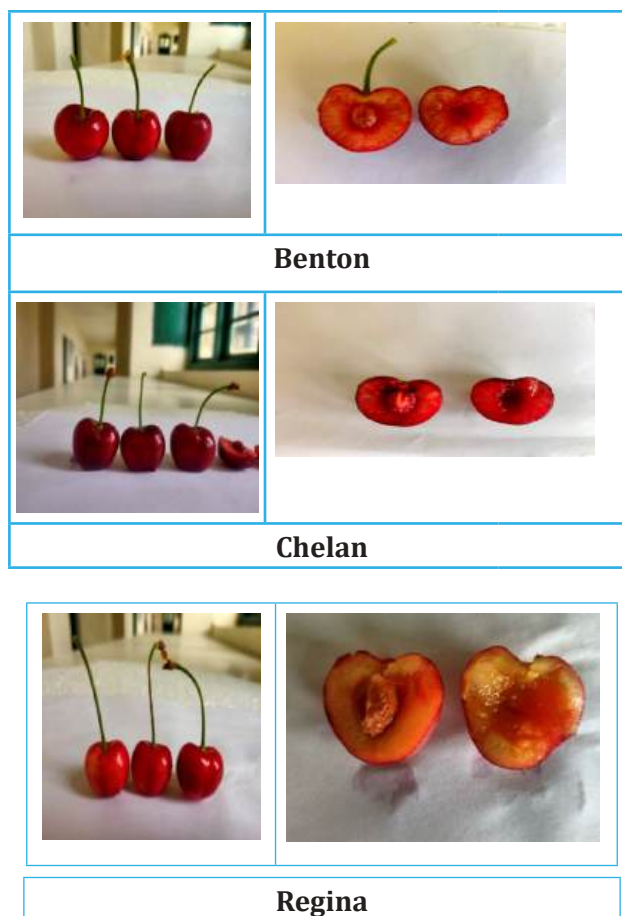
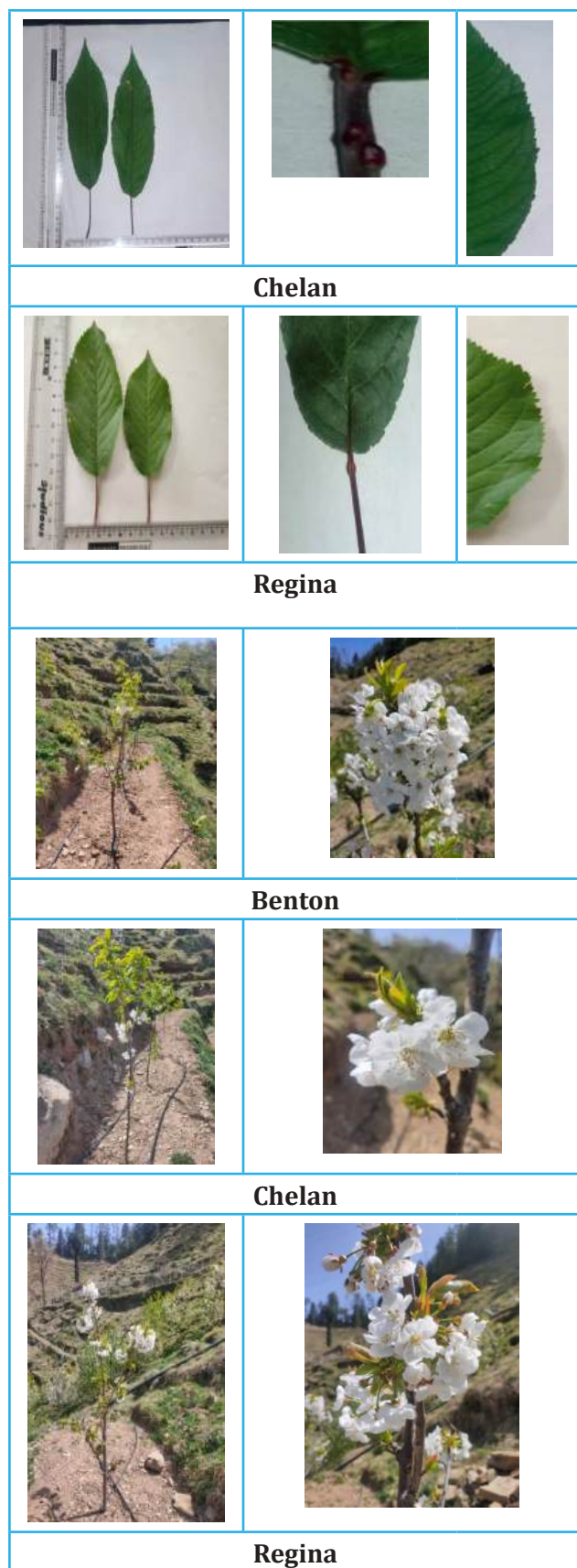


Plate 3: Characterization of cherry varieties for leaf, flower and fruit characters: In cherry, leaf length and width varied from 9.82-13.16 cm & 5.10-5.74 cm respectively. Leaf shape was obovate in three varieties and lanceolate in remaining varieties. All the varieties had nectarines and the colour of nectarines varied from light red in one and purple in rest of the varieties





Fruit weight, length and width varied from 4.78- 7.71g, 18.24- 22.31 mm and 21.43- 24.33 g respectively among different cherry varieties. Fruit shape was cordate in Regina and reniform in remaining varieties. Length and thickness of stalk varied from 25.60 mm (Benton) to 48.39mm (Regina) and 0.74 mm (Chelan) to 1.50 mm (Regina). TSS was recorded highest (17.7 °B) in Benton and lowest (15.34 °B) in Regina. Acidity, total sugars and reducing sugars varied from 0.37 -0.47 %, 10.85 -13.19% and 4.25 -5.73 % respectively.

- i) **Varieties under maintenance/characterized:**
- ii) **Fruit characterization of apple varieties**

Aztec Fuji	Valley Spur	Fuji Raku	Red Velox
Scarlet Spur- II	Silver Spur	Buckeye Gala	Scarlet Gala
Baigent Gala	King Roat	Fulford Gala	Sun Fuji
September Wonder	Spartan	Early Red One	Super Chief
Crimson Crisp	Schlect Spur	Granny Smith	Wagener
Gale Gala (Malaga)	Sun Fuji	Oregon Spur II	Winesap Virginia

Red Royal Honey Crisp	Fuji Kiku	Red Chief	Winter Banana
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iii) Fruit characterization of cherry varieties

Regina	Triumph Domini	Van
Lapins	Bing	Bedford Prolific
Chelan	Coral Champagne	Lapins
CITH-3	Sweet Heart	CITH-15
Benton	Glory	Bigarreau Napoleon
Black Heart	Sunburst	Desna
Lambert	Red Heart	Bigarreau Noir Grossa
Foya Travida,	CITH-12	Germarsdofer
Durone Nero-III	Stella	Noir de Guben
Early River	Vega	White Heart

Publications and other significant achievements on PPV & FRA: Dangi G, Singh D, Chauhan N, Dogra RK, Verma P and Chauhan A.2024. Evaluating genetic diversity of morpho-physiological traits in sweet cherry (*Prunus avium* L.) cultivars using multivariate analysis. *Genetic Resources and Crop Evolution* 11:1-36.

3.4 Dr B.S. KONKAN KRISHI VIDYAPEETH, DAPOLI, MAHARASHTRA

The project entitled 'Collection, maintenance, evaluation and development of descriptors of fruit and plantation crops and three spices through live repository' is being implemented at Dr. B.S. Konkan Krishi Vidhyapeeth Dapoli.

- Characterization of new 50 varieties of mango have been completed.
- Pre-Monsoon operations and maintenance of experimental plots.
- Application of Manure, Preparation and planting of annual crops like turmeric, ginger, plantprotection measures.
- Survey for collection of local mango, banana, and turmeric types.

- Collection of local rice varieties from farmer.
- Farmers Variety Registration Certificate distributed through Hon. Vice Chancellor, Dr. B. S.

K. K. V., Dapoli (Farmers Name 1. Mr. Sanjeev Prabhakar Samel 2. Mr. Dattaram Tukaram Yelamkar 3. Mr. Dayanand Babaji Chougule)

Survey and Collection of farmers' varieties for registration under PPVFRA project:

Sr. No.	Name of the Farmer/ Research station	Crop	Remarks
1	Mr. Uday Joshi	Banana	Red Banana Identified
2	Mr. Uday Joshi	Mango (Local) Raiwal	Identified
3	Mr. Manoj Kelkar	Mango (Local) Raiwal	Identified
4	Mr. Anand Kolvankar, Ambdas, Chiplun, Ratnagiri	Banana	Identified
5	Research Station, Avashi	Banana	Vegetable Purpose Identified
6	Mr. Amit Sardesai, Lanja	4 local (Raiwal) mango	Identified
7	Prabhudesai Nursery	Jackfruit (Anil Kapa)	Identified
8	Mr. Naushad Chiktay, Unhavre, Dapoli	Mango (Raiwal)	Pickle Purpose, Identified
9	Mr. Satish Desai and other farmers	Rice	8 farmers' varieties has been identified and under process for registration at PPV FRA, New Delhi
10	RFRS Vengurle	Jamun	Local Jamun types Identified

List Varieties under maintenance/Characterised:

Mango: 33 (Varieties 20, Farmers Varieties 13, Total Ecotypes 60), Turmeric: 44 varieties (37 Varieties+ 7 New collected), Citrus: 3 Species, Kachai Lemon: 1, Black pepper: 15 (New collected 9), Banana: 50 (41 + New collected 9), Nutmeg: 3 Farmers' Varieties, Farmers' germplasm: 125

Nominated varieties for registration maintained in Field Gene Bank:

Sr. No.	Name of species	Nom-inated name	No. of germ-plasm Nomi-nated	Source
1.	Coconut	Konkan Bhatye-Coco-nut Hybrid-1	30 Nuts	Regional Coconut Research Station, Bhatye, Ratnagiri

Out of 30 plants of Coconut (Konkan Bhatye coco-nut Hybrid-1) 7 plants have started flowering and fruiting.				
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Training cum Awareness program on PPV & FRA conducted:

The information of PPV & FRA & registration procedure is given to the farmers in the three training programs conducted on Mango Production Technology and Rejuvenation of old orchards at College of Horticulture, Dapoli.

4: Projects on the Development of DUS Test Guidelines and Establishment of Gene Banks

PROJECTS ON DEVELOPMENT OF DUS TEST GUIDELINES

The Authority has identified various institutes and awarded a two/three years projects for development of DUS test guidelines to enlarge the registration basket of the Authority. During the reporting period projects such as 1. Ailanthus, 2. Lemon Grass, 3. Dahlia, 4. Broccoli, 5. Curry Leaf, 6. Sponge Gourd, 7. Chilli, Bell pepper and Paprika under protected condition, 7. Hibiscus, 8. Niger, 9. Sapota, 10. Vegetable Kale, 11. Lettuce, 12. Brown Top Millet, 13. Knol-Khol, 14. Pran, 15. Turnip, 16. Bambara Groundnut, 17. Daffodils, 18. Tulip, 19. Iris sp. total 19 crops are at various stages of framing of DUS test guidelines.

4.1 ON-GOING PROJECTS

4.1.1. Development of DUS testing guidelines for Avacado (*Persea Americana* Mill)

This project was initiated during financial year 2022-23 (month of December, 2022) at ICAR-Indian Institute of Horticultural Research, Bengaluru, Karnataka for "Development of DUS testing guidelines for Avacado (*Persea Americana* Mill) and upto Dec, 2024. For development of DUS test guidelines on Avacado this centre collected and documented unique avocado germplasm from different locations of Western ghats (Karnataka, Kerala and Tamil Nadu) and germplasm are being maintained in ICAR-IIHR, Central Horticultural Experimental Station at Chettalli in 5 separate blocks. DUS characterization was done for morphological traits, flowering and fruiting traits. The germplasm collections were assessed and characterized for DUS traits among 168 accessions maintained at CHES, Chettalli. A total of 10 Avocado unique types and 9 reference varieties have been identified for development of DUS Test for 19 characters. Among



the avocado unique types characterized, Arka supreme showed spreading growth habit, greenish shoot and inflorescence colour, Type A flowering type, depressed fruit shape, round fruit apex, purple skin colour, buttery pulp with low bitterness of pulp. A total of 19 avocado accession evaluated for significant traits.

4.1.2. Development of Development of DUS testing guidelines for Dragon fruit (*Hylocereus* sp.)

This project was initiated during financial year 2022-23 (month of December, 2022) at ICAR-Indian



Institute of Horticultural Research, Bengaluru, Karnataka for "Development of DUS testing guidelines for Dragon Fruit (*Hylocereus* sp.) and upto Dec, 2024. For development of DUS test guidelines centre collected of Dragon fruit accessions and are maintained at ICAR-IIHR-CHES, Hirehalli, Tumakuru consisting of 29 exotic collections and 26 secondary collections. To estimate the genetic diversity, characterization was initiated in the germplasm of *Hylocereus* sp. Observations was recorded in the existing germplasm on regular interval. A total of 13 reference varieties/unique types were identified and have been tested for 18 different characters. The variation in morphological, flowering and fruiting traits was recorded for developing DUS guidelines. Mexican gold, Thailand red, Thailand white, Thai, Allice white etc are the reference varieties considered for DUS testing. Among the evaluated dragon fruit unique types, Thailand red showed low arch height, flat margin ribs, oblong bud shape, medium peel thickness and red pulp colour. All morphological and

reproductive traits was recorded for development of DUS guidelines on dragon fruit.

4.1.3. Development of DUS testing guidelines for Adenium



This project was initiated during financial year 2023-24 at ASPEE College of Horticulture, NAU, Navsari for “Development of DUS testing guidelines for Adenium. After establishment of DUS project 64 germplasms of Adenium have been collected, and newly grafted for uniformity and maintained with regular cultivation practices like training, pruning, and nutrition management under polyhouse. Flowering will commence in 2 to 3 months later. Different morphological characters in different germplasms are being studied and observation recorded for development of DUS test guidelines on Adenium.

4.1.4. Development of DUS testing guidelines for Alstroemeria

This project was initiated during financial year 2023-24 at Dr. Y. S. Parmar University of Horticulture and Forestry, Solan for “Development of DUS testing guidelines for Alstroemeria. After establishment of project centre has start collection of germplasm to identification of descriptors for morphological characteristics of Alstroemeria for further development of DUS test guidelines on Alstroemeria.

4.1.5. Development of DUS testing guidelines for Ocimum spp

This project was initiated during financial year 2023-24 at two locations i.e. CSIR-CIMAP, Lucknow, and ICAR-DMAPR, Anand, Gujarat for “Development of DUS testing guidelines for *Ocimum spp.*” After establishment of project the work is being carried out at experimental Research Farm. The experiment material for the present work consist a total

14 released varieties, based on these varieties observations will be recorded for 30 morphological characteristics of *Ocimum* at CIMAP, Lucknow for development of DUS test guidelines on *Ocimum spp.*



4.1.6. Development of DUS testing guidelines for Khejri



This project was initiated during financial year 2023-24 at ICAR-CIAH, Bikaner for “Development of DUS testing guidelines for Khejri.” The work is being carried out, khejri germplasm block monitored and maintenance plan prepared for start of good field practices. On the basis of primary documentation, 25 khejri genotypes marked for morphological characterization. A wide-range of parameters with respect to the leaf, inflorescence, flowers, pods, seeds and plant growth habits were identified for characterization and to develop DUS guidelines. During the flowering period (March-April), inflorescence emergence, full-bloom, inflorescence length, number of spikes/inflorescences, number of flower buds/spike and spike length was recorded in identified khejri genotypes. Enough variations were observed and recorded in the targeted parameters among the khejri genotypes. Pod morphology parameters were not recorded owing to weather abrasions during the setting and development. Khejri plantation pruned during June month and observations recording started with new vegetative

growth. Two distinct colours in new sprouts (post-pruning) i.e. violet and green were observed.

4.1.7. Development of DUS test guidelines for Kiwifruit



This project was initiated during financial year 2023-24 at Dr. Y. S. Parmar University of Horticulture and Forestry, Nauni, Solan for “Development of DUS testing guidelines for Kiwifruit.” The work is being carried out 50 seedlings (genotypes) were marked as experimental vines in kiwifruit germplasm block of Department of Fruit Science, Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan, H.P. The kiwifruit vines were subject to standard cultural management practices, viz, pruning, mulching, fertilization and irrigation in the month of January. The available germplasm comprised of 33 genotypes of *Actinidia chinensis* designated as Parmar Selections 1-33 (PS 1-33), 7 *Actinidia*



deliciosa cultivars viz., Allison (F), Abbot, Hayward, Bruno, Monty, Allison (M) and Tomouri (M) and 10 exotic cultivars of *Actinidia arguta* namely; Red Beauty, Arctic Beauty, Chung Bai, Issai, Cordifolia, Anna, 74-49 (M), Meader (M), Kens Red and MSU Kiwi. The sign board depicting project title, funding agency and duration of project was fixed at the entrance of germplasm block. Beside this, 2 more kiwifruit orchards at the same site were also marked for conducting DUS characterization in due course of time. Following the selection, the data on date of initiation of bud-burst, leaf initiation and date of initiation of flowering for each elected genotype under study were recorded.

4.1.8. Development of DUS testing guidelines for Makhana

This project was initiated during financial year 2023-24 at Department of Horticulture, BPS Agricultural College, Purnea, Bihar for “Development of DUS testing guidelines for Makhana”. After establishment of project centre has start collection of materials to identification of descriptors for morphological characteristics of Makhana for further development of DUS test guidelines on Makhana

4.1.9. Development of DUS testing guidelines for Mahua



This project was initiated during financial year 2023-24 at ICAR-CIAH, RS, CHES, Godhra, Vejalpur, Panchmahal, Gujarat for “Development of DUS testing guidelines for Mahua”. The work is being carried out, collection of materials planted at experimental farm in germplasm block of Mahua to identification of descriptors for morphological characteristics for further development of DUS test guidelines on Mahua.

4.1.10. Development of DUS testing guidelines for Summer Squash

This project was initiated during financial year 2023-24 at two locations i.e. ICAR-IARI, New Delhi and ICAR-IIHR, Bangalore for “Development of DUS testing guidelines for Summer Squash.” The work is being carried out, 40 accessions of summer squash were evaluated and characterised using DUS descriptor for



growth, flowering, fruit and seed traits. Wider variation was observed among the accessions for leaf length (14.6-26.5cm), petiole length (19.2-32.2cm), 50 % flowering (37.05 to 42.12 days), fruit length (12.3-42.6cm), fruit girth (25.3- 46.5cm),

average fruit weight (0.206-1.928 kg) and seed weight (10.03 to 100.01 g/fruit) for further development of DUS test guidelines on Summer Squash.

4.1.11. Development of DUS testing guidelines for Palmyrah

This project was initiated during financial year 2023-24 at HCRI, TNAU, Coimbatore for “Development of DUS testing guidelines for Palmyrah.” After establishment of DUS project, during current identification of DUS descriptors for morphological characteristics of Palmyrah genotypes will be carried out for further development of DUS test guidelines on Palmyrah.

4.1.12. Development of DUS testing guidelines for Karonda



This project was initiated during financial year 2023-24 at ICAR-CISH, Lucknow for “Development of DUS testing guidelines for Karonda”. The work is being carried out, exploration for newer genotypes was conducted at Ludhiana (Punjab), US Nagar (Uttarakhand) and Ayodhya (UP). One germplasm is collected from Ayodhya district of UP. The 12 germplasm of Karonda is being evaluated in the field gene bank (FGB) at the institute. Fruits and leaves attributes of available genotypes is being characterized in the FGB for further development of DUS test guidelines on Karonda.

4.1.13. Development of DUS testing guidelines for Quinoa spp. [*Chenopodium album*, *C. quinoa* and *Chenopodium quinoa* (Wild)]

This project was initiated during financial year 2023-24 at two locations i.e. ICAR-NBPGR, RS, Shimla for Quinoa sp. [*Chenopodium album*, *C. quinoa*] and UAS, GKVK, Bangalore for Quinoa spp. [*Chenopodium quinoa* (Wild)] for “Development of DUS testing guidelines for Quinoa sp.” After establishment of project centre has start collection of germplasm to identification of descriptors for morphological characteristics of Quinoa for further development of DUS test guidelines on Quinoa.

4.1.14. ‘Development of DUS test guidelines for Mesta (Kenaf - *Hibiscus cannabinus* L. & Roselle - *H. sabdariffa* L.)’ ICAR-CRIJAF and ARS,

Amadalavalasa

The project has following objectives:

- To develop DUS test guideline in kenaf and roselle
- To identify appropriate characteristics for the examination of DUS.
- To prepare harmonized descriptors of all available variety.
- To digitize DUS characteristics of all reference varieties.



Development of DUS test guideline, characterization of reference and example varieties and maintenance breeding: During entire crop growing season, a total of 31 characters (hypocotyl pigmentation, cotyledonary leaf margin colour, cotyledonary leaf collar pigmentation, leaf lobing pattern, leaf vein colour, leaf petiole pigmentation, leaf collar colour, leaf Pubescence, leaf length width ratio, leaf blade angle, stipule colour, stem colour, stem pubescence, presence of spine on stem, stem branching habit, plant height, days to 50% flowering, fibre strength, fibre fineness, flower bud colour, flower petal colour, flower eye zone colour, flower eye zone extension, flower stigma colour, fruit colour, calyx length, fruit pubescence, capsule dehiscence, seed shape, seed coat colour, thousand seed weight) were recorded. Among these characters studied, 22 characters (hypocotyl pigmentation, leaf lobing pattern, leaf vein colour, leaf petiole pigmentation, leaf collar colour, leaf Pubescence, stipule colour, stem colour, stem pubescence, presence of spine on stem, stem branching habit, plant height, fibre strength, fibre fineness, flower petal colour, flower eye zone colour, flower stigma colour, fruit colour, fruit pubescence, calyx length, seed coat colour, thousand seed weight) were found to be stable and uniform in expression in both the location over the years. Draft DUS test guideline was prepared considering

these 22 characters and presented before the Taskforce committee meeting held on 18.12.2024. DUS test guidelines was finalized incorporating all the suggestion received from taskforce committee members and submitted to the PPVFR Authority for consideration. Seeds of all varieties/lines have been multiplied for sowing in the upcoming season. Centre(s) are maintaining reference/example varieties in Kenaf (18 varieties) and Roselle (20 varieties).

ON-GOING PROJECTS FOR FARMERS VARIETIES CHARACTERISATION

4.1.15. Exploration, Characterization, Purification and Registration of Farmers Varieties prevailing in bio- diverse rich outreach areas of Madhya Pradesh

This project was initiated during financial year 2022-23 at DARS, SKUAST-K, Rangreth, Srinagar for “Purification and registration of niche specific Rajmash land races and farmers varieties from Kashmir valley” for 18 months. The project time period is over upto 31st March, 2024. This centre has studied on 17 landraces of farmers varieties. Six rajmash farmers varieties (PPR-4, PPR-5, PPR-6, PPR-13, PPR-16 and PPR-17) have been received for registration at PPVFRA.



4.1.16. Exploration, Characterization, Purification and Registration of Farmers Varieties prevailing in bio- diverse rich outreach areas of Madhya Pradesh

This project was initiated during financial year 2023-24 at JNKVV, Jabalpur for “Exploration, Characterization, Purification and Registration of Farmers Varieties prevailing in bio- diverse rich outreach areas of Madhya Pradesh”. This project objective is Collection of farmer’s varieties from tribal districts of Madhya Pradesh, after that, collected farmer’s varieties will be characterised and purified. The project outcome will be protection of

these farmers varieties through collection by JNKVV, Jabalpur.

4.1.17. Characterization, Purification and Registration of Barley (*Hordeum vulgare* L.) farmers varieties from high altitude, dry and wet temperate zone of Himachal Pradesh

This project was initiated during financial year 2023-24 at CSKHPKV, RWRC, Malan, Kangra, HP for “Characterization, Purification and Registration of Barley (*Hordeum vulgare* L.) farmers varieties from high altitude, dry and wet temperate zone of Himachal Pradesh. This project objective is Collection of farmer’s varieties from high altitude, dry and wet temperate zone of Himachal Pradesh, after that collected farmer’s varieties will be characterised and purified. The project outcome will be protection of these farmers varieties through registration of collected varieties of Barley.

4.1.18. Characterization of farmers’ grape varieties and their facilitation for registration with PPVFRA, Agharkar Research Institute, Pune

This project was initiated during financial year 2023-24 at Agharkar Research Institute, Pune for “Characterization of farmers’ grape varieties and their facilitation for registration with PPVFRA. This project objective is to facilitate farmers and collect their varieties, after that collected farmer’s varieties will be characterised and registered with PPVFRA.

4.1.19. Purification and Registration of Niche specific Paprika Land Races and Farmers Varieties from Kashmir Valley

This project was initiated during financial year 2023-24 at SKUAST-K, Srinagar for “Purification and Registration of Niche specific Paprika Land Races and Farmers Varieties from Kashmir Valley. This project objective is collection of farmers varieties from difference/ provinces of the valley. Thus far 10 landraces/ FVs have been collected from different ecologies ranging. The collected samples are distinct in morphology and growth habit with diverse culinary attributes. These collected varieties will be characterised and registered with PPVFRA.

5: Activities Related to Farmer

5.1. FIRST GLOBAL SYMPOSIUM ON FARMERS RIGHTS HELD AT NEW DELHI

In response to a request of the Ninth Session of the Governing Body, the Secretariat of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA), FAO, Rome organized the first Global Symposium on Farmers' Rights. The Symposium aimed to share experiences, innovative approaches, effective policies, and best practices and to learn from each other on implementing Farmers' Rights, as set out in Article 9 of the International Treaty.



The Global Symposium was hosted by the Government of India through the Ministry of Agriculture and Farmers' Welfare and the Protection of Plant Varieties and Farmers' Rights Authority (PPVFR), New Delhi in partnership with the Indian Council of Agricultural Research (ICAR) and the National Bureau of Plant Genetic Resources (NBPGR). It was held from 12 to 15 September 2023 at ICAR Convention Center, New Delhi.



The highlights of the Global Symposium included an inaugural ceremony with the Honorable President

of India as chief guest and conferment of "Indian Genome Saviour and Community Awards". Honorable President of India expressed her appreciation for the International Treaty for organising the event on Farmers' Rights in India. She spoke with conviction that "... our farmers since the beginning of civilisation are the real engineers and scientists.



They have harnessed the energies and bounties of nature for the benefit of humanity." She underscored the importance of the International Treaty "The International Treaty on Plant Genetic Resources for Food and Agriculture signed in 2001 was one of the most important international agreements among member countries to conserve, use, and manage plant genetic resources for food and agriculture. For the first time it talked about guaranteeing food security through conservation, exchange and sustainable use of the world's plant genetic resources for food and agriculture." Furthermore,



the President of India expressed her hope "...that the Global Symposium, the very first of its kind in the world, provides a golden opportunity for the world fraternity to align their priorities and programmes according to the need of humanity and to make a common commitment for the fulfillment of Farmers' Rights". The President of India conferred awards to six Indian farming communities and 20 Indian

individual farmers. Besides, the new office of PPVF



RA, Plant Authority Bhawan was inaugurated and an on-line system of filing application for plant variety registration named "Portal to Apply for Registration of Varieties" (PARV) was launched on this occasion by the Hon'ble Chief Guest.

Hon'ble Minister of Agriculture Shri Narendra Singh Tomar in his address, highlighted the efforts of India to protect Farmers Rights through the provisions of the PPVFR Act. Dr. T. Mohapatra Chairperson, PPVFRA welcomed the participants. Shri Manoj Ahuja, Secretary, Department of Agriculture and Farmers Welfare briefed about the objective of the Global Symposium.



The technical sessions were structured into five thematic sessions promoting sharing of experiences and learning from each other on implementing Farmers' Rights, with open discussions at the end of each session. The five thematic sessions were i) Options for Realizing Farmers' Rights as set out in Article 9 of the International Treaty, ii) Legal and other measures supporting the realization of Farmers' Rights, iii) International Processes and other issues of relevance to Farmers' Rights, iv) State of Implementation of Article 9 of the International Treaty and v) Future work on Farmers' Rights. In addition to the technical sessions, panel discussions and special events were organised to promote

focused discussions on specific topics and gather ideas that may facilitate the implementation of practical approaches to realising Farmers' Rights as well as to explore possible elements for future work on Farmers' Rights. The three special sessions were: i) South-South Cooperation on Farmers Rights, ii) Farmers Forum, and iii) Community Seed Bank and Value Chain.



About 700 participants from over 50 countries attended the event, comprising policymakers, farmers and farmers' organizations, non-government organizations, civil society organizations, and inter-governmental organizations, as well as dignitaries, senior government officials, and a large number of farmers from India.



The Global Symposium provided an opportunity for the participants to see India's crop diversity and to interact with Indian Plant Genome Saviour Awardees, farmer-scientists, farmer-producers and private seed

sectors in India. An exhibition on the conservation and use of PGR by the farmers, institutions of ICAR, NGOs, industry etc. were organised in which 50 stalls were raised. The exhibition was also inaugurated by the Hon'ble President of India. On the last day of the symposium, visit to the field and phenomics facility of IARI and Gene Bank of NBPGR was organised that provided the opportunity to get a glimpse of India's efforts to conserve and improve PGR for food and nutrition security.



The outputs of the Global Symposium include a comprehensive proceeding of the inaugural ceremony, presentations, and discussions at each session and event, and this summary report is an information document for the Tenth Session of the Governing Body. Based on deliberation, Delhi Framework on Farmers Rights was prepared and submitted to ITPGRFA by the Department of Agriculture and Farmers Welfare, Ministry of Agriculture, and Farmers Welfare, Government of India for presentation in the 10th GB of the ITPGRFA.

5.2. PLANT GENOME SAVIOUR COMMUNITY AWARD /REWARD/RECOGNITION

Plant Genome Saviour Community Award 2020-21

1. Yaha Mogi Mata Sthanik Biyane Sanvardhan Samiti, Dhadgaon, Block- Dhadgaon, Vill-Harankhuri, P.O.-Harankhuri, District: Nandurbar, Pin code- 425412, Maharashtra



2. Dalpur Sree Sree Gyanananda Saraswati Ashram, Chhatna, Dalpur, Kharbana, Bankura, West Bengal- 722137



3. Litchi Growers Association of Bihar Vill-Adarsh Nagar, Majhulia, P.O.- Dumri, Block-Mushahari, Dist- Muzaffarpur, Pin code- 843113, Bihar





Plant Genome Saviour Community Award 2021-22

1. Malabar Kaipad Farmers' Society
Ezhome Grama Panchayath Office, Block-
Kalliassery, Vill- Ezhome, P.O.- Ezhome, Dist-
Kannur, Pin code- 670334, Kerala



- 2 Kala Zeera Utpadan Sangh Block-Kalpa,
Vill- Shong, P.O.-Shong, Dist- Kinnaur,
Pin code- 172105, Himachal Pradesh



3. Bhagalpuri Katarni Dhan Utpadak Sangh Vill-
Jagdishpur, P.O.- Jagdishpur, Block- Jagdish-
pur, Dist- Bhagalpur, Pin code- 813105, Bihar



Plant Genome Saviour Farmer Rewards 2020-21



- 1 Mr. Raghuveer Nandam, Krishna, Andhra Pradesh



2 Mr. Balin Patra, Dhemaaji, Assam



3 Mr. Bijoy Lakhi Pame, Dhemaaji, Assam



4 Sri Arjun Singh, Rohtas, Bihar



5 Mr. Ramakanth Ramachandra Hegde, North Canara, Karnataka



6 Sri B. K. Devarao, Dakshina Kannada Karnataka



7 Mr. Salim. P.M., Wayanad, Kerala



8 Shri Praseed Kumar Thayyil, Wayanad, Kerala



9 Shri Sunil Kumar M., Wayanad, Kerala

Plant Genome Saviour Farmer Rewards 2021-22



1 Mr. Vinod E.R., Thrissur, Kerala



2 Shri John Joseph, Kozhikode, Kerala



3 Shri Dilip Kumar Singh, Rohtas, Bihar



4 Shri Satyadev Singh, Munger, Bihar



5 Shri Arjun Mandal, Jamui, Bihar



6 Ms. Lahri Bai Padiya, Dindori, Madhya Pradesh



7 Shri Gopal Datt Upreti, Almora, Uttarakhand

Plant Genome Saviour Farmer Recognition 2020-21



1 Smt. Parappy. A, Thiruvananthapuram, Kerala



2 Mr. Nimai Mondal, Dist-Nadia, West Bengal

Plant Genome Saviour Farmer Recognition 2021-22

1 Shri Garib Das, Paprola, Himachal Pradesh



2 Mr. Shreekishan Suman, Kota, Rajasthan

5.3 TRAINING-CUM-AWARENESS PROGRAMMES

The Protection of Plant Varieties and Farmers' Rights Authority (PPVFRA) conducts various Training-cum-Awareness programme on different provisions and sections of PPVFR Act, 2001 and its Rules and Regulations and provides financial assistance to the ICAR Institutes, IARI, Central Agriculture Universities (CAU), State Agricultural Universities (SAU), Affiliated Colleges/Institutes of CAU/SAU and other government or non-government organizations (NGO) for the organization of such kind of programme for the benefit of Agriculture Scientists/Researchers/Scholars/Students/Farmers and other stakeholders. During the reporting period of 2023-24 the PPVFR Authority has funded Rs. 66,75,563/- (Rupees Sixty Six Lakh Seventy-Five Thousand Five Hundred Sixty Three Only) for organization/co-organization of such kind of programme. The PPVFR Authority organized/co-organized the following activities during 2023-24;

Training cum Awareness Programmes and other activities organized/co-organized during 2023-24

Sr. No.	ACTIVITIES	Fund allotted	Total
1.	Awareness-cum-Training Programme	Rs. 25,55,003/-	29
2.	Exhibition & Fair	Rs. 11,70,560/-	10
3.	Seminar/Symposium/Conference	Rs. 26,50,000/-	9
Grand Total		Rs. 63,75,563/-	48

Training-cum-awareness programme

1. **Farmers' Training-cum-Awareness Programme at RVSKVV, Gwalior Held on 7th June, 2023**



A training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was organized in collaboration with Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV) Gwalior, Madhya Pradesh on 7th June, 2023 at Dattopant Thengedi Auditorium. The programme was conducted under the chairmanship of Dr. T. Mohapatra, Chairperson, PPVFRA, New Delhi. In his inaugural address, Dr. Mohapatra highlighted the importance of landraces, their conservation and registration of farmer's varieties with the PPVFRA. The programme was also graced by the Hon'ble Vice-Chancellor, RVSKVV, Dr. Arvind Kumar Shukla who spoke about farmers' varieties of the state and the need for such training programmes on PPVFR Act, 2001 to be conducted regularly through KVKs. Dr. R.C. Agrawal, DDG (Edu.), ICAR and former Registrar-General, PPVFRA, New Delhi described successful conduct of such farmers' awareness programmes in the past and highlighted some of the provisions of the Act in the context of international treaties.



2. Farmers' Training - cum - Awareness Programme at ICAR-CIAH, Bikaner Held on 26th June, 2023

A training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was organized in collaboration with the Central Institute For Arid Horticulture Bikaner (ICAR-CIAH) Rajasthan on 26th June, 2023 at the Institute Auditorium. The programme was started with the welcome address by Dr Jagdish Rane, Director ICAR-CIAH Bikaner. Dr. T. Mohapatra, Chairperson, PPVFRA, New Delhi, in his inaugural address, highlighted the role of farmers' in conservation of landraces especially in the Arid Zone of the country, and the importance of registration of farmer's varieties with the PPVFRA. The programme was also graced by the Director of Research SKRAU Bikaner, Dr. P. S. Shekhawat who spoke about the variety development programme at the university and about the farmers' varieties of the state. Dr. A. Sahu, Director NRCC, Bikaner highlighted about the conduct of such awareness programmes for the benefit of the farmers' and expressed that a similar system is required for animal breeds. Dr. Raj Narain, Principal Scientist, ATARI, Jodhpur attended the programme on behalf of the Director, ATARI and proposed for conducting a regional level awareness programmes involving all the KVKs of the Jodhpur zone.



3. Training-cum-Awareness Programme on PPV&FR Act, 2001 organized at GBPUAT, Pantnagar on 25th July, 2023.



A Training cum Awareness Programme on "Protection of Plant Varieties and Farmers' Right Act 2001" was organized jointly by G.B. Pant University of Agriculture & Technology, Pantnagar and Protection of Plant Varieties and Farmers' Right Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India on 25-07-2023 at Dr. Ratan Singh Auditorium, College of Veterinary & Animal Sciences, GBPUAT, Pantnagar, Uttarakhand for the farmers, students and faculty members. Dr. Trilochan Mohapatra, Chairperson, PPV&FRA, Former Secretary, DARE and Director General, ICAR, New Delhi graced the occasion as the chief guest. The programme was presided by Hon'ble Vice-Chancellor, Dr. Manmohan Singh Chauhan in the presence of Dr. Parvinder Kaushal, Vice-Chancellor, VCSG-UUHF, Bharsar as Special Guest; Dr. Lakshmi Kant, Director, VPKAS, Almora, Sri Umakant Dubey, Deputy Registrar, PPV&FRA, Dr. Sanjay Kumar, Director, Uttarakhand Council of Biotechnology, Haldi, Uttarakhand, Dr. Mamta Arya, Officer Incharge, ICAR-NBPGR Regional Centre, Bhowali, Deans and Directors of the University, faculties, staff and students of different colleges, and farmers from hills and plains of Uttarakhand.



In the technical session, Sri Umakant Dubey, Deputy Registrar, PPV&FRA presented an overview of the PPV&FR Act 2001 for the benefit of the farmers and scientists. He described various provisions in the Act, which protects the rights of the plant breeders as well as the farmers. He informed that 5276 registration certificates have been issued till date. DUS testing guidelines for 189 crop species have been completed. Authority has conferred 35 Community Plant Genome Saviour Awards, 51 Plant Genome Saviour Farmers rewards each and 80 Plant Genome Saviour Farmers recognition. He highlighted in detail different provisions regarding Farmers Rights.

4. Training-cum-awareness Programme on PPVFR Act, 2001 organized at ICAR-

Directorate of Floricultural Research, Pune on 24th July, 2023



A training-cum-awareness Programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was organized by ICAR-Directorate of Floricultural Research, Pune in collaboration with the Protection of Plants Varieties & Farmers Rights Authority, New Delhi at National Institute of Post-Harvest Technology (NIPHT), Talegaon Dabhade, Pune on 24th July 2023. The programme aimed to create awareness among the farmers about the importance of PPV&FR Act, 2001.



About 100 participants including progressive farmers, exporters, scientist and students attended the awareness programme. Various issues concerning protection of plant varieties were thoroughly discussed and it was decided to encourage farmers for registration of varieties being conserved or developed by them.

5. Training cum Awareness programme on PPV&FR Act, 2001 organized at BAU, Ranchi on 31st July, 2023



Training cum Awareness Programme on "Protection of Plant Varieties and Farmers' Right Act 2001" was

organized jointly by Birsa Agricultural University, Ranchi and Protection of Plant Varieties and Farmers' Right Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India on 31-07-2023 in the Auditorium of College of Agriculture, Birsa Agricultural University, Ranchi for the farmers, students, faculty members and other stakeholders. Dr. Trilochan Mohapatra, Chairperson, PPVFRA, Former Secretary, Agricultural Research and Education & Director General, ICAR, New Delhi graced the occasion along with the Chief Guest Dr. Mary Neelima Karketta, I.A.S. (Retired), Chairman, Jharkhand Public Service Commission, Jharkhand; Special Guest Dr. Dinesh Kumar Saxena, IFS, Additional Chief Conservator of Forest, Government of Jharkhand; Guest of Honour Dr. O.N. Singh, Vice Chancellor, Birsa Agricultural University, Ranchi; Convener Dr. S. Karmakar, DSF, BAU, Ranchi; Dr. Sujay Rakshit, Director, ICAR- IIAB, Ranchi; Dr. Abhijit Kar, Director, National Institute of Secondary Agriculture, Ranchi; Dr. Vishal Nath, OSD, ICAR- IARI, Jharkhand; Dr. A.K. Singh, Head, ICAR- Research Centre, Plandu; Dr. Nimai Prasad Mandal, Principal Scientist, NRRI, Centre, Hazaribagh; Dr. Shashi Bhushan Chaudhary, Officer In-charge, NBPGR, Ranchi; Deans and Directors, Registrars and Professors of BAU, Ranchi; KVK Heads/Scientists; students of different colleges and farmers from different areas of the Ranchi and adjacent districts of the state.



Dr. Trilochan Mohapatra, Chairperson, PPVFRA and Former Secretary, DARE and Director General, ICAR, New Delhi in his presidential remark discussed briefly about the rights of farmers and plant breeders. He described about the functioning of authority, registration criteria, honours and awards etc. He highlighted the importance of registration of traditional farmer varieties having climate resilience with PPVFRA. He emphasized that KVK should play an important role for protection of Intellectual Property Rights and progress in this field in Jharkhand. He highlighted the care of Jackfruit variety "Siddu" and how it has benefited the farmer from Karnataka who got the variety registered with PPVFRA.

In the technical session, Sri Umakant Dubey, Deputy Registrar, PPVFRA presented an overview of the PPVFR Act, 2001 for the benefit of the farmers, scientists and students. He described various provisions in the PPVFR Act, 2001, which protects the rights of the plant breeders as well as the farmers. He informed that 5285 registration certificates have been issued till date, about 40% of these issued to farmers. He discussed various aspects of farmers' rights explained the major steps in variety registration with PPVFRA for grant of protection.

6. Training cum Awareness programme on PPVFR Act, 2001 organized at ICAR-Sugarcane Breeding Institute, Coimbatore on 31st July, 2023



A Training cum Awareness programme on Protection of Plant Varieties and Farmers' Rights Act, 2001 was organized jointly by the ICAR-Sugarcane Breeding Institute, Coimbatore and the PPVFR Authority, Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi at Coimbatore on 31st July, 2023 for the benefit of farmers, students, research scholars, and scientific personnel. The inaugural programme was presided over by Dr. G. Hemaprabha, Director, ICAR-SBI, Coimbatore. Shri Raj Ganesh, Legal Officer, PPVFR Authority, New Delhi and Mrs. R. Rajalakshmi, Advocate (IPR) and Heads of Division, Heads of Section, Administrative Officers and Finance and Account Officers of ICAR-SBI graced the inaugural function. The programme got overwhelming response. Though initially the number of participants was restricted to 100, due to requests from different stakeholders, finally 170 participants were enrolled. Dr. S. Alarmelu, Principal Scientist, & PI- DUS Project, ICAR-SBI, Coimbatore welcomed the gathering and introduced the speakers. Dr. G. Hemaprabha, in her inaugural address, gave a brief account of the genesis, importance and benefits of the PPVFR Act, 2001 for the farmers and researchers. She emphasized the value of conserving traditional varieties, encouraged participation of women farmers in biodiversity related meetings and programmes. Mrs R. Rajalakshmi, Advocate gave a lecture on the Intellectual Property Rights and their

importance in agriculture and allied sectors. Shri Raj Ganesh, Legal Officer, PPVFR Authority, in his address to the participants, highlighted the need of PPVFR Act, 2001 and various provisions of the Act. Dr. R. Karuppayyan, Principal Scientist, ICAR-SBI and Nodal Officer, DUS Projects, delivered a talk on the Plant Breeders' rights and Farmers' rights envisaged under the Act. Dr. S. Alarmelu, Principal Scientist, in her talk highlighted various provisions of the PPVFR Act, 2001 and successful implementation of the Act in India. Dr. K. Rathinavel, Principal Scientist, ICAR-Central Institute for Cotton Research, Regional Centre, Coimbatore spoke on Registration Process of Farmer's Varieties and Extant Varieties under the PPVFR Act, 2001 and DUS guidelines in Cotton. A field visit to the DUS testing facility at Sugarcane-ICAR SBI Coimbatore was organized and overseen by Dr. V. Sreenivasa, PI-DUS Project, Agali Centre.



7. Training cum Awareness Programme on Protection of Plant Varieties and Farmers' Rights Act at ICAR-VPKAS, Almora organized on 28th September, 2023



The Regional Training cum Awareness Programme on "Protection of Plant Varieties and Farmers' Right Act 2001" was organized jointly by ICAR-VPKAS, Almora and Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture and Farmers Welfare, Govt. of India on 28-09-2023 at ICAR-VPKAS, Experimental Farm, Hawalbagh Almora, Uttarakhand to create awareness among the officials of local KVKs, NGOs, farmers, staff, students and other stakeholders for protecting plant varieties.

Approx 120 farmers, PGSC Awardees, representatives of FPOs, students, KVK staff, scientists from ICAR-VPKAS participated in the programme.

Dr. Lakshmi Kant, Director ICAR-VPKAS, Almora explained PPVFRA's role in the protection of plant breeders' rights, the promotion of farmers' rights, agricultural innovation, economic benefits, knowledge dissemination and international cooperation and encouraged the farmers to secure ownership rights for their varieties through their registration with PPV& FR Authority, New Delhi.



Shri Dipal Roy Choudhury, Joint Registrar, PPVFRA presented an overview of the PPVFR Act, 2001 and talked about the various provisions to safeguard the rights of both plant breeders and farmers, functioning of authority, registration criteria, PGSC awards etc. He highlighted the various successful examples of registered FVs with PPVFRA that are befitting farmers of the country. He also interacted with the audience and addressed all queries asked by farmers, scientist and other stakeholders.

8. Awareness and sensitization programme on PPVFR Act 2001, conservation and registration of farmer's varieties and Farmers' rights, & exhibition at ICAR, KVK, Kottayam



An awareness programme for sensitizing farmers and officials of KVKs from Kerala, Karnataka and Lakshadweep on Protection of Plant Varieties and Farmers Rights Act 2001 was organized by ICAR-ATARI Bangalore in association with the IPR, Cell, Kerala Agricultural University, Thrissur, Kerala at Kottayam on 14th October, 2023. The program was inaugurated by lighting of lamps by Dr. T Mohapatra, Chairperson, PPVFR Authority, Government of

India New Delhi and the Dignitaries present on the occasion. Dr. Venkatasubramanian, Director, ATARI, Bengaluru welcomed the gathering and briefed about the need to conserve, protect and register plant genetic resources of the country. Dr. Dinesh Kumar Agarwal, Registrar-General, Protection of Plant Varieties and Farmers Rights Authority, Government of India, New Delhi described the activities of PPVFR Act. He informed that out of 18192 applications received for registration under PPVFRA, 60% are farmers' varieties. He opined that KVKs can help characterization of genetic resources and mapping of farmers' varieties in each District. Further KVKs and even the FPOs can facilitate multiplication of seeds of the valuable protected varieties and supply to the farmers. In his address, Dr. V K Singh, Director CRIDA, Hyderabad said that given the climatic constraints, Indian Agriculture should take advantage of the wide variation in genetic resources as available in Western Ghats. Organic cultivation of high value local variation has high potential for carbon sequestration and for making the farm climate resilient. In this context, PPVFRA and NICRA have common goals.



Dr. Trilochan Mohapatra, Chairperson, Protection of Plant Varieties and Farmers Rights Authority, Government of India, New Delhi in his inaugural address stated that farmers of the country have unique collection of germplasm that are very useful under climate change. He appreciated the role played by KVKs in protecting the genetic wealth available with the farmers and supporting them for getting it registered. He emphasized on building value chains and linking farmer's varieties to markets for higher returns. Around twenty selected farmers were honored for their contribution in conserving, protecting and cultivating indigenous crop varieties.

9. Awareness- cum- Training programme on PPVFR Act, 2001 organized by ICAR-Central Tuber Crops Research Institute, Thiruvananthapuram at ICAR-KVK, Namakkal, Tamil Nadu on 26 October 2023

Awareness cum Training programme on Protection of Plant Varieties and Farmers' Rights Act, 2001 was organized by the ICAR-Central Tuber Crops Research

Institute, Thiruvananthapuram at ICAR-KVK Namakkal, Tamil Nadu on 26 October 2023 for the benefit of farmers, students and other stakeholders. The programme was sponsored by PPVFR Authority, Ministry of Agriculture and Farmers' Welfare, Government of India, New Delhi. Dr. P. Murugesan, Principal Scientist and Organizing Secretary, ICAR-CTCRI introduced the programme and welcomed the gathering. The programme was presided over by Dr. G. Byju, Director, ICAR-CTCRI, Thiruvananthapuram. Shri. D.S. Rajganes, Legal Advisor, PPVFR Authority, New Delhi, Dr. M. Selvaraju, Dean, VC&RI, TANUVAS, Namakkal and Dr. P.P. Murugan, Director of Extension Education, TNAU, Coimbatore graced the inaugural function as Guests of Honour.



In the technical session, Shri. Raj Ganesh, Legal Advisor, PPVFR Authority highlighted the need of PPVFR Act, 2001 and various provisions of the Act. Dr. P. Murugesan, Principal Scientist, ICAR-CTCRI delivered a talk on the released varieties of tuber crops, facilitation of registration of traditional varieties under the PPVFR Act, 2001 and DUS guidelines in tuber crops. Dr. D. Jaganathan, Senior Scientist, ICAR-CTCRI, Thiruvananthapuram highlighted the importance of ITKs and farmers' innovations in sustainable development of tuber crops sector.



10. Training-Cum Awareness Programme and Exhibition at Prof. Rajendra Singh (Rajju Bhaiya) University, Prayagraj on 24.02.2024



A training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was organized in collaboration with the Prof. Rajendra Singh (Rajju Bhaiya) University (PRSU), Prayagraj on 24th February, 2024 at conference hall of Administrative Block, PRSU, Prayagraj. The programme started with the welcome address by Prof. RajKumar Gupta, Coordinator, Faculty of Agriculture, PRSU, Prayagraj. Dr. Dinesh Kumar Agarwal, Registrar-General, PPVFR Authority in his introductory address highlighted various provisions under the PPVFR Act, 2001 and appealed to the farmers to come forward for filing of application to register their varieties and avail the other benefits of the farmers rights under the PPVFR Act, 2001.



Dr. T. Mohapatra, Chairperson, PPVFR Authority, New Delhi in his inaugural address highlighted the role of farmers in conservation of land races of the Gangetic region, specially Prayagraj and nearby districts of Uttar Pradesh. Further, he expressed his concern about the less number of applications from the largest state, Uttar Pradesh and urged the farmers to submit the application along with the seeds of the varieties being conserved/grown by them.

11. Participation of PPVFR Authority in the 03rd International Conference on Sustainable Development Goals and organization of a Training-Cum Awareness Programme at Deen Dayal Research Institute, Chitrakoot on 25th to 27th February, 2024.

Protection of Plant Varieties and Farmers Rights Authority participated in the 03rd International Conference on Sustainable Development Goals organized by Deen Dayal Research Institute, Chitrakoot, Uttar Pradesh during 25th to 27th February, 2024. A special session on training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was held on 26th February, 2024. The Conference and Exhibition was inaugurated on 25th Feb, 2024 in the presence of national and international experts working on sustainable agriculture and livelihoods.

A special technical session on PPVFR Act 2001 was organized on 26.02.24 at Vivekanand Sabhaghaar of the institute. The technical session was chaired by Dr. T. Mohapatra, Chairperson and Co-chaired by Dr. Dinesh Kumar Agarwal, PPVFRA. Sh. Uma Kant Dubey, Deputy Registrar made a presentation and provided an overview of the PPVFR Act, 2001. Dr. Ravi Prakash, Technical Consultant, PPVFRA, elaborated on the various provisions of farmers rights and benefit to the farmers engaged in conservation of traditional varieties and its for registration under the PPVFR Act 2001. Dr. Dinesh Kumar Agarwal, Registrar-General in his address highlighted about the importance of such training and awareness programme for the benefits of farmers and urged the farmers to come forward for filing of the application for registration of varieties conserved by them.

Dr. T. Mohapatra in his inaugural address highlighted the role of farmers in conservation of land races especially in Bundelkhand regions of Uttar Pradesh where farmers depends on rainfed agriculture. He specifically described the efforts of the farmers and importance of biodiversity conservation in achieving the sustainable development goals.



12. State Level Training-Cum Awareness Programme on Protection of Plant Varieties and Farmers' Rights Act, 2001 Organised at Shilpgram Auditorium Deoghar on 5.03.2024



A State level training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was organized in collaboration with the ICAR- Agricultural Technology Application, Research Institute (ATARI), Zone-IV, Patna, Bihar. The programme was coordinated by KVK, Deoghar and held at Shilpgram Auditorium, Deoghar, Jharkhand. The first session of the program was Expert and Farmers Meet which was chaired by Dr. T. Mohapatra, Chairperson, PPVFR Authority, New Delhi and Co-chaired by Dr. S. C. Dubey, Hon'ble Vice Chancellor of Birsa Agricultural University, Ranchi. Dr. Anjani Kumar, Director, ICAR-ATARI, Patna and Dr. Dinesh Kumar Agarwal, Registrar-General, PPVFRA were the Guests of Honour. Program started with the welcome address By Shri Uma Kant Dubey, Dy, Registrar, PPVFRA. A detailed presentation on various provisions under PPVFR Act, 2001 with special emphasis on Farmers Rights was made by Dr. Ravi Prakash, Technical Consultant, PPVFRA. After the technical presentation house was open for interaction with the Farmers, KVK Scientists and officials.



Participation of PPVFR Authority in the XVI Agricultural Science Congress and ASC EXPO, held at Hotel Le Meridian, Cochin, Kerala from 10-13, October, 2023

The XVI Agriculture Science Congress was organized by the National Academy of Agricultural Sciences (NAAS), NASC Complex, New Delhi from 10-13 October, 2023 at Hotel Le Maridian, Cochin, Kerala.



The programme was inaugurated by Hon'ble Union Cabinet Minister of Fisheries, Animal Husbandry and Dairying, Govt. of India on 10-10-2023. The Protection of Plant Varieties and Farmers Rights Authority participated in the Congress. Dr. T. Mohapatra, Chairperson, PPVFR Authority chaired the Presidential Address delivered by Dr. H. Pathak, Secretary, DARE and DG, ICAR, and NAAS New Delhi in the afternoon of 10th October 2023. Dr. Mohapatra made an excellent summary of the presentation made by Dr. Pathak. Dr. Mohapatra also Co-chaired a session on "Advances in Genomics and CRISPR-CasSystems for crop Improvement" on 11th October, 2023. While summarizing the presentations, Dr. Mahapatra listed a few action points for immediate commercial application of gene edited crops in the country. Besides, Dr. Mohapatra delivered a Plenary Lecture on "Biotechnology for sustainable use of biodiversity to transform food system" on 12th October 2023 at 9 AM. The lecture was very well received.



Participation in the ASC EXPO

During Agriculture Science Congress an exhibition was arranged for various organizations to showcase their activities by displaying live material and posters /charts/ videos. Accordingly, the PPVFR Authority participated in the Exhibition and put up a stall and displayed posters and charts on activities/provisions of PPVFR Act, 2001. Live samples of the PGSC Awardee Farmers from Karnataka and Kerala were also displayed. Booklet and brochures on the PPVFR Act 2001, Farmers Rights and PGSC Awards were distributed to the participants who visited the stall. The Hon'ble Minister of Fisheries, Animal Husbandry and Dairying, Govt. of India Shri Parshottam Rupala ji visited the exhibition and he was presented a grafted plant of Farmers' variety of jackfruit named "Siddu" by the PGS Awardee farmers Shri S S Parmesh from Karnataka.

Special technical session on 12.10.2023



A special technical session on Protection of Plant Varieties and Farmers Rights in India was organised on 12.10.2023. The PPVFR Authority arranged for the special technical session. The theme of the Special Session was "Role of PPVFRA on Transformation of Agri-Food System for Achieving Sustainable Developmental Goals". The session was Chaired by Dr. P. L. Gautam, Former Chairperson, PPVFRA and co-chaired by Dr. Anupam Mishra, Vice Chancellor, CAU, Imphal, Manipur.

Participation in the International Convention on Millets, November 09-10, 2023 at Bhubaneswar



The "International Convention on Millets" was organized during November 09-10, 2023 at Janta Maidan, Bhubaneswar, by the Govt of Odisha under the overall guidance of the Principal Secretary Agriculture and Farmers Development, Dr. Arabinda Kumar Padhee. It was inaugurated by Sh. Naveen Patnaik, Hon'ble Chief Minister of Odisha. Foreign country delegates, Scientists and Researchers from ICAR, SAUs/CAUs, Universities, Government departments, private sector and thousands of farmers, community and SHG members participated during the two-day programme. Key activities included: Technical sessions on Agro-biodiversity; Nutrition, Production and Productivity; Machinery and Technology Demonstration; Start Up Challenges; Policy Round Tables; Business Meet and Millet Food Cooking Festival.

A plenary session on *Agro-biodiversity and Landraces of Millets* was held on 9th November, 2023 under the Chairmanship of Dr. Trilochan Mohapatra, Chairperson, PPV&FRA, New Delhi. Apart from custodian farmers, Mr. Takayuki Hagiwara, FAO Country Representative (India); Dr Israel Olivier King, Director (Biodiversity), MSSRF; Dr. JC Rana, Country Coordinator, Bioversity International graced the occasion. At the outset, Mr. Susanta Sekhar Choudhury (Moderator of the Session), welcomed all the dignitaries and the delegates. Millet Farmers, policy makers, researchers, representatives from civil society and students participated in the deliberations.



Dr. T. Mohapatra, Chairman of the session while giving his concluding remarks appreciated the contributors in the session for highlighting important points. He spoke about the plant variety registration under PPV&FR Act, 2001 and trait based germplasm registration at ICAR-NBPGR. He encouraged the farmers for millet cultivation and congratulated Odisha Millet Mission, Govt. of Odisha and Govt. of India for their support for cultivation, consumption and promotion of millets. He pointed out that Odisha took a lead in registration of farmers' varieties by painstakingly documenting rice land races across different districts and getting 787 farmer varieties in rice registered, which is about 31% of the total of 2537 farmers' varieties registered with the PPVFR Authority in different crops till date. Given the diversity of millets in districts like Koraput, Nayagarh, Rayagada, Sundargarh etc, there has to be more efforts for registration of farmers varieties of millets from Odisha, Dr. Mohapatra emphasized. The chairman also suggested creation of value chains and special brands using farmers varieties for more income generation for farmers.

Participating in the International Conference on Next-Gen Preparedness for Food Security and Environment Sustainability held from 22nd to 24th Nov, 2023 at Assam Agriculture University, Jorhat

An International Conference on "Next-Gen Preparedness for Food Security and Environment Sustainability" was organized from 22nd to 24th November 2023 by the Assam Agricultural University, Jorhat to commemorate the centenary year of the Rice Research Station at Titabor.



The conference was inaugurated on

Wednesday 22nd Nov, 2023 by Dr. Trilochan Mohapatra, Chairperson, PPVFRA and Former Secretary and DG, ICAR, Govt. of India, New Delhi as the Chief Guest. In his inaugural address, Dr. Mohapatra emphasized on building a sustainable Food System through proper use of available natural resources. He highlighted the importance of farmers' contribution in conservation of landraces especially in North East region of the country, and the importance of registration of farmer's varieties with the PPVFRA under the PPVFR Act, 2001. He mentioned the need to make agriculture profitable without compromising the ecology and health of the environment. In this regard, the traditional/local varieties, germplasm resources and wild relatives, which are abundant, can be of immense use, he pointed out.



The inaugural session was followed by 11 Technical Sessions and two special sessions, one on IIRI, Philippines and one on PPVFR Act, 2001. There were 12 keynotes lectures, 35 lead lectures, 18 invited lectures, 134 oral presentations and 203 poster presentations in the conference. The special session on PPVFR Act, 2001 was chaired by Dr. A. Pattanayak, Former Director, VPKAS and IIAB, Ranchi and Co-Chaired by Dr. Bhattacharya, Associate Dean, College of Agriculture, Burdwan, BCKV, Kalayani.

Sh. U.K. Dubey, Dy. Registrar, PPVFRA, Ministry of Agriculture, GOI delivered a lead lecture on "An overview of PPVFRA Act, 2001".

Participation of PPVFR Authority in the North-East India Farmers Conclave on 14th December 2023, organized during North-East Agri. Fair 2023-24 at Dimapur, Nagaland and Visit to DUS Centres, on Rice, Lemon grass, Tea and Bamboo in the state of Assam



Protection of Plant Varieties and Farmers Rights Authority participated in the North- East India Farmers conclave on 14th December 2023 organized by Central Agricultural University, Imphal, Manipur during North East Agri. Fair 2023-24 at Dimapur, Nagaland. The Exhibition was inaugurated by Dr. P.K. Joshi, Chancellor, CAU, Imphal in the presence of Dr. Anupam Mishra, Vice-chancellor, CAU, Manipur and other scientists from University and KVKs under ATARI Zone Guwahati and Meghalaya.

A special technical session on training-cum-awareness programme on Protection of Plant Varieties and Farmers Rights Act, 2001 was held in the forenoon of the 14th December 2023. The session was chaired by Dr. Dinesh Kumar Agarwal, Registrar-General, PPVFRA and co-chaired By Dr. Nagchen Ex-Director, ICAR-RCNEH, Umiam, Meghalaya. Dr. Atul Chandra Sharma, Ex-Joint Director Agriculture, Govt. of Assam and Ex-Deputy Registrar, PPVFRA, Guwahati Branch made a presentation on Conservation & Protection of Traditional Varieties of North-East region of the country.

Dr. Ravi Prakash, Technical Consultant, PPVFRA, elaborated on the PPVFR Act, 2001, various provisions on farmer's rights and benefit to the farmers for registration of traditional varieties maintained by the farmers. Dr. Dinesh Kumar Agarwal, Registrar-General in his address highlighted the role of farmers in conservation of land races especially in North-Eastern region of the country where farmers depends on natural / organic farming practices. He specifically described the efforts of the tribal farmers and importance of biodiversity conservation. A lively interactive session was conducted involving farmers, students and representatives. While sharing of experience, many farmers interacted and spoke about their efforts for conservation and cultivation of traditional varieties of cereals, pulses, millets and medicinal and aromatic plants. The program was attended by more than 200 farmers, students and KVK officials.

Visit to North-East Institute of Science and Technology, Jorhat

In the afternoon on 14th December, 2023 visit was made to the laboratory of North-East Institute of Science and Technology and experimental fields of Lemon Grass and other medicinal and aromatic plant species. A brief Meeting was held with the Director and concerned scientists regarding the possibilities of expanding the list of medicinal and aromatic plant species for development of DUS test guideline.

Field visit to DUS test centre on Rice

A field visit to DUS test centre on rice located at Assam Agricultural University was conducted in the forenoon of 15th December and interaction meeting was held with the higher officials, PI and other scientists of the centre.



Visit to Rain Forest Research Institute



In the afternoon of 15th December, 2023, a visit was conducted to the Rain Forest Research Institute (RFRI), Jorhat. A meeting was held with concerned scientists about the possibilities of reinitiating the programme on development of DUS test guidelines for Bamboo species. After the formal interaction, the field Gene Bank and the Bambusetum located at RFRI were visited. Wide genetic diversity maintained by the institute was appreciated.

Field visit to DUS test centre on Tea

In the evening of 15th December, visit was conducted to the Tocklai Tea Research Station located at Jorhat and interaction meeting was held with the officials and scientific staff of the institute. Monitoring of the DUS experimental field of the institute was done. On 16th December, 2023, field visit has made to the Tea Nursery and production plots of Tea Research Institute located at Borghetta.

PPVFRA, New Delhi Organises Online Exchange (Hybrid Seminar) in Collaboration with Federal Plant Variety Office (BSA) of Germany under Indo-German Cooperation on Seed Sector Development



PPVFR Authority, New Delhi organised an online exchange programme for two days series on E-Processing and Management of DUS Testing in Collaboration with Federal Plant Variety Office (BSA) of Germany under Indo-German Cooperation on Seed Sector Development on 25th and 26th May, 2023 at ICAR-NBPGR, New Delhi. It was attended by 120 participants including PIs of various DUS Centres across India. Mr. Ekkehard Schroeder, Team Leader of Indo-German Cooperation on Seed Sector Development Programme gave a brief outline of activities carried out under the programme in all 3 phases. Dr. Dinesh K. Agarwal, Registrar-General, PPVFRA, while welcoming the guests highlighted the objectives of the programme. Shri Pankaj Yadav, Joint Secretary, Department of Agriculture and Farmers Welfare, MoAFW joined the programme along with others officials online and underlined the importance of such programmes for the country. Dr. G.P. Singh, Director, ICAR-NBPGR, New Delhi also marked his gracious presence and provided his viewpoints. Dr. T. Mohapatra, Chairperson, PPVFRA, Govt. of India outlined the need for adoption of modern tools in Indian DUS Testing following global standards and best practices adopted elsewhere. Dr. Swenja Tams, Bundessortenamt welcomed all the participants on behalf of President, BSA. Four presentations on the following topics were delivered by the German Experts:

- i) Overview of Data Management System at Federal Plant Variety Office (BSA), Germany by Dr. Swenja Tams, Head of the Section, General Affairs of DUS Testing, Federal Plant Variety Office (BSA), Germany
- ii) Examples of Application Procedures on Rapeseed/Mustard at BSA Station in Scharnhorst by Mr. Thomas Gildemeister, Oilseed DUS Expert, Federal Plant Variety Office (BSA), Germany
- iii) Role of Tools such as Field Books, Data Loggers and Image Analysis for the Data Application, Data Management and Plausibility Checks on rapeseed/Mustard at

BSA Station in Scharnhorst by Mr. Thomas Gildemeister

- iv) Evaluation of DUS-testing Data Example on Rapeseed/Mustard at BSA by Mr. Thomas Gildemeister



The two days-long event from PPVFRA side was coordinated by Dr. Ravi Prakash, Technical Consultant. The other officials who attended include Shri D.R. Choudhury, Joint Registrar, Shri Uma Kant Dubey, Deputy Registrar, Shri D.S. Raj Ganesh & Shri Arun Kumar, Legal Advisor and Dr. D.S. Pilia, Technical Assistant; and Dr. Sowmini Sunkara, Consultant on the German side. Participants interacted with the experts and explored the possibilities of adopting the same in Indian context.

PPVFRA, New Delhi Organises Online Exchange (Hybrid Seminar) on DUS Databases and DUS Data Use for Decision Making in Collaboration with Federal Plant Variety Office (BSA), Germany under Indo-German Cooperation on Seed Sector Development

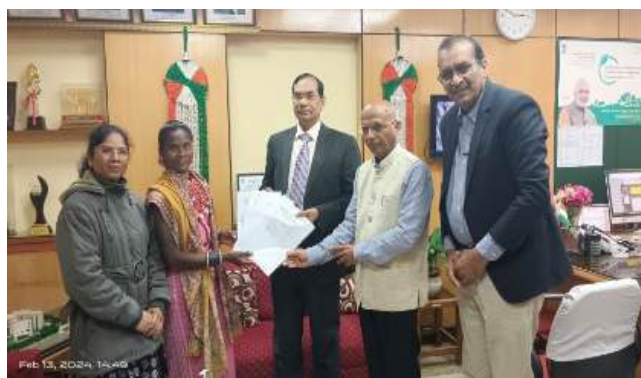


An Online Exchange (Hybrid Seminar) on DUS Databases and DUS Data Use for Decision Making was organized by PPVFRA, New Delhi in Collaboration with Federal Plant Variety Office (BSA) Germany under Indo-German Cooperation on Seed Sector Development on 17th November, 2023 in the NAAS committee Room-I, New Delhi. Scientists from IIHR attended from their conference hall at the Institute at Bangalore online. The programme was attended by more than 125 participants including Pls of various DUS Centres across India. Dr. Dinesh Kumar Agarwal, Registrar General, PPV&FRA, welcomed the participants and highlighted the objective of the programme. Mr. Ekkehard Schroeder, Team Leader of Indo-German Cooperation on Seed Sector Development Programme gave a brief outline of activities and thanked the PPVFRA for conducting the programme along with the foundation day Celebration of the Authority. Dr. T. Mohapatra, Chairperson, PPVFRA, Govt. of India in his remarks outlined the importance of such programme in decision making while processing the data for Protection of Plant varieties. He appreciated the efforts of the German Project Team leader Mr. Ekkehard Schroeder and his team for pro-active approach in implementation of the project and arranging the experts for the online seminar. From the Indian side Mr. D.R. Choudhury, Joint Registrar, PPV&FRA, New Delhi made a presentation on Procedures and tools for plant variety registration and protection, DUS examination and decision making in India. Dr Wim Sangster, DUS Specialist at Naktuinbouw (the Netherlands Inspection Service for Horticulture) gave a short introduction about Naktuinbouw and shared his experience on DUS data use for decision making in DUS trials. He also gave an elaborate talk on DUS Trial Layout and Planning of Trials – Experiences at Naktuinbouw. From CPVO, Dr Jens Wegner, Expert of Plant Variety Expertise Unit at CPVO made a presentation on Application for PVP at CPVO in Europe – system & procedures, cooperation with National Plant Variety Examination offices and illustration of CPVO's Variety Finder database.



The online seminar was coordinated by Dr Sowmini Sunkara, National Project Coordinator from German side and from PPVFRA side the programme was coordinated by Dr. Ravi Prakash, Technical Consultant. The other officials who attended include Shri D.R. Choudhury, Joint Registrar, Shri Uma Kant Dubey, Deputy Registrar, Shri D.S. Raj Ganesh & Shri Arun Kumar, Legal Advisors, Dr. D.S. Pania, Technical Assistant, and all PVERAs and SRFs. The Pls of various Crops at DUS centre located at IARI, New Delhi, Dr K.G. Chikappa, Dr Amish K. Sureja, Dr Shrawan Singh, Dr R.K. Yadav, Dr Gograj Singh and Dr. Anil Khar Participated and interacted with the experts during Question & Answer Session. Seminar ended with the closing remarks of Dr. Trilochan Mohapatra, Chairperson, PPV&FRA, New Delhi and vote of thanks to experts and participants.

Ms. Lahari Bai, who is considered the brand ambassador of Shree Anna in the country, presented the application form to Dr. Trilochan Mohapatra, Chairman of Plant Varieties and Farmers' Rights Protection Authority, on 13 February 2024, for the registration of farmer varieties.



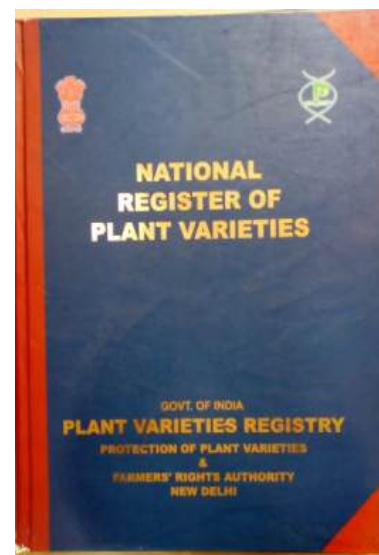
6: Plant Variety Journal of India, National Register of Plant Varieties and Publications of the Authority

6.1 PLANT VARIETY JOURNAL OF INDIA

In accordance with Rule 2(g) of PPVFR Rules, 2003 the Authority publishes its official journal “Plant Variety Journal of India” (PVJ) as a monthly publication and made available to public each month on its official website. This Journal has the equivalent status of a Gazette under the PPVFR Regulations, 2006. The contents of Journal include official and public notices, Gazette notifications, passport data of plant varieties along with photographs, published DUS test guidelines of different crop species, details of certificate of registration and other related official matters and notices.

6.2 NATIONAL REGISTER OF PLANT VARIETIES

The PPVFR Authority, in compliance with section 13 of the PPVFR Act, 2001, has opened the National Register of Plant Varieties at the Headquarters of the Plant Varieties Registry. It contains complete details of the names of all the registered plant varieties along with the names and addresses of the respective breeders, denomination, specifications, salient features etc.



7:Development of Database, IINDUS, Website and Information and Communication Technology (ICT)

7.1 WEBSITE:

The official website i.e. <https://plantauthority.gov.in/> of the Protection of Plant Varieties and Farmers' Rights Authority (PPVFRA) has been running on secure NIC cloud server. The feature of cloud server is scalability/elasticity, more performance, improved disaster recovery system. The website is maintained in bilingual (Hindi & English). The web pages are improved as per requirement in Hindi as well as English version of Authority website. The new crop group and their crop name are introduced followed by botanical name along with crop DUS guidelines in downloadable format in pdf. Total 197 crop species have been listed. Other web pages designed and maintained are Plant Genome Saviour Community award and Plant Genome Saviour Farmers Reward & Recognition, RTI page, Plant Varieties Registry related information webpage, Annual Report and Annual Account webpage, about the employees of the Authority, list of registration open 197 crops species under the category of New Variety, 197 crop species under the category Extant/Farmer Variety and important Gazette notifications webpage etc.

The online portal for registration of plant varieties i.e., Portal to Apply for Registration of Plant Varieties (PARV) has been launched on September 12, 2023 by Hon'ble President of India during the inaugural ceremony of First Global Symposium on Farmers' Rights.

7.2 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

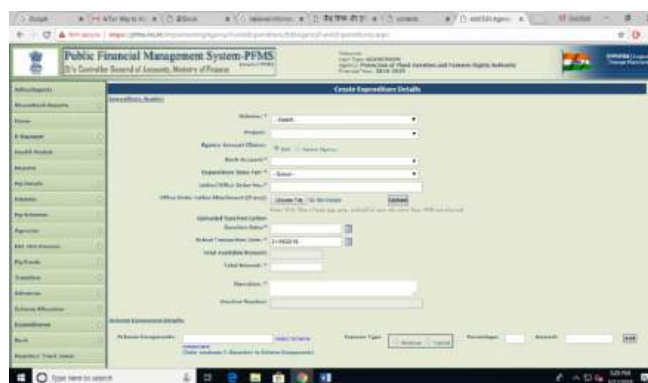
The Authority invites tenders on Central Public procurement portal (<https://eprocure.gov.in/eprocure/app>), purchase goods and services from Government-e-Marketplace (GeM), update General Pool Residential Accommodation (<https://esampada.mohua.gov.in/signin/>), Online RTI Application receiving and reply to the information sought by the department are provided in the time bound manner. Quarterly reports updation is being done on the CIC portal regularly (<http://dsscic.nic.in/users/pn-login>), National Pension System Contributions Accounting System (<https://npscan-cra.com/CRA/>) are updated, Representation of Reserved Categories in Posts and Services in Govt. of India Monitoring System (<http://www.rrcps.nic.in/>)

in/) are also updated. The Authority is also trying to fulfill the concept of national e-governance and has taken initiatives in this regard.

7.3 PARV - [PORTAL TO APPLY FOR REGISTRATION OF VARIETIES]:

The Authority initiated registration of 12 crop species in 2007 which has been extended to 197 crop species at present. Hon'ble President of India launched PARV

7.5 PUBLIC FINANCIAL MANAGEMENT SYSTEM (PFMS)



The Authority has implemented PFMS, Digital Payment Systems and e-payment like RTGS/NEFT. The Authority discourages off-line payment system like deposition of cash in the different accounts of Authority. The Authority has been shifted on e-payment systems like PFMS and other digital payments. The list of institutes mapped in PFMS is here under

MAPPED IN PFMS SCHEME 2025

S. No.	Agency Name	Agency Type
1	Acharya N.G. Ranga Agricultural University	Statutory Bodies
2	Agriculture University, Jodhpur	Statutory Bodies
3	Assam Agricultural University	State Government Institutions
4	ATARI Guwahati	Central Government
5	ATARI Patna	Central Government
6	Bidhan Chandra Krishi Viswavidyalaya	Statutory Bodies

S. No.	Agency Name	Agency Type
7	Bihar Agricultural University, Sabour Bhagalpur	Statutory Bodies
8	Birsa Agricultural University, Kanke, Ranchi, Jharkhand	State Government PSUs
9	C.S. Azad University of Agriculture & Technology, Kanpur	Statutory Bodies
10	CCS Haryana Agricultural University, Hisar	Statutory Bodies
11	Central Agricultural Research Institute, Port Blair	Central Government
12	Central Institute of Temperate Horticulture Srinagar (ICAR)	Central Government
13	Central Coffee Research Institute - Balehonnur	Registered Societies (Govt., Autonomous Bodies)
14	Central Institute for Arid Horticulture, Bikaner	Central Government
15	Central Institute for Cotton Research Nagpur (Unit of ICAR)	Central Government
16	Central Institute for Subtropical Horticulture	Central Government
17	Central Plantation Crops Research Institute	Central Government
18	Central Potato Research Institute	Central Government
19	Central Research Institute for Jute and Allied Fibres	Central Government
20	Central Rice Research Institute	Central Government
21	Central Tobacco Research Institute	Central Government
22	Central Tuber Crops Research Institute	Central Government
23	CIMAP	Registered Societies (Govt., Autonomous Bodies)

S. No.	Agency Name	Agency Type
24	Comptroller, Maharana Pratap University of Agriculture and Technology, Udaipur	Registered Societies (Govt., Autonomous Bodies)
25	CSR&TI Mysore	Registered Societies (Govt., Autonomous Bodies)
26	Directorate of Cashew Research (Formerly National Research Centre For Cashew)	Central Government
27	Directorate of Groundnut Research (ICAR Unit)	Central Government
28	Directorate of Maize Research	Central Government
29	Directorate of Medicinal and Aromatic Plants	Central Government
30	Directorate of Oilseeds Research, Rajendranagar, Hyderabad	Central Government
31	Directorate of Rice Reserach	Central Government
32	Directorate of Seed Research, Uttar Pradesh	Central Government
33	Directorate of Soybean Research (Indian Council of Agricultural Research)	Central Government
34	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth	Registered Societies (Govt., Autonomous Bodies)
35	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola	State Government PSUs
36	Dr.Y.S. Parmar University of Horticulture and Forestry	State Government Institutions
37	G.B. Pant University of Agriculture and Technology, Pant Nagar	Statutory Bodies

S. No.	Agency Name	Agency Type
38	ICAR- Agricultural Technology Application Research Institute	Central Government
39	ICAR- Agricultural Technology Application Research Institute, Kanpur	Central Government
40	ICAR Directorate of Onion and Garlic Research	Central Government
41	ICAR- IIWBR (Indian Council of Agricultural Research- Indian Institute of Wheat and Barley Research)	Central Government
42	ICAR Research Complex for NEH Region	Central Government
43	ICAR Research Complex, Goa, (Indian Council of Agricultural Research)	Central Government
44	ICAR Unit Drmr (Directorate of Rapeseed-Mustard Research)	Central Government
45	ICAR, ATARI-III	Central Government
46	ICAR, NRC For Orchids	Central Government
47	ICAR-Agricultural Technology Application Research Institute, Hyderabad	Central Government
48	ICAR-Agricultural Technology Application Research Institute, Jabalpur	Central Government
49	ICAR-Agricultural Technology Application Research Institute, Pune	Central Government
50	ICAR-Agricultural Technology Application Research Institute, Zone-I	Central Government
51	ICAR-ATARI Kolkata	Central Government

S. No.	Agency Name	Agency Type
52	ICAR-ATARI, Bangalore	Central Government
53	ICAR-National Research Centre on Pomegranate (NRCP), Solapur	Central Government
54	Indian Agricultural Statistics Research Institute	Central Government
55	Indian Grassland and Fodder Research Institute	Central Government
56	Indian Institute of Horticultural Research	Central Government
57	Indian Institute of Millets Research	Central Government
58	Indian Institute of Pulses Research	Central Government
59	Indian Institute of Spices Research (ICAR)	Central Government
60	Indian Institute of Sugarcane Research, Lucknow	Central Government
61	Indian Institute of Vegetable Research (ICAR)	Central Government
62	Indian Society of Seed Technology	Registered Societies (Govt., Autonomous Bodies)
63	Indira Gandhi Krishi Vishwavidyalaya, Raipur.	Registered Societies (Govt., Autonomous Bodies)
64	Institute of Forest Genetics and Tree Breeding (Indian Council of Forestry Research and Education)	Registered Societies (Govt., Autonomous Bodies)
65	Jawaharlal Nehru Krishi Vishwavidyalaya	Statutory Bodies
66	Junagadh Agricultural University	State Government Institutions
67	Kerala Agricultural University	State Government PSUs

S. No.	Agency Name	Agency Type
68	M S Swaminathan Research Foundation	Trusts
69	Mahatma Phule Agricultural University, Rahuri	State Government Institutions
70	Nagaland University	Statutory Bodies
71	Narendra Deva University of Agriculture & Technology, Kumarganj, Faizabad	State Government Institutions
72	National Botanical Research Institute, Lucknow	Registered Societies (Govt., Autonomous Bodies)
73	National Bureau of Plant Genetic Resource - NBPGR (ICAR)	Central Government
74	National Research Center for Litchi	Central Government
75	National Research Centre for Banana (ICAR)	Central Government
76	National Research Centre for Citrus, Nagpur (Unit of ICAR)	Central Government
77	National Research Centre for Grapes (ICAR)	Central Government
78	National Research Centre on Seed Spices	Central Government
79	Navsari Agricultural University	State Government PSUs
80	North-East Institute of Science & Technology (CSIR)	Registered Societies (Govt., Autonomous Bodies)
81	Prof. Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad	State Government Institutions
82	Punjab Agricultural University	Registered Societies (Govt., Autonomous Bodies)
83	Sam Higginbottom Institute of Agriculture Technology And Sciences	State Government PSUs

S. No.	Agency Name	Agency Type
84	Sardar Krushinagar Dantiwada Agricultural University	State Government PSUs
85	Sher-E-Kashmir University of Agricultural Sciences and Technology of Kashmir	Registered Societies (Govt., Autonomous Bodies)
86	Sri Karan Narendra Agriculture University, Jobner	State Government Institutions
87	Sugarcane Breeding Institute, Coimbatore, (ICAR)	Central Government
88	Tamil Nadu Agricultural University	Registered Societies (Govt., Autonomous Bodies)
89	Tea Board DTR&DC, Kurseong	Registered Societies (Govt., Autonomous Bodies)
90	Tea Research Association	Registered Societies (Govt., Autonomous Bodies)
91	University of Agricultural and Horticultural Sciences, Shivamogga	Statutory Bodies
92	University of Agricultural Sciences, Bangalore	Statutory Bodies
93	University of Agricultural Sciences, Dharwad	Registered Societies (Govt., Autonomous Bodies)
94	University of Horticultural Sciences, Bagalkot	Statutory Bodies
95	VPKAS(ICAR), Almora	Central Government
96	ICAR- Indian Agriculture Research Institute	Central Government

8: Administration, Governance and Other Miscellaneous Activities

8.1 ADMINISTRATION:

During the period under report the following changes has taken place in PPVFR Authority.

Dr. Trilochan Mohapatra, assumed the charges of Chairperson of PPVFR Authority on 21st April, 2023 on deputation.

8.1.1 MANPOWER:

The Nodal Ministry has sanctioned 17 new posts during the period under report. At the time of submission of this report, the positions of three Registrars of the Authority are vacant. Manpower in the form of Registrar is most crucial and have to be in position mandatorily for the implementation of the provisions of the Act including registration of the varieties, judicial proceedings on any appeals or objections or petitions. These statutory roles cannot be executed by any other officer or temporary officers given the charge. The posts of Registrar three position are vacant and Joint Registrar is also vacant. The only reasons these posts are not being filled or are attractive enough among professional scientists in the country as at the time of printing this Report are,). The status of these positions are lower than contemporary posts in the Universities and ICAR/CSIR or other such organizations b). The conditions of being only on deputation for 3-5 years. Both these are concerns need to be addressed on priority in time to come. The of breakup newly 17 posts are as under:

SL	Name of post	Level in pay matrix	Number of posts
	Deputy Director (Admin)	Level-11	01
	Plant Variety Examiner (PVE)	Level-7	05
	Executive Assistant	Level-6	05
	Accountant	Level-6	02
	Technical Assistant	Level-6	04
	Total		17

8.2 LEGAL CELL

The Legal Cell of the Authority has successfully defended all cases filed against the Authority. Further in case of quasi-judicial proceedings before the Registry and Authority, legal inputs were

rendered and daily order sheets were dispatched to the parties promptly. The Legal Cell of the Authority is LIMBS (Legal Information Management & Briefing System) compliant and the progress of the cases are updated regularly and monitored in LIMBS. During the reporting period, out of 33 cases 12 cases were disposed of.

The details of forum and number of cases pending for adjudication are given below:

Central Administrative Tribunal	High Courts	Supreme Court	Labour Cour
2	11	7	1

The Legal Cell also provided inputs to all judgements passed by the Authority/ Registrar during the Reporting Period. During this period,

The following Gazette Notifications were published in the year 2022-23:

- Gazette Notification **S.O. 2028 (E)** dated **2nd May, 2023** regarding appointment of Dr. T. Mohapatra, Chairperson, PPVFRA
- Gazette Notification **S.O. 2221 (E)** dated **18th May, 2023** regarding notification of 7 Crops species Teak, Kalazeera, Saffron, Dolichos bean, Ash gourd, Snake gourd and Ivy gourd"
- Gazette Notification 1540(E) dated March 22, 2024 regarding on the 8 crop-species Kokum, Lemon, Pummelo, Lilium, Jasmine, Ashwagandha, Olive and Anthurium for the purpose of registration.

8.3 RIGHT TO INFORMATION (RTI)

During the reporting period 2023-24, under the Right to Information (RTI) Act, 2005, Sh. Umakant Dubey, Deputy Registrar and Dr. Dinesh Kumar Agarwal, Registrar General continues as Central Public Information Officer (CPIO) and First Appellate Authority (FAA) respectively at Protection of Plant Varieties and Farmer's Rights Authority (PPVFRA), Ministry of Agriculture and Farmers Welfare, Govt. of India for furnishing information to the applicants applies for information under Right to Information (RTI) Act, 2005. The details of the officers designated are available on website of the Authority i.e. <https://plantaauthority.gov.in/> under the menu heading RTI. Compliance of provisions contained under

section 25(2) of RTI Act, 2005 for submission of information to Chief Information Commissioner (CIC) are being done on a regular basis. The Authority complies the Transparency Audit by the CIC and other requirements and compliances as per the CIC and RTI Act, 2005. During the reporting period, the Authority received 16 applications either directly from the applicant or transferred from other departments seeking information under RTI Act, 2005. The information sought was made available within the stipulated period.

The status of the applications received by the Authority is uploaded on its website on regular basis. The quarterly status of the applications is available on the website of the Authority and Central Information Commission (CIC) with full details including receipt of fees too.

8.4 GOVERNMENT e-MARKETPLACE (GEM)

During the reporting year 2023-24, the Authority purchased different items, worth **Rs. 41906708/- (Rupees four crore nineteen lakh six thousand seven hundred eight only)** through GeM after completing necessary formalities. The purchase with value and items are as under:

S.No.	Particular (Product and Services)	Amount (Rs.)
1	Printer, All in one PC, Hard disk, Plastic chair, toner, Xerox drum, Online UPS, Handwash, tissue paper, Pendrive, franking machine, laptop bags, dairy, hanging polypropylene, notesheet, Notepad, Register, Paper rim, stapler, liquid electric heater, broom, binder clip etc.	2705300
2.	Services:	
	Manpower	26883203
	Vehicle Hiring	2039715
	Audit Service	19436
	Florist Service	10128
3.	Global symposium on farmers Rights (ICAR GeM)	10248926
	Total	41906708

8.5 INSPECTION OF RECORDS AND SUPPLY OF CERTIFIED COPY

During the reporting period, 4 requests for inspection of records and supply of certified copies were received under section 84 of PPVFR Act, 2001 and Rule 76 of PPVFR Rule, 2003. The amount Rs. 89,500/- (Rupees One Lakh Seventy Three Thousand Only) as fees for the above purpose were deposited by the concerned applicant. After receipt of fees, the certified copies were supplied to the concerned applicants.

1.6 BRANCH OFFICES:

PPVFR Authority has five branch offices located in different parts of the country headed by Deputy Registrar as detailed below:

1. **Sh. U.K. Dubey (In-charge), Deputy Registrar**
Protection of Plant Varieties and Farmers' Rights Authority, Department of Agriculture & Farmers Welfare, Computer Centre Building, Near Damodar International Guest House, Birsra Agriculture University Campus, Kanke, Ranchi (JH)-834006
2. **Sh. U.K. Dubey (In-charge) Deputy Registrar**
Protection of Plant Varieties and Farmers' Rights Authority, Govt. of India, Ministry of Agriculture & Farmers Welfare, Department of Agriculture & Farmers Welfare, Assam Agricultural University, Near Administrative Building, Khanapara, Guwahati-781022
3. **Dr. Swarn latha, Deputy Registrar (on contract basis)**
Protection of Plant Varieties and Farmers' Rights Authority Department of Agriculture & Farmers Welfare, CSK HP Krishi Viswavidyalaya, Palampur, Dist. Kangra, Himachal Pradesh-176061
4. **Sh. R.S. Sengar, Deputy Registrar (In-charge)**
Protection of Plant Varieties and Farmers' Rights Authority, Department of Agriculture & Farmers Welfare, Centenary Building, College of Agriculture Campus, Mahatma Phule Krishi Vidyapeeth, Pune, Maharashtra-411005
5. **Dr. A.K. Singh, Deputy Registrar (In-charge)**
Protection of Plant Varieties and Farmers' Rights Authority, Department of Agriculture, Co-operation & Farmers Welfare, UAHS

Shivamogga, Abbalagere post, Shivamogga, Karnataka-577204

8.7. PPVFRA ENTRUSTED WITH THE CHAIRMANSHIP OF TOWN OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE (TOLIC)

In September, 2018, by the Department of Official Language, Ministry of Home Affairs, Government of India has been entrusted with the responsibility of chairing the Town Official Language Implementation Committee (TOLIC), North Delhi. The Protection Plant Varieties and Farmers' Rights Authority Ministry of Agriculture Farmers Welfare Govt. of India. A meeting is held every half year during the year and the committee comprises a total of 68 member offices. A 10 member coordination committee was formed to administer various provisions of the official language.

Official Language Implementation Committee and Hindi Workshop in Protection Plant Varieties and Farmers Rights Authority

Official Language Implementation Committee already exists in the Authority for implementation official language. During the year under report, meetings were held every quarter and issues related to the official language were discussed in substance. A Hindi workshop was organized in the Authority on June 30, 2023, in which all the officers and employees of the authority participated. Shri D.S. Raj Ganesh, Legal advisor, delivered a lecture on the Hindi Workshop on Property Rights, in which he shared his suggestions about the importance of Hindi and advised to use Hindi as much as possible. The meeting of TOLIC was held on 16/11/2023.

Organization of Hindi Day/Week/Fortnight and Hindi Month

Hindi Month was celebrated in the Protection Plant Varieties and Farmers' Rights Authority during the period from 14th September to 13th October, 2023. During this period, following competitions:- 1. **Writing a short story by writing the meaning of idioms/proverbs and proving their meaning** 2. **Essay Writing Competition** 3. **Noting & Drafting** 4. **English Hindi Administrative Vocabulary Competition** 5. **Motivational story/story telling competition** were organized in which many contractual employees including regular officers participated and prize distribution ceremony was organized in the Authority and cash prizes and certificates were given to the winners of the competitions. The names of the winners of Hindi month competitions are as follows:-

Writing a short story by writing the meaning of idioms/proverbs and proving their meaning

S.No.	Name of Participant	Place
1	Mr. Ramveer Singh	First
2	Mr. Dharmendra	Second
3	Mrs. Ritu Yadav	Third
4	Mr. Ashok Kumar	Consolation-I
5	Dr. Jyoti Jaiswal	Consolation-II

Writing a short story by writing the meaning of idioms/proverbs and proving their meaning(Non-Hindi)

S.No.	Name of Participant	Place
1	Dr. Harshwardhan Nandanvaar	First
2	Mr. D.S. Raj Ganesh	Second
3	Dr. Ragul Subramaniyan	Third

Essay Writing Competition

S.No.	Name of Participant	Place
1	Mr. Ramveer Singh	First
2	Mrs. Sudesh	Second
3	Mr. Shyam Narayan Prasad	Third
4	Mr. Gaurav Thakur	Consolation-I
5	Mrs. Shaheen Praveen	Consolation-II

Essay Writing Competition (Non-Hindi)

S.No.	Name of Participant	Place
1	Mr. Sangamesh Nevan	First
2	Ms. Anjali Nayak	Second
3	Dr. Ragul Subramaniyan	Third

Noting & Drafting

S.No.	Name of Participant	Place
1	Mr. Dharmendra	First
2	Mrs. Ritu Yadav	Second
3	Mr. Santosh Singh Bisht	Third
4	Dr. Jyoti Jaiswal	Consolation-I
5	Mr. Gaurav Kumar Sharma	Consolation-II

Noting & Drafting (Non-Hindi)

S.No.	Name of Participant	Place
1.	Mr. Sangamesh Nevan	First
2.	Mr. Harshwardhan Nandanwar	Second

English Hindi Administrative Vocabulary Competition

S.No.	Name of Participant	Place
1	Mr. Gaurav Kumar Sharma	First
2	Mrs. Manisha	Second
3	Ms. Garima Thakur	Third
4	Ms. Yojana Chaudhary	Consolation-I
5	Mr. Gaurav (gene Bank)	Consolation-II

English Hindi Administrative Vocabulary Competition (Non-Hindi)

S.No.	Name of Participant	Place
1.	Ms. Anjali Nayak	First

Motivational story/story telling competition

S.No.	Name of Participant	Place
1	Mr. Subhash Mehto	First
2	Mrs. Sudesh	Second
3	Mr. Arun Kumar	Third
4	Mrs. Garima Karnataka	Consolation-I
5	Mr. Pawan Pandey	Consolation-II

Motivational story/story telling competition (Non-Hindi)

S.No.	Name of Participant	Place
1.	Mr. D.S. Raj Ganesh	First

Use of official language Hindi

The official language Hindi is used in the office by the officers and staff of Protection Plant Varieties and Farmers Rights Authority. Comments and drafts are prepared in Hindi language by the officers and staff of the Authority. All necessary documents falling under Section 3(3) of the Official Languages Act, 1963 were issued in bilingual form and correspondence is being conducted with Regions A, B and C as per the instructions of the Government of India.

8.8. PARTICIPATION OF THE PPV&FR AUTHORITY IN THE "SWACHHATA PAKHWARA-SWACHHATA HI SEVA (SHS) 2023", A MASSIVE CLEANLINESS DRIVE ON 01.10.2023 AT 10:00 AM.

With reference to the letter No. 2/8/2019-SBM IV dated 22nd September, 2023 of the Ministry of Housing and Urban Affairs, Government of India, PPV&FR Authority has taken steps as advised, to be part of the Nationwide cleanliness drive. All the staff of the Authority took "Swachhata Pledge" on 29th September, 2023. They were advised to maintain cleanliness in office, its premises and at their respective homes as well as residential surroundings. The staff was also asked to categories the files in the office and discard the old ones following due procedure in order to reduce the burden on the limited office space.



The staff of the Authority took part in cleaning the nearby public roads and areas adjoining the village Dasghara and the bus stop on 1st October, 2023. Waste papers, leaves, polythene, used bottles, old furniture parts, photo frames, flowers and other materials used in worship etc. were collected and disposed in the MCD waste collection van. Interaction with media person highlighting the

importance of cleanliness also took place at the waste collection site. All the staff members of the Authority enthusiastically participated in this event for more than an hour. A site was created in the citizen portal and relevant information was entered along with a few photographs of the event



8.9. OBSERVANCE OF VIGILANCE AWARENESS WEEK

Though the Authority does not come under the jurisdiction of the Central Vigilance Act or Central Vigilance Commission Act (2003), in view of the establishment of the spirit of maintaining the Authority free of any corruption and misuse of official position, the Authority in solidarity with the same observed Vigilance Awareness Week administering the oath by its staff, employees and officers.

The Authority observed the Vigilance Awareness Week where the staff of the Authority collectively participated in the prevention of corruption and the fight against corruption being vigilant as part of the Vigilance Awareness Week (30th October, 2023 to 5th November, 2023) with the theme ““भ्रष्टाचार का वरिध करे; राष्ट्र के प्रति समर्पति रहे” (Say no to corruption; commit to the Nation)

The observance of the Vigilance Awareness Week commenced with the taking of the Integrity Pledge.

8.10. PPV&FR AUTHORITY MEETINGS

During the year 2023-24, two meetings of the PPV&FR Authority were held and detailed minutes of meetings are available in the PPV&FRA website. Salient points are given:

8.10.1 Thirty-sixth meeting on 16th August, 2023

- Approval of DUS test guidelines of Kokum, Lemon and Pummelo.

- Fixation of time limit for registration of Kokum, Lemon and Pummelo
- Approval of DUS test fees for Kokum, Lemon and Pummelo
- The Compound Registration which mandated that hybrid must be filed along with parents was withdrawn.
- The time limit for registration of extant varieties of all crop species was extended.
- The Authority also withdrew Public Notice which mandated that in case of varieties notified under Section 5 of Seeds Act, 1966, the Annual Fee/ Renewal Fee has to be paid from the date of notification.

8.10.2 Thirty-Seventh meeting on 01st December, 2023.

- Approval of DUS test guidelines of Lilium, Jasmine, Ashwagandha, Olive and Anthurium.
- Fixation of time limit for registration of Lilium, Jasmine, Ashwagandha, Olive and Anthurium.
- Approval of DUS test fees for Lilium, Jasmine, Ashwagandha, Olive and Anthurium.
- Approval of Annual Report and Annual Accounts of 2022-23

8.11. OTHERS MEETING

8.11.1 The Chairperson, PPVFRA, Dr. T. Mohapatra meet the Hon'ble President of India



The Chairperson, PPVFRA, Dr. T. Mohapatra got the opportunity to meet the Hon'ble President of India, Smt Droupadi Murmu ji on 29th May, 2023. Hon'ble

President emphasized on the challenges to Indian Agriculture due to climate change and the need for identification and promotion of varieties with tolerance to biotic and abiotic stresses. She also advised to work more with the farmers to address their problems and use farmers' varieties in this regard. Dr. Mohapatra assured that PPVFRA will work more with the farmers according to the overall mandate of the Authority and expressed sincere thanks for her valuable suggestions and guidance.

8.11.2 DG, Bioversity International-CIAT Alliance visits PPVFR Authority, New Delhi



Mr. Juan Lucas Restrepo, Director General, the Alliance of Bioversity International, Rome and CIAT, Cali, Colombia paid a courtesy visit to Protection of Plant Variety and Farmers' Rights Authority (PPVFRA) on 13.06.2023. Dr. T. Mohapatra, Chairperson, PPVFRA, New Delhi welcomed the dignitaries and observed that synergy between PPVFRA and the Alliance is highly relevant in the context of conservation and sustainable use of agro-biodiversity. Dr. Mohapatra also briefly mentioned about the work being carried out by PPVFRA, particularly on the protection of farmers' varieties and the farmers' rights. Mr. Restrepo gave an account of activities being undertaken by the Alliance highlighting the work on Community Seed Banks successfully being carried out in India.

8.11.3 Interface Meeting Between Protection of Plant Varieties and Farmers Rights Authority (PPVFRA) and Indian Council of Agricultural Research (ICAR)

An interface meeting between PPVFRA and ICAR was held on 21st July, 2023 at 10:00 AM in Board Room, International Guest House (IGH), NASC, New Delhi. Dr. H. Pathak, DG, ICAR was present along with his colleagues Dr. T.R. Sharma, DDG (CS), Dr. D.K. Yadav, ADG (Seeds), Dr. V.B. Patel, ADG (Horticulture), and Dr. S. Ghosh, ADG (Marine Fisheries). Dr. T. Mohapatra, Dr. D.K. Agrawal, and others attended the meeting from PPVFRA.



Dr. D.K. Agrawal, made a presentation on the following agenda items:

- i) Payment of annual/renewal fee for varieties registered by ICAR
 - ii) Registration of extant notified varieties
 - iii) Integration of VCU and DUS testing
 - iv) Registration of agent and licensee of ICAR
 - v) Facilitating benefit sharing among farmers
 - vi) Facilitation of registration of farmers' varieties
 - vii) Establishment of community seeds bank
- Discussion was held on each of the above agenda items and appropriate decisions were taken.

8.11.4 Interface Meeting between PPV&FRA and NBA held on 07th August, 2023 at NBA Chennai



Interface meeting between the Protection of Plant Varieties and Farmers Rights Authority (PPVFRA) and the National Biodiversity Authority (NBA) was held on 7th August, 2023 at the National Biodiversity Authority (NBA) office, Chennai. Dr. T. Mohapatra, Chairperson, PPVFRA, along with Dr. D.K. Agarwal, Registrar-General and Sh. D.S. Raj Ganesh, Legal Advisor, and Dr. A.K. Singh, STO, It was agreed in principle that convergence and synergy would be considered in core areas of operation which included

- (i) Funding of BMCs by PPVFRA for *in situ* and *ex situ* conservation of plant genetic resources through National Gene Fund,
- (ii) Joint efforts to secure income tax exemption for donations to National Gene Fund and National Biodiversity Fund,
- (iii) Sourcing and Securing Corporate Social Responsibility Funds for National Gene Fund and National Biodiversity Fund and
- (iv) Utilisation of PBR for the benefit of registration of farmers varieties and nomination of awardees of Plant Genome Saviour Community Award/ Plant Genome Saviour Farmer Reward and Plant Genome Saviour Farmer Recognition by the BMCs. It was agreed to hold such meetings regularly.

PPVFRA visited NBA for this meeting.

8.12. PARTICIPATION OF CHAIRPERSON IN VARIOUS MEETINGS AND DISCUSSIONS DURING 2023-24

DATE	DESCRIPTION
APRIL, 2023	
21.04.2023	Chairperson participated in the International Conference Rice Bran Oil-2023 at Hyderabad.
22.04.2023	Chairperson participated as a Chief Guest and deliver a lecture on 78th Foundation Day and Dhan Diwas, at ICAR-NRRI, Cuttack, Odisha.
MAY, 2023	
11.05.2023-12.05.2023	Chairperson attended Regional workshop on PPVFR Act and its effective implementation by all stakeholders at National Rice Research Institute (NRRI), Cuttack.
15.05.2023	Chairperson participated as a "Guest of Honor" in Argus Agri Vikas Conclave at Bhubaneswar, Odisha.
22.05.2023-23.05.2023	Chairperson attended 19th Annual DUS Review meeting of Southern region DUS Centres for Kharif-2023 at IIHR, Bangalore.

24.05.2023	Chairperson Discussion with Seed producers of Farmers' Varieties engaged with FPO/FPC (Sahaja Seeds) at Mysuru, Bangalore.
JUNE, 2023	
12.06.2023	Chairperson attended 59th Foundation Day Celebrations at Auditorium of Regional Agricultural Research Station, Lam Guntur.
26.06.2023	Chairperson attended Awareness and Training Programme on Farmers' Rights at Central Institute for Arid Horticulture, Bikaner.
JULY, 2023	
17-20 July, 2023	Chairperson participated in Co-organizing of side event on Farmers Right's during 19th Regular Session of the Commission on Genetic Resources for Food and Agriculture (CGRFA) at FAO Headquarters in Rome.
25th July, 2023	Chairperson participated as the Chief Guest for the training programme on the awareness of the Plant Protection Variety and Farmers Right Act at GBPUAT Pant Nagar, Uttrakhand.
31st July, 2023	Chairperson participated as the Chief Guest to inaugurate the Training-cum-Awareness programme on PPVFRA at BAU, Ranchi.
AUGUST, 2023	
Aug 6-7, 2023	Chairperson attended International Conference on Mighty Millets for Food, Nutritional and Health Security followed by Technical Sessions on 7th & 8th August 2023 at MSSRF, Chennai
25th August, 2023	Chairperson attended 65th Meeting of the Research Council of CSIR-IHBT at Palampur
SEPTEMBER, 2023	
Aug 6-7, 2023	Chairperson attended International Conference on Mighty Millets for Food, Nutritional and Health Security followed by Technical Sessions on 7th & 8th August 2023 at MSSRF, Chennai

25th August, 2023	Chairperson attended 65th Meeting of the Research Council of CSIR-IHBT at Palampur
Aug 6-7, 2023	Chairperson attended International Conference on Mighty Millets for Food, Nutritional and Health Security followed by Technical Sessions on 7th & 8th August 2023 at MSSRF, Chennai
25th August, 2023	Chairperson attended 65th Meeting of the Research Council of CSIR-IHBT at Palampur
OCTOBER, 2023	
10-13 October, 2023	Chairperson attended Four days XVI National Agricultural Science Congress at Hotel Le Meridien, Kochi.
13 & 14 October, 2023	Chairperson participated as the chief guest in the NICRA-TDC meeting and the Awareness programme on Farmers at Kottayam, Kerala.
NOVEMBER, 2023	
05th November, 2023	Chairperson chaired the Panel discussion of the Symposium in 20th International Symposium on Rice Functional Genomics (ISRF2023) at GKVK campus of University of Agricultural Sciences, Bengaluru.
09th & 10th November, 2023	Chairperson attended Two - day International Convention on Millets at Bhubaneswar.
22nd November, 2023	Chairperson participated as GUEST OF HONOUR in International Conference on "Next-Gen Preparedness for Food Security and Environmental Sustainability" and PLENARY LECTURE at AAU, Jorhat Assam.
DECEMBER, 2023	
03rd December, 2023	Chairperson attended 93rd Annual Session of NASI and talk would be "Challenges to India's food security and the way forward" at Bhabha Atomic Research Centre (BARC), DAE Convention Centre, Anushaktinagar, Mumbai.

13th December, 2023	Chairperson participated as the Chief Guest in the Inaugural Programme of the ICAR-Sports Tournament for Eastern Region 2023 at ICAR-NRRI, Cuttack.
13 th December, 2023	Chairperson as Chief Guest grace the 11 th Education Council-2023 at Dr. M.S. Swaminathan Hall, OUAT, Bhubaneswar.
22 nd December, 2023	Chairperson attended 56 th Research Council meeting of CSIR-NBRI at CSIR-NBRI, Lucknow.
26th December, 2023	Chairperson delivered the 13th Dorothy Norris Lecture at ICAR – National Institute of Secondary Agriculture, Namkum, Ranchi.
JANUARY, 2024	
01 st January, 2024	Chairperson attended Krishi Unnati Mela at Kharswan, Jharkhand.
29-30 th January, 2024	Chairperson attended 29 th Research Advisory Committee Meeting at NRRI, Cuttack.
FEBRUARY, 2024	
02-04 February, 2024	Chairperson participated as Guest of Honour Deliver Dr. Rajendra Prasad Memorial Lecture in the Annual Conference of the Indian Society of Agricultural Statistics at Navsari Agricultural University, Navsari, Gujarat.
07-09 February, 2024	Chairperson attended 5th National Brassica Conference (NBC-2024) on the theme "Oilseed Brassicas for Sustainability, Profitability, and Nutritional Security" and Life Time Achievement Award of the society at RARI (SKNAU), Durgapura, Jaipur.
10 th February, 2024 & 11 th February, 2024	Chairperson delivered a motivational talk on 10th Feb'24 and Keynote Speaker for ILS Foundation Day at Institute of Life Sciences, Bhubaneswar.
17th February, 2024	Chairperson delivered the lecture in Dr P.G. Pandey Memorial Oration at DDU Auditorium DUVASU, Mathura.

21-22 February, 2024	Chairperson attended Joint International Conference on “Millets for Food Security: Sustainable Resilience to Climate Change, Pests and Diseases” at Department of Plant Protection Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh
24 th February, 2024	Chairperson participated as the Chief Guest “Training Cum Awareness Programme on Protection of Plant Varieties and Farmers Rights Act, 2001” at PRSU, Prayagraj.
25-27 February, 2024	Chairperson delivered a Keynote Speech on ‘Pratham Education Initiative’ during the deliberations on SDG 2, in the Session on ‘What We Grow’ in 3rd International SDG Conference at Chitrakoot.
26 th February, 2024	Chairperson attended Farmers Workshop on “Creation of Awareness among farmers about the provisions of the Protection of Farmers Varieties and Farmers Right” at Udyamita Vidyapeeth, Chitrakoot (Satna).
MARCH, 2024	
01 st March, 2024	Chairperson Chaired the Technical Session titled “Public Private Research Collaboration for Varietal Evaluation, Testing, Germplasm and Technology Sharing” at The Westin, Koregaon Park Annexe, Pune.
05 th March, 2024	Chairperson attended Training cum Awareness Programme with Hon’ble Agriculture Minister Shri Arjun Munda Ji at KVK, Devghar.
15 th March, 2024	Chairperson attended Awareness Training cum Certificate Distribution Programme at IMAGE, Bhubaneswar.
15 th March, 2024	Chairperson participated in the Meeting of the Board Management of Odisha University of Agriculture & Technology at Biju Pattanaik Conference Hall/ Dr. S. Rahakrishanan Conference Hall, OUAT Bhubaneswar.

20 th March, 2024	Chairperson participated as Chief Guest in ICAR-DMAPR Industry Interface meet on 20th March 2024 at ICAR-DMAPR, Anand, Gujarat.
21 st March, 2024	Chairperson as an Chairperson in the International Conference on “Path of Sustainability for Greener and Healthier Planet - 2024” at Auditorium Hall, Mahatma Gandhi Labour Institute, Driven-In Road, Memnagar, Ahmedabad, Gujarat.
27 th March, 2024	Chairperson attended Inaugural session as Chairman in 5th International Group Meeting on “Climate-Proofing Cereal Agriculture: Strategies for Resilience and Sustainability” at ICAR-IIWBR, Karnal.

8.13. PARTICIPATION OF REGISTRAR-GENERAL IN VARIOUS MEETINGS AND DISCUSSIONS DURING 2023-24

MONTH	DESCRIPTION
APRIL, 2023	
06.04.2023	The meeting of the Committee to examine and give recommendations on proposals for enlistment of varieties in OECD list of varietal certifications, under the Chairmanship of ADG (Seeds), ICAR at V.C.
10.04.2023	Invitation to be a panelist for the Roundtable on Innovations for wealth creation and employment during Festival of Innovation and Entrepreneurship (FINE). Hon’ble President of India Smt Droupadi Murmu will inaugurate the Festival of Innovation and Entrepreneurship (FINE) 2023 at RBCC, Rashtrapati Bhavan, New Delhi.
10.04.2023	Presentation on the outcome of the 9th Session of the Governing body of the Treaty at Committee Room No. 138, Krishi Bhawan
12.04.2023	Related to online application, its work and role Management (NIC) at Committee Room, PPV&FRA

13.04.2023	A meeting to review the progress and pendency to be held on 13.04.2023 at 10:00 AM – regarding at Committee Room, PPV&FRA
18.04.2023	Online Branch offices meeting at V.C
26.04.2023	World Intellectual Property, 2023 “Women and IP: Accelerating Innovation and Creativity” at V.C.
27.04.2023	Task force meeting “Validation and descriptor of Dus testing guidelines for olive” at V.C.
MAY, 2023	
02.05.2023	A meeting related online application, its work flow and role management at Committee Room, PPVFRA
02.05.2023	A meeting to finalize the budget for organizing the Global Symposium on Farmer’s Rights in India at Krishi Bhawan
04.05.2023 – 11.05.2023	8 th of May, Task Force Meeting of Ailanthus at IFGTB, Coimbatore, 9 th & 10 th May, Annual Group Meeting of AICRP on Seed (Crops) & 11 th of May, visit to Punampulli for reference varieties collection of forest tree species.
15.05.2023	Strategic Policy Dialogue on stepping forward for in situ on-farm conservation and promotion of food security and nutrition in South Asia organized by Biodiversity for Food and Agriculture at National Agricultural Science Complex (NASC), New Delhi
18.05.2023	The meeting of the Delegated Investment Board under the chairmanship of Secretary, DA&FW to consider the proposal of Protection of Plant Varieties and Farmers Rights Authority (PPV&FRA) for revision of cost of construction of Plant Authority Bhawan at Room No. 138, Krishi Bhawan, New Delhi
18.05.2023	A meeting to discuss on various issues related to PPV&FRA by Secretary, DA&FW at Room No. 142, Krishi Bhawan, New Delhi

21.05.2023 – 25.05.2023	To participate in 19 th Annual DUS Review meeting of southern region DUS Centres for Kharif, 2023 at IIHR, Bangalore and discussion with seed producers of farmers’ varieties engaged with FPO/FPC (Sahaja Seeds) at Mysuru.
25.05.2023	Online Exchange (Hybrid Seminar) on E-Processing and Management of DUS Testing Data in Plant Variety Examination-Using the Example of Rapeseeds/Mustard under Indo-German Cooperation on Seed Sector Development at At Harbhajan Singh committee Room NBPGR, New Delhi
31.05.2023	Hindi Rajbhasha at Committee Room, PPVFRA
JUNE, 2023	
05.06.2023	Meeting with NIC for online application of Authority at Committee Room, PPVFRA
05.06.2023	NAAS Foundation Day, the Foundation Day lecture will be delivered by Shri B.V.R. Subrahmanyam, IAS, CEO, NITI Aayog Prof. Ramesh Chand, Member, NITI Aayog has kindly consented to be the Chief Guest at A.P. Shinde Symposium Hall
06.06.2023	Committee constituted to look into the and issues relating to time limit for registration of extant varieties” under the chairmanship of Dr. R.S. Paroda, former Secretary (DARE) & DG, ICAR Physical and Virtual Mode at PPVFR Authority
09.06.2023	Framing of Recruitment Rules for different positions at PPVFR Authority at Committee Room, PPVFR Authority
09.06.2023	ITPGRFA and Government of India-Global Symposium on Farmers’ Rights at V.C.
12.06.2023	Meeting regarding Global Symposium on Farmers’ Rights at Room No. 79 South block, Ministry of External Affairs
12.06.2023	Review of the registry work progress under the Chairmanship of Registrar-General at PPV&FRA Committee Room.

14.06.2023	In-house discussion on the DUS guidelines on Lilium at Committee Room, PPV&FR Authority
15.06.2023	In-house discussion on the DUS guidelines on Anthurium at Committee Room, PPV&FR Authority
16.06.2023	In-house discussion on the DUS guidelines on Olive at Committee Room, PPV&FR Authority
20.06.2023	Enlistment of varieties in OECD list of varietal certification under the Chairmanship of ADG (Seeds), ICAR at V.C.
21.06.2023	National Project Steering Committee (NPSC) Meeting of UN Environment implemented GEF project at NASC Complex, New Delhi
21.06.2023	The meeting of the Delegated Investment Board under the Chairmanship of Secretary, DA&FW to consider the proposal of Protection of Plant Varieties and Farmers Rights Authority (PPV&FRA) for revision of cost of construction of Plant Authority Bhawan at Room No. 138, Krishi Bhawan, New Delhi
22.06.2023	To discuss the workflow of online application and role management under the chairmanship of Registrar General, PPV&FR Authority at Committee Room, PPV&FR Authority
23.06.2023	To discuss the workflow of online application and role management under the chairmanship of Registrar General, PPV&FR Authority at Committee Room, PPV&FR Authority
28.06.2023	राजभाषा कार्यान्वयन समितिकी बैठक at Committee Room, PPV&FRA Authority
30.06.2023	Azadi Ka Amrit Mahotsav (AKAM)-IP Campaign – Celebration of “Rashtriya Boudhik Sampada Mahotsav” at CSIR-National Physical Laboratory (CSIR-NPL), Pusa Road, New Delhi

30.06.2023	Hindi Karyashala at Plant Authority Bhawan, opp. Todapur Village, New Delhi-12
JULY, 2023	
05.07.2023	The meeting of selection committee of Plant Genome Saviour Community Award 2020-21 & 2021-22 under the Chairmanship of Chairman of the Committee Prof. R.B. Singh, Former Chancellor, CAU, Imphal at Hybrid (offline & online) mode at Committee Room-I, NAAS, NASC Complex, DPS Marg, New Delhi 110012
06.07.2023	Project Appraisal Committee at Committee Room, PPVFRA
07.07.2023	Meeting under the Chairmanship of Secretary (DPIIT) to discuss the issues related to Draft Text of the International Legal Instrument on Genetic Resources and Traditional Knowledge Associated with Genetic Resources at 225, Vanijaya Bhawan, Akbar Road, New Delhi
11.07.2023	To discuss the next steps for the Global Symposium on Farmers' Rights with ITPGRFA at V.C
14.07.2023	Indo-German Seed Project at V.C.
14.07.2023	DPIIT IPT Chair is organizing a series of webinars in the month of July on the occasion of National Intellectual Property festival as invited Chief Guest and speaker on “Plant variety protection in India” at V.C
21.07.2023	Meeting between PPVFRA & ICAR officials on various issues at Board Room, IGH, NASC Complex
22.07.2023	Compound registration and issues relating to time limit for registration of extant varieties at NASC Complex, New Delhi- 110012 [Hybrid mode (Online/offline mode)]
23.07.2023 – 25.07.2023	To attend Farmers' Awareness Programme organized by ICAR-Directorate of Floricultural Research, Pune and to visit, review the activities of PPVFRA Branch Office, Pune.

27.07.2023	DUS guidelines Lemon, Pummelo and Kokum under the Chairmanship of Dr. T. Mohapatra, Chairperson at V.C
28.07.2023	Organizing Committee meeting related to Global Symposium on Farmers Rights at Board Room, IGH, NASC Complex, New Delhi
AUGUST, 2023	
02.08.2023	Monthly Meeting under the Chairmanship of the Chairperson, PPVFRA At Committee Room, PPVFRA
03.08.2023	Global Symposium on FR- 3 rd Preparatory meeting with ITPGRFA, FAO at V.C
04.08.2023 – 08.08.2023	To review the DUS testing centre activities & interface meeting between PPVFRA and NBA
09.08.2023	Meeting of the Advisory Committee for organization of Global Symposium on Farmers Rights from 12 th to 15 th September, 2023 at Board Room of ICAR-IGH, NASC Complex, DPS Marg, New Delhi - 110012
10.08.2023	Chairmen and Conveners of working committees constituted for organizing Global Symposium at Board Room of ICAR-IGH, NASC Complex, DPS Marg, New Delhi - 110012
11.08.2023	Global Symposium on FR- 4 th Preparatory meeting with ITPGRFA, FAO at V.C
16.08.2023	36 th Meeting of PPVFR Authority at Board Room, IGH, New Delhi
18.08.2023	Global Symposium on FR- 5 th Preparatory meeting with ITPGRFA, FAO at V.C
25.08.2023	Global Symposium on FR- 6 th Preparatory meeting with ITPGRFA, FAO at V.C
30.08.2023	A meeting to review the progress of preparations for Global Symposium on Farmers' Rights at Board Room, IGH, ICAR, NASC Complex

31.08.2023	A meeting to review the progress of preparations for Global Symposium on Farmers' Rights at Board Room, IGH, ICAR, NASC Complex
SEPTEMBER, 2023	
01.09.2023	Global Symposium on FR- 7 th Preparatory meeting with ITPGRFA, FAO at V.C
04.09.2023	Invitation as esteemed speaker in the Technical Session prior to AGM at Lecture Hall 1, NASC Complex, New Delhi
05.09.2023	Monthly meeting to review the progress of the Authority under the Chairmanship of Chairperson, PPVFRA at Committee Room of Authority
11.09.2023	A preparatory/ briefing meeting with facilitators/ moderators/ speakers and panelists at Board Room, IGH, ICAR, NASC Complex
22.09.2023	The meeting of the constituted committees for Global Symposium on Farmers Rights from 12 th to 15 th Sept, 2023 at PPVFR Authority at Lecture Hall, NAAS, NASC Complex, New Delhi
25.09.2023 – 30.09.2023	To visit The Netherlands to attend a study visit & consultation meeting to The Netherlands (Naktainbouw) to "DUS Testing on Tomato (Greenhouse)"
OCTOBER, 2023	
04.10.2023	Monthly meeting under the Chairmanship of Chairperson, PPVFRA at Committee Room, PPVFRA
06.10.2023 – 14.10.2023	To attend the special session on PPVFR during Agricultural Science Congress and Awareness Programme and Field Visit organized by KVK, Kottayam, Kerala.
19.10.2023	Task force meeting on the finalization of guidelines of Ashwagandha at V.C.

26.10.2023	A meeting for discussion of Recruitment Rules for the various positions of PPVFRA at PPVFR Authority
30.10.2023	A meeting of DUS on Ashwagandha at V.C.
31.10.2023	A meeting for discussion in draft RRs with proposed changes at Committee Room, PPVFRA
NOVEMBER, 2023	
01.11.2023	A meeting on TEA DUS PPV & FRA Project at V.C.
03.11.2023	Meeting (Presentation by Registrar-General on Foreign visit) at Committee Room, PPVFRA
06.11.2023	Monthly meeting under the Chairmanship of Chairperson, PPVFRA at Committee Room, PPVFRA
16.11.2023	Meeting for finalisation of “Development of DUS testing guidelines on Liliun and revision of Jasmine DUS guidelines” at Committee Room, PPVFRA
17.11.2023	International Webinar on “DUS & PVP Data Management” at Online/Offline
19.11.2023 – 25.11.2023	To attend the Tenth Session of the Governing Body of the International Treaty on Plant Genetic Resources for Food and Agriculture at Rome, Italy
DECEMBER, 2023	
04.12.2023	Monthly Meeting under the Chairmanship of Chairperson, PPVFRA at PPVFRA
13.12.2023 – 16.12.2023	To attend the Regional Agri Fair 2023-24 at Dimapur and visit DUS Centre of Lemon, Grass, Tea & Bamboo at Jorhat.
22.12.2023	Timahi Bethak at Committee Room, PPVFRA
JANUARY, 2024	
03.01.2024	Monthly Meeting under the Chairmanship of Chairperson, PPVFRA at Committee Room of PPVFRA

12.01.2024	Online meeting for Field Gene Bank by D.R. Choudhary, Joint Registrar, PPVFRA at Committee Room, PPVFRA
12.01.2024	Meeting with FAO Representatives in India at PPVFRA
15.01.2024	Development of DUS guidelines for Pran (<i>Allium x proliferum</i>) under Indian conditions, Dr. Geetika Malik, Scientist (Hort.- Veg. Sci.) Division of Vegetable Science and Floriculture, ICAR-Central Institute of Temperate Horticulture, Srinagar -191132 & Development of Guidelines to Conduct DUS test in Bambara Groundnut (<i>Vigna subterranea</i> (L.) Verdc).
	Dr. Nandhini, N., Professor, Department of Genetics and Plant Breeding, UAS, GKVK, Bengaluru, Karnataka – 560065 at V.C.
19.01.2024	First Meeting of the Committee to reassess the requirement of manpower of PPVFR Authority under the Chairmanship of Dr. P.L. Gautam, Chancellor, Dr. Rajendra Prasad Central Agricultural University at NAAS Complex, New Delhi- 110012
20.01.2024 – 23.01.2024	To attend an engaging session with Tribal Farmers of Dindori and Agriculture Department's Personnel. Discussion on “Plant Variety Protection & Farmers' Rights at Dindori & a programme of Futuristic Approach of Plant Variety Protection and Farmers' Rights Authority in Protecting Biodiverse Landraces with M. Sc and Ph. D Students fraternity and progressive farmers at JNKVV, Jabalpur.
24.01.2024	Discuss with Dr. Priyanka Thakur, Principal Floriculturist, RHRTS, Dhaula kuan, Sirmour, HP at V.C.
31.01.2024	EDV Committee under the Chairmanship of Prof SS Banga at Committee Room
FEBRUARY, 2024	
01.02.2024 – 04.02.2024	To monitor of DUS trails at SBI, CICR and TNAU & to discuss and review work of DUS Centres located in SBI, CICR, TNAU & IFGTB, Coimbatore.

02.02.2024	Discussion with Dr. Zahoor Ahmad Bhat, Associate Professor, Division of Floriculture Landscape & Architecture, Faculty of Horticulture, SKUAST-Kashmir, Shalimar, Srinagar at V.C.
05.02.2024	Meeting with, Mr. Michiel van Erkel (Agriculture Counsellor) & Mr. Sritanu Chatterjee (Sr. Policy Advisor) at NASC
06.02.2024	Meeting relating for functioning of PARV Portal and other technical issues connected with it at PPVFR Authority, NASC Complex, New Delhi- 110012
08.02.2024	हन्दि कार्यशाला at Committee Room, PPVFRA
12.02.2024	Revising existing DUS test guidelines and to identify new crops for which DUS guidelines need to be developed under the Chairmanship of Dr. Mangla Rai, Former DG, ICAR & Secretary DARE at IGH Board Room, NASC Complex, New Delhi - 110012
14.02.2024	To discuss whether we have to continue with PVP No. or to discontinue under the Chairmanship of Registrar-General, PPVFRA at Committee Room, PPVFRA
19.02.2024	Art Work at Plant Authority Bhawan, New Delhi
19.02.2024	To discuss cases relating to PAN – 804 at PPVFRA
20.02.2024	Developing guidelines/protocols for special/ quality traits under the Chairmanship of Dr. Swapan Kumar Dutta, Former Chairperson, PPVFRA & DDG (Crop Science) Committee Room-1, NASC Complex, New Delhi-110012 at Hybrid Mode (Physical/Virtual)
24.02.2024 – 26.02.2024	To participate in the training-cum-awareness programme on provisions of Protection of Plant Varieties and Farmers' Rights on 24 th February, 2024 at Prayagraj and 26 th February, 2024 at DRI, Chitrakoot.
27.02.2024	To discuss cases relating to PAN – 804 at PPVFRA

28.02.2024	A review meeting for review of all the branch offices under the Chairmanship of Chairperson, PPVFR Authority at Hybrid Mode
29.02.2024 – 03.03.2024	To participate as an invited speaker for the technical session titled "Policy and Regulatory Reforms for Seed Sector to speak on "Plant Variety Protection for growth of Seed Industry in India at The Westing, Koregoan Park Annexe, Pune, review of DUS Centres under the Chairmanship of Dr. T. Mohapatra, Chairperson, PPVFRA & to visit the DUS trail at NRC for onion & Garlic, Rajgurunagar, Pune.
MARCH, 2024	
04.03.2024 – 06.03.2024	To participate in State Level Training-cum-Awareness Programme on PPVFR Act and Farmers Rights at Panchayat Bhawan, Deoghar, Jharkhand orgnaized by ATARI, Patna.
07.03.2024	Hearing in Oppn. No.1 of 2022 (BANGABANDHU-1) at V.C
08.03.2024	To deliver a lecture in ICAR sponsored Winter School (Title: Plant Varieties and protection rights: Indian scenario) at Division of Vegetable Science, ICAR-IARI, New Delhi
08.03.2024	PARV meeting under the Chairmanship of Dr. T. Mohapatra, Chairperson, PPVFRA at Committee Room, PPVFRA
11.03.2024	Monthly meeting under the Chairmanship of Dr. T. Mohapatra, Chairperson, PPVFRA at Plant Authority Bhawan
12.03.2024	To discuss following PI of DUS projects at V.C.
12.03.2024	To discuss Dr. Priyanka Thakur, Principal Floriculturist, Regional Horticultural Research Training Station, Dhaulakuan, Sirmour-173031, HP at V.C.

9: Financial Statements of the Authority as on 31.03.2024

The financial statements were prepared under the historical cost convention in accordance with Generally Accepted Accounting Principles (GAAP), the applicable mandatory Accounting Standards (AS) issued by the Institute of Chartered Accountants of India (ICAI) and relevant presentational requirements for Central Autonomous Bodies as prescribed by the Controller General of Accounts (CGA). The Authority follows the accrual system of accounting in respect of all items of expenditure & income except where otherwise stated. A copy of Balance sheet as on 31 March, 2024, Income & Expenditure Account and Receipt & Payment Account for the year ended 31 March, 2024 are given. Audit of Annual Accounts for the year 2023-24 has been conducted by C&AG and they have also issued Separate Audit Report.

In compliance with section 62(2) of PPVFA Act, 2001, the accounts of the Authority were submitted to the Comptroller and Auditor General of India (C&AG). The audited accounts along with audit report and management's reply shall be sent to the Ministry separately for placing before both the houses of Parliament. The Authority has received Rs.3852.04 lakh as grants-in-aid from Department of Agriculture and Farmers' Welfare, during the year 2023-24 and utilized Rs.3322.21 lakh after adjusting unspent balance of Rs.257.15 lakh of previous year leaving a balance of Rs.786.98 lakh.

BALANCE SHEET AS AT 31st MARCH, 2024		
(Amount in Rupees)		
Corpus / Capital Fund and Liabilities	As at March 31, 2024	As at March 31, 2022
Corpus/ Capital Fund	2,274,005,801	2,028,507,365
Reserves and Surplus		-
Earmarked / Endowment Funds		-
Secured Loans and Borrowings	-	-
Unsecured Loans and Borrowings	-	-
Deferred Credit Liabilities	-	-

Current Liabilities and Provisions	290,528,167	268,009,393
TOTAL	2,564,533,968	2,296,516,758
Assets		
Fixed Assets	33,084,308	29,480,218
Less: Accumulated Depreciation	26,878,538	24,818,895
Net Fixed Assets	6,205,770	4,661,323
Capital Work in Progress	1,252,385,787	1,212,565,799
Investments- From Earmarked/ Endowment Funds	-	-
Investments - Others	896,800,219	774,435,705
Current Assets, Loans and Advances etc.	409,142,192	304,853,931
Miscellaneous Expenditure (to the extent not written off or adjusted)	-	-
TOTAL	2,564,533,968	2,296,516,758

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2024				
(Amount in Rupees)				
	AUTHORITY FUND		GENE FUND	
Income	For the year ended March 31, 2024	For the year ended March 31, 2023	For the year ended March 31, 2024	For the year ended March 31, 2023
Income from Sales/ Services	-	-	-	-
Grants/Subsidies	283,588,133	390,225,079	30,000,000	20,000,000
Fees/ Subscriptions	34,245,963	18,822,800	29,088,901	10,453,471
Income from Investments	31,618,539	22,305,051	26,772,348	18,906,834

Income from Royalty, Publication etc.	-	-	-	-
Interest Earned	2,919,752	3,635,963	16,439	182,556
Other Income	16,450,086	320,641	3,496,515	
Increase/ (Decrease) in stock of Finished Goods and Works in Progress	-	-	-	-
Prior Period Adjustment A/c	31,761,609	1,205,600	30,324,266	10,000
TOTAL (A)	400,584,082	436,515,134	119,698,469	49,552,861
EXPENDITURE				
Establishment Expenses	38,148,313	38,642,926	-	-
Other Administrative Expenses etc.	79,821,388	208,171,204	11,457,857	369,832
Expenditure on Grants , Subsidies etc.	162,062,738	149,014,678	-	-

Interest	1,386,761	1,233,478	-	-
Depreciation/ Amortization including Impairment Loss	2,059,643	942,917	-	-
Prior Period Adjustment A/c	29,187,931	6,372,454	67,970	1,434,911
TOTAL(B)	312,666,774	404,377,657	11,525,827	1,804,743
Balance being excess of Income Over Expenditure (A-B)	87,917,308	32,137,477	108,172,642	47,748,118
Transfer to special Reserve(Specify each)	-	-	-	-
Transfer to /from General Reserve	-	-	-	-
Balance being Surplus/(Deficit) carried to Corpus/Capital Fund	87,917,308	32,137,477	108,172,642	47,748,118

RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH, 2024

(Amount in Rupees)

RECEIPTS	For the year ended March 31, 2024	For the year ended March 31, 2023	PAYMENTS	For the year ended March 31, 2024	For the year ended March 31, 2023
1. Opening Balances			1. Expenses		
a) Imprest (Cash In hand)			a) stablishment Expenses	23,185,025	23,225,041
Palampur	11,842	841	b) dministrative Expenses (incl. Projects) etc.	81,918,851	167,914,506
Ranchi Branch	673	-			
Guwahati Branch	1,458	-	2. Payments made against funds		
			a) Existing DUS Centres	87,757,642	84,925,974
b) Bank Balances			b) New DUS Centres	29,664,902	28,315,185
i. In Current Account			c) Field Gene Bank	2,894,858	3,010,629
State Bank of India	1,162,153	594,560			

SBI (Gene Fund)	20,995,351	20,393,594	3. Expenditure on fixed Assets and Capital Work in Progress		
SBI Palampur Branch	16,758	33,771	a)Purchase of Fixed Assets (Authority)	1,450,227	436,165
			b) Capital Work-in-Progress	-	21,679,118
ii. In Deposit Accounts			4. Advance for Construction of Building given to Uttar Pradesh Rajkiya Nirman Nigam Ltd	20,985,093	30,144,000
SBI-Gene Fund	75,000,000	76,975,000	Software- IASRI	255,543	-
Canara Bank- Gene Fund	159,343,786	125,042,176	5. Grant release to Training Centres	3,375,003	1,470,000
UBI- Gene Fund	121,231,037	101,246,700			
Canara Bank- Authority	253,956,570	213,612,151	6. Advance to outside Deptt.	4,493,697	4,645,698
UBI- Authority	167,104,312	188,808,444			
SBI-Authority	-	2,257,000	7. Interest paid to Consolidated Fund of India	1,178,608	2,079,288
iii. In Savings Accounts			8. Contribution to Gene Fund	30,000,000	20,000,000
Canara Bank	36,825,577	18,668,834			
SBI Guwahati Branch	142,396	117,612	9. Refund of Fees / Subscriptions/Other Income		
SBI Ranchi Branch	128,540	110,834	Refund of Application/Registration Fees/DUS Fee/Annual Renewal Fee/PV Fee etc.	120,200	117,500
Canara Bank Shivamogga Branch	516,526	706,593			
Bank of Maharashtra Pune Branch	140,540	119,963	10. Contribution to ITPGFRA	10,672,684	37,347,214
UBI	1,414,411	37,202			

			11. Other Prior Period Adjustment A/c	23,927,935	6,591,765
2. Grants received from Government of India	385,203,851	445,977,233			
			12. Advance to Employee of PPVFRA	1,046,797	2,389,310
3. Interest Received from Bank (incl. Accrued Interest)	34,717,640	25,092,985			
			13. Security Deposit Refund	60,000	-
4. Refund of Grant from Maintenance of reference varieties (Annexure-B)	1,647,746	67,065			
			14. Statutory Liabilities Paid	12,352,807	24,245,843
5. Refund of Grant from Training Centres	332,309	626,104			
			15. Other Remittances	106,276	165,604
6. Refund of Grant for Development of DUS Guidelines (New DUS Centre)	105,485	1,125,000			
			16. Closing Balances		
7. Refund of Advance from Employees	305,708	546,747	a) Imprest (Cash In hand)		
			Shivmoga Branch	957	-
8. Unclassified/ Receipts from Parties	-	22,601,358	Palampur Branch	1,066	11,842
			Ranchi Branch	2,514	673
9. Fees / Subscriptions/ Other Income			Guwahati Branch	1,458	1,458

Application/ Registration Fees	9,079,000	4,089,800			
PV Subscription Fees	2,625,500	2,098,500	b) Bank Balances		
Annual Fees (Including Share from sale of Seeds)- Gene Fund	22,508,869	10,375,705	i. In Current Account		
DUS Test Fees	8,354,150	5,772,000	State Bank of India	2,969,417	1,162,153
Other Income (including prior period)	19,929,631	-	SBI (Gene Fund)	244,434	20,995,351
Annual Renewal Fees	9,123,313	7,062,000	SBI Palampur Branch	2,256	16,758
Sale of Old Newspapers, Scrap	630	-			
10. Contribution from Authority Fund	30,000,000	20,000,000			
11. Refund received from Tata Power	1,524,729	-	ii. In Deposit Accounts		
			SBI-Gene Fund	105,000,000	75,000,000
12. Refund from Income Tax Department (incl. Interest etc.)	2,108,320	2,535,000	Canara Bank-Gene Fund	212,532,883	159,343,786
			UBI-Gene Fund	125,714,917	121,231,037
13. Surplus from GPF Account	720,496	-	Canara Bank-Authority	373,982,973	253,956,570
			UBI-Authority	109,569,446	167,104,312
			iii. In Savings Accounts		
			Canara Bank	81,369,856	36,825,577
			SBI Guwahati Branch	146,289	142,396

			SBI Ranchi Branch	27,923	128,540
			Canara Bank Shivamogga Branch	364,985	516,526
			Bank of Maharashtra Pune Branch	147,392	140,540
			ICICI Bank	35,707	-
			Union Bank of India	18,718,686	1,414,411
TOTAL	1,366,279,307	1,296,694,772	TOTAL	1,366,279,307	1,296,694,772

10: Citizen's Charter

10.1 VISION OF THE AUTHORITY:

To ensure an effective system for protection of plant varieties, the rights of the farmers, plant breeders and to encourage the development of new varieties of plants.

10.2 OBJECTIVES OF THE AUTHORITY:

- To provide an effective system for protection of plant varieties and rights of farmers, plant breeders and researchers.
- To protect plant breeders' rights and to stimulate investment for Research & Development and evolution of new varieties.
- To recognize the farmers in respect of their contributions made for conserving, improving and making available plant genetic resources for development of new plant varieties.
- To facilitate the growth of seed industry to ensure production and availability of high quality seeds and planting material to the farmers.

10.3 FUNCTIONS OF THE AUTHORITY:

- Encourage the development of new varieties of plants and to protect the rights of the farmers and the plant breeders.
- Establishment of National Gene bank for orthodox seeds and field gene banks for perennial crops
- Registration of new and extant varieties of plants
- Developing documentation of registered plant varieties
- Documentation, indexing and cataloguing of farmers' varieties
- Compulsory cataloguing facility for all varieties of plants
- Ensuring seeds of varieties registered under the Act are available to farmers and providing for compulsory license, if needs arise
- Ensuring maintenance of National Register of plant varieties
- Utilization of Gene Fund for supporting the conservation and sustainable use of plant genetic resources and capacity building of the

panchayats in carryings out such conservation and sustainable use and meeting the expenditure of the schemes relating to benefits sharing and compensations to the stakeholders Protection of Plant Varieties and Farmers' Rights is a unique subject involving diverse activities, initiatives and stakeholders. The stakeholders of Protection of Plant Varieties and Farmers' Rights Authority are Central Government, State Governments, Union Territories, Research Organizations including State Agricultural Universities, Seed Industries, NGOs and above all the farmers including tribal farming communities.

10.4 SERVICES OFFERED BY THE AUTHORITY:

- Providing IPR protection to plant varieties bred by farmers, researchers/ plant breeders in the form of plant variety registration
- Maintaining National Register of Plant varieties wherein details of plant varieties and the rights of respective breeders are documented
- Providing compensation to the farmers in case a registered variety does not perform as per the claim made by the breeders
- Facilitating benefit sharing to the communities/ farmers for the contribution/ sharing of plant genetic resources
- Creating awareness and capacity building for the rights of plant breeders and farmers towards implementation of PPVFR Act, 2001
- Developing plant varieties database for the stakeholders
- Supporting and rewarding farmers and communities of farmers, particularly the tribal and rural communities, engaged in conservation, improvement and preservation of genetic resources

10.5 GRIEVANCES REDRESSAL MECHANISM:

Registrar-General, PPVFRA, is designated as the 1st Appellate Authority for RTI matters and can be contacted at:

Dr. D.K. Agarwal,
Registrar General,
1st Appellate Authority
Protection of Plant Varieties and Farmers' Rights
Authority, S-2, A Block, NASC Complex, DPS Marg,
New Delhi-110012.
Ph: 011-25843316, Fax: 011-25840478
E-mail: rg-ppvfra@nic.in;
Website: www.plantauthority.gov.in

Deputy Registrar, PPVFRA, is designated as the
Central Public Information Officer to address the
RTI matters and can be contacted at:
Sh. Uma Kant Dubey,
Deputy Registrar
Central Public Information Officer
Protection of Plant Varieties and Farmers' Rights
Authority, S-2, A Block, NASC Complex, DPS Marg,
New Delhi-110012.
Ph: 011-25843853, Fax: 011-25840478
E-mail: uk.dubey@gov.in;
Website: www.plantauthority.gov.in

Annexure I: Members of PPVFR Authority (As on 31st March, 2024)

S.No	Name	Designation	Address
1	Dr. P.K.Singh	Agriculture Commissioner	Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Govt. of India, Krishi Bhawan, New Delhi – 110 001
2	Dr. T.R.Sharma	Deputy Director General (Crop Science)	Division of Crop Science, ICAR, Ministry of Agriculture and Farmers Welfare, Govt. of India, Krishi Bhawan, New Delhi - 110 001
3	Shri Pankaj Yadav	Joint Secretary (Seeds)	Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Govt. of India Krishi Bhawan, New Delhi – 110 001
4.	Dr. Anju Rathi Rana	Additional Secretary	Department of Legal Affairs, Shastri Bhawan, New Delhi-110001.
5	Dr. Prabhat Kumar	Horticultural Commissioner	Department of Agriculture and Farmer Welfare, Ministry of Agriculture & Farmers Welfare, Govt. of India, Krishi Bhawan, New Delhi - 110001
6	Dr. G.P. Singh	Director	National Bureau of Plant Genetic Resources, Pusa, DPS Marg, New Delhi-110 012
7	Dr. Sanjay Mishra	Senior Adviser	Department of Biotechnology, Ministry of Science & Technology, Govt. of India, 7th Floor, Block- 2, CGO Complex, Lodhi Road, New Delhi- 110003.
8	Shri. Raghu Kumar Kodali	Scientist 'G'	CS-III (Biodiversity) Division, MoEFCC, New Delhi
9	Shri Tummala Anjaneyulu (vacant since 30.09.2023)	Member	Sugar Cane Grower's Association of Andhra Pradesh Village Remalle, Bapulapadu Mandal, Distt. Krishna, Andhra Pradesh – 521110
10	Smt. Jui Pethe (vacant since 30.09.2023)		Vanvasi Kalyan Ashram, 1, Shripad, Vakratunda Row, House, Opp. Rama Raman Apartment, Vrindavan Nagar, Kamatwade, Nashik- 422010.
11	Shri V. Venkateswarlu (vacant since 30.09.2023)	Director	M/s Vasanth Agri Biotech Pvt Ltd. 1-3-158/401, BSN Reddy Complex, Rajendranagar, Mahabubnagar, Telangana – 509001

12	Dr. Ganesh Kumar Koutu (vacant since 17.08.2023)	Director of Research Services,	Jawaharlal Nehru Krishi Vishwa Vidyalaya, B-6 Krishi Nagar, Aadhartal, Jabalpur, Madhya Pradesh, Pin- 482004.
13	Dr. Sudha Tiwari (vacant since 30.09.2023)	National President	SHAKTI (NGO for empowerment of Women), 50-51, Gurukripa Society, Naik Nagar, Near. Manewada Sq. Nagpur -440027
14	(vacant since 17.08.2023)	Additional Chief Secretary (Agriculture) or/ Principal Secretary (Agriculture)	Government of Gujarat
15	(vacant since 17.08.2023)	Additional Chief Secretary (Agriculture) or/ Principal Secretary (Agriculture)	Government of Himachal Pradesh

Annexure II: Details of Human Resources of PPVFR Authority as on 31st March, 2024

S. No	Name	Designation	Pay Level as per 7 th CPC
1	Dr. T. Mohapatra	Chairperson	Level 17 (Rs. 225000/-)
2	Dinesh. K. Agarwal	Registrar -General	Level 15 (Rs. 144200-218200/-)
3	Vacant (w.e.f. 01.08.2022)	Registrar	Level 13 (Rs.123100-215900)
4	Vacant (w.e.f. 12.08.2022)	Registrar	
5	Vacant (w.e.f. 05.12.2018)	Registrar	
6	Sh. Vipin Tyagi	Financial Advisor	
7	Sh. D. R. Choudhury	Joint Registrar	Level 12 (Rs.78800-209200)
8	Vacant (11.11.2017)	Joint Registrar	
9	Sh. D.S. Raj Ganesh	Legal Advisor	Level 11 (Rs.67700-208700)
10	Sh. U.K. Dubey	Deputy Registrar	
11	Sh. R. S. Sengar	Deputy Registrar	
12	Sh. Arun Kumar	Legal Advisor	
13	Dr. A. K. Singh	PVE	Level 7 (Rs. 44900-142400)
14	Dr. D. S. Plania	Technical Assistant	Level 6 (Rs. 35400-112400)
15	Sh. Arvind Kumar Rai	Computer Assistant	
16	Sh. Sanjay Kr. Gupta	Computer Assistant	
17	Smt. Shipra Mathur	Computer Assistant	
18	Sh. Nitesh Kumar Verma	Computer Assistant	
19	Sh. Shyam Narayan Prasad	Computer Assistant	

Annexure III: Statement Showing Funds Released to New DUS Centres/Projects During 2023-24

Sr. No.	Name of the New DUS Centre	Crop	Release During 2023-24 (in Rupees)
1	IIHR, ICAR-Unit, Bangalore	Papaya and Custard Apple	917,748
2	Dr.Y.S.Parmar University of Horticulture & Forestry, Solan	Carnation	465,000
3	TNAU,Coimbatore	Papaya and Custard Apple	115,460
4	UHS, Bagalkot	Moringa Oleifera Lam	469,188
5	TNAU,Coimbatore	Neem, Karanj & Jatrapha	535,208
6	Dr. Y. S. Parmar University of Horticulture & Forestry, Solan	Willow (Salix Species)	446,409
7	NRCSS, Ajmer	Ajwain, Dill, Nigella, Celery & Anise	300,000
8	IIHR, ICAR-Unit, Bangalore	Gerbera	300,000
9	Dr. Y. S. Parmar University of Horticulture & Forestry, Solan	Seabuckthorn	701,956
10	UAS, GKVK, Bangalore	Jackfruit	902,116
11	SKAUST- K, Srinagar (Saffron)	Saffron	930,000
12	SKUAST, Srinagar	Kalazeera	930,000
13	CRIJAF, BARRACKPORE	Mesta and Roselle	1,211,678
14	IIHR, Bangalore	Sapota	151,723
15	IIOR, Hyderabad	Niger	678,658
16	TNAU, Coimbatore	Black Gram	189,683
17	SKUAST, Kashmir	Knol- Khol	255,713
18	IARI, New Delhi	Lettuce	789,790
19	CSKHPKV, PALAMPUR	Grain Amarnth & Buck Wheat	733,397
20	CIMAP, LUCKNOW (ASWAGANDHA)	Ashwagandha	322,900
21	Comptroller, SKUAST-K, Srinagar (Pran)	Pran	650,025
22	Comptroller, SKUAST-K, Srinagar (Turnip)	Turnip	705,526
23	IIHR, BANGALORE (CURRY LEAVES)	Curry Leaves	289,795
24	NRC on Litchi,Muzaffarpur(Litchi & Guava)	Litchi & Guava	787,065
25	UAS,GKVK, BANGALORE (CHILLI, BELL PEPPER & PAPRIKA)	Chilli, Bell Peprika	639,840

26	SKUAST-K, Srinagar	Daffodils	164,787
27	CITH, Srinagar	parn	161,556
28	UAS, GKVK, BENGALURU	BAMBARA GROUNDNUT	655,681
29	IIVR, Varanasi	Ash Gourd, Snake Gourd, Ivy Gourd	1,130,000
30	Agharkar Research institute, Pune	Grapes	616,000
31	CSKHPKV, PALAMPUR	Barley	352,000
32	JNKVV, Jabalpur (Farmer Varities)		616,000
33	SKUAST-K, Srinagar	Paprika & Land Races	616,000
34	BAU, Sabour, BPS Agri College, Purnea	Makhana	781,000
35	CIAH, Bikaner	Khejri	781,000
36	CIAH, Bikaner	Mahua	781,000
37	CISH, Lucknow	Karonda	781,000
38	CIMAP, LUCKNOW	Ocimum SPP	781,000
39	TNAU, Coimbatore	Polymrah	781,000
40	IARI, New Delhi	Summer Squash	781,000
41	DMAPR, Anand, Gujarat	Ocimum SPP	781,000
42	IIHR, Bangalore	Summer Squash	781,000
43	NAU, Navsari, Gujarat	Adenium	781,000
44	NBPGR, RS, Shimla	Quinoa Spp	781,000
45	UAS, GKVK, Bangalore	Quinoa Spp	781,000
46	YSPUH& F, Solan	Alestromeria	781,000
47	YSPUH&F, Solan	Kiwifruit	781,000
	TOTAL		29,664,902

Annexure IV: Statement Showing Funds Released to Existing DUS Centres/ Projects during 2023-24

Sr. No.	Name of DUS Centre	Crop	Release During 2023-24 (in Rupees)
1	IIHR, ICAR-Unit, Bangalore	Tuberose & Carnation	991,911
2	CTCRI (Central Tuber Crops Research Institute), Thiruvananthapuram	Sweet Potato and Cassava	619,503
3	NBRI, ICAR-Unit, Lucknow	Gladiolus, Bougainvillea & Canna	370,444
4	BCKV, (Bidhan Chandra Krishi Visavidyalaya), Kalyani	Pointed Gourd	664,830
5	IIHR, ICAR-Unit, Bangalore	Jasmine	601,355
6	CITH, (Central Institute for Tropical Horticulture), ICAR-Unit, Srinagar	Peach, Plum, Apple, Almond, Pear, Apricot & walnut	1,210,702
7	CISH (Central Ins for Subtropical Horticulture), ICAR-Unit, Lucknow	Mango	1,168,602
8	RARI, Durgapur, Jaipur	Barley	391,368
9	DFR (Dir. Of Floriculture) ICAR, PUNE	Tuberose	652,652
10	IARI, Division of Floriculture, New Delhi	Bougainvillea	490,901
11	MPKV, (Mathma Phule Krishi Viswavidyalaya), Rahuri (Pune Station)	China astar	370,989
12	JNKVV, Jabalpur	Field Pea, Linseed & Lentil	518,768
13	CIMAP, (Central Institute for Medicinal and Aromatic Plants), Lucknow	Medicinal Plants	469,989
14	CIAH (Central Institute for Arid Horticulture), ICAR-Unit, Bikaner	Ber	782,744
15	IARI, Division of Vegetable Science, New Delhi	Bottle gourd, Bitter Gourd, Pumpkin & Cucumber	783,477
16	IARI, Regional Station, Katrain	Cabbage and Cauliflower	629,566
17	IIHR, ICAR-Unit, Bangalore	Mango	582,019
18	NRC, ICAR-Unit, Trichy	Banana	757,946
19	TRA, Tocklai	Tea	713,563
20	CARI, ICAR-Unit, Port Blair	Noni	519,519
21	TNAU, Coimbatore	Small Millet	427,800
22	NBPGR, ICAR-Unit, New Delhi	Grain Amaranth	715,440
23	TNAU, Coimbatore	Jasmine	600,551
24	JNKVV, Jabalpur	Sesame and Niger	775,617

25	IIHR, ICAR-Unit, Bangalore	Watermelon and Muskmelon	667,712
26	CSRTI, (Central Sericultural Research and Training Institute), Mysore	Mulberry	200,000
27	Dr. Y. S. Parmar University of Horticulture & Forestry, Solan	Poplar Germplasm	543,461
28	IFGTB (Institute of Forest Genetics and Tree Breeding), Coimbatore	Eucalyptus and Casuarina	501,897
29	IIHR, ICAR-Unit, Bangalore	Amaranth, Spinach & Ridge Gourd	612,568
30	NRCSS, (National Research Centre for Seed Spices), ICAR-Unit, Ajmer	Seed Spices	674,912
31	AAU, (Assam Agriculture University), Jorhat	Rice	708,899
32	Division of Floriculture, IARI, ICAR-Unit, New Delhi	Marigold	798,224
33	VPKAS (Vivekananda Parvatiya Krishi Anusandhan Shala), ICAR-Unit, Almora	Rajma, Soybean & Maize	1,415,677
34	DOGR (Directorate of Onion and Garlic Research), ICAR-Unit, Rajgurunagar	Onion and Garlic	558,400
35	NRCP, ICAR-Unit, Sholapur	Pomegranate	620,064
36	Division of Vegetable Science, IARI, ICAR-Unit, New Delhi	Onion and Garlic	364,152
37	IISR (Indian Institute of Sugarcane Research), ICAR-Unit, Lucknow	Sugarcane	300,000
38	IIHR, ICAR-Unit, Bangalore	Betel Vine	604,829
39	IISR, (Indian Institute of Spices Research), ICAR-Unit, Calicut	Spices	953,802
40	DSR (Directorate of Soybean Research), ICAR-Unit, Indore	Soybean	778,407
41	IIPR, (Indian Ins of Pulses Research), ICAR-Unit, Kanpur	Mungbean, Urdbean, Lentil, Rajma & Pea	658,500
42	NRC, (National Research Centre of Grapes), ICAR-Unit, Pune Maharastra	Grapes	581,316
43	IARI, ICAR-Unit, Regional Station, Karnal	Rice	761,952
44	Sugarcane Breeding Institute, ICAR-Unit, Coimbatore	Sugarcane	1,176,183
45	IGKV, Raipur	Grow out Test (Rice)	795,377
46	Sugarcane Breeding Institute, ICAR-Unit, Karnal	Sugarcane	300,000
47	IIWBR, ICAR-Unit, Karnal	Barley & Wheat	1,408,490
48	DRMR (Directorate of Rapeseed and Mustard Research), ICAR-Unit, Bharatpur	Rapeseed and Mustard	602,356
49	PAU, (Punjab Agriculture University), Ludhiana	Oat, Cowpea & Guinea Grass & Cotton	725,535

50	Central Tuber Crops Research Institute, ICAR-Unit, Trivandrum	Elephant Footyam, Taro, Yam Bean & Greater Yam	785,860
51	NRRI, (N Rice Research Institute), ICAR-Unit, Cuttack	Rice	1,162,685
52	PDKV, (Panjab Rao Deshmukh Krishi Viswavidyalaya), Akola	Pigeon Pea, Chickpea, Red Gram & Safflower	575,020
53	Division of Vegetable Science, IARI, New Delhi	Amaranth, Palak, Ridge Gourd	616,007
54	DMAPR (Dir. Medicinal & Aromatic Plant Research), Anand	Medicinal & Aromatic Plants	573,681
55	CCSHAU (Choudhary Charan Singh Hisar Agriculture University), Hisar	Cotton & Chickpea	1,154,013
56	IARI, ICAR-Unit, Regional Station, Indore	Wheat	766,765
57	CPRI (Central Potato Research Institute), ICAR-Unit, Shimla	Potato	1,110,451
58	NEH Region Barapani Manipur & Nagaland	Rice	1,103,347
59	Division of Vegetable Science, IARI, New Delhi	Cabbage and Cauliflower	716,334
60	PJTSAU, (Prof. Jayashankar Telengana State Agricultural University), Hyderabad	Maize	1,584,913
61	TNAU (Tamil Nadu Agricultural University), Coimbatore	Rice, Sunflower & Groundnut	716,881
62	CTCRI (Central Tuber Crops Research Institute), ICAR-Unit, Regional Station, Bhubaneswar	Sweet Potato and Cassava	577,456
63	IIMR, ICAR-Unit, Hyderabad	Sorghum	884,135
64	CRIJAFR, (Central Research Institute for Jute and Allied Fibres Research), Barrackpore & CSRS, Budbud	Jute	836,711
65	MPKV, Rahuri	Cotton	908,373
66	IIR, ICAR-Unit, Hyderabad	Sunflower, Castor & Safflower	567,152
67	CPCRI, ICAR-Unit, Kerala	Coconut	557,966
68	UAS, GKVK, Bangalore	Small Millet	709,146
69	CISH, (Central Ins For Subtropical Horticulture), ICAR-Unit, Lucknow	Guava & Litchi	784,537
70	IIPR, (Indian Ins of Pulses Research), ICAR-Unit, Kanpur	Chickpea & Pigeon pea	1,072,471
71	MPKV, Rahuri	Sorghum, Pearl Millet & Chickpea	2,372,304
72	UAS (University of Agriculture Sciences), Dharwad	Cotton, Soybean, Groundnut, Durum Wheat and Sesame	826,525
73	IIHR, (Indian Ins for Horticultural Research), ICAR-Unit, Bangalore	Rose & Chrysanthemum	871,683
74	IIRR, Hyderabad, ICAR-Unit, Hyderabad	Rice	1,527,050

75	IIMR, ICAR-Unit, New Delhi	Maize	2,302,241
76	CICR, Coimbatore	Cotton	539,748
77	CICR, ICAR-Unit, (Central Institute For Cotton Research), Nagpur	Cotton	2,424,513
78	IIVR, (Indian Institute of Vegetable Research), ICAR-Unit, Varanasi	Okra, Brinjal, Tomato, Cabbage & Cauliflower etc.	3,654,518
79	CCRI, ICAR-Unit, Nagpur	Citrus, Acid Lime Sweet Orange & Mandarin	549,803
80	IARI, New delhi	Chrysanthamum	514,986
81	IIVR (Indian Institute of Vegetable Research), Varanasi	Pointed Gourd	300,000
82	IIHR, Bangalore (Crossandra)	Crossandra	314,195
83	ANGRAU, Guntur	Mesta and Roselle	195,973
84	Dr. Y S R Horticulture University, Guntur, Andhra Pradesh	Chilli & Paprika	437,982
85	CSKHPKV, Palampur	Chilli, Paprika & Bell Pepper	278,339
86	UHS, Bagalkote (Chilli, Paprika & Bell Pepper)	Chilli, Paprika & Bell Pepper	475,370
87	SDAU,SK Nagar, Gujurat (Grain Amaranth)	Grain Amaranth	620,864
88	PDKV, AKOLA (MUNG BEAN) COLLABRATING CENTER	Mung Bean	300,000
89	CSKHPKV, Palampur (Buckwheat)	Buckwheat	203,960
90	CSAUA&T, Kanpur(Linseed)	Linseed	514,694
91	CIAH,Bikaner(Water and Muskmelon)	Watermelon and Muskmelon	553,275
92	Comp. PAU, Ludhiana (Faba Bean)	Faba Bean	535,000
93	ICAR,Unit NBPGR,New Delhi (Fababean)	Faba Bean	710,159
94	ICAR-Directorate of Research Puttur (Cashew)	Cashew	644,879
95	ICAR-AICRP Jodhpur (Pearl Millet)	Pearl Millet	573,109
96	ICAR Unit CTCRI, Thiruvananthapuram (Yambean Greater	Yambean Greater	1,455,069
97	ICAR,Unit IIHR, Bangalore (Okra, Brinjal, Tomato, Bitte Gourd	Okra, Brinjal, Tomato, Bitte Gourd	2,486,347
98	IIPR Kanpur (PigeonPea)	Pigeon Pea	300,000
99	BSKKV, DAPOLI	Nutmeg	578,855
100	Central Coffee Research Institute, Karnataka	Coffee	300,000
101	CIAH, Bikaner	Datepalm	449,947
102	CIAH, Bikaer	Jamun	161,251
103	CISH, Lucknow	Aonla	506,484

104	CISH, Lucknow	Bael	772,728
105	CISH, Lucknow	Jamun	545,426
106	<u>UAS, Dharwad</u>	Durum Wheat	886,700
107	CPCRI, Karnataka	Arecanut	530,000
108	CPCRI, Karnataka	Cocoa	300,000
109	CTRI, Rajahmundry	Bidi & Tabbaco	757,403
110	DFR, Pune	Rose	699,623
111	IARI, New Delhi	Gladiolus	747,778
112	IARI, New Delhi	Raddish & Carrot	916,174
113	IARI, Reg. Station, Katrain, Kullu	Raddish & Carrot	300,000
114	IFGTB (Institute of Forest Genetics and Tree Breeding), Coimbatore	Tectona Grandis	250,000
115	IIHR, Bangalore	Dolichos Bean	820,000
116	IIHR, Bangalore	Marigold	544,648
117	SKUAST-K, Srinagar	Rajmash & valley	321,166
Total			87,757,642

Annexure V: Statement Showing Funds Released to Field Gene Banks during 2023-24

S. No.	Name of Centres	Release During 2023-24 (in Rupees)
1	Dr. Balasaheb Konkan Krishi Vidyapeeth, Dapoli	507,510
2	NBPGR, New Delhi	968,120
3	YSPUH, Solan (Temperate Fruits) (FGB)	1,419,228
TOTAL		2,894,858

Annexure VI: Statement Showing Funds Released to the Organisation/Centre for Training & Awareness during 2023-24

S. No.	Name of Beneficiary	Release During 2023-2024 (in Rupees)
1	Assam Agri. Uni., Jorhat (AAU)	150,000
2	Birsa Agri. Uni., Ranchi(BAU)	80,000
3	Central Agriculture University Imphal 136/15	300,000
4	Ch SKK Vishwavidyalaya, Palampur 136/15 (Kullu,kangra, Sirmour, Bilaspur)	200,000
5	VPKAS Almorah	150,000
6	CIAH, Bikaner	80,000
7	CTCRI Trivendrum	115,003
8	Gobind Ballabh Pant Uni. of Agri.& Tech., (GBPUA&T) Pantnagar, Dehradun	80,000
9	KVK, Dhalai (136/15)	150,000
10	RVSKVV, Gwalior (136/15)	80,000
11	Zonal Projects Directorate -Zone -XI , Bangalore	150,000
12	Zonal Project, Director, ICAR, Zone- IV, Patna, Bihar	400,000
13	Programme Co- Ordinator Kvk Deomali	80,000
14	Swami Vivekanand Subharti University	150,000
15	NRRI, CUTTACK	225,000
16	Agharkar Research Institute, Pune	150,000
17	Deendayal Research Institute, Chitrakot, satna	150,000
18	ICAR-DFR, Pune	80,000
19	IIPR, Kanpur	125,000
20	KVK, East Kemang	80,000
21	Pro Rajendra Singh (Rajju Bhaiya) uni Prayag Raj	150,000
22	R S M (P.G) College , Bijnor	150,000
23	SBI, Coimbatore	100,000
	TOTAL	3,375,003

Annexure VII: Crops under Registration

Sr. No.	Crop	Botanical name
1.	Rice	<i>Oryza sativa</i> L.
2.	Bread wheat	<i>Triticum aestivum</i> L
3.	Maize	<i>Zea mays</i> L.
4.	Sorghum	<i>Sorghum bicolor</i> (L.) Moench
5.	Pearl millet	<i>Pennisetum glaucum</i> (L.) R.Br.
6.	Chickpea	<i>Cicer arietinum</i> L.
7.	Mungbean	<i>Vigna radiata</i> (L.) Wilczek
8.	Urdbean	<i>Vigna mungo</i> (L.) Hepper
9.	Fieldpea	<i>Pisum sativum</i> L.
10.	kidney bean	<i>Phaseolus vulgaris</i> L.
13	Indian mustard	<i>Brassica juncea</i> L. Czern & Coss
14	Karan rai	<i>Brassica carinata</i> A Braun
15	Rapeseed(toria)	<i>Brassica rapa</i> L.
16	Gobhi sarson	<i>Brassica napus</i> L.
17	Groundnut	<i>Arachis hypogaea</i> L.
18	Soybean	<i>Glycine max</i> (L.) Merrill
19	Sunflower	<i>Helianthus annuus</i> L.
20	Safflower	<i>Carthamus tinctorius</i> L.
21	Castor	<i>Ricinus communis</i> L.
22	Sesame	<i>Sesamum indicum</i> L.
23	Linseed	<i>Linum usitatissimum</i> L.
24	Diploid cotton	<i>Gossypium arboreum</i> L.
25	Diploid cotton	<i>Gossypium herbaceum</i> L.
26	Tetraploid cotton	<i>Gossypium hirsutum</i> L.
27	Tetraploid cotton	<i>Gossypium barbadense</i> L.
28	Jute	<i>Corchorus olitorius</i> L.
29	Jute	<i>Corchorus capsularis</i> L.
30	Sugarcane	<i>Saccharum</i> L.
31	Black pepper	<i>Piper nigrum</i> L.
32	Small cardamom	<i>Elettaria cardamomom</i> Maton
33	Turmeric	<i>Curcuma longa</i> L.
34	Ginger	<i>Zingiber officinale</i> Rosc.
35	Tomato	<i>Lycopersion lycopersicum</i> (L.) Karsten ex. Farw.
36	Brinjal	<i>Solanum melongena</i> L.
37	Okra	<i>Abelmoschus esculentus</i> (L.) Moench.
38	Cauliflower	<i>Brassica oleracea</i> L.var. <i>botrytis</i>
39	Cabbage	<i>Brassica oleracea</i> L. var <i>capitata</i>
40	Potato	<i>Solanum tuberosum</i> L.
41	Onion	<i>Allium cepa</i> L.
42	Garlic	<i>Allium sativum</i> L.

43	Rose	<i>Rosa</i> spp.(other than <i>R.damascena</i>)
44	Chrysanthemum	<i>Chrysanthemum</i> spp.
45	Mango	<i>Mangifera indica</i> L.
46	Duram wheat	<i>Triticum durum</i> Desf.
47	Dicoccum wheat	<i>Triticum dicoccum</i> L.
48	Other Triticum species	
49	Isabgol	<i>Plantago ovata</i> Forsk
50	Menthol mint	<i>Mentha arvensis</i> L.
51	Damask Rose	<i>Rosa damascena</i> Mill
52	Periwinkle	<i>Catharanthus roseus</i> L.
53	Brahmi	<i>Bacopa monnieri</i> L.Pennell
54	Coconut	<i>Cocos nucifera</i> L.
55	Orchids	<i>Vanda</i>
56	Orchids	<i>Dandrobium</i>
57	Orchids	<i>Cymbidium</i>
58	Pomegranate	<i>Punica granatum</i> L
59	Orchid	<i>Cattleya</i> Lindl.
60	Orchid	<i>Phalaenopsis</i> Blume
61	Eucalyptus	<i>Eucalyptus camaldulensis</i> Dehnh.
62	Eucalyptus	<i>Eucalyptus tereticornis</i> Sm.
63	Casurina	<i>Casuarina equisetifolia</i> L
64	Casurina	<i>Casuarina junghuhniana</i> Miq.
65	Bitter Gourd	<i>Momordica charantia</i> L.
66	Bottle Gourd	<i>Lagenaria siceraria</i> (Mol.) Standl.
67	Cucumber	<i>Cucumis sativus</i> L.
68	Pumpkin	<i>Cucurbita moschata</i> Duch. ex Poir.
69	Barley	<i>Hordeum vulgare</i> L.
70	Coriander	<i>Coriandrum sativum</i> L.
71	Fenugreek	<i>Trigonella foenum graecum</i> L.
72	Almond	<i>Prunus dulcis</i> (Mill.) D.A. Webb
73	Apple	<i>Malus domestica</i> Borkh
74	Pear	<i>Pyrus communis</i> L.
75	Apricot	<i>Prunus armeniaca</i> L.
76	Cherry	<i>Prunus avium</i> L.
77	Walnut	<i>Juglans regia</i> L.
78	Grapes	<i>Vitis</i> spp.
79	Indian jujube (Ber)	<i>Ziziphus mauritiana</i> Lamk.
80	Tea	<i>Camellia sinensis</i>
81	Tea	<i>Camellia assamica</i>
82	Tea	<i>C.assamica</i> ssp <i>lasiocalyx</i> .
83	Acid Lime	<i>Citrus aurantifolia</i> Swingle
84	Mandarin	<i>Citrus reticulata</i> Blanco

85	Sweet Orange	<i>Citrus sinensis</i> (L.) Osbeck
86	Bougainvillea	<i>Bougainvillea Comm. Ex Juss.</i>
87	Banana	<i>Musa spp.</i>
88	Orchid	<i>Oncidium Sw.</i>
89	Canna	<i>Canna L.</i>
90	Gladiolus	<i>Gladiolus L.</i>
91	Muskmelon	<i>Cucumis melo L.</i>
92	Watermelon	<i>Citrullus Lanatus</i> (Thunb.) Mansf.
93	Jasmine	<i>Jasminum auriculatum. L.</i>
94	Tuberose	<i>Polianthes tuberosa L.</i>
95	Papaya	<i>Carica papaya L.</i>
96	China Aster	<i>Callistephus chinensis (L.)Nees.</i>
97	Peach	<i>Prunus persica L Batsch.</i>
98	Japanese Plum	<i>Prunus salicina L.</i>
99	Strawberry	<i>Fragaria x ananasan Duch.</i>
100	Chilli, Bell Pepper and Paprika	<i>Capsicum annuum L.</i>
101	Finger Millet	<i>Eleusine coracana (L.) Gaertn.</i>
102	Foxtail Millet	<i>Setaria italic (L.) Beauv</i>
103	Vegetable Amaranth	<i>Amaranthus tricolor L.</i>
104	Ridge gourd	<i>Luffa acutangula (L.) Roxb.</i>
105	Spinach beet	<i>Beta vulgaris var. bengalensis Roxb.</i>
106	Carnation	<i>Dianthus caryophyllus L.</i>
107	Orchid	<i>Paphiopedilum Pfitz.</i>
108	Noni	<i>Morinda citrifolia L.</i>
109	Bael	<i>Aegle marmelos (L.) Correa</i>
110	Jamun/Black plum	<i>Syzygium cumini (L.) Skeels.</i>
111	Nutmeg	<i>Myristica fragrans Houtt.</i>
112	Jasmine/Mogra	<i>Jasminum sambac L.</i>
113	Custard apple / Sugar apple	<i>Annona squamosa L.</i>
114	Kalmegh /King of Bitters	<i>Andrographis paniculata (Burm.f.) Wall. ex Nees</i>
115	Karanj	<i>Pongamia pinnata (L.) Pierre.</i>
116	Neem	<i>Azadirachta indica A. Juss.</i>
117	Indian Gooseberry	<i>Emblica officinalis Gaertn.</i>
118	Guava	<i>Psidium guajava L.</i>
119	Litchi	<i>Litchi chinensis Sonn.</i>
120	Marigold	<i>Tagetesspp. L.</i>
121	Betelvine	<i>Piper betle L.</i>
122	Deodar	<i>Cedrus deodara (Roxb.) G.Don</i>
123	Chir Pine	<i>Pinus roxburghii Sargent</i>
124	Mulberry	<i>Morus spp.</i>
125	Jasmine	<i>Jasminum multiflorum L.</i>

126	Common/ Sweet Buckwheat	<i>Fagopyrum esculentum</i>
127	Tartary/ Bitter Buckwheat	<i>Fagopyrum tataricum</i>
128	Rajgeera (the King's grain) or Ramdana (Lord Rama's grain).	<i>Amaranthus hypocondricus</i>
129		<i>Amaranthus cruentus</i>
130		<i>Amaranthus caudatus</i>
131		<i>Amaranthus edulis</i>
132	Faba bean	<i>Vicia faba</i> L.
133	Jatropha	<i>Jatropha curcas</i> L.
134	Proso Millet	<i>Panicum maliaceum</i> L.
135	Barnyard Millet	<i>Echinochloa frumentaceae</i> (Roxb.) Link
136	Little Millet	<i>Panicum sumatrense</i> Roth. Ex. Roemer And Schultes
137	Kodo Millet	<i>Paspalum scorbiculatum</i> L.
138	Elephant Foot Yam	<i>Amorphophallus paeoniifolius</i>
139	Taro	<i>Colocasia esculenta</i>
140	Giant SwampTaro	<i>Cyrtosperma chamissionis/C.merkusii</i>
141	Cashew	<i>Anacardium occidentale</i> L.
142	Arecanut	<i>Areca catechu</i> L.
143	Chironji	<i>Buchananialanzan</i> Spreng.
144	Tamarind	<i>Tamarindusindica</i> L.
145	Sweet potato	<i>Ipomoea batatas</i> (L.) Lam
146	Cassava	<i>Manihotesculenta</i> Crantz.
147	Poplar	<i>Populusdeltoides</i> Bartr.
148-154	Willow (7 species)	<i>Salix tetrasperma, Salix nigra, Salix jessoensis, Salix x rubens, Salix matsudana, Salix alba, Salix acmophylla</i> .
155	Oat	<i>Avena sativa</i> L.
156	Date Palm	<i>Phoenix dactylifera</i> L.
157	Moringa	<i>Moringa oleifers</i> L.
158	Melia	<i>Melia dubia</i> Cav.
159	Pointed Gourd	<i>Trichosanthes dioica</i> Roxb.
160	Crossandra	<i>Crossandra infundibuliformis</i> (L.) Nees.
161	Cowpea	<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>unguiculata</i> and <i>Vigna unguiculata</i> (L.) Walp. ssp. <i>sesquipedalis</i> (L.) Verdc. (L.) Walp.
162	Jackfruit	<i>Artocarpus heterophyllus</i> Lam.
163	Greater Yam	<i>Dioscorea alata</i> L.
164	Yam Bean	<i>Pachyrhizus erosus</i> (L.)
165	Seabuckthorn	<i>Hippophae rhamnoides</i> L.
166	Ajwain	<i>Trachyspermum ammi</i> L.
167	Anise	<i>Pimpinella anisum</i> L.
168	Celery	<i>Apium graveolens</i> L.
169	Cumin	<i>Cuminum cyminum</i> L.
170	Dill	<i>Anethum graveolens</i> L. and <i>Anethum sowa</i> Roxb

171	Fennel	<i>Foeniculum vulgare</i> Mill.
172	Nigella	<i>Nigella sativa</i> L.
173	Horse gram	<i>Macrotyloma uniflorum</i> (Lam) Verdc
174	Gerbera	<i>Gerbera jamesonii</i> Adlem ex. Hooker f
175-176	Coffee	<i>Coffea arabica</i> L. & <i>Coffea canephora</i> Pierre ex A. Froehner
177	Flue-Cured Virginia (FCV) and <i>bidi</i> tobaccos	<i>Nicotiana tabacum</i> (L.)
178	Moth bean	<i>Vigna aconitifolia</i> (Jacq.) Marechal.
179	Cluster bean	<i>Cyamopsis tetragonaloba</i> L. Taub
180	Cocoa	<i>Theobroma cacao</i> L.
181	Radish	<i>Raphanussativus</i> L.
182	Carrot	<i>Daucuscarota</i> L.
183	Teak	<i>Tectona grandis</i> L. f.
184	Kalazeera	<i>Bunium persicum</i> (Bioss.) Fedts.
185	Saffron	<i>Crocus sativus</i> L.
186	Dolichos bean	<i>Lablab purpureus</i> (L.) Sweet
187	Ash gourd	<i>Benincasa hispida</i> (Thunb.) Cogn.
188	Snake gourd	<i>Trichosanthes anguina</i> L.
189	Ivy gourd	<i>Coccinia grandis</i> (L.)
190	Kokum	<i>Garcinia indica</i> Choisy
191	Lemon	<i>Citrus limon</i> (L.) Burm. f
192	Pummelo	<i>Citrus maxima</i> (J. Burm.) Merr.
193	Lilium	<i>Lilium</i> sp., Oriental, Asiatic, LA Hybrids and OT Hybrid
194	Jasmine	<i>Jasminum</i> spp.
195	Ashwagandha	<i>Withania somnifera</i> (L.) Dunal
196	Olive	<i>Olea europaea</i> L.
197	Anthurium	<i>Anthurium andraeanum</i>

Annexure VIII: Certificates of Registration issued during 2023-24

S. No.	Registration Number	Type of Variety	Denomination	Crop	Applicant Name
1	REG/2008/252	New	C 5703	Tetraploid Cotton	Mahyco Private Limited
2	REG/2008/257	New	C 5712	Tetraploid Cotton	Mahyco Private Limited
3	REG/2008/477	New	NCHB 991 Bt	Tetraploid Cotton	Nuziveedu Seeds Ltd
4	REG/2008/541	New	NCS 908 Bt	Tetraploid Cotton	Nuziveedu Seeds Ltd
5	REG/2009/44	Extant (VCK)	NM-119	Maize	Nuziveedu Seeds Ltd
6	REG/2009/45	Extant (VCK)	NM-58	Maize	Nuziveedu Seeds Ltd
7	REG/2009/46	Extant (VCK)	NM-206	Maize	Nuziveedu Seeds Ltd
8	REG/2009/48	Extant (VCK)	NM-115	Maize	Nuziveedu Seeds Ltd
9	REG/2009/82	Extant (VCK)	NCS-24	Tetraploid Cotton	Nuziveedu Seeds Ltd
10	REG/2009/89	Extant (VCK)	NCS-27	Tetraploid Cotton	Nuziveedu Seeds Ltd
11	REG/2009/100	Extant (VCK)	NCS-14	Tetraploid Cotton	Nuziveedu Seeds Ltd
12	REG/2009/222	Extant (VCK)	NC-1118	Tetraploid Cotton	Nuziveedu Seeds Ltd
13	REG/2009/242	Extant (VCK)	NC-142 Bt	Tetraploid Cotton	Nuziveedu Seeds Ltd
14	REG/2009/458	New	PKV TARA	Pigeon pea	Dr. Panjabrao Deshmukh Krishi Vidyapeeth
15	REG/2010/49	New	NSCL-63 (Sweet Corn)	Maize	Nuziveedu Seeds Ltd
16	REG/2010/246	Farmer	Safed Jhulu Swant	Kidney bean	Gram Panchayat Malla Ghorpatta
17	REG/2010/247	Farmer	Safed Swant	Kidney bean	Gram Panchayat Suring
18	REG/2010/248	Farmer	Chitkabra Lal Jhulu Swant	Kidney bean	Gram Panchayat Sarmouli
19	REG/2010/256	New	NP-210	Rice	Nuziveedu Seeds Ltd
20	REG/2010/364	New	PRCHB - 601 Bt 2	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
21	REG/2010/443	Extant (VCK)	S-EP-017	Brinjal	Mahyco Private Limited
22	REG/2010/493	Extant (VCK)	BA-1021	Tomato	Nuziveedu Seeds Ltd
23	REG/2011/173	Extant (VCK)	C 5718	Tetraploid Cotton	Mahyco Private Limited
24	REG/2011/174	New	C 5719	Tetraploid Cotton	Mahyco Private Limited
25	REG/2011/273	Farmer	LIKITI MACHHI	Rice	Tapan Kumar Panda
26	REG/2011/357	Farmer	GODI KABERI	Rice	Sri Mana Paika
27	REG/2011/361	Farmer	MUKTA MANI	Rice	Dalimba Gadaba
28	REG/2011/369	Farmer	HUNDA	Rice	Trilochan Majhi
29	REG/2011/458	New	PCH-9605 Bt2	Tetraploid Cotton	Prabhat Agri Biotech Ltd
30	REG/2011/581	Farmer	BADIKABERI	Rice	Mangala Majhi
31	REG/2011/653	Farmer	JIRAPHULA	Rice	Paturi Pradhan

32	REG/2011/796	Farmer	Nbr-ASSAMCHUDI	Rice	Netrananda Sahu
33	REG/2011/856	Farmer	Mbj-BASUMATI	Rice	Markanda Ho
34	REG/2011/908	Farmer	BAUDIACHAMPA-D	Rice	Biranchi Pradhan
35	REG/2011/1012	Farmer	Balangir-SARIA	Rice	Laxman Naik
36	REG/2011/1034	Farmer	Jajpur-CHAMARMANI	Rice	Laxmidhar Parida
37	REG/2011/1141	Farmer	ANTARI	Rice	Achyuta Rana
38	REG/2011/1172	Farmer	MAGURA	Rice	Kachiri Behera
39	REG/2011/1175	Farmer	MAGRA-B	Rice	Surendra Udurkulia
40	REG/2011/1178	Farmer	BHARATI	Rice	Dadhi Ch. Patel
41	REG/2011/1206	Farmer	Koraput- MACHAKANTA	Rice	Nihar Ranjan Bisoi
42	REG/2011/1212	Farmer	Ganjam- RATANCHUDI-G	Rice	Panchanan Pradhan
43	REG/2011/1214	Farmer	BASUDHA	Rice	Laxman Parida
44	REG/2011/1238	Farmer	KADAMFUL	Rice	Rameswar Mahanand
45	REG/2011/1253	Farmer	HALDIPANI	Rice	Dinabandhu Samad
46	REG/2011/1258	Farmer	KRUSHNA BHOGA	Rice	Judhistira Sahoo
47	REG/2011/1267	Farmer	Angl-Digipadar- CHINAMALI	Rice	Cittaranjan Biswal
48	REG/2011/1348	New	S-EP-060	Brinjal	Mahyco Private Limited
49	REG/2012/13	Extant (VCK)	PH17H	Maize	Pioneer Overseas Corporation
50	REG/2012/66	Farmer	Wheat 'Punjab Shingar'	Wheat	Shingara Singh
51	REG/2012/158	Farmer	Nuapada-Sinapali- MAHIPAL	Rice	Sadananda Rout
52	REG/2012/161	Farmer	CHAMPAISALI	Rice	Tapan Kumar Dey
53	REG/2012/165	Farmer	Gudri Bhog	Rice	Chamlal Ganjhu
54	REG/2012/240	Extant (VCK)	NM-130	Maize	Nuziveedu Seeds Ltd
55	REG/2012/248	Extant (VCK)	NM-61	Maize	Nuziveedu Seeds Ltd
56	REG/2012/253	Extant (VCK)	GP-1107	Maize	Yaaganti Seeds Pvt Ltd
57	REG/2012/254	Extant (VCK)	GP-225	Maize	Yaaganti Seeds Pvt Ltd
58	REG/2012/257	Extant (VCK)	GP-5022	Maize	Yaaganti Seeds Pvt Ltd
59	REG/2012/259	Extant (VCK)	GP-1098	Maize	Yaaganti Seeds Pvt Ltd
60	REG/2012/266	Extant (VCK)	ACH-567	Tetraploid Cotton	Asian Agri Genetics Ltd
61	REG/2012/318	Farmer	BHOJNI	Rice	Fransis Kujur
62	REG/2012/319	Farmer	Jondra Sail	Rice	Sitaram Ganju
63	REG/2012/333	Farmer	DHIYA	Rice	Fransis Kujur
64	REG/2012/396	Farmer	Jhinti-MOONG	Green gram	Nilamadhaba Panda
65	REG/2012/397	Farmer	MOONG-JHAIN	Green gram	Dusmanta Pradhan
66	REG/2012/423	Farmer	KHUDI KHASA	Rice	Dr. Debal Deb
67	REG/2012/435	Farmer	MAJHI JHULOR	Rice	Dr. Debal Deb
68	REG/2012/438	Farmer	MALABATI = ORAMETEH	Rice	Dr. Debal Deb
69	REG/2012/451	Farmer	SADA GETU	Rice	Dr. Debal Deb
70	REG/2012/459	Farmer	CHAHAO AMUBI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)

71	REG/2012/462	Farmer	CHANGAT	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
72	REG/2012/463	Farmer	CHANGAT PAL	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
73	REG/2012/464	Farmer	CHANGMAN	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
74	REG/2012/471	Farmer	AKHAN PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
75	REG/2012/473	Farmer	LANG PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
76	REG/2012/474	Farmer	MACHANG	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
77	REG/2012/476	Farmer	MAKRIO MOWO	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
78	REG/2012/481	Farmer	MELONG	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
79	REG/2012/483	Farmer	MOIRANG PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
80	REG/2012/485	Farmer	MOKRO	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
81	REG/2012/486	Farmer	LANGMANBI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
82	REG/2012/487	Farmer	KOTSIMEI MATE	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
83	REG/2012/491	Farmer	MIKRORO EFIMI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
84	REG/2012/495	Farmer	KAIBU ZERO	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
85	REG/2012/497	Farmer	KAKCHENG PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
86	REG/2012/498	Farmer	KANGLOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
87	REG/2012/502	Farmer	KONGTHANU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
88	REG/2012/504	Farmer	NAGARAH	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)

89	REG/2012/505	Farmer	NAPANG KONGKOI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
90	REG/2012/511	Farmer	PHE CHARANG	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
91	REG/2012/513	Farmer	PHOUGAK	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
92	REG/2012/514	Farmer	PHOUREL	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
93	REG/2012/522	Farmer	SIROIMA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
94	REG/2012/524	Farmer	TANGAKATI-A	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
95	REG/2012/525	Farmer	TAOTHABI ANGOUBA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
96	REG/2012/529	Farmer	CHING CHANGLEI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
97	REG/2012/530	Farmer	CHING CHANGLEI-A	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
98	REG/2012/532	Farmer	CHING PHOUREL	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
99	REG/2012/535	Farmer	DALAI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
100	REG/2012/538	Farmer	DISHA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
101	REG/2012/539	Farmer	DISHA-A	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
102	REG/2012/540	Farmer	DZIIKERO	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
103	REG/2012/541	Farmer	HUIKAP PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
104	REG/2012/571	Farmer	URUNIKAYAMA	Rice	P. V. Suresh, For Seed Care- An Association of Indigenous and Traditional Crop conservers of Malabar
105	REG/2012/574	Farmer	KALLADIYARYAN	Rice	P. V. Suresh, For Seed Care- An Association of Indigenous and Traditional Crop conservers of Malabar

106	REG/2012/578	Farmer	CHETUVELIYAN	Rice	P. V. Suresh, For Seed Care- An Association of Indigenous and Traditional Crop conservers of Malabar
107	REG/2012/579	Farmer	KUTTIVELIYAN	Rice	P. V. Suresh, For Seed Care- An Association of Indigenous and Traditional Crop conservers of Malabar
108	REG/2012/582	Farmer	MULLANPUNCHA	Rice	P. V. Suresh, For Seed Care- An Association of Indigenous and Traditional Crop conservers of Malabar
109	REG/2012/628	Farmer	SAFADI	Rice	Isdor Kulu
110	REG/2012/633	Farmer	JERA MUNI	Rice	Borenika Kulu
111	REG/2012/634	Farmer	Bheinsa Sal	Rice	Jemes Soren
112	REG/2012/660	Farmer	China Goda	Rice	Imanukhal Dungdung
113	REG/2012/665	Farmer	KABRI	Rice	Imanukhal Dungdung
114	REG/2012/671	Farmer	MANIPURI	Rice	Prabhudan Lakda
115	REG/2012/672	Farmer	KARHEINI	Rice	Niryas Soren
116	REG/2012/677	Farmer	BUHMAN	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
117	REG/2012/679	Farmer	BUHMAN KUNGTUM	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
118	REG/2012/680	Farmer	BUHMANTE	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
119	REG/2012/686	Farmer	UTTEIBI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
120	REG/2012/687	Farmer	WAINUCHARA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
121	REG/2012/698	Farmer	KARANGA GODA	Rice	Anjliyus Dungdung
122	REG/2013/34	Farmer	BHAISHA SHAIL	Rice	Ramesh Singh
123	REG/2013/61	Farmer	BHARI BHOJNYA	Rice	Sombri Munda
124	REG/2013/82	New	NC-1108/1 BG-II	Tetraploid Cotton	Nuziveedu Seeds Ltd
125	REG/2013/90	New	NC-5007 BG-I	Tetraploid Cotton	Nuziveedu Seeds Ltd
126	REG/2013/91	New	NC-1157	Tetraploid Cotton	Nuziveedu Seeds Ltd
127	REG/2013/134	Farmer	KARAD	Rice	Jandrog Panchayat
128	REG/2013/135	Farmer	Chamba Rajmash	Kidney Bean	Bhandal Panchayat
129	REG/2013/148	Farmer	BACHCHA KALAMDANI	Rice	Makriyus Tirkey
130	REG/2013/149	Farmer	MUDI FUTA LAL	Rice	Magdali Aind
131	REG/2013/150	Farmer	MIJDI BABA	Rice	Manoj Munda
132	REG/2013/151	Farmer	KHAL RAISI	Rice	Mangu Mahto
133	REG/2013/154	Farmer	SIKINAN	Rice	Samu Pahan
134	REG/2013/158	Farmer	TILASAIR	Rice	Moti Sahu

135	REG/2013/160	Farmer	LAL	Rice	Prameshwar Bhogta
136	REG/2013/165	Farmer	GUCHU ARA BABA	Rice	Shilas Murhu
137	REG/2013/185	New	PC - P3812 BG-II	Tetraploid Cotton	Prabhat Agri Biotech Ltd
138	REG/2013/201	New	PC - P801/1 BG-II	Tetraploid Cotton	Prabhat Agri Biotech Ltd
139	REG/2013/218	New	PSCP 38 BG-I	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
140	REG/2013/221	New	PSCP 35 BG-I	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
141	REG/2013/225	New	PSCP 36 BG-II	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
142	REG/2013/226	New	PSCP 16 BG-II	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
143	REG/2013/227	New	PSCP 33 BG-I	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
144	REG/2013/245	New	B140	Rice	Bayer Crop Science AG
145	REG/2013/312	Farmer	EKARA (AHU)	Rice	Harian Dab Pathar Parichalana Samittee
146	REG/2013/313	Farmer	KUNKUNI JAHA (1)	Rice	Harian Dab Pathar Parichalana Samittee
147	REG/2013/315	Farmer	PHUL PAKHARI	Rice	Harian Dab Pathar Parichalana Samittee
148	REG/2013/316	Farmer	CHEKA BOKA	Rice	Harian Dab Pathar Parichalana Samittee
149	REG/2013/317	Farmer	BETGUTI BARDHAN	Rice	Harian Dab Pathar Parichalana Samittee
150	REG/2013/318	Farmer	BANGALA BAO	Rice	Sonali Pathar Parichalana Samittee
151	REG/2013/319	Farmer	BACHI BARDHAN	Rice	Sonali Pathar Parichalana Samittee
152	REG/2013/320	Farmer	KEKOWA BAO	Rice	Sonali Pathar Parichalana Samittee
153	REG/2013/321	Farmer	MAINAGIRI	Rice	Sonali Pathar Parichalana Samittee
154	REG/2013/322	Farmer	HALDHA BARDHAN	Rice	Sonali Pathar Parichalana Samittee
155	REG/2013/323	Farmer	TULASI JAHA	Rice	Sonali Pathar Parichalana Samittee
156	REG/2013/421	Extant (VCK)	JKC 1040 BGII	Tetraploid Cotton	JK Agri Genetics Ltd
157	REG/2013/466	New	BIO-E21	Brinjal	DCM Shriram Limited
158	REG/2013/467	New	BIO-E22	Brinjal	DCM Shriram Limited
159	REG/2013/473	New	NC-1167	Tetraploid Cotton	Nuziveedu Seeds Ltd
160	REG/2013/480	Farmer	SUKARA	Rice	Community of Farmers
161	REG/2013/546	Farmer	KARSOLI	Rice	Shri Kushram Borah
162	REG/2013/547	Farmer	SOLPONA	Rice	Shri Deep Kr. Neog
163	REG/2013/550	Farmer	LAXMAN SALI	Rice	Shri Narayan Borah
164	REG/2013/551	Farmer	BANGSHI SALI	Rice	Shri Balindra Neog
165	REG/2013/553	Farmer	BOKA BORA	Rice	Shri Bhaskar Borah

166	REG/2013/555	Farmer	JENG BORA	Rice	Shri Niranjan Neog
167	REG/2013/556	Farmer	TIL BORA	Rice	Shri Rohini Neog
168	REG/2013/557	Farmer	GOBINDA TULASHI JOHA	Rice	Shri Mridul Baruah
169	REG/2013/559	Farmer	KON JOHA	Rice	Shri Harendra Neog
170	REG/2013/562	Farmer	DOOMBOR	Rice	Ms. Swapnali Gogoi
171	REG/2013/563	Farmer	BETGUTI	Rice	Secretary, Annam Brahma S.H.G.
172	REG/2013/565	Farmer	RONGDOI	Rice	Secretary, Annam Brahma S.H.G.
173	REG/2013/567	Farmer	MOU BORA	Rice	Secretary, Annam Brahma S.H.G.
174	REG/2013/569	Farmer	KONJOHA_GBG	Rice	Shri Swapnali Gogoi
175	REG/2013/571	Farmer	JAHINGIA	Rice	Secretary, Annam Brahma S.H.G.
176	REG/2013/574	Farmer	RONGA KARHOLI	Rice	Secretary, Annam Brahma S.H.G.
177	REG/2013/575	Farmer	SOIMARI	Rice	Ms Anu Gogoi
178	REG/2013/576	Farmer	SOLPONA_JGG	Rice	Ms Anu Gogoi
179	REG/2013/578	Farmer	BETGUTI SALI	Rice	Ms Anu Gogoi
180	REG/2013/580	Farmer	KALA BARNI	Rice	Sonali Pathar Parichalana Samittee
181	REG/2013/581	Farmer	BATCHA BHOG JAHA	Rice	Sonali Pathar Parichalana Samittee
182	REG/2013/584	Farmer	CHAMRAJ	Rice	Sonali Pathar Parichalana Samittee
183	REG/2013/585	Farmer	MALA BARDHAN	Rice	Sonali Pathar Parichalana Samittee
184	REG/2013/586	Farmer	JUL BARDHAN	Rice	Sonali Pathar Parichalana Samittee
185	REG/2013/610	Farmer	SALUMA MAIMI	Rice	Loko Farmer's Club
186	REG/2013/612	Farmer	BETI	Rice	Loko Farmer's Club
187	REG/2013/613	Farmer	MAIMI TAMASA	Rice	Loko Farmer's Club
188	REG/2013/617	Farmer	MAIMI UYAKLONG	Rice	Loko Farmer's Club
189	REG/2013/619	Farmer	MAIMI AUNGJHA	Rice	Loko Farmer's Club
190	REG/2013/620	Farmer	KARTIK BHINNI	Rice	Loko Farmer's Club
191	REG/2013/622	Farmer	MAIMI KATARMA	Rice	Loko Farmer's Club
192	REG/2013/623	Farmer	KAINCHALI	Rice	Loko Farmer's Club
193	REG/2013/625	Farmer	MAIMI UYAKRAU	Rice	Loko Farmer's Club
194	REG/2013/626	Farmer	MAISAI	Rice	Loko Farmer's Club
195	REG/2013/627	Farmer	GIAS	Rice	Jiban Mazumder
196	REG/2013/631	Farmer	BENGOONG	Brinjal	Jiban Mazumder
197	REG/2013/633	Farmer	CHAPARANG	Rice	Gobinda Tripura
198	REG/2013/634	Farmer	LUMRU	Rice	Gobinda Tripura
199	REG/2013/635	Farmer	GALON	Rice	Gobinda Tripura
200	REG/2013/636	Farmer	TOSHLAMPA	Rice	Gobinda Tripura
201	REG/2013/638	Farmer	MALA-ERI	Rice	Ratan Patwory
202	REG/2013/639	Farmer	THAKUR BHOG	Rice	Ratan Patwory
203	REG/2013/640	Farmer	BINNI-I	Rice	Ratan Patwory
204	REG/2013/644	Farmer	KAUPRU CHAUMA	Rice	Loko Farmer's Club
205	REG/2013/651	Farmer	MURARI DHAN	Rice	Shri. Sona Charan Debbarma
206	REG/2013/652	Farmer	ADHUMA KITING	Rice	Shri. Sona Charan Debbarma
207	REG/2013/653	Farmer	GANU MALATI	Rice	Shri. Sona Charan Debbarma

208	REG/2013/659	Farmer	GURIA KASAM	Rice	Bishurai Debbarma
209	REG/2013/662	Farmer	CHIKANSWARI	Rice	Bishurai Debbarma
210	REG/2013/663	Farmer	MAMI HANGAR	Rice	Bishurai Debbarma
211	REG/2013/664	Farmer	MAMI WATALAK	Rice	Bishurai Debbarma
212	REG/2013/665	Farmer	MAIMOR	Rice	Bishurai Debbarma
213	REG/2013/666	Farmer	GARO MALATI	Rice	Bishurai Debbarma
214	REG/2013/682	Farmer	GHEE GAGE (MIRZA)	Rice	Arabinda Farmers Club
215	REG/2013/683	Farmer	SONALI KHASA	Rice	Arabinda Farmers Club
216	REG/2013/724	Farmer	BINNI (MIRZA)	Rice	Arabinda Farmers Club
217	REG/2013/729	Farmer	GHEE GOJ (PILAK)	Rice	Sanghati Farmers Club
218	REG/2013/733	Farmer	RAI (SABROOM)	Indian mustard (Sarso)	Indranagar Farmers Club
219	REG/2013/735	Farmer	LAL SORSON	Rapeseed (Torja)	Indranagar Farmers Club
220	REG/2013/740	Farmer	TOMATO (SABROOM)	Tomato	Indranagar Farmers Club
221	REG/2013/742	Farmer	FUTI HALOOD	Turmeric	Indranagar Farmers Club
222	REG/2013/745	Farmer	LOCAL ARAL	Pigeon pea	Indranagar Farmers Club
223	REG/2013/759	Farmer	SADHU BHOG	Rice	Paulinea Kujur
224	REG/2013/770	Farmer	Kempu Asudi	Rice	Shree Siddharuda Savayava Krushikara Balaga & Beeja Bank
225	REG/2013/831	Farmer	Nati Bhatta	Rice	Deshi Krushikar Balaga
226	REG/2013/832	Farmer	Lanka-2	Rice	Deshi Krushikar Balaga
227	REG/2013/858	Farmer	Lanka-3	Rice	Deshi Krushikar Balaga
228	REG/2013/859	Farmer	Poonam Basamalti	Rice	Deshi Krushikar Balaga
229	REG/2013/893	Farmer	JANGANI BORA	Rice	Sri Atul Dutta
230	REG/2013/894	Farmer	LASLUA XALI	Rice	Sri Profulla Bora
231	REG/2013/895	Farmer	HUNKOCHI	Rice	Sri Siba Bhorali
232	REG/2013/896	Farmer	BHABOLI JOHA	Rice	Sri Jugen Borah
233	REG/2013/897	Farmer	KONAMUSORI	Rice	Sri Siba Bhorali
234	REG/2013/898	Farmer	HORU JAHINGA	Rice	Sri Togor Borah
235	REG/2013/899	Farmer	MAGURI BAW	Rice	Sri Raju Borah
236	REG/2013/900	Farmer	JANGONI	Rice	Sri Siba Bhorali
237	REG/2013/901	Farmer	AMPAKHI BORA	Rice	Sri Baliram Borah
238	REG/2013/902	Farmer	RANGALI BAW	Rice	Sri Hemo Dutta
239	REG/2013/903	Farmer	MOIMONSINGIA BAW	Rice	Sri Lakhi Kanta Dutta
240	REG/2013/904	Farmer	DEWRI BAW	Rice	Sri Lakhi Kanta Dutta
241	REG/2013/905	Farmer	RONGA MONUHAR	Rice	Sri Mridul Borah
242	REG/2013/906	Farmer	BOGA MONUHAR	Rice	Sri Mridul Borah
243	REG/2013/907	Farmer	SORU NEKERA	Rice	Sri Phonidhar Bhorali
244	REG/2013/908	Farmer	MEDELAGURI	Rice	Sri Ranjit Bhorali
245	REG/2013/909	Farmer	BODOL BAW	Rice	Sri Arup Konwar
246	REG/2013/910	Farmer	HORU SOKUA	Rice	Sri Mahan Ch. Borah
247	REG/2013/912	Farmer	JOHA BORA	Rice	Sri Pabitra Borah
248	REG/2013/942	Extant (VCK)	NTH-1009	Tomato	Nuziveedu Seeds Ltd
249	REG/2013/944	Extant (VCK)	NTH-0310	Tomato	Nuziveedu Seeds Ltd

250	REG/2013/961	Farmer	Chakhao Sempak	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
251	REG/2013/965	Farmer	Phourel Phoujao	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
252	REG/2013/966	Farmer	Chakhao Angouba	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
253	REG/2013/969	Farmer	Heimang Jhu	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
254	REG/2013/970	Farmer	Ahangrei	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
255	REG/2013/972	Farmer	Asham Ju Ngao	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
256	REG/2013/989	Farmer	KUMPI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
257	REG/2013/990	Farmer	KIO PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
258	REG/2013/991	Farmer	KUN KEILU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
259	REG/2013/997	Farmer	KHASIA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
260	REG/2013/1002	Farmer	KHAIJIAH	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
261	REG/2013/1096	Farmer	BADAM SARU	Rice	Anjan Kumar Sinha
262	REG/2013/1106	Farmer	HEITUP PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
263	REG/2013/1108	Farmer	PHOUREN NOINING	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
264	REG/2013/1112	Farmer	CHANDRIKA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
265	REG/2013/1113	Farmer	CHANG PAL	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
266	REG/2013/1115	Farmer	CHINGPHOU ANGOUBA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
267	REG/2013/1117	Farmer	MURSHI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
268	REG/2013/1119	Farmer	MAHA PHICARA MONO	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)

269	REG/2013/1123	Farmer	MOIMING	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
270	REG/2013/1124	Farmer	NEFAMA-A	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
271	REG/2013/1128	Farmer	MOHOR	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
272	REG/2013/1129	Farmer	GANESH PHOU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
273	REG/2013/1144	Farmer	PHOUREL PHOUDONGBA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
274	REG/2013/1179	Farmer	RASOM CHANGA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
275	REG/2013/1180	Farmer	NAPHANG DUIMEI	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
276	REG/2013/1182	Farmer	TEIMACHANG	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
277	REG/2013/1194	Farmer	CHAHAO SEMPAK	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
278	REG/2013/1196	Farmer	MACHENREI ACHEJHU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
279	REG/2013/1225	Farmer	CHAKHAO ANGANGBA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
280	REG/2013/1233	Farmer	CHANG SAN	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
281	REG/2013/1235	Farmer	MAOBUH	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
282	REG/2013/1238	Farmer	KHANGAMARA	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
283	REG/2013/1239	Farmer	KHANGAMARA-A	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
284	REG/2013/1240	Farmer	KHASOK JHU	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
285	REG/2013/1245	Farmer	ZULIANAP	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
286	REG/2013/1246	Farmer	CHANG KOH	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)

287	REG/2013/1247	Farmer	NAGABUH	Rice	All Manipur Trained Medicinal & Aromatic Plants Promoters Consortium (AMAPCON)
288	REG/2013/1252	Farmer	KALI MEKRA	Rice	Jitendra Navee
289	REG/2013/1253	Farmer	KALIJIRA	Rice	Abdul Latif
290	REG/2013/1257	Farmer	HORI NARAYAN	Rice	Imdadur Rahman Laskar
291	REG/2013/1258	Farmer	PROSAD BHOG	Rice	Jitendra Namasudra
292	REG/2013/1259	Farmer	GOWRAI	Rice	Anam Uddin Choudhury
293	REG/2013/1260	Farmer	SOYA MORA	Rice	Anam Uddin Choudhury
294	REG/2013/1261	Farmer	LAL BALAM	Rice	Ayub Ali Laskar
295	REG/2013/1263	Farmer	LATI SAIL	Rice	Baliram Nunia
296	REG/2013/1266	Farmer	SANKAR BHOG	Rice	Nikunja Malakar
297	REG/2013/1268	Farmer	MORICHA BHOG	Rice	Mastakin Ali
298	REG/2013/1271	Farmer	KRISHNA BHOG	Rice	Narayan Das
299	REG/2013/1273	Farmer	GANDHI BIROIN	Rice	Abdul Latif
300	REG/2013/1274	Farmer	BHERA POWA	Rice	Baliram Nunia
301	REG/2013/1279	Farmer	RAJ BHOG	Rice	Gopur Ali
302	REG/2013/1280	Farmer	KASALATH	Rice	Biro Sinha
303	REG/2013/1285	Extant (VCK)	PC - P281	Tetraploid Cotton	Prabhat Agri Biotech Ltd
304	REG/2013/1287	Farmer	TOIHA	Rice	N. CHONG LANG PHOM
305	REG/2013/1288	Farmer	NUKGAU	Rice	I. MEETING PHOM
306	REG/2013/1290	Farmer	KAPSHO	Maize	Pongo Village Council
307	REG/2013/1295	Farmer	AMONA BAO (L)	Rice	Shri Balin Patra
308	REG/2013/1318	Farmer	KANAKBHOG	Rice	Anjan Kumar Sinha
309	REG/2013/1324	Farmer	BALI DHAN	Rice	Hemi Sonowal
310	REG/2013/1337	Farmer	SWARAGPHALLA BAO	Rice	Manik Saikia
311	REG/2013/1338	Farmer	BEDAL BAO	Rice	Manik Saikia
312	REG/2013/1339	Farmer	BOGA AMONA BAO	Rice	Manik Saikia
313	REG/2013/1341	Farmer	BORJAHINGA	Rice	Suren Bora
314	REG/2013/1342	Farmer	NEPALI CHAKOWA	Rice	Suren Bora
315	REG/2013/1343	Farmer	BIROI	Rice	Suren Bora
316	REG/2013/1344	Farmer	CHARAINAKHI	Rice	Suren Bora
317	REG/2013/1345	Farmer	JURAI KHOWA	Rice	Suren Bora
318	REG/2013/1346	Farmer	HATI SALI	Rice	Suren Bora
319	REG/2013/1347	Farmer	NEGHERI BAO	Rice	Biren Baruah
320	REG/2013/1348	Farmer	TARAWALI	Rice	Luhit Chetia
321	REG/2013/1349	Farmer	SAI-MARI BAO	Rice	Luhit Chetia
322	REG/2013/1350	Farmer	DOLMORA BAO	Rice	Luhit Chetia
323	REG/2013/1351	Farmer	MIYA BAO	Rice	Luhit Chetia
324	REG/2013/1354	Farmer	JUL BAO	Rice	Dhan Hazarika
325	REG/2013/1356	Farmer	KATINOLE	Rice	Sunil Hazarika
326	REG/2013/1366	Farmer	IKHAJOY	Rice	Sabin Dulakashori
327	REG/2013/1369	Farmer	BOKA JAHINGA BAO	Rice	Manik Saikia
328	REG/2013/1370	Farmer	RANGOLI BAO	Rice	Manik Saikia

329	REG/2013/1377	Farmer	NAL BARNI	Rice	Sonali Pathar Parichalana Samittee
330	REG/2013/1378	Farmer	PARA CHAKUWA BARNI	Rice	Sonali Pathar Parichalana Samittee
331	REG/2013/1380	Farmer	MALBHOG BOKA	Rice	Sonali Pathar Parichalana Samittee
332	REG/2013/1381	Farmer	BAR EKARA	Rice	Sonali Pathar Parichalana Samittee
333	REG/2013/1384	Farmer	SHUNGAL BARNI	Rice	Harian Dab Pathar Parichalana Samittee
334	REG/2013/1386	Farmer	CHENGA	Rice	Harian Dab Pathar Parichalana Samittee
335	REG/2013/1387	Farmer	DARIAL	Rice	Harian Dab Pathar Parichalana Samittee
336	REG/2013/1389	Farmer	GARO MAH	Pigeon pea	Sonali Pathar Parichalana Samittee
337	REG/2013/1410	Farmer	BUH SAKEI	Rice	All Mizoram Farmer's Union (AMFU)
338	REG/2013/1418	Farmer	SHAAN	Rice	All Mizoram Farmer's Union (AMFU)
339	REG/2013/1419	Farmer	VUIPHIR	Rice	All Mizoram Farmer's Union (AMFU)
340	REG/2013/1420	Farmer	FAZU	Rice	All Mizoram Farmer's Union (AMFU)
341	REG/2013/1421	Farmer	LIAN RAN	Rice	All Mizoram Farmer's Union (AMFU)
342	REG/2013/1422	Farmer	FAZAI	Rice	All Mizoram Farmer's Union (AMFU)
343	REG/2013/1427	Farmer	IDAW-1	Rice	All Mizoram Farmer's Union (AMFU)
344	REG/2013/1428	Farmer	IDAW-2	Rice	All Mizoram Farmer's Union (AMFU)
345	REG/2013/1436	Farmer	MIMPUI SEN	Maize	All Mizoram Farmer's Union (AMFU)
346	REG/2013/1444	Farmer	PUAKZO-2	Maize	All Mizoram Farmer's Union (AMFU)
347	REG/2013/1485	Farmer	CHEPTI GURMASIYA	Rice	Dharohar samiti
348	REG/2013/1487	Farmer	DANDKAR	Rice	Dharohar samiti
349	REG/2013/1489	Farmer	RATAN CHUDI	Rice	Dharohar samiti
350	REG/2013/1505	Farmer	SUPAR LUCHAI	Rice	Dharohar samiti
351	REG/2013/1511	Farmer	LOKATI MACHI-1	Rice	Dharohar samiti
352	REG/2013/1535	Farmer	CHOTIYA	Rice	Dharohar samiti
353	REG/2013/1541	Farmer	CHATIYA NAKHI	Rice	Dharohar samiti
354	REG/2013/1552	Farmer	GODAVARI	Rice	Dharohar samiti
355	REG/2013/1555	Farmer	BANDKATI	Rice	Dharohar samiti
356	REG/2013/1568	Farmer	BATARI	Fieldpea	Tokraj Barla
357	REG/2013/1579	Farmer	MUJNI	Rice	M. R. Gupta
358	REG/2013/1586	Farmer	KALA JEERA-1	Rice	Sundar Sai
359	REG/2013/1598	Farmer	BATHRAS	Rice	Sudarshan Sai Painkara
360	REG/2013/1600	Farmer	RATANCHURI	Rice	Sudarshan Sai Painkara
361	REG/2013/1611	Farmer	GEETA	Rice	Yudhisthir Varik

362	REG/2013/1628	Farmer	NARPATI	Rice	Shri Bal Sai Rajwade
363	REG/2013/1629	Farmer	BAISADHO	Rice	Ramkumar Rajwade
364	REG/2013/1632	Farmer	SANUCHURIYA	Rice	Paramjeet Rajwade
365	REG/2013/1647	Farmer	KALAJEERA	Rice	Tirtaram
366	REG/2013/1660	Farmer	DESI ARHAR BENGARI	Pigeon pea	Gendu Gaur
367	REG/2013/1665	Farmer	ARHAR GANPAD	Pigeon pea	Ganpad Gaur
368	REG/2013/1667	Farmer	ARHAR MANPUR PAHADI	Pigeon pea	Koiram Lodhi
369	REG/2013/1668	Farmer	SIVARI DHAN	Rice	Nurjhar Baiga
370	REG/2014/19	Farmer	HATI DOTUA	Rice	Dijen Boroah
371	REG/2014/20	Farmer	BIRIA BHONGA BAW	Rice	Nondalal Pathori
372	REG/2014/21	Farmer	BOGA KEKU BAW	Rice	Biju Narah
373	REG/2014/22	Farmer	KHOLIHOI BAW	Rice	Sh. Komola Laying
374	REG/2014/24	Farmer	HARAI PUWA SOKUA	Rice	Panab Thakur
375	REG/2014/25	Farmer	ADOLIA BAW	Rice	Pankaj Boruah
376	REG/2014/28	Farmer	KOLA BORA	Rice	Ronjit Chettry
377	REG/2014/29	Farmer	DORIA	Rice	Bulen Bhuyan
378	REG/2014/30	Farmer	RONGA SOLPONA	Rice	Ruhitaswar Phukon
379	REG/2014/31	Farmer	KOLA AHU	Rice	Dulov Thakur
380	REG/2014/65	Farmer	BEKANG-FANGSIN	Soybean	Joseph H. Thanzuala
381	REG/2014/87	Farmer	BACHI	Rice	Anjan Kumar Sinha
382	REG/2014/109	Farmer	KHAJURCHARI	Rice	Anjan Kumar Sinha
383	REG/2014/127	Farmer	KATI SALI	Rice	Binanda Pachani
384	REG/2014/129	Farmer	PAKHI BORA	Rice	Podip Bhuyan
385	REG/2014/130	Farmer	RONGA JOHA	Rice	Nogen Phukon
386	REG/2014/131	Farmer	SWAGMONI BORA	Rice	Gahan Saikia
387	REG/2014/132	Farmer	SORU RONGDOI	Rice	Dilip Phukon
388	REG/2014/133	Farmer	SORU SOKUA	Rice	Podip Boiragi
389	REG/2014/134	Farmer	MAKHON BORA	Rice	Gopal Borah
390	REG/2014/135	Farmer	SIAL NEZIA BORA	Rice	Binod Chettry
391	REG/2014/136	Farmer	KUMKUM	Pigeon pea	Paresh Bauri
392	REG/2014/138	Farmer	IORO EPYO	Rice	Green Farmers Group
393	REG/2014/139	Farmer	AAHA	Rice	Green Farmers Group
394	REG/2014/140	Farmer	BANG	Rice	Green Farmers Group
395	REG/2014/141	Farmer	NEDHAN 1	Rice	Green Farmers Group
396	REG/2014/142	Farmer	EPYO	Rice	Green Farmers Group
397	REG/2014/143	Farmer	IDAW	Rice	Green Farmers Group
398	REG/2014/146	Farmer	CHEKCHO	Rice	Green Farmers Group
399	REG/2014/149	Farmer	TRAI	Rice	Green Farmers Group
400	REG/2014/150	Farmer	RENGKAWI	Rice	Green Farmers Group
401	REG/2014/151	Farmer	YULU-69	Rice	Green Farmers Group
402	REG/2014/152	Farmer	VIET 2	Rice	Green Farmers Group
403	REG/2014/153	Farmer	HAI BRING	Rice	Green Farmers Group
404	REG/2014/154	Farmer	SUNDRIDHAN	Rice	Green Farmers Group
405	REG/2014/158	Farmer	SHROI	Rice	Green Farmers Group
406	REG/2014/159	Farmer	VAIPHEITAI	Rice	Green Farmers Group

407	REG/2014/160	Farmer	ZOT LEAR	Rice	Green Farmers Group
408	REG/2014/161	Farmer	CHUKSING	Rice	Green Farmers Group
409	REG/2014/162	Farmer	CHRONG PHOU	Rice	Green Farmers Group
410	REG/2014/163	Farmer	MESOJONG	Rice	Green Farmers Group
411	REG/2014/164	Farmer	SHAKU	Rice	Green Farmers Group
412	REG/2014/165	Farmer	TSUKJI	Rice	Green Farmers Group
413	REG/2014/167	Farmer	CHANKIMASO	Rice	Green Farmers Group
414	REG/2014/168	Farmer	KHONG JAI PHOU	Rice	Green Farmers Group
415	REG/2014/169	Farmer	MOTODHAN	Rice	Green Farmers Group
416	REG/2014/171	Farmer	LESPAH	Rice	Green Farmers Group
417	REG/2014/172	Farmer	YIMYU	Rice	Green Farmers Group
418	REG/2014/173	Farmer	BALI	Rice	Green Farmers Group
419	REG/2014/175	Farmer	RHOHULLA	Rice	Green Farmers Group
420	REG/2014/181	Farmer	SAGG (W)	Rice	Seed Saver Farmers' Group
421	REG/2014/201	New	Punjab Basmati 3	Rice	Punjab Agricultural University
422	REG/2014/208	Farmer	KAMOD	Rice	Seed Saver Farmers' Group
423	REG/2014/211	Farmer	KOLIM	Rice	Indramal Tribal Seed Saver Group
424	REG/2014/215	Farmer	GAVRAN LASUN	Garlic	Indramal Tribal Seed Saver Group
425	REG/2014/221	Farmer	DHYANESHWAR-16	Sugarcane	Vishwanath Baldev Chavan
426	REG/2014/222	Farmer	MADHURA	Rice	Mavanji Ganpat Pawar
427	REG/2014/223	Farmer	KIRTI	Rice	Mavanji Ganpat Pawar
428	REG/2014/228	Farmer	CHUNULA	Fieldpea	Satish Baburao Chavan
429	REG/2014/229	Farmer	SHIDDHGIRI-1	Rice	Tanaji Nana Nikam
430	REG/2014/230	Farmer	LAL-GIRGA	Rice	Tanaji Nana Nikam
431	REG/2014/232	Farmer	VIET3	Rice	Green Farmers Group
432	REG/2014/233	Farmer	PASIMOT	Rice	Green Farmers Group
433	REG/2014/234	Farmer	KALAMOANI	Rice	Green Farmers Group
434	REG/2014/235	Farmer	BADAL SALI	Rice	Green Farmers Group
435	REG/2014/236	Farmer	MAGURI	Rice	Green Farmers Group
436	REG/2014/237	Farmer	BEOI DHAN	Rice	Green Farmers Group
437	REG/2014/238	Farmer	MANGURI	Rice	Green Farmers Group
438	REG/2014/240	Farmer	SIAL KATHI	Rice	Green Farmers Group
439	REG/2014/241	Farmer	TAGUR	Rice	Green Farmers Group
440	REG/2014/243	Farmer	AMLANG	Rice	Green Farmers Group
441	REG/2014/244	Farmer	KEBANG	Rice	Green Farmers Group
442	REG/2014/245	Farmer	BUGGING	Rice	Green Farmers Group
443	REG/2014/246	Farmer	TAKURI	Rice	Green Farmers Group
444	REG/2014/247	Farmer	PANKANK	Rice	Green Farmers Group
445	REG/2014/248	Farmer	PAUNG	Rice	Green Farmers Group
446	REG/2014/249	Farmer	TUDONG	Rice	Green Farmers Group
447	REG/2014/250	Farmer	AMBE	Rice	Green Farmers Group
448	REG/2014/251	Farmer	YAMUK	Rice	Green Farmers Group
449	REG/2014/252	Farmer	MUGME	Rice	Green Farmers Group
450	REG/2014/253	Farmer	MIPUN	Rice	Green Farmers Group
451	REG/2014/255	Farmer	KIMIN	Rice	Green Farmers Group

452	REG/2014/256	Farmer	DAGUM	Rice	Green Farmers Group
453	REG/2014/257	Farmer	AAMDA	Rice	Green Farmers Group
454	REG/2014/258	Farmer	NALI DHAN	Rice	Green Farmers Group
455	REG/2014/259	Farmer	VAK	Rice	Green Farmers Group
456	REG/2014/262	Farmer	SABOEG BYEO	Rice	Green Farmers Group
457	REG/2014/263	Farmer	TOPOLEO 88/76	Rice	Green Farmers Group
458	REG/2014/264	Farmer	NAM YANG II	Rice	Green Farmers Group
459	REG/2014/265	Farmer	MANI	Rice	Green Farmers Group
460	REG/2014/266	Farmer	IREN	Rice	Green Farmers Group
461	REG/2014/267	Farmer	ZIANG ZONG	Rice	Green Farmers Group
462	REG/2014/268	Farmer	BORDURGOHA	Rice	Green Farmers Group
463	REG/2014/269	Farmer	BYOONG	Rice	Green Farmers Group
464	REG/2014/270	Farmer	BIHARI	Rice	Green Farmers Group
465	REG/2014/271	Farmer	BORDURGOHA-2	Rice	Green Farmers Group
466	REG/2014/272	Farmer	BORDURGOHA-3	Rice	Green Farmers Group
467	REG/2014/273	Farmer	BORDURGOHA-4	Rice	Green Farmers Group
468	REG/2014/274	Farmer	BORDURGOHA-5	Rice	Green Farmers Group
469	REG/2014/275	Farmer	BORDHAN	Rice	Green Farmers Group
470	REG/2014/276	Farmer	LAHICHAR	Rice	Green Farmers Group
471	REG/2014/278	Farmer	KHONJEE-1	Rice	Green Farmers Group
472	REG/2014/279	Farmer	KHONJEE-3	Rice	Green Farmers Group
473	REG/2014/280	Farmer	AMOTTA BAO	Rice	Green Farmers Group
474	REG/2014/281	Farmer	JOWAI KBA	Rice	Green Farmers Group
475	REG/2014/282	Farmer	UMSNING-2	Rice	Green Farmers Group
476	REG/2014/283	Farmer	GANDOR GOGI	Rice	Green Farmers Group
477	REG/2014/284	Farmer	XIANG-ZIANG	Rice	Green Farmers Group
478	REG/2014/285	Farmer	MESAB	Rice	Green Farmers Group
479	REG/2014/286	Farmer	KHOLONG	Rice	Green Farmers Group
480	REG/2014/287	Farmer	JOWAI EARLY	Rice	Green Farmers Group
481	REG/2014/288	Farmer	BAPNAH (W)	Rice	Green Farmers Group
482	REG/2014/289	Farmer	BAPNAH (R)	Rice	Green Farmers Group
483	REG/2014/290	Farmer	LYNTER	Rice	Green Farmers Group
484	REG/2014/291	Farmer	KOBAULSALI	Rice	Green Farmers Group
485	REG/2014/292	Farmer	BUDOMANI	Rice	Green Farmers Group
486	REG/2014/293	Farmer	TARA BALI	Rice	Green Farmers Group
487	REG/2014/294	Farmer	RANGOLI	Rice	Green Farmers Group
488	REG/2014/295	Farmer	MYNRI	Rice	Green Farmers Group
489	REG/2014/297	Farmer	NIEDO	Rice	Razuveyi Hesuh
490	REG/2014/300	Farmer	NYELU TANYE	Rice	Zaposeyi Nyekha
491	REG/2014/301	Farmer	RHENO	Rice	Vekhorayi Lohe
492	REG/2014/303	Farmer	KONGULO RU(4)	Rice	Khwenyipe Khami
493	REG/2014/304	Farmer	MEKRU RU	Rice	Khwenyipe Khami
494	REG/2014/305	Farmer	NYODE	Rice	Sevozo Medeo
495	REG/2014/311	Farmer	KEHIPELO RU	Rice	Khwenyipe Khamo
496	REG/2014/312	Farmer	TENA	Rice	Kewechepe Mebou
497	REG/2014/314	Farmer	TENAPUKE THAU	Rice	Khwenyipe Khamo

498	REG/2014/315	Farmer	MELURU	Rice	Kewechepe Mebou
499	REG/2014/316	Farmer	MENAMAPO RU	Rice	Kewechepe
500	REG/2014/319	Farmer	MENABE	Rice	Welhipe Chiero
501	REG/2014/320	Farmer	TENGABE	Rice	Welhipe Chiero
502	REG/2014/322	Farmer	THUMURI (RUNGUZU NASA)	Rice	Cizopra Nienu
503	REG/2014/323	Farmer	KUTHINGIRI	Rice	Thupukhoyi Keyho
504	REG/2014/324	Farmer	KUMUNO	Rice	Saveneyi Keyho
505	REG/2014/325	Farmer	TANYE (RUNGUZU NASA)	Rice	Cizopra Nienu
506	REG/2014/326	Farmer	ECHUMI RU	Rice	Khwenyipe Khamo
507	REG/2014/328	Farmer	LOSAMIRU	Rice	Kewechepe Mebou
508	REG/2014/337	Farmer	MEPURI	Rice	Jayanta Sonowal
509	REG/2014/338	Farmer	MONI GAJORI	Rice	Najin Tulchiary
510	REG/2014/339	Farmer	CHAKWUA	Rice	Pawal Bora
511	REG/2014/340	Farmer	THIOMOKORI	Rice	Rajiv Basumatary
512	REG/2014/341	Farmer	RANGA SALI	Rice	Kiran Tulchiary
513	REG/2014/342	Farmer	GHEWU BORA	Rice	Jaganath Bora
514	REG/2014/343	Farmer	RANGA BAO	Rice	Hara Kanta Doley
515	REG/2014/345	Farmer	AMENA BAO	Rice	Suresh Misong
516	REG/2014/346	Farmer	DELO SALI	Rice	Prasanta Gogoi
517	REG/2014/347	Farmer	BOGI SALI	Rice	Suresh Taye
518	REG/2014/348	Farmer	DAL BAO	Rice	Pormananda Misong
519	REG/2014/353	New	BY778-nm	Maize	DCM Shriram Limited
520	REG/2014/359	Farmer	KHAMTI SALI	Rice	Mohan Missong
521	REG/2014/391	Farmer	BIHARI SALI	Rice	Padmakanta Nath
522	REG/2014/392	Farmer	KURMI SALI	Rice	Padmakanta Nath
523	REG/2014/393	Farmer	HURUPI KOMAL DHAN	Rice	Padmakanta Nath
524	REG/2014/394	Farmer	KRISHNA AHU	Rice	Padmakanta Nath
525	REG/2014/395	Farmer	KALIAKRISHNA SALI	Rice	Padmakanta Nath
526	REG/2014/399	Farmer	BOGI BORA	Rice	Padmakanta Nath
527	REG/2014/400	Farmer	BAM MAGURI	Rice	Padmakanta Nath
528	REG/2014/401	Farmer	KOLA JOHA (KALIABOR)	Rice	Padmakanta Nath
529	REG/2014/402	Farmer	INDRA NARAYAN SALI	Rice	Padmakanta Nath
530	REG/2014/404	Farmer	BIHARI BORO	Rice	Padmakanta Nath
531	REG/2014/405	Farmer	KATI BORA	Rice	Padmakanta Nath
532	REG/2014/406	Farmer	GODHA SALI	Rice	Padmakanta Nath
533	REG/2014/408	Farmer	HARKONA SALI	Rice	Padmakanta Nath
534	REG/2014/411	Farmer	BAM BOGI SALI	Rice	Padmakanta Nath
535	REG/2014/413	Farmer	BANGLA BORO	Rice	Padmakanta Nath
536	REG/2014/414	Farmer	PATAL SALI	Rice	Padmakanta Nath
537	REG/2014/415	Farmer	RONGA AHU	Rice	Padmakanta Nath
538	REG/2014/419	Farmer	No. 9	Rice	Padmakanta Nath
539	REG/2014/421	Farmer	GAYA SALI	Rice	Padmakanta Nath

540	REG/2014/430	Farmer	BIPLAV BORO (KALIABOR)	Rice	Padmakanta Nath
541	REG/2014/431	Farmer	JOLPANIA KOMAL	Rice	Padmakanta Nath
542	REG/2014/433	Farmer	GAUTOM SALI	Rice	Padmakanta Nath
543	REG/2014/434	Farmer	PRABHAT SALI	Rice	Padmakanta Nath
544	REG/2014/436	Farmer	NOL BORA DHAN (KALIABOR)	Rice	Padmakanta Nath
545	REG/2014/437	Farmer	JALAKIA KOMAL DHAN	Rice	Padmakanta Nath
546	REG/2014/438	Farmer	PANI MAGURI	Rice	Padmakanta Nath
547	REG/2014/439	Farmer	BAKUL JOHA (Type 3)	Rice	Padmakanta Nath
548	REG/2014/440	Farmer	LOHA DUNG	Rice	Jyoti Prashad Baruah
549	REG/2014/443	Farmer	SWARNAGUTI	Rice	Jyoti Prashad Baruah
550	REG/2014/450	Extant (VCK)	PC - P761	Tetraploid Cotton	Prabhat Agri Biotech Ltd
551	REG/2014/452	Extant (VCK)	PC - P951 Bt	Tetraploid Cotton	Prabhat Agri Biotech Ltd
552	REG/2014/459	Extant (VCK)	PC - P601	Tetraploid Cotton	Prabhat Agri Biotech Ltd
553	REG/2014/478	Extant (VCK)	PC - P211	Tetraploid Cotton	Prabhat Agri Biotech Ltd
554	REG/2014/482	Farmer	Rukmani	Pearl Millet	Khamkaran Rajpoot
555	REG/2014/485	Farmer	Rajwati	Black gram	Gajindra Singh
556	REG/2014/495	Farmer	TEZPURIA DEFA	Rice	Jyoti Prashad Baruah
557	REG/2014/497	Farmer	BADAL SALI (NOLTOLI)	Rice	Jyoti Prashad Baruah
558	REG/2014/514	Farmer	MAIGUTI	Rice	Ajit Boro
559	REG/2014/516	Farmer	UGNI SALI	Rice	Boloram Boro
560	REG/2014/517	Farmer	PUNPUNI JOHA	Rice	Boloram Boro
561	REG/2014/520	Farmer	KARBIPATI	Rice	Milon Boro
562	REG/2014/524	Farmer	BEROI SALI	Rice	Ganesh Das
563	REG/2014/527	Farmer	SIDRA BORA	Rice	Tarani Boro
564	REG/2014/528	Farmer	UKHNI SALI	Rice	Arabinda Rabha
565	REG/2014/535	Farmer	KHAUJI	Rice	Ananta Singphow
566	REG/2014/536	Farmer	MOHMADA NNENG	Rice	Ananta Singphow
567	REG/2014/537	Farmer	MYO NINGNAN	Rice	Ananta Singphow
568	REG/2014/538	Farmer	MYOHOM	Rice	Taisen Singphow
569	REG/2014/539	Farmer	DUMCHANGNNENG	Rice	Taisen Singphow
570	REG/2014/540	Farmer	NNENG CHANGHOM	Rice	Jogendra Nath Singphow
571	REG/2014/541	Farmer	KHAULUNG CHANG	Rice	Jogendra Nath Singphow
572	REG/2014/542	Farmer	KOLABOR	Rice	Ramlal Kurmi
573	REG/2014/543	Farmer	LUHA SALI	Rice	Chau Mridul Shyam
574	REG/2014/544	Farmer	CHOI LAHI	Rice	Mohan Gogoi
575	REG/2014/545	Farmer	HIL SALI	Rice	Mohan Gogoi
576	REG/2014/548	Farmer	BOGA BETGUTI	Rice	Ananta Singphow
577	REG/2014/562	Farmer	WONDER RICE	Rice	Melhite Kenye
578	REG/2014/567	Farmer	KESOL	Rice	Peter Sangma
579	REG/2014/572	Farmer	MI-GANGGET	Rice	Poresh Marak

580	REG/2014/575	Farmer	MIMA	Rice	Kepson Sangma
581	REG/2014/577	Farmer	MIMITTIM	Rice	Jhon Marak
582	REG/2014/581	Farmer	LAL MONOHAR	Rice	Paniuddin Sheikh
583	REG/2014/589	Farmer	MONOHOR (White)	Rice	Rochonath Rabha
584	REG/2014/594	Farmer	AMAN	Rice	Malina Marak
585	REG/2014/595	Farmer	PANGABASI	Rice	Lakhinath Hajong
586	REG/2014/597	Farmer	RAJA SALI	Rice	Barnet Sangma
587	REG/2014/599	Farmer	KOTCHU GISIM	Rice	Onil Koch
588	REG/2014/600	Farmer	STICKY RICE (BINNI DHAN)	Rice	Namsing Sangma
589	REG/2014/602	Farmer	KAGA	Rice	Sudetson Sangma
590	REG/2014/606	Farmer	Sita Chhatuiya	Black gram	Gopal Sharma
591	REG/2014/622	Farmer	CHAITA ARHAR	Pigeon pea	Muneshwar Ekka
592	REG/2014/625	Farmer	Jeevan	Wheat	Ramsajeevan
593	REG/2014/636	Farmer	Mota Arhar Kartika	Pigeon pea	Mangan Khalkho
594	REG/2014/637	Farmer	Ravi Zira Phool	Rice	Ravindra Pratap Singh
595	REG/2014/669	Farmer	Safed Makka	Maize	Akshay Manjhi
596	REG/2014/670	Farmer	Baghkalmi	Rice	Akshay Manjhi
597	REG/2014/678	Farmer	Shivcharan Urad-2	Black gram	Shivcharan Gope
598	REG/2014/681	Farmer	Panisayir	Rice	Shivcharan Gope
599	REG/2014/683	Farmer	Chaitari	Pigeon pea	Bigan Mahto
600	REG/2014/689	Farmer	Badka Gora	Rice	Dhirju Mahto
601	REG/2014/691	Farmer	Dhuchri Dhan	Rice	Bhola Oraon
602	REG/2014/694	Farmer	BISABALI	Rice	Jhabulal Kumhar
603	REG/2014/706	Farmer	Juhasal Dhan	Rice	Arjun Bediya
604	REG/2014/731	Farmer	Budhram Badam-1	Groundnut	Budhram Bediya
605	REG/2014/736	Farmer	Ramesh Urad-1	Black gram	Ramesh Bediya
606	REG/2014/741	Farmer	Budhram Haldi-1	Turmeric	Budhram Bediya
607	REG/2014/746	Farmer	SULESHWAR URD-1	Black gram	Maniram Bediya
608	REG/2014/747	Farmer	RASHMI HALDI-1	Turmeric	Maniram Bediya
609	REG/2014/750	Farmer	Pahlu Haldi-2	Turmeric	Pahlu Bediya
610	REG/2014/756	Farmer	CHANDANI-3	Fieldpea	Hareram Singh
611	REG/2014/757	Farmer	BHUSHAN	Rice	Ranjan Kumar Ray
612	REG/2014/758	Farmer	UMESH	Rice	Bagendra Mahto
613	REG/2014/813	Farmer	Tasnim	Rice	Syed Arafat Ali
614	REG/2014/834	Farmer	Lutni Rai	Indian mustard (Karan Rai)	Shiv Kripa Ruchi Self Help Group
615	REG/2014/837	Farmer	TAIMURIYA	Mango	Malihabad Community
616	REG/2014/839	Farmer	GOL BHADAIYAAN	Mango	Malihabad Community
617	REG/2014/841	Farmer	AAMIN KHURD	Mango	Malihabad Community
618	REG/2014/846	Farmer	MARKEARA	Mango	Malihabad Community
619	REG/2014/847	Farmer	HEERE HAYAT	Mango	Malihabad Community
620	REG/2014/848	Farmer	NAYAB	Mango	Malihabad Community
621	REG/2014/850	Farmer	SHAMSHUL US SMAR	Mango	Malihabad Community
622	REG/2014/851	Farmer	GILAS	Mango	Malihabad Community
623	REG/2014/853	Farmer	AAMIN TEHSIL	Mango	Malihabad Community

624	REG/2014/855	Farmer	JOHRI SAFEDA	Mango	Malihabad Community
625	REG/2014/856	Farmer	AAMIN ABBASI	Mango	Malihabad Community
626	REG/2014/857	Farmer	AAMIN ABDUL AHAD KHAN	Mango	Malihabad Community
627	REG/2014/858	Farmer	LAKHNAWWA SAFEDA	Mango	Malihabad Community
628	REG/2014/860	Farmer	SURRIAYA	Mango	Malihabad Community
629	REG/2014/897	Farmer	RED BURMA	Rice	Karen Welfare Association
630	REG/2014/902	Farmer	TISI	Linseed	Ram Chandra Prasad Singh
631	REG/2014/908	Farmer	LAHSONIA	Garlic	Rana Rakesh Raman
632	REG/2014/910	Extant (VCK)	RC467	Tetraploid Cotton	Rasi Seeds Pvt Ltd
633	REG/2014/944	Farmer	PATHAR KUCHI	Rice	Binanda Das
634	REG/2014/947	Farmer	NADE	Rice	Jamuna Mridha
635	REG/2014/989	Farmer	GHEUSH	Rice	Sachin Kumar Saradar
636	REG/2014/1021	Farmer	Narayan Bhog	Rice	Jagnarayan Chaudhary
637	REG/2014/1069	Farmer	Gehun	Wheat	Satish Chander
638	REG/2014/1070	Farmer	Makka Bansi	Maize	Ram Kailash
639	REG/2014/1072	Farmer	Masoor	Lentil	Pyarelal
640	REG/2014/1073	Farmer	RHU 1	Indian mustard (Sarso)	Ravindra
641	REG/2014/1095	Farmer	PAMMANIK	Rice	Ioolang Pakyntein
642	REG/2014/1097	Farmer	PNAH 800	Rice	Phibul Dkhar
643	REG/2014/1098	Farmer	PRIN KHMUT	Rice	Joylyphul Pale
644	REG/2014/1100	Farmer	SOOHEM	Rice	Alwis Dkhar
645	REG/2014/1101	Farmer	LANGLIANG	Rice	Hamran Tang
646	REG/2014/1102	Farmer	LESPAH JRONG	Rice	Koniat Suting
647	REG/2014/1104	Farmer	TYRSAH (KBA BHOI)	Rice	Phibul Dkhar
648	REG/2014/1105	Farmer	LAITKTUNG	Rice	Net Kyndait
649	REG/2014/1107	Farmer	MARTANG	Rice	Baily Dkhar
650	REG/2014/1108	Farmer	MOOSTEM	Rice	Stope Chormony
651	REG/2014/1109	Farmer	THARON	Rice	Kongka Padit
652	REG/2014/1110	Farmer	LYNTIR HEH	Rice	Ling Pyrtuh
653	REG/2014/1111	Farmer	LASWA (KBA LUM)	Rice	Koptal Sten
654	REG/2014/1113	Farmer	PNAH LIEH	Rice	Phibul Dkhar
655	REG/2014/1114	Farmer	KHAHNAR	Rice	Harding Nongspung
656	REG/2014/1115	Farmer	LIEH KHYNRIAM	Rice	Bait Shylla
657	REG/2014/1116	Farmer	SOOTANG	Rice	Arki Shylla
658	REG/2014/1117	Farmer	SHNIAH	Rice	Mein Charmony
659	REG/2014/1118	Farmer	KBA TNGEM MALA	Rice	Pedrowel Pakem
660	REG/2014/1119	Farmer	YELLOW SARSON SELECTION 204	Rapeseed (Torja)	Ghanshyam Prasad Mehta
661	REG/2014/1123	Farmer	TORI 201	Rapeseed (Torja)	Singheswar Prasad Mehta
662	REG/2014/1131	Farmer	JHULI	Rice	Uma Prasad Majhi
663	REG/2014/1133	Farmer	MUGDI PADDY	Rice	Narayan Bhoi
664	REG/2014/1138	Farmer	MIRCHAKHUTI DHAN	Rice	Phakira Majhi

665	REG/2014/1158	Farmer	Kali Misti Kumra	Pumpkin	Chandan Das
666	REG/2014/1175	Farmer	DADGHANI	Rice	Palash Barman Chowdhury
667	REG/2014/1184	Farmer	KHARA	Rice	Shyamal Ghosh
668	REG/2014/1227	Farmer	ARINGKA MINIL	Rice	Esilla M Sangma
669	REG/2014/1228	Farmer	MALSIRA	Rice	Serela M Sangma
670	REG/2014/1232	Farmer	KHANGAMRA MAKREI	Rice	Shirui Village Community
671	REG/2014/1251	Farmer	SARENG	Rice	L W Ngaranpam
672	REG/2014/1281	Farmer	PUSHKAR PLUS	Wheat	Parveen Kumar
673	REG/2014/1283	Farmer	SHARAD KING	Pomegranate	Vitthal Pundlikarao Bhosale
674	REG/2014/1331	Farmer	MOTSO	Rice	Thechamo Lotha
675	REG/2014/1332	Farmer	ZHUTSSOK	Rice	E. Mhonlumo Humtsoe
676	REG/2014/1334	Farmer	MANYA	Rice	Nzan Okho
677	REG/2014/1335	Farmer	SOMPOURO EPHYO	Rice	B. Longtsu Tuwgoe
678	REG/2014/1338	Farmer	UMOM TSUNGARO	Maize	Mhonchan Tungoe
679	REG/2014/1339	Farmer	ECHUNGTA TSUNGHARO	Maize	Nzan Okho
680	REG/2014/1388	Farmer	Narmda Pila Sarson	Rapeseed (Torja)	Raj Kishore Yadav
681	REG/2014/1389	Farmer	Dhanush Makka	Maize	Dhanush Dhari Yadav
682	REG/2014/1391	Farmer	Ram Makka	Maize	Munehswar Ram
683	REG/2014/1404	Farmer	Bhudhna Masoori	Lentil	Arend Krishak Samudaye
684	REG/2014/1420	Farmer	Kastoori Bhog	Rice	Arend Krishak Samudaye
685	REG/2014/1421	Farmer	Baldulari	Rice	Arend Krishak Samudaye
686	REG/2014/1422	Farmer	Nainga	Rice	Sarweshwar Nagwanshi
687	REG/2014/1424	Farmer	Barijata-28	Rice	Vijay Nagwanshi
688	REG/2014/1425	Farmer	Ruchi	Rice	Duiya Ram Nagwanshi
689	REG/2014/1494	Farmer	Bade Kosawari	Rice	Yashodha Sahani
690	REG/2014/1497	Farmer	Jhilli Dhan	Rice	Rameshwari Manjhi
691	REG/2014/1519	Farmer	Singhchoura Arhar	Pigeon pea	Rameshwari Tiwari
692	REG/2014/1564	Farmer	Ganga Baru-1	Rice	Bosaram Atami
693	REG/2014/1565	Farmer	Btatikra	Rice	Sukman
694	REG/2014/1578	Farmer	Devi Dhan	Rice	Devichand
695	REG/2014/1585	Farmer	Mudma Dhan	Rice	Mahenter Ram
696	REG/2014/1597	Farmer	Dhan Hardigathi Desi	Rice	Rooparam
697	REG/2014/1609	Farmer	Arhar Suryakant	Pigeon pea	Suryakant Yadav
698	REG/2014/1664	Farmer	Hare Krishna	Rice	Dharohar Samiti
699	REG/2014/1718	New	KCL-15	Tetraploid Cotton	Kaveri Seed Company Ltd
700	REG/2014/1724	New	KCL-13	Tetraploid Cotton	Kaveri Seed Company Ltd
701	REG/2014/1729	New	KCL-25	Tetraploid Cotton	Kaveri Seed Company Ltd
702	REG/2014/1746	Farmer	THARATHEI KATIKA	Maize	Shirui Village Community
703	REG/2014/1753	Farmer	MARENCOMTE	Maize	Shakleiphi Luiram
704	REG/2014/1763	Farmer	KHAVATE	Brinjal	L.R. Shimreiwon
705	REG/2014/1778	Farmer	LAL BARLEY	Barley	Lalia Devi

706	REG/2014/1834	Farmer	GUDDI MUSTARD	Rapeseed (Toria)	Guddi Kumari
707	REG/2014/1837	Farmer	SARAS MUSTARD	Rapeseed (Toria)	Saraswati Devi
708	REG/2014/1842	Farmer	NIRMAL SUDHA	Wheat	Surender Kumar
709	REG/2014/1844	Farmer	KOKUA BORA	Rice	Dr. Arunima Deb Choudhury
710	REG/2014/1845	Farmer	RONGA KOMAL	Rice	Dr. Arunima Deb Choudhury
711	REG/2014/1846	Farmer	SITAL CHENI JOHA	Rice	Dr. Arunima Deb Choudhury
712	REG/2014/1847	Farmer	SHANTI KOMAL	Rice	Dr. Arunima Deb Choudhury
713	REG/2014/1848	Farmer	GHEU BORA (TYPE-2)	Rice	Dr. Arunima Deb Choudhury
714	REG/2014/1849	Farmer	DUBARI KOMAL	Rice	Dr. Arunima Deb Choudhury
715	REG/2014/1854	Farmer	AAMPAKHI JAHINGA	Rice	Dr. Arunima Deb Choudhury
716	REG/2014/1855	Farmer	HATIDATIA KOMAL	Rice	Dr. Arunima Deb Choudhury
717	REG/2014/1856	Farmer	KOLA JOHA (SMALL)	Rice	Dr. Arunima Deb Choudhury
718	REG/2014/1857	Farmer	PUTHI BORA	Rice	Dr. Arunima Deb Choudhury
719	REG/2014/1858	Farmer	HIRA KOMAL	Rice	Dr. Arunima Deb Choudhury
720	REG/2014/1860	Farmer	CHENI JOHA	Rice	Dr. Arunima Deb Choudhury
721	REG/2014/1861	Farmer	KOLA JOHA (LONG)	Rice	Dr. Arunima Deb Choudhury
722	REG/2014/1862	Farmer	CILOTHIA BORA	Rice	Dr. Arunima Deb Choudhury
723	REG/2014/1863	Farmer	PISHASH BORA	Rice	Dr. Arunima Deb Choudhury
724	REG/2014/1864	Farmer	POITA BORA	Rice	Dr. Arunima Deb Choudhury
725	REG/2014/1865	Farmer	TEZ BORA	Rice	Dr. Arunima Deb Choudhury
726	REG/2014/1866	Farmer	GARU CHAKUA BORA	Rice	Dr. Arunima Deb Choudhury
727	REG/2014/1867	Farmer	KUNKUNI JOHA (TYPE 2)	Rice	Dr. Arunima Deb Choudhury
728	REG/2014/1869	Farmer	BAKUL BORA (TYPE 2)	Rice	Dr. Arunima Deb Choudhury
729	REG/2014/1870	Farmer	RAMPAL JOHA (TYPE 2)	Rice	Dr. Arunima Deb Choudhury
730	REG/2014/1872	Farmer	DESHI LAO	Bottle Gourd	Udday Mallick
731	REG/2014/1880	Farmer	BHADORE JONAR	Maize	Paritosh Kisku
732	REG/2014/1885	Farmer	BUMBA TUMUR	Pigeon pea	Ashoke Bera
733	REG/2014/1891	Farmer	DESHI KUMRA	Pumpkin	Santu Nandi
734	REG/2014/1893	Farmer	BHADOREY KUMRO	Pumpkin	Suben Tudu
735	REG/2014/1932	Farmer	DESI KUMRO	Pumpkin	Tinku Patra
736	REG/2014/1935	Farmer	DESHI MASUR-2	Lentil	Sisir Das
737	REG/2014/1942	Farmer	DESHI KARALA	Bitter Gourd	Dhirendranath Mahata
738	REG/2014/1948	Farmer	DESHI MUSUR-1	Lentil	Sakumar Bej
739	REG/2014/1987	Farmer	Dehati Haldi	Turmeric	Arvind Kumar
740	REG/2014/1991	Farmer	Dehati Matar	Fieldpea	Sudesh Kumar
741	REG/2014/1992	Farmer	Dehati Sarson	Indian Mustard (Sarso)	Sudesh Kumar
742	REG/2014/2069	New	RC462	Tetraploid Cotton	Rasi Seeds Pvt Ltd
743	REG/2014/2076	Farmer	KBA LWAI	Rice	Rima Warjri
744	REG/2014/2084	Farmer	KBA BAH	Rice	Brik Nongsiej

745	REG/2014/2104	Farmer	PYLLUN	Rice	Mon Bina
746	REG/2014/2115	Extant (VCK)	PHULE CHANDRABHAGA (SSF-748)	Safflower	Mahatma Phule Krishi Vidyapeeth
747	REG/2014/2119	Farmer	Lotani-Gota	Indian Mustard (Sarso)	Niranjana Panjiyara
748	REG/2014/2134	Farmer	Santra	Turmeric	Dindayal Singh
749	REG/2014/2138	Farmer	Chhoti Masoor	Lentil	Pradeep Kumar
750	REG/2014/2139	Farmer	Kandaila Haldi	Turmeric	Sanjog Kumar
751	REG/2014/2141	Farmer	Adhika	Lentil	Vijay Bahadur Singh
752	REG/2014/2142	New	TMC 500030	Tetraploid Cotton	TriMurti Plant Sciences Private Limited
753	REG/2014/2154	Farmer	Lahar	Indian Mustard (Sarso)	Dindayal Singh
754	REG/2014/2155	Farmer	Sunahari	Maize	Bisundayal Singh
755	REG/2014/2156	Extant (VCK)	RC396	Tetraploid Cotton	Rasi Seeds Pvt Ltd
756	REG/2014/2169	Farmer	Sotha Dhan	Rice	Udhari Singh
757	REG/2014/2172	Farmer	Kannu Log 7	Rice	Surendra Kumar
758	REG/2014/2175	Farmer	Lucky 5	Rice	Surendra Kumar
759	REG/2014/2180	Farmer	Nishi	Tomato	Surendra Kumar
760	REG/2014/2186	Farmer	Surkha	Turmeric	Surendra Kumar
761	REG/2014/2197	Farmer	Mota	Rice	Shyam Chandra Lala
762	REG/2014/2213	Farmer	Angoori-2	Rice	Ma Seva Sadan Evam Krishi Gramodyog Sansthan
763	REG/2014/2214	Farmer	Prince-1	Rice	Ma Seva Sadan Evam Krishi Gramodyog Sansthan
764	REG/2014/2215	Farmer	Tara-3	Rice	Ma Seva Sadan Evam Krishi Gramodyog Sansthan
765	REG/2014/2216	Farmer	Raj-4	Rice	Ma Seva Sadan Evam Krishi Gramodyog Sansthan
766	REG/2014/2220	Farmer	H.J.P-73	Rice	Jay Prakash Singh
767	REG/2014/2228	Farmer	Bhagat-Gram-1	Chickpea	Manjeet Singh Saluja
768	REG/2014/2229	Farmer	Bhagat-Pea-1	Fieldpea	Manjeet Singh Saluja
769	REG/2014/2230	Farmer	Bhagat-1	Wheat	Manjeet Singh Saluja
770	REG/2014/2235	Farmer	Urlu Tisi-1	Linseed	Urlu Munda
771	REG/2014/2245	Farmer	Hambal Pundi Baba	Rice	Sandeep Bodra
772	REG/2014/2248	Farmer	Nana Baba	Rice	Sandeep Bodra
773	REG/2014/2252	Farmer	Mijdi Dhan	Rice	Panara Munda
774	REG/2014/2254	Farmer	Mijdi Kharti Kali	Rice	Soma Hassa Purtti
775	REG/2014/2261	Farmer	Kala Dani	Rice	Durga Munda
776	REG/2014/2274	Farmer	Duru Dhan	Rice	Birsa Hassa Purtti
777	REG/2014/2297	Farmer	KHEUCH-RAN	Rice	Amarkan Rural Socio- Environmental Welfare Society (ARSW Society)
778	REG/2014/2304	Farmer	CHAPAKHUSI-I	Rice	Amarkan Rural Socio- Environmental Welfare Society (ARSW Society)
779	REG/2014/2392	New	RC461	Tetraploid Cotton	Rasi Seeds Pvt Ltd

780	REG/2014/2410	Farmer	Makarakam-1	Rice	Shravan Kumar
781	REG/2015/1	Farmer	Sugandhit Dana Guri	Rice	Parmeshwar Singh Chaudhary
782	REG/2015/2	Farmer	G.D.Bad	Maize	Haldhar Mahto
783	REG/2015/3	Farmer	Vikram Swarna Dhan	Rice	Badri Mahto
784	REG/2015/5	Farmer	Tulsi Sada Sugandhit Dhan	Rice	Ujjawal Beej Gram Jaypur Chutiario Govindpur
785	REG/2015/7	Farmer	Lal Dhusri-2 Dhan	Rice	Ujjawal Beej Gram Jaypur Chutiario Govindpur
786	REG/2015/23	Farmer	Jinnor Makai	Maize	Santosh Kumar
787	REG/2015/31	Farmer	Kanchan Rajma	Kidney bean	Arvind Kumar
788	REG/2015/38	Farmer	Kanchanpur Makai	Maize	Lalita Devi
789	REG/2015/40	Farmer	Kanchan Phoolgobhi	Cauliflower	Lalita Devi
790	REG/2015/51	Farmer	Vajjnath Adrakh (Desi)	Ginger	Vajjnath Prasad Verma
791	REG/2015/54	Farmer	Latani	Indian Mustard (Sarso)	Simant Mandal
792	REG/2015/61	Farmer	Makka Dhebri	Maize	Pyar Ali Ansari
793	REG/2015/66	Farmer	AAGAHANI	Pigeon pea	Basudev Mahto
794	REG/2015/68	Farmer	Desi Ridhhi	Maize	Narsingh Mahto
795	REG/2015/69	Farmer	Desi Suman	Maize	Sarathi Mandal
796	REG/2015/74	Farmer	Bad (Makai)	Maize	Giridhari Mahto
797	REG/2015/94	Farmer	THUL RAZMAH	Kidney bean	Ajaz Ahmad Pir
798	REG/2015/96	Farmer	MAKAI WAZEJ	Maize	Abdul Majid Magrey
799	REG/2015/102	Farmer	CHERI DANI	Rice	Habibullah Khan
800	REG/2015/103	Farmer	FARMI DANI	Rice	Ajaz Ahmad Pir
801	REG/2015/104	Farmer	ZUG	Rice	Altaf Ahmad Mir
802	REG/2015/105	Farmer	KHARKOT	Rice	Mohd Maqbool Khan
803	REG/2015/106	Farmer	KHARKHUT	Rice	Mohammad Yusuf Pir
804	REG/2015/107	Farmer	NIK BUIL	Rice	Gulam Mohammad Lone
805	REG/2015/108	Farmer	LER BUIL	Rice	Fayaz Ahmad Khaja
806	REG/2015/111	Farmer	DOUBLE KHACHAR	Maize	Shamas-ui-din-Khan
807	REG/2015/123	Farmer	KHASUR DANI GUTEGU	Rice	Mohd Maqbool Ahanger and Group
808	REG/2015/125	Farmer	Kirsey Foker	Lentil	Tsewang Dolma
809	REG/2015/126	Farmer	Nangstakmo	Barley	Tsewang Dolma
810	REG/2015/135	Farmer	Kathiya Desi Gehun	Durum Wheat	Jaiv Vividhata Prabhandhn Samittee
811	REG/2015/137	Farmer	Mugiya	Rice	Babulal Dahiya
812	REG/2015/138	Farmer	Khatkeshri	Rice	Babulal Dahiya
813	REG/2015/140	Farmer	Kardhana	Rice	Babulal Dahiya
814	REG/2015/145	Farmer	Sariya	Rice	Babulal Dahiya
815	REG/2015/147	Farmer	Shukla Phool	Rice	Babulal Dahiya
816	REG/2015/163	Farmer	Kamal Luchai	Rice	Babulal Dahiya
817	REG/2015/166	Farmer	Nebari	Rice	Babulal Dahiya
818	REG/2015/167	Farmer	Lal Muniya	Rice	Babulal Dahiya
819	REG/2015/198	Farmer	Nadawal	Rice	Babulal Dahiya
820	REG/2015/201	Farmer	Thunthi	Rice	Babulal Dahiya
821	REG/2015/210	New	PM12P017R	Pearl Millet	Rallis India Limited

822	REG/2015/230	Farmer	KARANJA TUAR	Pigeon pea	Mohammed Idris Ahmed Quadri
823	REG/2015/234	Farmer	QAUADAR GOAL GAYHOON	Wheat	Mohammed Idris Ahmed Quadri
824	REG/2015/236	Farmer	MOGAL GOAL JAWAR (RABBI)	Sorghum	Mohammed Idris Ahmed Quadri
825	REG/2015/237	Farmer	BAGDAL DESHI BAAJRA	Pearl Millet	Mohammed Idris Ahmed Quadri
826	REG/2015/238	Farmer	BAGDAL GAURAN CHANA	Chickpea	Mohammed Idris Ahmed Quadri
827	REG/2015/290	Farmer	Til-7	Sesame	Shyam Bihari Singh
828	REG/2015/293	Farmer	Saraiya Til	Sesame	Ashok Kumar Singh
829	REG/2015/295	Farmer	Til Safed-13	Sesame	Gupteshwar Singh
830	REG/2015/365	Farmer	Dehati Makka-1	Maize	Chandrashekhar Yadav
831	REG/2015/366	Farmer	Desi Kala Dhan-1	Rice	Dinesh Rajak
832	REG/2015/373	Farmer	Desi Jaii-1	Barley	Ashok Kumar Yadav
833	REG/2015/388	Farmer	Dehati	Castor	Satendra Kumar Singh
834	REG/2015/389	Farmer	Chotki Makka	Maize	Kishori Kumar Yadav
835	REG/2015/396	Farmer	Desi Makka Chota	Maize	Udit Kumar Yadav
836	REG/2015/399	Farmer	Piyarka Makkai	Maize	Lakhan Singh
837	REG/2015/401	Farmer	Desi Sarso Pila-1	Indian Mustard (Sarso)	Rajdev Prajapati (Savera Krishak Abhiruchi Samuh)
838	REG/2015/402	Farmer	Desi Jaie Sundhbala	Barley	Rajdev Prajapati (Savera Krishak Abhiruchi Samuh)
839	REG/2015/405	Farmer	Desi Lal Channa	Chickpea	Rajdev Prajapati
840	REG/2015/411	Farmer	Sathi Dhan-1	Rice	Vijay Kumar
841	REG/2015/420	Farmer	Chitri	Rice	Dr. Richariya Kisani Samwardhan Samiti
842	REG/2015/424	Farmer	Jhumar	Rice	Dr. Richariya Kisani Samwardhan Samiti
843	REG/2015/428	Farmer	Kurra Phool	Rice	Dr. Richariya Kisani Samwardhan Samiti
844	REG/2015/436	Farmer	Papeeta	Rice	Dr. Richariya Kisani Samwardhan Samiti
845	REG/2015/438	Farmer	Tulsi Manjari	Rice	Dr. Richariya Kisani Samwardhan Samiti
846	REG/2015/439	Farmer	Kanak Chudi	Rice	Dr. Richariya Kisani Samwardhan Samiti
847	REG/2015/447	Farmer	Maha Bekuni	Rice	Dr. Richariya Kisani Samwardhan Samiti
848	REG/2015/448	Farmer	Deshi Surmatiya	Rice	Dr. Richariya Kisani Samwardhan Samiti
849	REG/2015/450	Farmer	Kohandi	Rice	Dr. Richariya Kisani Samwardhan Samiti
850	REG/2015/451	Farmer	Batashi	Rice	Dr. Richariya Kisani Samwardhan Samiti
851	REG/2015/454	Farmer	Makhna	Rice	Dr. Richariya Kisani Samwardhan Samiti
852	REG/2015/455	Farmer	Ajaan	Rice	Dr. Richariya Kisani Samwardhan Samiti
853	REG/2015/458	Farmer	Kera Jhul	Rice	Dr. Richariya Kisani Samwardhan Samiti

854	REG/2015/459	Farmer	Aalcha	Rice	Dr. Richariya Kisani Samwardhan Samiti
855	REG/2015/460	Farmer	Laal Paana	Rice	Dr. Richariya Kisani Samwardhan Samiti
856	REG/2015/463	Farmer	Dokra Dokri	Rice	Dr. Richariya Kisani Samwardhan Samiti
857	REG/2015/464	Farmer	Ramshri	Rice	Dr. Richariya Kisani Samwardhan Samiti
858	REG/2015/466	Farmer	Kari Goti	Rice	Dr. Richariya Kisani Samwardhan Samiti
859	REG/2015/469	Farmer	Mai Dubraj	Rice	Dr. Richariya Kisani Samwardhan Samiti
860	REG/2015/471	Farmer	Jhini	Rice	Dr. Richariya Kisani Samwardhan Samiti
861	REG/2015/473	Farmer	Agni Faag	Rice	Dr. Richariya Kisani Samwardhan Samiti
862	REG/2015/474	Farmer	Kanchan	Rice	Dr. Richariya Kisani Samwardhan Samiti
863	REG/2015/475	Farmer	Bandgeer	Rice	Dr. Richariya Kisani Samwardhan Samiti
864	REG/2015/479	Farmer	Padki Pora	Rice	Dr. Richariya Kisani Samwardhan Samiti
865	REG/2015/480	Farmer	Khura Baho	Rice	Dr. Richariya Kisani Samwardhan Samiti
866	REG/2015/499	Farmer	Lokti Jhul	Rice	Dr. Richariya Kisani Samwardhan Samiti
867	REG/2015/501	Farmer	Baila Ankhi	Rice	Dr. Richariya Kisani Samwardhan Samiti
868	REG/2015/502	Farmer	Laycha	Rice	Dr. Richariya Kisani Samwardhan Samiti
869	REG/2015/506	Farmer	Alsakar	Rice	Dr. Richariya Kisani Samwardhan Samiti
870	REG/2015/509	Farmer	Menpat-1	Rice	Dr. Richariya Kisani Samwardhan Samiti
871	REG/2015/510	Farmer	Mayath	Rice	Dr. Richariya Kisani Samwardhan Samiti
872	REG/2015/519	Farmer	Ram Jhilli	Rice	Dr. Richariya Kisani Samwardhan Samiti
873	REG/2015/520	Farmer	Surmatiya	Rice	Dr. Richariya Kisani Samwardhan Samiti
874	REG/2015/521	Farmer	Rang Chudi	Rice	Dr. Richariya Kisani Samwardhan Samiti
875	REG/2015/525	Farmer	Anter Ved	Rice	Dr. Richariya Kisani Samwardhan Samiti
876	REG/2015/527	Farmer	Kariya Lahri	Rice	Dr. Richariya Kisani Samwardhan Samiti
877	REG/2015/529	Farmer	Kokdi Chudi	Rice	Dr. Richariya Kisani Samwardhan Samiti
878	REG/2015/530	Farmer	Safera	Rice	Dr. Richariya Kisani Samwardhan Samiti
879	REG/2015/535	Farmer	Sadachar	Rice	Dr. Richariya Kisani Samwardhan Samiti

880	REG/2015/537	Farmer	Khura Baal	Rice	Dr. Richariya Kisani Samwardhan Samiti
881	REG/2015/544	Farmer	Raghunath	Rice	Dr. Richariya Kisani Samwardhan Samiti
882	REG/2015/546	Farmer	Luhagi	Rice	Dr. Richariya Kisani Samwardhan Samiti
883	REG/2015/552	Farmer	Bata Nakhi	Rice	Dr. Richariya Kisani Samwardhan Samiti
884	REG/2015/557	Farmer	Bukti Chudi	Rice	Dr. Richariya Kisani Samwardhan Samiti
885	REG/2015/558	Farmer	Jilli Safari	Rice	Dr. Richariya Kisani Samwardhan Samiti
886	REG/2015/559	Farmer	Jal Singha	Rice	Dr. Richariya Kisani Samwardhan Samiti
887	REG/2015/562	Farmer	Panwar	Rice	Dr. Richariya Kisani Samwardhan Samiti
888	REG/2015/565	Farmer	Mota Sufri	Rice	Dr. Richariya Kisani Samwardhan Samiti
889	REG/2015/567	Farmer	B.D. Sufri	Rice	Dr. Richariya Kisani Samwardhan Samiti
890	REG/2015/569	Farmer	Bade Mahsuri	Rice	Dr. Richariya Kisani Samwardhan Samiti
891	REG/2015/570	Farmer	Barasingha Maidani	Rice	Dr. Richariya Kisani Samwardhan Samiti
892	REG/2015/573	Farmer	Maha Baisur	Rice	Dr. Richariya Kisani Samwardhan Samiti
893	REG/2015/574	Farmer	Badari	Rice	Dr. Richariya Kisani Samwardhan Samiti
894	REG/2015/575	Farmer	Parwat Kaal	Rice	Dr. Richariya Kisani Samwardhan Samiti
895	REG/2015/576	Farmer	Tendu Phool	Rice	Dr. Richariya Kisani Samwardhan Samiti
896	REG/2015/578	Farmer	Porti	Rice	Dr. Richariya Kisani Samwardhan Samiti
897	REG/2015/579	Farmer	Chhote Gurmatiya	Rice	Dr. Richariya Kisani Samwardhan Samiti
898	REG/2015/584	Farmer	Haruna Mansuri	Rice	Dr. Richariya Kisani Samwardhan Samiti
899	REG/2015/585	Farmer	Jonghara Dhan	Rice	Dr. Richariya Kisani Samwardhan Samiti
900	REG/2015/592	Farmer	Ramkeri	Rice	Dr. Richariya Kisani Samwardhan Samiti
901	REG/2015/594	Farmer	Salna Pana	Rice	Dr. Richariya Kisani Samwardhan Samiti
902	REG/2015/600	Farmer	Hathi Pinjra	Rice	Dr. Richariya Kisani Samwardhan Samiti
903	REG/2015/607	Farmer	Ramli Chonch	Rice	Dr. Richariya Kisani Samwardhan Samiti
904	REG/2015/608	Farmer	Mejhari	Rice	Dr. Richariya Kisani Samwardhan Samiti
905	REG/2015/618	Farmer	Kari Glass	Rice	Dr. Richariya Kisani Samwardhan Samiti

906	REG/2015/628	Farmer	Suwal Phool	Rice	Dr. Richariya Kisani Samwardhan Samiti
907	REG/2015/660	Farmer	Raata Jhinga	Rice	Ramchandra Yadav
908	REG/2015/665	Farmer	RAMJHUL	Rice	Ram Prakash Kesharwani
909	REG/2015/666	Farmer	MAHESHWARFUL	Rice	Ram Prakash Kesharwani
910	REG/2015/668	Farmer	CG-MAKHANSO BHOOG	Rice	Ram Prakash Kesharwani
911	REG/2015/670	Farmer	Parwati-Shiv	Rice	Ram Prakash Kesharwani
912	REG/2015/679	New	NJ-7005	Jute	Nuziveedu Seeds Ltd
913	REG/2015/684	Farmer	Suresh Lachhe Dhan	Rice	Suresh/Bhima
914	REG/2015/704	Farmer	Sanku Dhan	Rice	Sanku
915	REG/2015/712	Farmer	Singer Dhan	Rice	Sambhunath Sethia
916	REG/2015/786	Farmer	Manohar Dahiya Dhan-1	Rice	Manohar Oraon
917	REG/2015/787	Farmer	Manohar Rat Goli Dhan-1	Rice	Manohar Oraon
918	REG/2015/801	Farmer	Bhutku Dhan	Rice	Situ Oraon
919	REG/2015/802	Farmer	Gerwa Thor	Rice	Situ Oraon
920	REG/2015/804	Farmer	Domna	Rice	Situ Oraon
921	REG/2015/812	Farmer	Nagada Sayil	Rice	Krishna Oraon
922	REG/2015/813	Farmer	Bhagat Jau-1	Barley	Bhagat Mahto
923	REG/2015/835	Farmer	Meral	Maize	Krishna Thakur
924	REG/2015/846	Farmer	Gonda	Turmeric	Shivnath Kushwaha
925	REG/2015/904	Farmer	Hara Agahni	Brinjal	Ramchandra Mehta
926	REG/2015/909	Farmer	Gulabi-10	Brinjal	Ramchandra Mehta
927	REG/2015/914	Farmer	Banka	Linseed	Noor Mohammad Ansari
928	REG/2015/940	Farmer	Kalmegha	Fenugreek	Ramjavit Mahto
929	REG/2015/952	Farmer	Kalviran	Indian Mustard (Sarso)	Virendra Kumar Kushwaha
930	REG/2015/966	Farmer	Purnwa	Fenugreek	Awadesh Mehta
931	REG/2015/985	Farmer	Koirana	Turmeric	Brijkishor Mahto
932	REG/2015/993	Farmer	Bisa Sarson	Indian Mustard (Sarso)	Maniram Bediya
933	REG/2015/1004	Farmer	Budhni Dhan	Rice	Budhram Bediya
934	REG/2015/1006	Farmer	Sanfui Dhan	Rice	Shivcharan Bediya
935	REG/2015/1007	New	P3511	Maize	Pioneer Overseas Corporation
936	REG/2015/1008	New	PH218V	Maize	Pioneer Overseas Corporation
937	REG/2015/1014	New	P3550	Maize	Pioneer Overseas Corporation
938	REG/2015/1015	New	P3520	Maize	Pioneer Overseas Corporation
939	REG/2015/1016	New	PH1RA5	Maize	Pioneer Overseas Corporation
940	REG/2015/1017	New	PH26WP	Maize	Pioneer Overseas Corporation
941	REG/2015/1020	Farmer	CHIKARA BORA	Rice	Arabinda Rabha
942	REG/2015/1021	Farmer	AYLAXMI	Rice	Arabinda Rabha
943	REG/2015/1023	Farmer	RANGKHANG	Rice	Deepsankar Saikia
944	REG/2015/1024	Farmer	KABRABALAM	Rice	Tapan Saikia
945	REG/2015/1025	Farmer	CHARNA GUTI	Rice	Tapan Saikia
946	REG/2015/1026	Farmer	HAJARI	Rice	Padma Kanta Saikia
947	REG/2015/1027	Farmer	BUDHA	Rice	Padma Kanta Saikia

948	REG/2015/1162	Farmer	KAMAD	Rice	Farming Community of Villages, Dist: Anantnag
949	REG/2015/1178	Farmer	MARIA DHAN-1	Rice	Maria Goreti Soren
950	REG/2015/1191	Farmer	POLINA SARSON-1	Indian Mustard (Sarso)	Poilna Tudu
951	REG/2015/1192	Farmer	POLINA SARSON-2	Indian Mustard (Sarso)	Poilna Tudu
952	REG/2015/1196	Farmer	MARIA SARSON	Indian Mustard (Sarso)	Maria Goreti Soren
953	REG/2015/1235	Farmer	JABSAL-1	Rice	Mohirul Hasan Mandal
954	REG/2015/1288	Farmer	DOLKOSEE	Rice	Gobin Das
955	REG/2015/1341	New	EAGLE-61	Soybean	Eagle Seeds & Biotech Ltd
956	REG/2015/1342	New	EAGLE-71	Soybean	Eagle Seeds & Biotech Ltd
957	REG/2015/1343	New	EAGLE-81	Soybean	Eagle Seeds & Biotech Ltd
958	REG/2015/1402	Farmer	Lotni Desi	Rapeseed (Torja)	Mandip Yadav
959	REG/2015/1405	Farmer	Desi Chiniya	Groundnut	Karmila Devi
960	REG/2015/1407	Farmer	Desi Moongfali Lal	Groundnut	Binod Bhagat
961	REG/2015/1408	Farmer	Desi Mungfali-2	Groundnut	Nirmal Oraon
962	REG/2015/1409	Farmer	Desi Lal	Groundnut	Surendra Oraon
963	REG/2015/1412	Farmer	Desi-U	Black gram	Ramji Oraon
964	REG/2015/1414	Farmer	Urad Desi-5	Black gram	Temba Oraon
965	REG/2015/1438	Farmer	Desi-G	Garlic	Girmi Bhagat
966	REG/2015/1440	Farmer	Lahsun Desi-G3	Garlic	Champa Bhagat
967	REG/2015/1442 H	Extant (Notified)	Vivek Maize Hybrid 51	Maize	Indian Council of Agricultural Research
968	REG/2015/1442 P2	Extant (Notified)	V 409	Maize	Indian Council of Agricultural Research
969	REG/2015/1443 H	Extant (Notified)	Vivek Maize Hybrid 53	Maize	Indian Council of Agricultural Research
970	REG/2015/1452	Farmer	Pila Sarso Desi	Rapeseed (Torja)	Vinod Bhagat
971	REG/2015/1453	Farmer	Pila-M	Rapeseed (Torja)	Shivnath Oraon
972	REG/2015/1454	Farmer	Lotani-M	Rapeseed (Torja)	Dilwar Kherwar
973	REG/2015/1457	Farmer	Pila Sarso-1	Rapeseed (Torja)	Bishnu Oraon
974	REG/2015/1622	Farmer	BAIGON MACCHUA	Rice	Punjan Barman
975	REG/2015/1646	Farmer	JAL DHYAPA	Rice	Punjan Barman
976	REG/2015/1649	Farmer	JASHOYA	Rice	Punjan Barman
977	REG/2015/1650	Farmer	JONROI BUNA	Rice	Ashamanjon Barman
978	REG/2015/1687	Farmer	RADHATIALAK SELECTION-1	Rice	Punjan Barman
979	REG/2015/1713	Farmer	TARAI RESEACH SOCIETY-1	Rice	Punjan Barman
980	REG/2015/1716	Farmer	TARAI RESEACH SOCIETY-4	Rice	Punjan Barman
981	REG/2015/1751	Farmer	Dhan Sirhatti	Rice	Janardan Prasad
982	REG/2015/1753	Farmer	Kala Heera Dhan	Rice	Nagendra Kumar

983	REG/2015/1800	Farmer	KARTIK KHAS	Rice	Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)
984	REG/2015/1802	Farmer	AUSKHAS	Rice	Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)
985	REG/2015/1803	Farmer	SUGANDHA-II	Rice	Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)
986	REG/2015/1806	Farmer	BANGLAJOHA	Rice	Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)
987	REG/2015/1811	Farmer	Kere Bhata Makdho	Rice	Dr. Richariya Kisani Samwardhan Samiti
988	REG/2015/1829	Farmer	Kere Godavari	Rice	Dr. Richariya Kisani Samwardhan Samiti
989	REG/2015/1830	Farmer	Kere Shyam Jeera	Rice	Dr. Richariya Kisani Samwardhan Samiti
990	REG/2015/1834	Farmer	Kere Chatiya Nakhi	Rice	Dr. Richariya Kisani Samwardhan Samiti
991	REG/2015/1837	Farmer	Kere Motiya	Rice	Dr. Richariya Kisani Samwardhan Samiti
992	REG/2015/1839	Farmer	Kere Haradi Chudi	Rice	Dr. Richariya Kisani Samwardhan Samiti
993	REG/2015/1841	Farmer	Kere Kalechi	Rice	Dr. Richariya Kisani Samwardhan Samiti
994	REG/2015/1842	Farmer	Kere Kajari	Rice	Dr. Richariya Kisani Samwardhan Samiti
995	REG/2015/1845	Farmer	Kere Safari	Rice	Dr. Richariya Kisani Samwardhan Samiti
996	REG/2015/1849	Farmer	Kere Luchayi	Rice	Dr. Richariya Kisani Samwardhan Samiti
997	REG/2015/1854	Farmer	Kere Jela	Rice	Dr. Richariya Kisani Samwardhan Samiti
998	REG/2015/1855	Farmer	Kere Kari Aalcha	Rice	Dr. Richariya Kisani Samwardhan Samiti
999	REG/2015/1858	Farmer	Kere Jhilli	Rice	Dr. Richariya Kisani Samwardhan Samiti
1000	REG/2015/1859	Farmer	Kere Lanke Shree	Rice	Dr. Richariya Kisani Samwardhan Samiti
1001	REG/2015/1863	Farmer	Kere Moha	Rice	Dr. Richariya Kisani Samwardhan Samiti
1002	REG/2015/1865	Farmer	Kere Noni	Rice	Dr. Richariya Kisani Samwardhan Samiti
1003	REG/2015/1869	New	RC505	Tetraploid Cotton	Rasi Seeds Pvt Ltd
1004	REG/2015/2077	New	P3355	Maize	Pioneer Overseas Corporation
1005	REG/2015/2092	New	P1866	Maize	Pioneer Overseas Corporation
1006	REG/2016/256	Farmer	BEDARA	Sorghum	Ram Milon Singh
1007	REG/2016/299	Farmer	Gora	Rice	Lalit Kujur
1008	REG/2016/304	New	BIO 545I0	Tetraploid Cotton	DCM Shriram Limited

1009	REG/2016/309	Farmer	Boot-B	Chickpea	Jokhna Oraon
1010	REG/2016/317	Farmer	Khangari	Rice	Baneshwar Munda
1011	REG/2016/321	Extant (VCK)	TTRI (Tocklai Tea Research Institute) 2	Tea	Tocklai Tea Research Institute
1012	REG/2016/322	Extant (VCK)	TTRI (Tocklai Tea Research Institute) 1	Tea	Tocklai Tea Research Institute
1013	REG/2016/323	Farmer	Lokni	Indian mustard (Karan Rai)	Rina Oraon
1014	REG/2016/324	Farmer	Karaini	Rice	Sita Devi
1015	REG/2016/326	Farmer	Bilati-TL	Tomato	Etwa Oraon
1016	REG/2016/331	Farmer	Dhushri-PD	Rice	Manubel Kujur
1017	REG/2016/346	Farmer	Kethigora	Rice	Kisun Oraon
1018	REG/2016/347	Farmer	Baligora	Rice	Baldev Mahto
1019	REG/2016/349	Farmer	Bilauti	Tomato	Baldev Mahto
1020	REG/2016/350	Farmer	Bilasar	Rice	Baldev Mahto
1021	REG/2016/356	Farmer	Bhavani	Rice	Sanicharan Munda
1022	REG/2016/359	Farmer	Bhata	Brinjal	Mangal Mahto
1023	REG/2016/366	Farmer	MangalBhura	Indian mustard (Karan Rai)	Mangal Oraon
1024	REG/2016/371	Farmer	Bilati-T	Tomato	Mangal Mahto
1025	REG/2016/373	Farmer	Ketki-P	Rice	Sangita Oraon
1026	REG/2016/375	New	AMBIKA	Mango	Indian Council of Agricultural Research
1027	REG/2016/376	Farmer	Dudha Sair-L	Rice	Ayub Ansari
1028	REG/2016/378	Farmer	Sugandhit-L	Rice	Sumant Kumar Bhagat
1029	REG/2016/379	Farmer	Mota-L	Rice	Baldev Mahto
1030	REG/2016/382	Farmer	Aadi-LO	Ginger	Dhaneshwar Mahto
1031	REG/2016/391	Farmer	Sheru	Indian mustard (Karan Rai)	Sheru Oraon
1032	REG/2016/392	Farmer	Chaitisi	Linseed	Mangal Mahto
1033	REG/2016/393	Farmer	Kanta Bhata	Brinjal	Mangal Mahto
1034	REG/2016/394	Farmer	Malanga	Rice	Praveen Roushan Lakra
1035	REG/2016/397	Farmer	Nadi Tikur	Rice	Sumant Kumar Bhagat
1036	REG/2016/402	Farmer	Bhanjani-PD	Rice	Balmuni Kumari, Vimla Oraon, Sonba Oraon
1037	REG/2016/403	Farmer	Bilati Goal	Tomato	Sayub Ansari
1038	REG/2016/414	Farmer	Punbari	Maize	Punwa Devi
1039	REG/2016/425	Farmer	Dumri	Maize	Nakuldev Paswan
1040	REG/2016/438	New	C 5722	Tetraploid Cotton	Mahyco Private Limited
1041	REG/2016/440	Farmer	Patri Pila	Rapeseed (Torja)	Patrisiya Toppo
1042	REG/2016/444	Farmer	Safedi	Maize	Shatrudhan Prajapati
1043	REG/2016/490	Farmer	Potmi-Ch	Chickpea	Mudrika Prasad Yadav
1044	REG/2016/493	Farmer	Palak	Wheat	Santosh Yadav
1045	REG/2016/494	Farmer	Sherayi	Wheat	Ram Kumar Das
1046	REG/2016/495	Farmer	Krishna	Barley	Punam Devi
1047	REG/2016/512	Farmer	Margari	Castor	Rajeshwar Yadav

1048	REG/2016/564	Farmer	WAMSHU	Rice	Wangkang Farmers Club
1049	REG/2016/565	Farmer	TAHNYU	Rice	Village Climate Resilient Management Committee (VCRMC)
1050	REG/2016/566	Farmer	YAMNYAK	Rice	Hills Farmers Club
1051	REG/2016/567	Farmer	PHUHAH-TAH	Rice	Ngangching Village Council
1052	REG/2016/630	Farmer	Bhojna-WS	Rice	Bhubna Gope
1053	REG/2016/631	Farmer	Dhusri-WS2	Rice	Chotram Biruba
1054	REG/2016/632	Farmer	Korya	Rice	Narayan Pingua
1055	REG/2016/635	Farmer	Karmacha (Bhojna)	Rice	Dubraj Chattar
1056	REG/2016/638	Farmer	Ganjai Jata Baba	Rice	Rimil Tiriya
1057	REG/2016/639	Farmer	Chigri Baba	Rice	Chotram Biruba
1058	REG/2016/642	Farmer	Naardi	Rice	Jivesh Kumar Biruba
1059	REG/2016/643	Farmer	Vikram Baba	Rice	Ramchandra Pingua
1060	REG/2016/652	Farmer	Satbui	Rice	Anjani Sinku
1061	REG/2016/654	Farmer	Lalat	Rice	Lambora Pingua
1062	REG/2016/655	Farmer	Simri Konta	Rice	Sita Sinku
1063	REG/2016/656	Farmer	Safed Sorno	Rice	Sumitra Sinku
1064	REG/2016/660	Farmer	Vikram-P	Rice	Pitambar Pingua
1065	REG/2016/670	Farmer	Jarlali	Rice	Sarita Sinku
1066	REG/2016/671	Farmer	Desi Sorno-P	Rice	Rameshchandra Sinku
1067	REG/2016/674	Farmer	Kensari	Linseed	Vishwanath Sinku
1068	REG/2016/677	Farmer	Chiriguri Halka	Rice	Prsan Kumar Nayak
1069	REG/2016/697	Farmer	SKF-A1-shivana	Pigeon Pea	N.S. Sipani
1070	REG/2016/707	New	BIO 5124I2	Tetraploid Cotton	DCM Shriram Limited
1071	REG/2016/708	New	BIO 1678ID2I2	Tetraploid Cotton	DCM Shriram Limited
1072	REG/2016/710	Farmer	RAJ JHINGA	Rice	Monaj Kumar Mukherjee
1073	REG/2016/718	Farmer	CULTURE	Rice	Durga Mata Farmers Club
1074	REG/2016/720	Farmer	DAHAR NAGRA HOOGHLY	Rice	Hooghly Vegetable Growers Producers Co. Ltd.
1075	REG/2016/721	Farmer	BASANTA LAXMI	Rice	Inchura Agro Producer Limited
1076	REG/2016/722	Farmer	KANPUR SUNYA DAHAR	Rice	Kanpur S.K.U.S. Ltd.
1077	REG/2016/724	Farmer	KARTIK JHINGA	Rice	Inchura Agro Producer Limited
1078	REG/2016/729	Extant (VCK)	PH2V73	Maize	Pioneer Overseas Corporation
1079	REG/2016/732	Farmer	LAL GANDHARI	Rice	Ramdhani Manjhi
1080	REG/2016/733	Farmer	ASHA GORA	Rice	Vijay Besra
1081	REG/2016/737	Farmer	KARHAANI-PP	Rice	Govind Gop
1082	REG/2016/738	Farmer	RATGULI	Rice	Holas Soren
1083	REG/2016/739	Farmer	NARDHA	Rice	Dayali Prasad
1084	REG/2016/741	Farmer	KEREDANI	Rice	Mahendra Sah
1085	REG/2016/742	Farmer	KANDA	Rice	Mahendra Sah
1086	REG/2016/747	Farmer	GHORA	Rice	Salik Manjhi
1087	REG/2016/751	Farmer	AKA	Rice	Vijay Besra
1088	REG/2016/753	Farmer	KAITHKI	Rice	Sheetal Kisku
1089	REG/2016/755	Farmer	ASKALMA-PD2	Rice	Jay Prakash Singh

1090	REG/2016/861	Farmer	TILARA	Sesame	Harinandan Mahto
1091	REG/2016/873	Farmer	TEJAN	Indian Mustard (Sarso)	Tej Narayan Ram
1092	REG/2016/874	Farmer	NAREN	Rapeseed (Torla)	Tej Narayan Ram
1093	REG/2016/875	Farmer	LOTNI GOL	Indian Mustard (Sarso)	Vasudev Soren
1094	REG/2016/876	Farmer	KALI	Indian Mustard (Sarso)	Fulwa Devi
1095	REG/2016/895	Farmer	TARI	Rapeseed (Torla)	Raghunandan Mahto
1096	REG/2016/897	Farmer	PILA-R	Rapeseed (Gobhi Sarson)	Govind Gop
1097	REG/2016/898	Farmer	SAANRI	Rapeseed (Torla)	Dinesh Kumar Dhangl
1098	REG/2016/899	Farmer	DANGI	Indian Mustard (Sarso)	Dinesh Kumar Dhangl
1099	REG/2016/901	Farmer	ARAAK	Indian Mustard (Sarso)	Sandeep Kumar
1100	REG/2016/902	Farmer	BOORI	Indian Mustard (Sarso)	Mahesh Manjhi
1101	REG/2016/914	Extant (VCK)	7SH382	Maize	Corteva Crop India Private Limited
1102	REG/2016/924	Farmer	MUNDI	Wheat	Devanti Devi
1103	REG/2016/925	Farmer	KHARIA	Wheat	Munni Devi
1104	REG/2016/926	Farmer	BARKA	Wheat	Sakunti Devi
1105	REG/2016/927	Farmer	BADAM	Wheat	Nagia Devi
1106	REG/2016/928	Farmer	GUHUM	Wheat	Parwati Tudu
1107	REG/2016/977	Farmer	Banksole	Rice	Ajit Murmu
1108	REG/2016/1000	Farmer	Bakalsa	Brinjal	Amal Laru
1109	REG/2016/1003	Farmer	Barun-PD	Rice	Barun Samanta
1110	REG/2016/1015	Extant (VCK)	M162F	Pearl Millet	Pioneer Overseas Corporation
1111	REG/2016/1018	Farmer	Babli	Rice	Bablu Das
1112	REG/2016/1031	Farmer	Balai	Rice	Balai Chand Bora
1113	REG/2016/1032	Farmer	Ranjan	Rice	Nisith Ranjan Bora
1114	REG/2016/1035	Farmer	Mandal-P	Rice	Chittaranjan Mandal
1115	REG/2016/1036	Farmer	Panja-P	Rice	Ajit Kumar Panja
1116	REG/2016/1092	Farmer	CHURGUN	Grapes	Sonam Tsong
1117	REG/2016/1094	Farmer	RUKUCHAN	Grapes	Palzes Angmo
1118	REG/2016/1121	Extant (VCK)	RC380	Tetraploid Cotton	Rasi Seeds Pvt Ltd
1119	REG/2016/1122	Farmer	SHAMBYAR	Peach	Ali Baig
1120	REG/2016/1124	Farmer	SNUNPO TAKUSHU	Peach	Mohd Ibrahim
1121	REG/2016/1125	Farmer	KARPOTA	Peach	Zahoor Ahmad
1122	REG/2016/1136	Farmer	Kraini-BL	Rice	Bigal Munda
1123	REG/2016/1144	Farmer	Dahia-BL	Rice	Bigal Munda
1124	REG/2016/1145	Farmer	Bhanjani-BL	Rice	Bigal Munda
1125	REG/2016/1147	Farmer	Laxman Karaini	Rice	Laxman Oraon
1126	REG/2016/1164	Farmer	Basudev Madhmalair	Rice	Basudev Oraon

1127	REG/2016/1182	Farmer	Arjun Bilati	Tomato	Arjun Oraon
1128	REG/2016/1190	Farmer	Kaldev Lal Ganga	Rice	Kaldev Oraon
1129	REG/2016/1297	Farmer	Sita garma	Rice	Sitaram Oraon
1130	REG/2016/1298	Farmer	Sita gangasair	Rice	Sitaram Oraon
1131	REG/2016/1299	Farmer	Sita dhanian phool	Rice	Sitaram Oraon
1132	REG/2016/1300	Farmer	Sita Ranikajar	Rice	Sitaram Oraon
1133	REG/2016/1301	Farmer	Sita Karaini	Rice	Sitaram Oraon
1134	REG/2016/1302	Farmer	Sita Balagora	Rice	Sitaram Oraon
1135	REG/2016/1309	Farmer	Malagar	Sorghum	Budhuva Baiga
1136	REG/2016/1354	Farmer	Siki Haldi	Turmeric	Rakesh Bediya
1137	REG/2016/1380	Farmer	Pirpoti	Tomato	Bansi Lal Sodhi
1138	REG/2016/1382	Farmer	SKT Ratna	Brinjal	Shiv Kumar Chandravansi
1139	REG/2016/1383	Farmer	SKT Tulsi	Brinjal	Shiv Kumar Chandravansi
1140	REG/2016/1384	Farmer	SKT Prakash	Brinjal	Shiv Kumar Chandravansi
1141	REG/2016/1396	Farmer	SKT Lakhan	Brinjal	Shiv Kumar Chandravansi
1142	REG/2016/1397	Farmer	SKT Lata	Brinjal	Shiv Kumar Chandravansi
1143	REG/2016/1399	Farmer	SKT Sushma	Brinjal	Shiv Kumar Chandravansi
1144	REG/2016/1405	Farmer	SKT Shashi	Brinjal	Shiv Kumar Chandravansi
1145	REG/2016/1416	Farmer	SKT Disam	Brinjal	Shiv Kumar Chandravansi
1146	REG/2016/1419	Farmer	SKT Bindu	Brinjal	Shiv Kumar Chandravansi
1147	REG/2016/1426	Farmer	SKT Lal	Maize	Shiv Kumar Chandravansi
1148	REG/2016/1429	Farmer	SKT Alakh Nanda	Brinjal	Shiv Kumar Chandravansi
1149	REG/2016/1444	Farmer	Barsati Bael	Bael	Jai Durga Krishak Club
1150	REG/2016/1446	Farmer	Amar Bael	Bael	Jai Durga Krishak Club
1151	REG/2016/1448	Farmer	Swati Bael	Bael	Jai Durga Krishak Club
1152	REG/2016/1572	Farmer	SADHANIYA-102	Coriander	Kapildev Singh
1153	REG/2016/1574	Farmer	BERI	Indian Mustard (Sarso)	Satyanarayan Singh
1154	REG/2016/1584	Farmer	Pal Dhaniya	Coriander	Udesi Pal
1155	REG/2016/1743	Extant (VCK)	M444R	Pearl Millet	Pioneer Overseas Corporation
1156	REG/2016/1748	New	NRCP H-14	Pomegranate	Indian Council of Agricultural Research
1157	REG/2016/1749	New	NRCP H-4	Pomegranate	Indian Council of Agricultural Research
1158	REG/2016/2095	Farmer	Taroi Desi	Ridge gourd	Santosh Sharma
1159	REG/2016/2176	Farmer	Murmu Jhanti Sal	Rice	Surai Murmu
1160	REG/2016/2180	Farmer	Tudu Satiya gora	Rice	Ramdas Tudu
1161	REG/2016/2181	Farmer	Kunu-PE	Rice	Kunu Murmu
1162	REG/2016/2182	Farmer	Barha-2	Rice	Barha Murmu
1163	REG/2016/2184	Farmer	Mardi Majhari	Rice	Ganesh Mardi
1164	REG/2016/2188	Farmer	Mardi Kankri	Rice	Ganesh Mardi
1165	REG/2016/2189	Farmer	Tudu Bera	Rice	Masang Tudu
1166	REG/2016/2193	Farmer	Mardi Aghani (Arhar)	Pigeon Pea	Soben Mardi
1167	REG/2016/2197	Farmer	Murmu Aghani Arhar	Pigeon Pea	Pradhan Murmu
1168	REG/2016/2199	Farmer	Hansada Malti	Rice	Sunaram Hansada
1169	REG/2016/2200	Farmer	Murmu Chaitali	Pigeon Pea	Logen Murmu
1170	REG/2016/2216	Farmer	Soren Aghani (Arhar)	Pigeon Pea	Raju Soren

1171	REG/2016/2224	Farmer	Murmu Aghani (Arhar)-PS2	Pigeon Pea	Daso Murmu
1172	REG/2016/2225	Farmer	Tudu Chaitali	Pigeon Pea	Ladu Tudu
1173	REG/2016/2250	Farmer	Mardi	Pigeon Pea	Moti Lal Mardi
1174	REG/2016/2254	Farmer	Khandwal Guchha	Pigeon Pea	Ajit Khandwal
1175	REG/2016/2256	Farmer	Soren Maghi	Pigeon Pea	Kunwar Soren
1176	REG/2016/2273	Farmer	Sitaram Adrak	Ginger	Sitaram Oraon
1177	REG/2016/2300	Farmer	Laxmannari	Rapeseed (Torja)	Laxman Oraon
1178	REG/2016/2310	Farmer	Jeet Badam	Groundnut	Jeet Oraon
1179	REG/2016/2311	Farmer	Janwalijeet	Rapeseed (Torja)	Jeet Oraon
1180	REG/2016/2320	Farmer	Sita gangu rai	Indian mustard (Karan Rai)	Sitaram Oraon
1181	REG/2016/2330	Farmer	Budhman Kohra	Pumpkin	Budhman Oraon
1182	REG/2016/2363	Farmer	Krishna Bilati	Tomato	Krishna Bhagat
1183	REG/2016/2406	Farmer	Jagay Mani-1	Indian mustard (Sarso)	Jagay Tuti
1184	REG/2016/2430	Farmer	Poonam-1	Indian mustard (Sarso)	Seema Devi
1185	REG/2016/2443	Farmer	Pomi	Indian mustard (Sarso)	Bheem Nayak
1186	REG/2017/53	Farmer	GanguSita	Indian Mustard (Sarso)	Sitaram Oraon
1187	REG/2017/55	Farmer	Sita Baigan Hara	Brinjal	Sitaram Oraon
1188	REG/2017/109 H	Extant (Notified)	KPH-467	Rice	Kaveri Seed Company Ltd
1189	REG/2013/373 A	Extant (Notified)	KCMS-1090A	Rice	Kaveri Seed Company Ltd
1190	REG/2013/373 B	Extant (Notified)	KCMS-1090B	Rice	Kaveri Seed Company Ltd
1191	REG/2017/109 R	Extant (Notified)	KPGOS-1245	Rice	Kaveri Seed Company Ltd
1192	REG/2017/155	Farmer	Sunia	Rice	Sarveshwar Mahto
1193	REG/2017/167	Farmer	Uresa Lalman	Rice	Lal Man
1194	REG/2017/171	Farmer	Navari Santlal	Rice	Santlal Kulaste
1195	REG/2017/174	Farmer	Kakera Baliram	Rice	Baliram
1196	REG/2017/176	Farmer	Pusa Khurri	Rice	Pusa Singh
1197	REG/2017/177	Farmer	Jahri Subhash	Rice	Subhash Singh
1198	REG/2017/178	Farmer	Kothi Subhash	Rice	Subhash Singh
1199	REG/2017/179	Farmer	Garud Luchai Subhash	Rice	Subhash Singh
1200	REG/2017/180	Farmer	Urai Boota Baishakhoo	Rice	Baishakhoo
1201	REG/2017/181	Farmer	Galgaliya Dev	Rice	Dev Singh
1202	REG/2017/182	Farmer	Jhurai Bharat	Rice	Bharat Singh
1203	REG/2017/184	Farmer	Lohandi Shankar	Rice	Shankar Singh
1204	REG/2017/185	Farmer	Harau Luchai Garjan	Rice	Garjan Singh
1205	REG/2017/187	Farmer	Rameshwar Gariba	Rice	Gariba Prasad
1206	REG/2017/188	Farmer	Vishnu Bhog Suresh	Rice	Suresh Kartike

1207	REG/2017/189	Farmer	Chinddi Kapoor Ingalal	Rice	Ingalal Nayak
1208	REG/2017/190	Farmer	Jamun Surki Kamleshwari	Rice	Kamleshwari
1209	REG/2017/191	Farmer	Jamun Surki Ramakant	Rice	Ramakant Kartike
1210	REG/2017/192	Farmer	Culture Ganesh	Rice	Ganesh Prasad Urke
1211	REG/2017/193	Farmer	Tulsi Amrit Gopal	Rice	Gopal Singh Maravi
1212	REG/2017/194	Farmer	Krishan Bhog Kripal	Rice	Kripal Singh Maravi
1213	REG/2017/195	Farmer	Assamkoti Kirti	Rice	Kirti Namdev
1214	REG/2017/196	Farmer	Jhular Shyam	Rice	Shyam Singh
1215	REG/2017/201	Farmer	Lakhoa Dhan Dhokal	Rice	Dhokal Singh
1216	REG/2017/202	Farmer	Lohandi Mahendra	Rice	Mahendra Singh
1217	REG/2017/204	Farmer	Lal Dhan Ram	Rice	Ram Kumar
1218	REG/2017/205	Farmer	Pathar Chatti Rakesh	Rice	Rakesh Kumar
1219	REG/2017/206	Farmer	Gurmatiya Suresh	Rice	Suresh Tekam
1220	REG/2017/211	Farmer	Navari Parvat	Rice	Parvat Singh
1221	REG/2017/213	Farmer	Sarbati Phool Seori	Wheat	Phool Singh
1222	REG/2017/222	Farmer	Rabuta Budh	Rice	Budh Singh
1223	REG/2017/223	Farmer	Chapti Gurmatiya Tatar	Rice	Mohit Ram
1224	REG/2017/224	Farmer	Sathiya Khurd	Rice	Lokendra Singh Yadav
1225	REG/2017/225	Farmer	Kshatriya Baliram	Rice	Baliram Chaudhary
1226	REG/2017/226	Farmer	Dhaur Baliram	Rice	Baliram Chaudhary
1227	REG/2017/228	Farmer	Bhataphool Devendra	Rice	Devendra Sukla
1228	REG/2017/229	Farmer	Karanphool Awadh	Rice	Awadhphool Tiwari
1229	REG/2017/234	Farmer	Faram Baldev	Rice	Baldev Paraste
1230	REG/2017/235	Farmer	Kariya Parvat	Rice	Parvat Ram Kunjam
1231	REG/2017/236	Farmer	Karonda Bhudh	Rice	Bhudh Bai
1232	REG/2017/237	Farmer	Ranikajal Saleem	Rice	Saleem Khan
1233	REG/2017/240	Farmer	Karanphool Bhan	Rice	Bhanmati Bai
1234	REG/2017/241	Farmer	Thhari Bhhari Jag	Rice	Jagbahadur Singh
1235	REG/2017/242	Farmer	Bharri Dhan Pooran	Rice	Pooran Singh
1236	REG/2017/244	Farmer	Akloni Devi	Rice	Devi Singh Markam
1237	REG/2017/247	Farmer	Kariya Dhan Jhiriya	Rice	Jagendra Singh Paraste
1238	REG/2017/250	Farmer	Karhani Karkeli	Rice	Jag Bahadur Singh
1239	REG/2017/253	Farmer	Kushiyari Katoli	Rice	Bhagat Singh Baghel
1240	REG/2017/254	Farmer	Basmati Purani Bhagat	Rice	Bhagat Singh Baghel
1241	REG/2017/255	Farmer	Lawangchor Katoli	Rice	Pankaj Singh
1242	REG/2017/256	Farmer	Banko Katoli	Rice	Upendra
1243	REG/2017/257	Farmer	Tin Pakhia Mundau	Rice	Mundau Singh Chauhan
1244	REG/2017/258	Farmer	Butnagar Ram	Rice	Ram Lakhan
1245	REG/2017/259	Farmer	Methichoor Sarethi	Rice	Ritu Singh
1246	REG/2017/260	Farmer	Sheri Karhi	Rice	Nepal Singh
1247	REG/2017/261	Farmer	Bagri Sarethi	Rice	Shyam Sundar Baiga
1248	REG/2017/262	Farmer	Bhataphool Karwahi	Rice	Kamla Kant Mishr
1249	REG/2017/263	Farmer	Jeeraphool Karwahi	Rice	Kamla Kant Mishr

1250	REG/2017/264	Farmer	Nadawal Govind	Rice	Govind Prasad Gautam
1251	REG/2017/265	Farmer	Hans Kanak Karwahi	Rice	Urmila Prasad Diwan
1252	REG/2017/267	Farmer	Lal Laichi Rosar	Rice	Bacchraj Singh
1253	REG/2017/268	Farmer	Karan Phool Ramnandan	Rice	Ram Nandan
1254	REG/2017/269	Farmer	Dihula Dashmat	Rice	Dashmat Singh
1255	REG/2017/271	Farmer	Sinduri Mado	Rice	Chakrapani Singh
1256	REG/2017/272	Farmer	Dihula Safed Mahesh	Rice	Mahesh Saket
1257	REG/2017/273	Farmer	Dihula Kala Mujra	Rice	Shyamsundar Pal
1258	REG/2017/274	Farmer	Sonkharchi Mojra	Rice	Ramsaroj
1259	REG/2017/277	Farmer	Lohandi Rambhajan	Rice	Ram Bhajan Singh
1260	REG/2017/278	Farmer	Koilari Papra	Rice	Ram Swaroop
1261	REG/2017/279	Farmer	Biranjiphool Janki	Rice	Janki Prasad
1262	REG/2017/280	Farmer	Lohandi Lalitpur	Rice	Dasai Kewat
1263	REG/2017/281	Farmer	Geeta Shivram	Rice	Shivram Mishra
1264	REG/2017/282	Farmer	Biranjphool Shivram	Rice	Shivram Mishra
1265	REG/2017/285	Farmer	Koilari Ramnandan	Rice	Ram Nandan
1266	REG/2017/289	Farmer	Pasai Dhan Shivkumar	Rice	Shivkumar Adiwasi
1267	REG/2017/294	Farmer	Lal Dhan Ratan	Rice	Ratan Pal
1268	REG/2017/296	Farmer	Dhaur Gaya Prasad	Rice	Gaya Prasad Choudhary
1269	REG/2017/304	Farmer	Dhammu Dhan	Rice	Dhammu Patel
1270	REG/2017/312	Farmer	Sikia Vishwanath	Rice	Vishwanath Yadav
1271	REG/2017/313	Farmer	Sikia Kallu	Rice	Kallu
1272	REG/2017/314	Farmer	Mulapara Dhan	Rice	Anand Kumar
1273	REG/2017/320	Farmer	Vikrampur Jwar	Barley	Vishram Singh
1274	REG/2017/322	Farmer	Sinhai Jwar	Barley	Kapoor Singh Yadav
1275	REG/2017/327	Farmer	Nimha Jwar	Barley	Niranjan Singh Yadav
1276	REG/2017/338	Farmer	Thooth Dhan Koushal	Rice	Koushal Singh
1277	REG/2017/347	Farmer	Tendhaniya Dhan Koushal	Rice	Koushal Singh
1278	REG/2017/348	Farmer	Sikiya Roopjhir	Rice	Gudda Khan
1279	REG/2017/349	Farmer	Thooth Kanhaiya	Rice	Kanhaiya Lal
1280	REG/2017/351	Farmer	Dhaur Dhan Koushal	Rice	Koushal Singh
1281	REG/2017/352	Farmer	Sikiya Bablu	Rice	Bablu Khan
1282	REG/2017/354	Farmer	Kardhan Dhan Koushal	Rice	Koushal Singh
1283	REG/2017/357	Farmer	Janki Hemant	Rice	Hemant Singh
1284	REG/2017/358	Farmer	Chapti Matwari	Rice	Matwari Singh
1285	REG/2017/359	Farmer	Chhindphool Umesh	Rice	Umesh Kumar
1286	REG/2017/360	Farmer	Shera 2	Rice	Ram Kumar
1287	REG/2017/361	Farmer	Janki Sanku	Rice	Sanku Singh
1288	REG/2017/362	Farmer	Ratua Dhaniram	Rice	Dhani Ram
1289	REG/2017/363	Farmer	Khuddi Amardas	Rice	Amardas
1290	REG/2017/372	Farmer	Soybean Saraitola	Soybean	Seeta Bai
1291	REG/2017/378	Farmer	Bhadehi Jwar Premlal	Sorghum	Premlal Uikey

1292	REG/2017/382	Farmer	Shrijot Raghuveer	Rice	Raghuveer Barkade
1293	REG/2017/384	Farmer	Sellow Dhan Shailkumar	Rice	Shailkumar Uikey
1294	REG/2017/388	Farmer	Aamagaur Ram	Rice	Ram Sahu
1295	REG/2017/391	Farmer	Kardhna Sargapur	Rice	Premlal Uikey
1296	REG/2017/392	Farmer	Ponga Sargapur	Rice	Ganesh Kumar Uikey
1297	REG/2017/394	Farmer	Suraj Ramlal	Rice	Ramlal
1298	REG/2017/399	Farmer	Pisso Sukhlal	Rice	Sukhlal
1299	REG/2017/400	Farmer	Mohanbhog Anita	Rice	Anita Parte
1300	REG/2017/402	Farmer	Kadambhog Ajay	Rice	Ajay Sahare
1301	REG/2017/403	Farmer	Kala Jeerashankar Ayodhya	Rice	Ayodhya Prasad Bhoyar
1302	REG/2017/404	Farmer	Safed Jeerashankar Yuvraj	Rice	Yuvraj Gautam
1303	REG/2017/408	Farmer	Jhumki Lambi	Ridge gourd	Devendra Bhoyar
1304	REG/2017/409	Farmer	Goal Jhumki	Ridge gourd	Ayodhya Prasad Bhoyar
1305	REG/2017/415	Farmer	Bhedri Tamatar	Tomato	Sarita Uikey
1306	REG/2017/426	Farmer	Kali Kammo Ajay	Rice	Ajay Sahare
1307	REG/2017/427	Farmer	Rajbhog Ajay	Rice	Ajay Sahare
1308	REG/2017/428	Farmer	Mahuan Shyam	Rice	Shyam Kishor Singh
1309	REG/2017/429	Farmer	Bhataphool Arvind	Rice	Arvind Singh
1310	REG/2017/430	Farmer	Soniya Ramnarayan	Rice	Ramnarayan Tiwari
1311	REG/2017/431	Farmer	Kanka Ramnarayan	Rice	Ramnarayan Tiwari
1312	REG/2017/432	Farmer	Bhejri Ramnarayan	Rice	Ramnarayan Tiwari
1313	REG/2017/434	Farmer	Jeera Phool Samaylal	Rice	Samay Lal Singh
1314	REG/2017/435	Farmer	Rekera Jai	Rice	Jai Singh
1315	REG/2017/436	Farmer	Safri Veeran	Rice	Veeran Pav
1316	REG/2017/438	Farmer	Sukraphool Dashrath	Rice	Dasharath Sahu
1317	REG/2017/439	Farmer	Kalajeera Babadeen	Rice	Babadeen Mehra
1318	REG/2017/440	Farmer	Barhi Babadeen	Rice	Babadeen Mehra
1319	REG/2017/441	Farmer	Karhani Samay	Rice	Samay Lal Pav
1320	REG/2017/442	Farmer	Gurmatiya Heera	Rice	Heera Singh
1321	REG/2017/443	Farmer	Vanskupee	Rice	Samharu Singh
1322	REG/2017/444	Farmer	Kera Khamb	Rice	Indrapal Singh
1323	REG/2017/445	Farmer	Munni Lochai	Rice	Munni Singh
1324	REG/2017/490	Farmer	Usari Chana	Chickpea	Durga Prasad Yadav
1325	REG/2017/491	Farmer	Varpani Jwar	Sorghum	Ashlesh Yadav
1326	REG/2017/492	Farmer	Usari Jwar	Sorghum	Kanhaiya Lal Thakur
1327	REG/2017/498	Farmer	Mangla Ramji	Wheat	Ramji Yadav
1328	REG/2017/499	Farmer	Mangla 1	Wheat	Vimlesh Thakur
1329	REG/2017/500	Farmer	Mangla Ajay	Wheat	Ajay Thakur
1330	REG/2017/508	Farmer	Harprasad Dhan	Rice	Har Prasad Thakur
1331	REG/2017/509	Farmer	Ramnath Dhan	Rice	Ramnath Thakur
1332	REG/2017/510	Farmer	Atarlal Dhan	Rice	Atarlal Thakur
1333	REG/2017/511	Farmer	Sitaram Dhan	Rice	Sitaram Yadav
1334	REG/2017/512	Farmer	Batro Lal	Rice	Roop Singh Thakur

1335	REG/2017/513	Farmer	Kamlesh Dhan	Rice	Kamlesh Thakur
1336	REG/2017/514	Farmer	Shriram Varpani	Rice	Shriram Thakur
1337	REG/2017/515	Farmer	Lalta Dhan	Rice	Laltabai Thakur
1338	REG/2017/516	Farmer	Ramesh Dhan	Rice	Ramesh Thakur
1339	REG/2017/517	Farmer	Dhansingh Dhan	Rice	Dhan Singh Thakur
1340	REG/2017/518	Farmer	Govind Dhan	Rice	Govind Yadav
1341	REG/2017/519	Farmer	Badli Dhan	Rice	Somnath Thakur
1342	REG/2017/520	Farmer	Varpani Dhan	Rice	Ramesh Kumar Thakur
1343	REG/2017/521	Farmer	Nihal Dhan	Rice	Nihal Yadav
1344	REG/2017/523	Farmer	Ramchandra Dhan	Rice	Ramchandra Dhan
1345	REG/2017/524	Farmer	Kishori Dhan	Rice	Kishori Thakur
1346	REG/2017/525	Farmer	Shankar Ramker Dhan	Rice	Shankarlal Thakur
1347	REG/2017/526	Farmer	Dhan Annilal	Rice	Annilal Thakur
1348	REG/2017/527	Farmer	Lal Dhan Raghuvhar	Rice	Raghuvhar Singh Thakur
1349	REG/2017/528	Farmer	Dhan Varpani Santosh	Rice	Santosh Thakur
1350	REG/2017/529	Farmer	Dhan Pyaribai	Rice	Pyaribai Thakur
1351	REG/2017/530	Farmer	Dhan Dharm	Rice	Dharm Thakur
1352	REG/2017/537	Farmer	Dhan Jugal	Rice	Jugal Kishor
1353	REG/2017/540	Farmer	Niwari Kaushal	Rice	Koushal Singh
1354	REG/2017/543	Farmer	Niwari Prem	Rice	Prem Singh
1355	REG/2017/545	Farmer	Tamatar Nimha	Tomato	Munna Raikwar
1356	REG/2017/550	Farmer	Tamatar Shikarpur	Tomato	Arunpal Singh Buldel
1357	REG/2017/551	Farmer	Tamatar Rajendra	Tomato	Rajendra Singh
1358	REG/2017/556	Farmer	Jwar Prahlad	Sorghum	Prahlad Rajpoot
1359	REG/2017/558	Farmer	Dhan Moolchandra	Rice	Moolchandra Rajpoot
1360	REG/2017/561	Farmer	Kardhana Dharam	Rice	Dharam Marawi
1361	REG/2017/562	Farmer	Oraikant Khudari	Rice	Samna
1362	REG/2017/563	Farmer	Lal Dhan Kishan	Rice	Kishan Marawi
1363	REG/2017/576	Farmer	Ladai Pooch	Rice	Santosh Singh
1364	REG/2017/577	Farmer	Badali Dhan Nighari	Rice	Santosh Singh
1365	REG/2017/579	Farmer	Newari Kacchratola	Rice	Ranjeet Singh
1366	REG/2017/582	Farmer	Rakeda Chhota Umariya	Rice	Suresh Singh
1367	REG/2017/584	Farmer	Dhaur Pathari	Rice	Chhote Singh
1368	REG/2017/587	Farmer	Badi Pardeshi Ram	Rice	Ram Kinkar
1369	REG/2017/610	Farmer	Chani Naya	Chickpea	Teeka Singh
1370	REG/2017/615	Farmer	Jhalri Sunil	Sorghum	Sunil Kumar Tiwari
1371	REG/2017/616	Farmer	Bhejri Kachhra	Tomato	Daduram Koul
1372	REG/2017/621	Farmer	Sharbati Rajpal	Wheat	Rajpal Jat
1373	REG/2017/655	Farmer	Temru Jowar	Sorghum	Ramdayal Bhalavi
1374	REG/2017/672	Farmer	Genhoo Sarbati Pili	Wheat	Chhota
1375	REG/2017/712	Farmer	Gulabi Jalegaon	Chickpea	Gyaneshwar Marawi
1376	REG/2017/725	Farmer	Deeru Chana	Chickpea	Nasru
1377	REG/2017/732	Farmer	Suklal Gehu	Wheat	Suklal
1378	REG/2017/734	Farmer	Shivpal Chana	Chickpea	Shivpal Dhurve

1379	REG/2017/748	Farmer	Bharat Jowar	Sorghum	Bharat Yadav
1380	REG/2017/773	Farmer	Somnath Tendni Chhota Chana	Chickpea	Somnath Hariram Kumhare
1381	REG/2017/782	Farmer	Mohan Tendni Chana	Chickpea	Mohan Lal
1382	REG/2017/789	Farmer	Chota Chana Brajbhan	Chickpea	Brajbhan
1383	REG/2017/808	Farmer	Vati Chana	Chickpea	Saggansa Ivnati
1384	REG/2017/816	Farmer	Raj Chana	Chickpea	Mankali
1385	REG/2017/893	Farmer	Deshi Rajendra	Chickpea	Rajendra Kumar Yadav
1386	REG/2017/894	Farmer	Choti Gulabi	Chickpea	Vijay Kumar Yadav
1387	REG/2017/926	Farmer	Khajiya Dhana	Chickpea	Mohabbat Singh
1388	REG/2017/995	Farmer	Bichhua Chana	Chickpea	Sirpat Khapre
1389	REG/2017/997	Farmer	Bichhua Bajra	Pearl Millet	Sirpat Khapre
1390	REG/2017/998	Farmer	Jwar Bichhua Sampat	Sorghum	Sampat Khapre
1391	REG/2017/1000	Farmer	Chana Kanhaiya	Chickpea	Kanhaiya Lal Pawar
1392	REG/2017/1001	Farmer	Jwar Janpat	Sorghum	Ganpat Powar
1393	REG/2017/1005	Farmer	Torai Chandra	Ridge gourd	Sahab Chandra Marpe
1394	REG/2017/1007	Farmer	Jwar Chandra	Sorghum	Sahab Chandra Marpe
1395	REG/2017/1012	Farmer	Gehoon Sipatiya	Wheat	Sipatia Bai
1396	REG/2017/1035	Farmer	Angar Jwar	Sorghum	Rajkumar Angare
1397	REG/2017/1038	Farmer	Jwar Angiya	Sorghum	Dhuro Bai Bharti
1398	REG/2017/1041	Farmer	Jwar Bhatiya	Sorghum	Kare Lal Angare
1399	REG/2017/1063	Farmer	Chhoti Jwar Suthiya	Sorghum	Sunil Bharti
1400	REG/2017/1066	Farmer	Jwar Uikey	Sorghum	Guldas
1401	REG/2017/1068	Farmer	Jwar Uikey Maharsa	Sorghum	Maharsa Uikey
1402	REG/2017/1071	Farmer	Gehoon Pasi	Wheat	Phoolan Dhurve
1403	REG/2017/1072	Farmer	Gehoon Guljaar	Wheat	Ramesh Guljaar
1404	REG/2017/1073	Farmer	Jwar Gajar	Sorghum	Gajroo Dhurve
1405	REG/2017/1076	Farmer	Jwar Mehtap	Sorghum	Budhman
1406	REG/2017/1081	Farmer	Jwar Santlal	Sorghum	Sant Lal Irpachi
1407	REG/2017/1094	Farmer	Ram Jowar	Sorghum	Ajay Singh
1408	REG/2017/1130	Farmer	Surendra Jawa	Barley	Surendra Singh Yadav
1409	REG/2017/1131	Farmer	Majhagawa Safed Gehun	Wheat	Sriman Singh Yadav
1410	REG/2017/1132	Farmer	Jhumkul	Groundnut	Suresh Kushwaha
1411	REG/2017/1136	Farmer	Majhagawa Gehun	Wheat	Mukta Prasad
1412	REG/2017/1137	Farmer	Khajua	Chickpea	Brijesh Kushwaha
1413	REG/2017/1138	Farmer	Pratap Jawa	Barley	Beer Pratap Singh Dangi
1414	REG/2017/1150	Farmer	Kanti Gehun	Wheat	Nand Ram Kushwaha
1415	REG/2017/1152	Farmer	Hasgora Haldi	Turmeric	Suresh Kushwaha
1416	REG/2017/1157	Farmer	Junai Brij	Sorghum	Brij Kishore Latoria
1417	REG/2017/1161	Farmer	Kailash Junai	Sorghum	Kailash Prasad Kushwaha
1418	REG/2017/1163	Farmer	Rama Jawa	Barley	Rama Bai Raikwar
1419	REG/2017/1164	Farmer	Maharaj Gehun	Wheat	Bati Bai
1420	REG/2017/1171	Farmer	Sehwa	Wheat	Moti Lal Singh
1421	REG/2017/1172	Farmer	Peelia	Soybean	Moti Lal Singh

1422	REG/2017/1173	Farmer	Pancha Heera	Wheat	Hira Lal Singh
1423	REG/2017/1174	Farmer	Patel-10	Wheat	Indrajit Singh
1424	REG/2017/1175	Farmer	Hema	Wheat	Abhay Raj Singh
1425	REG/2017/1176	Farmer	Sehra	Wheat	Mahendra Singh
1426	REG/2017/1178	Farmer	Britta Sujeet	Wheat	Sujeet Singh
1427	REG/2017/1179	Farmer	Chapatiya	Wheat	Ramsakha Singh
1428	REG/2017/1180	Farmer	Sehariya Shyam	Wheat	Shyam Lal Singh
1429	REG/2017/1181	Farmer	Betaiya	Wheat	Dadan Patel
1430	REG/2017/1187	Farmer	Pili Gehu Mahesh	Wheat	Ram Naresh Tripathi
1431	REG/2017/1188	Farmer	Safeshi Nagendra	Wheat	Nagendra Tripathi
1432	REG/2017/1190	Farmer	Khurhara Devra	Chickpea	Ram Naresh Mishra
1433	REG/2017/1198	Farmer	Churka Safedi Guru	Wheat	Guru Prasad Patel
1434	REG/2017/1199	Farmer	Chapta Hariya Guru	Soybean	Guru Prasad Patel
1435	REG/2017/1203	Farmer	Harkawa Ramsakha	Soybean	Ram Khelawan Patel
1436	REG/2017/1207	Farmer	Safeda Jokhu	Wheat	Rakesh Patel
1437	REG/2017/1210	Farmer	Chikna	Barley	Dharmendra Patel
1438	REG/2017/1211	Farmer	Haluka	Chickpea	Dwarika Prasad Kori
1439	REG/2017/1214	Farmer	Safeda	Chickpea	Ramayan Patel
1440	REG/2017/1216	Farmer	Sakkhu	Wheat	Ashok Patel
1441	REG/2017/1217	Farmer	Smariti	Wheat	Ashok Patel
1442	REG/2017/1220	Farmer	Khirchi	Soybean	Keshaw Prasad Patel
1443	REG/2017/1223	Farmer	Peela Sona	Soybean	Ashok Patel
1444	REG/2017/1224	Farmer	Karvi	Fenugreek	Ram Lal Patel
1445	REG/2017/1227	Farmer	Chatak	Wheat	Ram Lal Patel
1446	REG/2017/1228	Farmer	Sona	Soybean	Ram Lal Patel
1447	REG/2017/1269	Farmer	Dongar Bhati	Brinjal	Bhujbal Singh Gehlot
1448	REG/2017/1270	Farmer	Goal Hara Bhata	Brinjal	Bhujbal Singh Gehlot
1449	REG/2017/1271	Farmer	Lamba Hara Bhata	Brinjal	Jai Shankar Goutam
1450	REG/2017/1338	Farmer	Dhownasha Jowar	Sorghum	Dhobnasa Ivnati
1451	REG/2017/1340	Farmer	Shankar Jowar	Sorghum	Shankar
1452	REG/2017/1350	Farmer	Shanta Jowar	Sorghum	Shanta
1453	REG/2017/1355	Farmer	Leema Jowar	Sorghum	Leema Bai
1454	REG/2017/1430	Farmer	MUGUDI	Rice	Benudhar Jena
1455	REG/2017/1431	Farmer	CHAMPA	Rice	Benudhar Jena
1456	REG/2017/1615	Farmer	POIMIMA	Pumpkin	Hedungbe Michui
1457	REG/2017/1616	Farmer	MASANG	Pumpkin	Hedungbe Michui
1458	REG/2017/1649	Farmer	NUMARAN	Banana	Mr. R. Sasikumar
1459	REG/2017/1650	Farmer	KARUVAZAI (MANORANJITHAM)	Banana	Mr. M. Thirumalai
1460	REG/2017/1651	Farmer	GL0109	Walnut	Sewa Ram
1461	REG/2017/1675	Farmer	SANJEEVANI-PINK	Indian Gooseberry	Valunj Balasaheb Lahanu
1462	REG/2017/1700	Farmer	GEHUN LAL MUNDIYA (GKSS Gehun-1)	Wheat	Gramin Khadya Samprabhuta Samooaha
1463	REG/2017/1702	Farmer	GEHUN JHUNSIA (GKSS Gehun-3)	Wheat	Gramin Khadya Samprabhuta Samooaha

1464	REG/2017/1703	Farmer	JAU SURI LOCAL (6-rowed) (GKSS Jau-1)	Barley	Gramin Khadya Samprabhuta Samooaha
1465	REG/2017/1704	Farmer	JAU SURI LOCAL (4-rowed) (GKSS Jau-2)	Barley	Gramin Khadya Samprabhuta Samooaha
1466	REG/2017/1705	Farmer	JAU SURI LOCAL KALA (GKSS Jau-3)	Barley	Gramin Khadya Samprabhuta Samooaha
1467	REG/2017/1708	Farmer	BHAT SURI LOCAL KALA (Small seeded) (GKSS Bhat-1)	Soybean	Gramin Khadya Samprabhuta Samooaha
1468	REG/2017/1709	Farmer	BHAT SURI LOCAL KALA (Bold seeded) (GKSS Bhat-2)	Soybean	Gramin Khadya Samprabhuta Samooaha
1469	REG/2017/1713	Farmer	DAIN	Rapeseed (Torja)	Gramin Khadya Samprabhuta Samooaha
1470	REG/2017/1714	Farmer	METHUA	Fenugreek	Gramin Khadya Samprabhuta Samooaha
1471	REG/2017/1818	New	PH219J	Maize	Pioneer Overseas Corporation
1472	REG/2017/1823	Farmer	RITUR	Wheat	Ritu Devi
1473	REG/2017/1824	Farmer	BILASE	Wheat	Bilasi Devi
1474	REG/2017/1825	Farmer	SHODA	Wheat	Yashoda Devi
1475	REG/2017/1826	Farmer	SURAJMANI	Wheat	Surajmuni Devi
1476	REG/2017/1841	Farmer	RAJAS	Pigeon pea	Rajaram Pahariya
1477	REG/2017/1842	Farmer	MAGA RAHAR	Pigeon pea	Maga Pahariya
1478	REG/2017/1843	Farmer	SUNIL RAHAR	Pigeon pea	Sunil Kumar Jha
1479	REG/2017/1845	Farmer	KAPIL RAHAR	Pigeon pea	Kapil Paharia
1480	REG/2017/1846	Farmer	CHAMARA RAHAR	Pigeon pea	Chamara Pahariya
1481	REG/2017/1847	Farmer	ASIYA RAHAR	Pigeon pea	Asiya Devi
1482	REG/2017/1848	Farmer	PABIYA RAHAR	Pigeon pea	Pabiya Devi
1483	REG/2017/1849	Farmer	MANJU RAHAR	Pigeon pea	Manju Hansda
1484	REG/2017/1854	Farmer	NIRANJAN RAI-M	Indian mustard (Sarso)	Niranjan Jha
1485	REG/2017/1855	Farmer	JOME RAI-M	Indian mustard (Sarso)	Jome Pahariya
1486	REG/2017/1856	Farmer	ULOHANA	Wheat	Sulochana Devi
1487	REG/2017/1873	Farmer	SHIV DANIA	Coriander	Pulkit Singh
1488	REG/2017/1926	Farmer	Kantoli Dhan (China-4)	Rice	Kesar Singh Bharda
1489	REG/2017/2012	Farmer	YKB-PM	Pearl Millet	Yogesh Kumar
1490	REG/2017/2023	Farmer	AH-PM	Pearl Millet	Abdul Hadi Khan
1491	REG/2017/2128	Farmer	Dhaniya Satish	Coriander	Satish Kumar
1492	REG/2017/2129	Farmer	Ramaipur Dhaniya	Coriander	Shailesh Kumar
1493	REG/2017/2132	Farmer	Ramtol Deshi Dhaniya	Coriander	Ramtol Patel
1494	REG/2017/2181	Farmer	Devnath Bajra	Pearl Millet	Devnath
1495	REG/2017/2218	Farmer	Maghe	Barley	Naval Kishore Singh
1496	REG/2017/2227	Farmer	Bhagvat Dhan-2	Coriander	Prabhu Bhagat
1497	REG/2017/2259	Farmer	Sundri Chano	Chickpea	Sunaina Bai Patel
1498	REG/2017/2260	Farmer	Kala Chawal	Rice	Bela Sahu
1499	REG/2017/2262	Farmer	Kamal Green Rice	Rice	Bela Sahu

1500	REG/2017/2270	Farmer	Huikhadan Deshi Kapuri Pan	Betelvine	Banthu Ram Mahobiya
1501	REG/2017/2404	Farmer	SARVAT-1	Rice	Dayanand Babaji Chougule
1502	REG/2017/2405	Farmer	MUNDGA	Rice	Dayanand Babaji Chougule
1503	REG/2018/64	Farmer	Lutni-Loh	Rapeseed (Toria)	Nimmy Baxla
1504	REG/2018/79	Farmer	KOCHUKUDY	Nutmeg	Jose Mathew
1505	REG/2018/80	Farmer	PULLAN	Nutmeg	Jose P.V.
1506	REG/2018/81	Farmer	POOTHARA	Nutmeg	Joseph T.
1507	REG/2018/82	Farmer	MUNDATHANAM	Nutmeg	Michael Joseph
1508	REG/2018/106	Farmer	HASIRUJOLA	Sorghum	Namdev
1509	REG/2018/165 H	New	Jaani (V130005)	Okra/Lady's Finger	Advanta Enterprises Limited
1510	REG/2018/293	Farmer	Jagriti-1	Fenugreek	Uday Kumar
1511	REG/2018/326	Farmer	Chana Ramaipur (CCRA-207)	Chickpea	Chandrabhan Singh
1512	REG/2018/365	Farmer	WTRA-251	Wheat	Tej Pratap Patel
1513	REG/2018/376	Farmer	BSAB-262	Barley	Sushila Devi
1514	REG/2018/385	Farmer	WRBA-276	Wheat	Raj Bahadur Singh
1515	REG/2018/390	Farmer	WGBA-281	Wheat	Gyan Singh
1516	REG/2018/395	Farmer	BBPC-286	Barley	Bajrangbali Singh
1517	REG/2018/396	Farmer	BRDJ-287	Barley	Ram Chandra Patel
1518	REG/2018/401	Farmer	WRTJ-292	Wheat	Ramesh Chandra Kushwaha
1519	REG/2018/402	Farmer	WCTJ-293	Wheat	Chandra Shekhar Kushwaha
1520	REG/2018/428	Farmer	WBVRA-320	Wheat	Banwari Lal Verma
1521	REG/2018/462	Farmer	PVRA-359	Pigeon pea	Varun Kumar Patel
1522	REG/2018/581	Farmer	Tanru-M	Indian mustard (Sarso)	Bandhna Oraon
1523	REG/2018/582	Farmer	Tanri Lotni	Rapeseed (Toria)	Bandhna Oraon
1524	REG/2018/589 H	Extant (Notified)	KPH-459	Rice	Kaveri Seed Company Ltd
1525	REG/2018/589 R	Extant (Notified)	KRMB-395-12-2-1-1-1	Rice	Kaveri Seed Company Ltd
1526	REG/2018/590 H	Extant (Notified)	KPH-473	Rice	Kaveri Seed Company Ltd
1527	REG/2018/590 A	Extant (Notified)	KCMS-1020A	Rice	Kaveri Seed Company Ltd
1528	REG/2018/590 B	Extant (Notified)	KCMS-1020B	Rice	Kaveri Seed Company Ltd
1529	REG/2018/590 R	Extant (Notified)	0814-110-3-4-1-1	Rice	Kaveri Seed Company Ltd
1530	REG/2018/595	New	PH1KTF	Maize	Pioneer Overseas Corporation
1531	REG/2018/623	New	PH49CW	Maize	Pioneer Overseas Corporation
1532	REG/2018/624	New	PH43J9	Maize	Pioneer Overseas Corporation
1533	REG/2018/625	New	PH2RBF	Maize	Pioneer Overseas Corporation
1534	REG/2018/626	New	PH43G7	Maize	Pioneer Overseas Corporation
1535	REG/2018/645	Farmer	Sathi-2	Rice	Keshab Chandra Mahto
1536	REG/2018/647	Farmer	Yamuna Gora	Rice	Jitani Devi

1537	REG/2018/656	Farmer	Bura Buri	Rice	Mrityunjay Mahto
1538	REG/2018/666	Farmer	GULWADI SANNA	Rice	Chaitannya & Rai
1539	REG/2018/675	Farmer	SUPREME-1112	Wheat	Tushar Mukhi
1540	REG/2018/676	Farmer	SUPREME-1111	Wheat	Alok Mukhi
1541	REG/2018/679	Farmer	LAUNA CH-1	Chickpea	Satya Dev Singh
1542	REG/2018/686	Farmer	MAGHUA RAHAR	Pigeon pea	Mangal Kapri
1543	REG/2018/689	Farmer	RAHAR MAGHUA	Pigeon pea	Ranjeet Kumar Yadav
1544	REG/2018/691	Farmer	MAGHUA-01	Pigeon pea	Rituraj Kumar
1545	REG/2019/33	New	M076	Rice	Bayer Crop Science LP
1546	REG/2019/34	New	M075	Rice	Bayer Crop Science LP
1547	REG/2019/50	Extant (VCK)	KOSO8ME0004A	Rice	Kaveri Seed Company Ltd
1548	REG/2019/57	Extant (Notified)	Arize 6129 Gold	Rice	Bayer Crop Science LP
1549	REG/2019/61	New	DHKN 563	Maize	University of Agricultural Sciences
1550	REG/2019/62	New	DHKN 509	Maize	University of Agricultural Sciences
1551	REG/2019/84 H	Extant (VCK)	25D51 BGII	Tetraploid Cotton	Dhanlaxmi Crop Science Private Limited
1552	REG/2019/84 P1	Extant (VCK)	DG 05	Tetraploid Cotton	Dhanlaxmi Crop Science Private Limited
1553	REG/2019/84 P2	Extant (VCK)	DG 11	Tetraploid Cotton	Dhanlaxmi Crop Science Private Limited
1554	REG/2019/117	Extant (VCK)	G-4	Mulberry	Central Silk Board
1555	REG/2020/45	Extant (VCK)	SHEEGENE 21	Grapes	SHEEHAN GENETICS LLC
1556	REG/2020/47	Extant (VCK)	SHEEGENE 20	Grapes	SHEEHAN GENETICS LLC
1557	REG/2020/50 H	Extant (VCK)	ARKA VIKRAM (RGH-63)	Ridge gourd	Indian Institute of Horticultural Research
1558	REG/2020/50 P1	Extant (VCK)	IIHR-6-1-1	Ridge gourd	Indian Institute of Horticultural Research
1559	REG/2020/50 P2	Extant (VCK)	Arka Prasan (IIHR-53-1-3)	Ridge gourd	Indian Institute of Horticultural Research
1560	REG/2020/60	New	BIO HR411136R	Rice	DCM Shriram Limited
1561	REG/2020/65	Farmer	WRCB-420	Wheat	RAM AKBAL TIWARI
1562	REG/2020/73 H	Extant (VCK)	NMH-8352	Maize	Nuziveedu Seeds Ltd
1563	REG/2020/75 H	Extant (VCK)	MM 2050	Maize	Mahindra Agri solutions Ltd
1564	REG/2020/81 H	New	ADV7759(ADV759)	Maize	UPL Limited
1565	REG/2020/81 P1	New	330089	Maize	UPL Limited
1566	REG/2020/81 P2	New	330090	Maize	UPL Limited
1567	REG/2020/82 H	New	ADV7757(ADV757)	Maize	UPL Limited
1568	REG/2020/82 P1	New	330093	Maize	UPL Limited
1569	REG/2020/82 P2	New	330094	Maize	UPL Limited
1570	REG/2020/83 H	New	ADV7764(ADV764)	Maize	UPL Limited
1571	REG/2020/83 P1	New	330104	Maize	UPL Limited
1572	REG/2020/83 P2	New	330105	Maize	UPL Limited
1573	REG/2020/129	Extant (VCK)	PH12JB	Maize	Pioneer Overseas Corporation
1574	REG/2020/130	Extant (VCK)	PHD1A	Maize	Pioneer Overseas Corporation
1575	REG/2020/131	Extant (VCK)	PH13W8	Maize	Pioneer Overseas Corporation

1576	REG/2020/132	Extant (VCK)	PH113K	Maize	Pioneer Overseas Corporation
1577	REG/2020/133	Extant (VCK)	PH1DTV	Maize	Pioneer Overseas Corporation
1578	REG/2020/134	Extant (VCK)	PH15K8	Maize	Pioneer Overseas Corporation
1579	REG/2020/177	Farmer	DUBI	Rice	TARAK PURUSH SELF HELP GROUP (GROUP OF Farmers)
1580	REG/2020/178	Farmer	BAHPHOLA DHAN	Rice	TARAK PURUSH SELF HELP GROUP (GROUP OF Farmers)
1581	REG/2020/179	Farmer	SOLPONA SALI	Rice	TARAK PURUSH SELF HELP GROUP (GROUP OF Farmers)
1582	REG/2020/180	Farmer	SAKARU	Rice	TARAK PURUSH SELF HELP GROUP (GROUP OF Farmers)
1583	REG/2020/181	Farmer	KOLA JOHA (DANGDHORA)	Rice	TARAK PURUSH SELF HELP GROUP (GROUP OF Farmers)
1584	REG/2020/182	Farmer	BHDUMONI	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1585	REG/2020/183	Farmer	GOMI BORA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1586	REG/2020/184	Farmer	POKORKOLA BORA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1587	REG/2020/185	Farmer	BIRIA BHONGA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1588	REG/2020/186	Farmer	SHIL SALI	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1589	REG/2020/187	Farmer	UKIMORA BORA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1590	REG/2020/188	Farmer	MISIRI CHOKUA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1591	REG/2020/189	Farmer	LENGERI BORA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1592	REG/2020/192	Farmer	KEMPU JOLA	Maize	MALLIKARJUNA
1593	REG/2020/193	Farmer	AMBARA	Maize	MALLIKARJUNA
1594	REG/2020/195	Farmer	KERKER SALI	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1595	REG/2020/196	Farmer	LEUNA BORA	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1596	REG/2020/197	Farmer	KAMPON AMBUG	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1597	REG/2020/199	Farmer	LUGUM AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1598	REG/2020/200	Farmer	KOPAK AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1599	REG/2020/201	Farmer	AMBUG	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1600	REG/2020/203	Farmer	ALAPKANE AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)

1601	REG/2020/204	Farmer	SARU JAHINGIA	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1602	REG/2020/205	Farmer	BANKI SALI	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1603	REG/2020/206	Farmer	BOR JAHINGIA	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1604	REG/2020/207	Farmer	YAKUM AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1605	REG/2020/208	Farmer	MOTONGA	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1606	REG/2020/209	Farmer	PIMA AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1607	REG/2020/210	Farmer	JENGONI AMPE	Rice	TAKAR PURUSH SELF HELP GROUP (Group of Farmers)
1608	REG/2020/211	Farmer	RONGA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1609	REG/2020/212	Farmer	BOGI	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1610	REG/2020/214	Farmer	SOLPONA JOHA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1611	REG/2020/215	Farmer	DARIA	Rice	BOHUMUKHI UTPADONI SOMMITTEE (Group of Farmers)
1612	REG/2020/216	Farmer	KATI NEULI	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1613	REG/2020/217	Farmer	BAR CHAKUA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1614	REG/2020/218	Farmer	RONGA JOHA (ALAMI)	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1615	REG/2020/219	Farmer	GHISIRI CHAKUA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1616	REG/2020/220	Farmer	SOKUA BORA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1617	REG/2020/221	Farmer	JEERA JOHA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1618	REG/2020/222	Farmer	RONGA SAKOWA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1619	REG/2020/223	Farmer	MIGON (MIGUN)	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1620	REG/2020/224	Farmer	BANKI	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1621	REG/2020/225	Farmer	SOLNONA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1622	REG/2020/226	Farmer	LAKSHMAN	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1623	REG/2020/227	Farmer	SORU SAKUA	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)
1624	REG/2020/228	Farmer	SUAGMONI STIKY	Rice	LAKLONGIA SELF HELP GROUP (Group of Farmers)

1625	REG/2020/241	Extant (VCK)	RATNADIP	Guava	ICAR-Krishi Vigyan Kendra, Baramati
1626	REG/2020/246	Extant (Notified)	DAKSHA (KMP-175)	Rice	University of Agricultural Sciences
1627	REG/2020/251	Farmer	MUSALLI	Rice	Krishi Prayoga Pariwara
1628	REG/2020/252	Farmer	NATIBATTA	Rice	Krishi Prayoga Pariwara
1629	REG/2020/253	Farmer	NATTI JADDU	Rice	Krishi Prayoga Pariwara
1630	REG/2020/254	Farmer	ANKURSONA	Rice	Krishi Prayoga Pariwara
1631	REG/2020/255	Farmer	PADMAREKHA	Rice	Krishi Prayoga Pariwara
1632	REG/2020/257	Farmer	SHIVA DAPPAVALYA	Rice	Krishi Prayoga Pariwara
1633	REG/2020/258	Farmer	VALTIGA	Rice	Krishi Prayoga Pariwara
1634	REG/2020/261	Farmer	ANDRISAL	Rice	Krishi Prayoga Pariwara
1635	REG/2020/262	Farmer	BHARMA BLACK	Rice	Krishi Prayoga Pariwara
1636	REG/2020/263	Farmer	BORA KURUVALLI	Rice	Krishi Prayoga Pariwara
1637	REG/2020/264	Farmer	GOUDRA GADLA	Rice	Krishi Prayoga Pariwara
1638	REG/2020/266	Farmer	HALAGA	Rice	Krishi Prayoga Pariwara
1639	REG/2020/268	Farmer	KABBAGA	Rice	Krishi Prayoga Pariwara
1640	REG/2020/269	Farmer	KANADA TUMBA	Rice	Krishi Prayoga Pariwara
1641	REG/2020/270	Farmer	KARNA	Rice	Krishi Prayoga Pariwara
1642	REG/2020/271	Farmer	KARTHA	Rice	Krishi Prayoga Pariwara
1643	REG/2020/272	Farmer	KEMPUKAR	Rice	Krishi Prayoga Pariwara
1644	REG/2020/273	Farmer	KISHORA	Rice	Krishi Prayoga Pariwara
1645	REG/2020/274	Farmer	MANJUGUNU SANNA	Rice	Krishi Prayoga Pariwara
1646	REG/2020/275	Farmer	MASURIBATTA	Rice	Krishi Prayoga Pariwara
1647	REG/2020/279	Farmer	HONNUKATTU	Rice	HOOVAPPA C.A
1648	REG/2020/280	Farmer	SALUM SANNA	Rice	Srinivas Patil
1649	REG/2020/282	Farmer	SUBBANNA	Rice	Krishi Prayoga Pariwara
1650	REG/2020/283	Farmer	ARUNDATHI	Rice	Krishi Prayoga Pariwara
1651	REG/2020/284	Farmer	BANGARA GUNDU	Rice	Krishi Prayoga Pariwara
1652	REG/2020/287	Farmer	EDIKUNI	Rice	Krishi Prayoga Pariwara
1653	REG/2020/289	Farmer	H R MYSORE	Rice	Krishi Prayoga Pariwara
1654	REG/2020/291	Farmer	HONASU	Rice	Krishi Prayoga Pariwara
1655	REG/2020/292	Farmer	HONNE KATTU	Rice	Krishi Prayoga Pariwara
1656	REG/2020/293	Farmer	JIGMARATIGA	Rice	Krishi Prayoga Pariwara
1657	REG/2020/295	Farmer	KAPPU BATTA	Rice	Krishi Prayoga Pariwara
1658	REG/2020/298	Farmer	KEMPUDADI	Rice	Krishi Prayoga Pariwara
1659	REG/2020/299	Farmer	KEMPUSANNA	Rice	Krishi Prayoga Pariwara
1660	REG/2020/300	Farmer	KOYMATTUR SANNA	Rice	Krishi Prayoga Pariwara
1661	REG/2020/310 H	Extant (Notified)	VGI HI (VaMH 12014)	Maize	Director of Research, Tamil Nadu Agricultural University
1662	REG/2020/310 P2	Extant (Notified)	VIM 357	Maize	Director of Research, Tamil Nadu Agricultural University
1663	REG/2020/312 H	Extant (VCK)	JKMH 4510	Maize	JK Agri Genetics Ltd
1664	REG/2020/342	Farmer	NYARE MINDA	Rice	Krishi Prayoga Pariwara
1665	REG/2020/343	Farmer	SUBBANNA-1	Rice	Krishi Prayoga Pariwara
1666	REG/2020/345	Farmer	CHINAMANI	Rice	Krishi Prayoga Pariwara

1667	REG/2020/347	Farmer	SAMBAMOSAM	Rice	Krishi Prayoga Pariwara
1668	REG/2020/348	Farmer	SIDDU JACK FRUIT	Jackfruit	S.S. Paramesh
1669	REG/2020/349	Farmer	SHANKARA JACK FRUIT	Jackfruit	Shankariah
1670	REG/2020/366 H	Extant (Notified)	YCH 7475 Bt2	Tetraploid Cotton	Yaaganti Seeds Pvt Ltd
1671	REG/2020/367 H	Extant (Notified)	PRCH 2799 Bt2	Tetraploid Cotton	Pravardhan Seeds Pvt Ltd
1672	REG/2020/372	Extant (VCK)	ARKA SUGANDHI	Tuberose	Indian Institute of Horticultural Research
1673	REG/2020/377	Extant (Notified)	RAJ VIJAY KABULI GRAM 101 (JSC 42)	Chickpea	Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya
1674	REG/2020/382	Extant (VCK)	RC91BGII	Tetraploid Cotton	Rasi Seeds Pvt Ltd
1675	REG/2020/383	Farmer	Kalijhini Dhan	Rice	Ramesh Chand
1676	REG/2020/384	Farmer	KASRAL WANGI	Brinjal	Mr. Anil Sabaji Sawant, Mr. Pralhad Dhondur Sawant, Mr. Deepak Sabaji Sawant, Mr. Pravin Jaywant Sawant, Mr. Amol Deepal Sawant (Group of Farmers)
1677	REG/2021/1	Farmer	Matali Dhan	Rice	Ludar Chand
1678	REG/2021/2	Farmer	Jattu Dhan	Rice	Shyam Singh Katoch
1679	REG/2021/0025	Farmer	RMP BADANE	Brinjal	Timma Reddy
1680	REG/2021/0026	Farmer	MATTUGULLA	Brinjal	Mattu Gulla Belegarara Sanga
1681	REG/2021/0035	Farmer	R.S. Pura Basmati	Rice	Joginder Lal & Balkar Singh
1682	REG/2021/0036	Farmer	ANDANUR SANNA	Rice	Anjaneya A.N.
1683	REG/2021/0037	Farmer	SINDURA MADHUSALE	Rice	Anjaneya A.N.
1684	REG/2021/0041 H	Extant (Notified)	Central Maize VL 55 (FH 3605)	Maize	Indian Council of Agricultural Research
1685	REG/2015/1443 P1	Extant (Notified)	V 407	Maize	Indian Council of Agricultural Research
1686	REG/2015/1442 P1	Extant (Notified)	V 405	Maize	Indian Council of Agricultural Research
1687	REG/2021/0127	Farmer	JARVI RED	Guava	Heenaben Jayeshbhai Patel
1688	REG/2021/0138	Farmer	JANAGERE	Jackfruit	Ravish J.R.
1689	REG/2021/0139	Farmer	NELUGUDIGE RED	Jackfruit	Beerappa
1690	REG/2021/0142	Farmer	KACHAHALLI TABLE TYPE 17	Jackfruit	Shivakumar
1691	REG/2021/0151 H	Extant (Notified)	IQMH 202 (LQMH-2) (IIMRQPMH-1601)	Maize	Indian Council of Agricultural Research
1692	REG/2021/0151 P1	Extant (Notified)	DQL 2209	Maize	Indian Council of Agricultural Research
1693	REG/2021/0151 P2	Extant (Notified)	DMRQPM 106	Maize	Indian Council of Agricultural Research
1694	REG/2021/0152 H	Extant (Notified)	IQMH 203 (LQMH-1705) (IIMRQPMH-1705)	Maize	Indian Council of Agricultural Research
1695	REG/2021/0152 P1	Extant (Notified)	DQL 2192	Maize	Indian Council of Agricultural Research

1696	REG/2021/0185	Extant (Notified)	Gujarat Anand Desi Cotton 3 (GADC 3: Wagad Gaurav)	Diploid Cotton	Anand Agricultural University
1697	REG/2021/0191 H	Extant (Notified)	Ladhowal Popcorn Hybrid 2 (LPCH 2) (IMHP 1535) (Hybrid)	Maize	Indian Council of Agricultural Research
1698	REG/2021/0191 P2	Extant (Notified)	Dpcl 292	Maize	Indian Council of Agricultural Research
1699	REG/2021/0200	Farmer	MODI MANGO	Mango	Upendra Kumar Singh
1700	REG/2021/0206	Extant (Notified)	GT-104 (NPMK-15-05)	Pigeon pea	Navsari Agricultural University
1701	REG/2021/0207	Extant (Notified)	Gujarat Tur 105 (GT-105: Janki)	Pigeon pea	Navsari Agricultural University
1702	REG/2021/0208	Extant (Notified)	Gujarat Urdbean 3 (GU-3: Anjani)	Black gram	Navsari Agricultural University
1703	REG/2021/0209	Extant (Notified)	GM-7	Green gram	Navsari Agricultural University
1704	REG/2021/0210	Extant (Notified)	GM-6 (NMK-15-12)	Green gram	Navsari Agricultural University
1705	REG/2021/0217	Extant (Notified)	YC 7963 Bt2	Tetraploid Cotton	Yaaganti Seeds Pvt Ltd
1706	REG/2021/0218 H	Extant (Notified)	PCH 5677 Bt II	Tetraploid Cotton	Prabhat Agri Biotech Ltd
1707	REG/2021/0219	Extant (Notified)	DBW 296 (Karan Aishwaraya)	Wheat	Indian Council of Agricultural Research
1708	REG/2021/0220	Extant (Notified)	DBW 327 (Karan Shivani)	Wheat	Indian Council of Agricultural Research
1709	REG/2021/0221	Extant (Notified)	Karan Aditya (DBW 332)	Wheat	Indian Council of Agricultural Research
1710	REG/2021/0222 H	Extant (Notified)	Pusa HQPM-5 Improved (APQH5)	Maize	Indian Agricultural Research Institute
1711	REG/2021/0222 P1	Extant (Notified)	PMI-PV6	Maize	Indian Agricultural Research Institute
1712	REG/2021/0222 P2	Extant (Notified)	PMI-PV5	Maize	Indian Agricultural Research Institute
1713	REG/2021/0223 H	Extant (Notified)	Pusa HM-4 Improved (AQH-4)	Maize	Indian Agricultural Research Institute
1714	REG/2021/0223 P1	Extant (Notified)	PMI-Q1	Maize	Indian Agricultural Research Institute
1715	REG/2021/0223 P2	Extant (Notified)	PMI-Q2	Maize	Indian Agricultural Research Institute
1716	REG/2021/0227 H	Extant (Notified)	SP7670 BGII	Tetraploid Cotton	Bayer Crop Science LP
1717	REG/2021/0227 P1	Extant (Notified)	CF10045B2	Tetraploid Cotton	Bayer Crop Science LP
1718	REG/2021/0228 H	Extant (Notified)	Pusa HM-9 Improved (AQH-9)	Maize	Indian Agricultural Research Institute
1719	REG/2021/0228 P2	Extant (Notified)	PMI-Q3	Maize	Indian Agricultural Research Institute
1720	REG/2021/0229 H	Extant (Notified)	Pusa Vivek QPM-9 Improved (APQH-9)	Maize	Indian Agricultural Research Institute
1721	REG/2021/0229 P1	Extant (Notified)	PMI-PV1	Maize	Indian Agricultural Research Institute

1722	REG/2021/0229 P2	Extant (Notified)	PMI-PV2	Maize	Indian Agricultural Research Institute
1723	REG/2021/0230 H	Extant (Notified)	Pusa Vivek Hybrid-27 Improved (APH27)	Maize	Indian Agricultural Research Institute
1724	REG/2021/0230 P1	Extant (Notified)	PMI-PV3	Maize	Indian Agricultural Research Institute
1725	REG/2021/0230 P2	Extant (Notified)	PMI-PV4	Maize	Indian Agricultural Research Institute
1726	REG/2021/0231 H	Extant (Notified)	Pusa HQPM-7 Improved (APQH7)	Maize	Indian Agricultural Research Institute
1727	REG/2021/0231 P1	Extant (Notified)	PMI-PV7	Maize	Indian Agricultural Research Institute
1728	REG/2021/0232 H	Extant (Notified)	Pusa HM-8 Improved (AQH-8)	Maize	Indian Agricultural Research Institute
1729	REG/2021/0232 P2	Extant (Notified)	HKI 161	Maize	Indian Agricultural Research Institute
1730	REG/2022/0007 H	Extant (Notified)	NCS 2778 Bt2	Tetraploid Cotton	Nuziveedu Seeds Ltd
1731	REG/2022/0007 P1	Extant (Notified)	NC 6134 Bt2	Tetraploid Cotton	Nuziveedu Seeds Ltd
1732	REG/2022/0007 P2	Extant (Notified)	NC 7027 Bt	Tetraploid Cotton	Nuziveedu Seeds Ltd
1733	REG/2022/0009	Extant (Notified)	Him Palam Jau 1 (HBL 713)	Barley	CSK Himachal Pradesh Krishi Vishvavidyalaya
1734	REG/2022/0011	Extant (Notified)	NC 369 Bt2	Tetraploid Cotton	Nuziveedu Seeds Ltd
1735	REG/2022/0013	Extant (Notified)	DRR Dhan 54 (IET 25653) (RP 5943-421-16-1-1-B)	Rice	Indian Council of Agricultural Research
1736	REG/2022/0014	Extant (Notified)	DRR Dhan-55 (RP 5591-123-16-2 (IET 26194)	Rice	Indian Council of Agricultural Research
1737	REG/2022/0015	Extant (Notified)	DRR Dhan 51 (IET 25484)	Rice	Indian Council of Agricultural Research
1738	REG/2022/0016	Extant (Notified)	DRR Dhan 58	Rice	Indian Council of Agricultural Research
1739	REG/2022/0017	Extant (Notified)	DRR Dhan 59	Rice	Indian Council of Agricultural Research
1740	REG/2022/0018	Extant (Notified)	DRR Dhan 53 [RP-6113-Patho-BB9 (IET 27294)]	Rice	Indian Council of Agricultural Research
1741	REG/2022/0020	Extant (Notified)	DRR Dhan 62	Rice	Indian Council of Agricultural Research
1742	REG/2022/0021	Extant (Notified)	DRR Dhan 48 (IET 24555)	Rice	Indian Council of Agricultural Research
1743	REG/2022/0023	Extant (Notified)	DRR Dhan 60	Rice	Indian Council of Agricultural Research
1744	REG/2022/0024	Extant (Notified)	DRR Dhan 57	Rice	Indian Council of Agricultural Research
1745	REG/2022/0035 H	Extant (Notified)	NBH 5929 (MH 2423)	Pearl Millet	Nuziveedu Seeds Ltd
1746	REG/2022/0035 A	Extant (Notified)	NB 1121A	Pearl Millet	Nuziveedu Seeds Ltd

1747	REG/2022/0035 B	Extant (Notified)	NB 1121B	Pearl Millet	Nuziveedu Seeds Ltd
1748	REG/2022/0035 R	Extant (Notified)	NB 197R	Pearl Millet	Nuziveedu Seeds Ltd
1749	REG/2022/0037	Extant (Notified)	DRR Dhan 50 (IET 25671)	Rice	Indian Council of Agricultural Research
1750	REG/2022/0039	Extant (Notified)	DRR Dhan 52 (IET 23354) (RP 5125 - 12-5- 3-B-IR 84898-B)	Rice	Indian Council of Agricultural Research
1751	REG/2022/0124	Farmer	SANTY SEEDLESS	Grapes	Santosh Madhukar More
1752	REG/2022/0125	Farmer	UTKARSHA	Grapes	Ramchandra Dagu Chumbhale
1753	REG/2022/0144	Farmer	HALADI RUDRAKSHI-JAR	Jackfruit	Ananthamurthy Javali
1754	REG/2022/0145	Farmer	ORANGE-RPN	Jackfruit	Prakash Nayak
1755	REG/2022/0146	Farmer	KEMPU RUDRAKSHI- DSV	Jackfruit	Devaraj S.
1756	REG/2022/0147	Farmer	MANAKALALE RED- RTB	Jackfruit	Rajendra T.
1757	REG/2022/0161	Farmer	KT 13 A	Jackfruit	Ashok B.
1758	REG/2022/0162	Farmer	KT 13 B	Jackfruit	Ashok B.
1759	REG/2022/0163	Farmer	NR-1	Jackfruit	R. Narayanappa
1760	REG/2022/0168	Farmer	SBR-I	Jackfruit	Subramanya
1761	REG/2022/0169	Farmer	SCT-1	Jackfruit	Shreenath, H.R
1762	REG/2022/0170	Farmer	TEJU	Jackfruit	Ms. Tejaswini H.
1763	REG/2022/0171	Farmer	SBM-1	Jackfruit	Subbanna

Annexure IX: Acronyms

AICRP	All India Coordinated Research Project
BAU	Birsa Agricultural University
BMC	Biodiversity Management Committee
BCIL	Biotech Consortium India Limited
CAG	Comptroller and Auditor General of India
CARI	Central Agricultural Research Institute
CBD	Convention on Biological Diversity
CMD	Chairmen-Cum-Managing Director
CSIR	Council of Scientific and Industrial Research
CHES	Central Horticultural Experiment Station
CSSRI	Central Soil Salinity Research Institute
DAC	Department of Agriculture & Co-operation
DUS	Distinctiveness, Uniformity and Stability
EVRC	Extant Variety Recommendation Committee
ETL	Economic Threshold Level
GATT	General Agreement on Tariffs and Trade
IARI	Indian Agricultural Research Institute
ICAR	Indian Council of Agricultural Research
ICFRE	Indian Council of Forest Research & Education
IINDUS	Indian Information System as per DUS guidelines
IPGRI	International Plant Genetic Resource Institute (Bioversity International)
ITPGRFA	International Treaty on Plant Genetic Resource for Food and Agriculture
KAU	Kerala Agriculture University
KVK	Krishi Vigyan Kendra
NASC	National Agricultural Science Center
NGO	Non-Governmental Organization
NORV	Notified and Released Varieties of India
NSAI	National Seed Association of India
NRCPB	National Research Center on Plant Biotechnology
NSRTC	National Seed Research and Training Center
MSEZ	Mangalore Special Economic Zone Limited
OECD	Organization for Economic Co-operation and Development
PS	Principal Scientist
PD	Project Director
PGR	Plant Genetic Resources
PPVFRA	Protection of Plant Varieties and Farmers' Rights Authority
PVE	Plant Variety Examiner

PVIS	Plant Variety Information System
PVJ	Plant Variety Journal of India
R&D	Research and Development
RTI	Right to Information
SAO	Senior Accounts Officer
SAU	State Agricultural Universities
STO	Senior Technical Officer
TRIPS	Trade-Related Aspects of Intellectual Property Rights
UPOV	International Union of Protection of New Varieties of Plants
VCK	Variety Common Knowledge
WTO	World Trade Organization
PGSC	Plant Genome Saviour Community Awards
PGSFR&R	Plant Genome Saviour Farmer Reward & Recognition
PARV	Portal to Apply for Registration of Varieties

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Protection of Plant Varieties and Farmers' Rights Authority

(A Statutory Authority Created by an Act of Parliament)

Department of Agriculture & Farmers Welfare

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