



PROTECTION OF PLANT VARIETIES & FARMERS' RIGHTS AUTHORITY
MINISTRY OF AGRICULTURE
DEPARTMENT OF AGRICULTURE & CO-OPERATION
NEW DELHI

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NEWS LETTER

Newsletter for Intellectual Property Rights in Plant Varieties

Contents

- ❖ From the Chairperson's Desk
- ❖ Crops ready for Registration
- ❖ Progress of Registry
- ❖ Plant Variety Journal of India
- ❖ Meetings of the Extant Variety Registration Committee
- ❖ Meetings of the Task Force
- ❖ Monitoring of DUS Test
- ❖ Training and Awareness Programmes
- ❖ Registrar General participation
- ❖ Foreign Visits
- ❖ Foreign Visitors
- ❖ News from Branch Offices
 - Guwahati
 - Ranchi
- ❖ Special Campaign for Registration of Farmers' Varieties
- ❖ Legal Matter
- ❖ Right To Information (RTI)
- ❖ Crops/ species under Registration
- ❖ Regional Offices / Contact person / Editorial Board

From the Chairperson's Desk

I am delighted to present the seventh issue of the Newsletter of the Authority for the period October – December, 2014. A National workshop on “**Enhancing Understanding & Implementation of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA) in India**” was organized on 17-18 November, 2014 at Deendayal Research Institute, Chitrakoot. This workshop was participated by Senior Officers of Department of Agriculture & Co-operation including Shri A.K. Srivastava, Additional Secretary and Shri R.K. Singh, Joint Secretary (Seeds). This workshop was jointly organized by Protection of Plant Varieties and Farmers' Rights Authority; Department of Agriculture and Co-operation, Govt. of India; ICAR-National Bureau of Plant Genetic Resources; Food and Agriculture Organization of the United Nations and Deendayal Research Institute, Chitrakoot to enhance the awareness and understanding of the ITPGRFA among the stakeholders. A National Exhibition of seeds, planting material and the agro-products of the traditional varieties, landraces, folk varieties conserved by farmers, NGOs, KVKs, SAUs etc. was





also arranged side by side which attracted lot of intellectuals, students including farmers of the nearby villages. The status of applications received and certificates issued in respect of farmers' varieties since inception is on page 2-3.

The Authority has received more than 8600 applications for registration and a record number of 1737 certificates of registration have been issued by Authority. Maximum number of certificates were issued under Extant notified category (831) followed by farmers varieties (511). There is still need to increase the participation and response of the public sector (SAUs and ICAR Institutes) for the protection of their already released and notified varieties (u/s 5 of the Seeds Act, 1966) which are registerable under the category of Extant notified varieties (ENVs) of PPV&FR Act, 2001. It is expected that 15-20%* (*As indicated Trends of registration of Extant Varieties) of the released and notified varieties have been applied for the registration. Obviously, there are many reasons for this gap and the process of registration could be expedited by the motivation of concerned scientists by the Director (Research), SAUs / Project Coordinator(s) / Project Directors of the ICAR Institutes on a constant basis. Main reason for non-registration of extant variety by the SAUs mostly is due to lack of awareness / importance of Act with them and this can be avoided by organizing awareness / capacity building programmes for the students and scientists. Constrains regarding availability of sufficient budgets with the State Agricultural Universities for payment of requisite fee for registration is an another factor responsible for non-registration of extant variety by the SAUs. This problem could be resolved through AICRP by keeping a budgetary provision for registration of extant varieties. However, the Authority has taken the awareness drive on massive scale and the information about the provisions of the PPV&FR Act including farmers' rights, registration of varieties, conservation of Plant Genetic Resources, PGSC Awards, Rewards and Recognitions for educating the stakeholders have been made in close coordination with SAUs / KVKs network across the country is already on.

I am thankful to all concerned including my officers and staff for their valued support and co-operation. I once again invite your valuable suggestions and comments, if any, for the improvement of the content and quality of the Newsletter

(R.R. Hanchinal)
Chairperson, PPV&FR Authority



Crops ready for Registration/Notification

Muskmelon	Watermelon
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Crops guidelines under finalization

Bambusabalcooa	Jasmine	Carnation	China aster	
<i>Dendrocalamushamiltonii</i>	Papaya	Peach & Plum	Straw-berry	Custard Apple
Noni	Tuberose			

Progress of Registry

Applications Received

Category	No. of Applications	Category	No. of Applications
Public	25	New	87
Private	95	Extant	34
Farmer	305	Farmer	304
		EDV	-
Total	425	Total	425

Crop wise and Applications Received

S. No.	Crop	Public	Private	Farmer
1.	Bitter Gourd	-	-	1
2.	Black gram	-	-	6
3.	Black Pepper	-	-	1
4.	Bottle Gourd	-	-	6
5.	Brinjal	-	10	1
6.	Cabbage	-	9	-
7.	Castor	-	-	-
8.	Cauliflower	-	3	1
9.	Chickpea	-	-	8
10.	Chrysanthemum	-	-	-
11.	Coconut	1	-	-
12.	Coriander	-	-	2
13.	Cucumber	-	-	0
14.	Diploid Cotton	-	-	-
15.	Dicoccum Wheat	1	-	-
16.	Durum Wheat	-	-	-
17.	Fenugreek	-	-	1

S. No.	Crop	Public	Private	Farmer
18.	Field pea	2	-	2
19.	Garlic	2	-	3
20.	Ginger	-	-	4
21.	Green gram	-	-	1
22.	Grapes	-	-	1
23.	Indian Mustard (Sarso)	1	2	8
24.	Jute	2	-	1
25.	Kidney bean	-	-	3
26.	Lentil	-	-	7
27.	Linseed	-	-	5
28.	Maize	1	22	6
29.	Okra	9	8	1
30.	Onion	2	-	1
31.	Pearl Millet	-	3	-
32.	Pigeon pea	-	-	1
33.	Potato	-	-	1
34.	Rapeseed (Torja)	-	-	3
35.	Rice	2	6	208
36.	Safflower	1	-	1
37.	Sesame	-	-	1
38.	Small Cardamom	-	-	2
39.	Sorghum	-	6	1
40.	Sugarcane	-	-	2
41.	Sunflower	-	15	-
42.	Tetraploid cotton	-	8	-
43.	Tomato	-	1	2
44.	Turmeric	-	-	11
45.	Wheat	2	2	2
	Total	25	95	305

Certificates issued crop and category wise

S. N.	Crop	Public	Private	Farmer	Total
1.	Black Gram	2	-	-	2
2.	Bread Wheat	7	-	-	7
3.	Cabbage	1	-	-	1
4.	Castor	-	1	-	1
5.	Chickpea	1	-	1	2
6.	Coconut	6	-	-	6
7.	Cotton	8	5	-	13



S. N.	Crop	Public	Private	Farmer	Total
8.	Garlic	1	-	-	1
9.	Green Gram	3	-	-	3
10.	Groundnut	5	-	-	5
11.	Indian Mustard	5	6	1	12
12.	Kidney Bean	2	-	-	2
13.	Lentil	1	-	-	1
14.	Maize	2	3	-	5
15.	Pigeon Pea	-	1	-	1
16.	Rapeseed	1	-	-	1
17.	Rice	15	3	101	119
18.	Sorghum	4	2	-	6
19.	Sunflower	-	2	-	2
20.	Tomato	1	-	-	1
	Total	65	23	103	191

Certificate issued

Public	65
Private	23
Farmer	103
Total	191

Trends of registration of Extant Varieties*

Particulars / years	2007	2008	2009	2010	2011	2012	2013	2014	Total
Applications received	356	396	393	101	270	252	255	189	2212
Certificate issued	289	282	147	10	92	113	111	82	1126

Applications of farmers' varieties received State-wise

S. No.	States	No. of Applications
1	Andhra Pradesh	24
2	Assam	393 (V)
3	Bihar	197 (VII)

S. No.	States	No. of Applications
4	Chhattisgarh	596 (II)
5	Goa	1
6	Gujarat	3
7	Haryana	3
8	Himachal Pradesh	8
9	Jharkhand	594 (III)
10	Karnataka	172 (IX)
11	Kerala	43
12	Madhya Pradesh	79
13	Maharashtra	85
14	Manipur	330 (VI)
15	Nagaland	92
16	Odisha	942 (I)
17	Punjab	3
18	Rajasthan	12
19	Sikkim	2
20	Tamil Nadu	8
21	Tripura	142 (X)
22	Uttar Pradesh	99
23	Uttarakhand	14
24	West Bengal	454 (IV)
25	Mizoram	99
26	Meghalaya	195 (VIII)
27	Andaman Nicobar	6
28	Jammu & Kashmir	27
	Total	4623

Certificates issued in respect of farmers' varieties State-wise

S. No.	Crops	No. of Certificates issued	States
1	Rice	507	Odisha
2	Rice	15	West Bengal

S. No.	Crops	No. of Certificates issued	States
3	Rice, Sorghum	4	Uttrakhand
4	Wheat	1	Uttar Pradesh
5	Rice, Wheat	2	Punjab
6	Rice	6	Kerala
7	Rice, Chickpea	2	Maharashtra
8	Rice	1	Himachal Pradesh
9	Wheat, Indian Mustard, Pigeon pea	3	Rajasthan
10	Pigeon pea	1	Madhya Pradesh
11	Pigeon pea	1	Andhra Pradesh
	Total	543	

Plant Variety Journal of India

Plant Variety Journal of India for the month of October–December, 2014 were published and also uploaded on the website of the Authority regularly in the first working day of each month.

Project Appraisal Committee (PAC)

Meeting of the Project Appraisal Committee (PAC) was held on **22 December, 2014** in the PPV&FR Authority under the Chairmanship of



Dr. P. N. Mathur, Coordinator South Asia Office, Bioversity International, New Delhi to appraise and finalize the new projects submitted to



PPV&FR Authority for financial assistance 2014-15. Besides, the Chairman Dr. J. S. Chauhan, Assistant Director General (Seeds), ICAR, New Delhi, Dr. Malavika Dadlani, former Jt. Director (Res.) IARI, Consultant, Coordinator South Asia Office, Bioversity International, NASC Complex, New Delhi-12, were present PAC recommended only four proposals for funding out of 16 proposals received. Dr. N.K. Krishna Kumar, Deputy Director General (Hort.), ICAR, New Delhi and Dr. Tejbir Singh, Registrar as a Member Secretary. Dr. R. R. Hanchinal, Chairperson, PPV&FR Authority and Dr. R. C. Agrawal, Registrar General, PPV&FR Authority attended along with Dr. Manoj Srivastava, Registrar and Sh. D. S. Mishra, Joint Registrar.

Meetings of the Task Force

- **Task Force for validation of DUS test guidelines for Jasmine & Tuberose:** The Second meeting of Task Force for validation of DUS test guidelines for Jasmine and Tuberose was held on 7 October, 2014 at Indian Institute of Horticulture Research (IIHR), Bengaluru for finalizing the DUS test guidelines for Jasmine and Tuberose under the Chairmanship of Prof. M. Kanan, Professor of Horticulture, Department of Floriculture and Landscaping,



HC&RI, Tamil Nadu Agriculture University, Coimbatore. Dr. Sujatha Nair, Principal Scientist & PI for Jasmine; Dr. Meenakshi Srinivas, Principal Scientist, & PI for Tuberose; Dr. M. Ganga, Nodal Officer, Department of Floriculture and Landscaping, Tamil Nadu Agricultural University, Coimbatore were present. Dr. R. R. Hanchinal, Chairperson, Dr. Manoj Srivastava and Dr. Tejbir Singh, Registrars; Dr. M. Jawahar Lal, Prof. & Head, (Floriculture), Co-PI for Jasmine, Department of Floriculture and Landscaping, TNAU, Coimbatore and Prof. C. Kameswara Rao, No 1, Gupta's Layout, Southend Road, Bengaluru were also present.

- **Task Force for validation of DUS test guidelines for China Aster:** The Second meeting of Task Force was held on 7 October, 2014 at Indian Institute of Horticulture Research, Bengaluru for finalizing the DUS test guidelines for China Aster under the Chairmanship of Dr. T. Manjunatha Rao, Principal Scientist & Head, Division of ornamentals, IIHR, Bengaluru. Dr. S.M. Katwate, Geneticist, National Agricultural Research Project, Ganeshkhanda, Pune; Dr. Rajiv Kumar, Senior Scientists, Division of Ornamentals, IIHR; Dr. R. R. Hanchinal, Chairperson, PPV&FR Authority and Dr. Tejbir Singh, Registrar were present in the meeting. After thorough deliberation and discussion the DUS test guideline for Tuberose, Papaya, Jasmine, China Aster were finalized in the above meetings and also published in the PVJ of India in the month of December, 2014
- **Task Force for validation of DUS test guidelines for Papaya and Custard Apple:** The second meeting of the Task Force was held on 8 October, 2014 at Indian Institute of Horticulture Research (IIHR), Bengaluru for finalizing the



DUS test guidelines for Papaya and Custard Apple under the Chairmanship of Dr. C.P.A. Iyer, Former Director, Former Director, IISR, Calicut. Dr. N. Kumar, Dean, Horticulture, TNAU, Coimbatore, Dr. B. M. C. Reddy, Vice - Chancellor, Dr. YSR Horticulture



University, Venkataramannagudem, AP, Dr. Sooriyanathasundaram, PI Co-nodal Centre for Papaya & Custard Apple, Dept. of Pomology, College of Horticulture, (Coordinating centre) TNAU, Coimbatore, Dr. C. Vasugi, Nodal Officer, Senior Scientist & PI of Papaya Project, IIHR, Bengaluru, Dr. P. Sampath Kumar, Principal Scientist & PI of Custard Apple, IIHR, Bengaluru were present. Dr. R. R. Hanchinal, Chairperson, Dr. Manoj Srivastava and Dr. Tejbir Singh, Registrars, PPV&FR Authority

were also present. The guidelines of Papaya has been finalized and published in the PVJ of India. The DUS test guidelines for custard apple will be finalized after the incorporation of all the suggestions made by members of the Task Force.

- सतर्कता जागरूकता सप्ताह निबन्ध प्रतियोगिता का आयोजन दिनांक 31 अक्टूबर, 2014 को किया गया। प्रतियोगिता में निबन्ध का विषय “भ्रष्टाचार से मुकाबला प्रौद्योगिकी एक संबल के रूप, “Combating



Corruption – Technology as an Enabler” था. This competition was organised under the supervision of Dr. Tejbir Singh, Registrar, PPV & FR Authority, New Delhi. Five officials of the Authority participated and the awards were given to the following officers:-

S. No.	Name & Designation	Prize
1	Sh. D.S. Rajganes, Legal Advisor	1 st
2	Sh. D.S. Mishra, Joint Registrar	2 nd
3	Sh. Suneet Kumar, Technical Examinar	3 rd

- **Task Force for validation of DUS test guidelines for Peach and Plum:** The second meeting of the Task Force was held on 21 November, 2014 at New Delhi for finalizing the DUS test guidelines for Peach & Plum under the Chairmanship of Dr. J. P. Tiwari, Former



Dean, College of Agriculture, G.B. Pant University of Agriculture & Technology, Pantnagar. Dr. S. N. Pandey, Former ADG (Hort.) ICAR, Dr. Nazeer Ahmed, Director, Central Institute of Temperate Horticulture, Srinagar and Dr. K.K. Srivastava, Senior Scientist from CISH, Lucknow respectively. Dr. K. Kumar, Principal Scientist, Dr. Y. S. Parmar University



of Horticulture & Forestry, Nauni, Solan (HP), Dr. S. Rajan, Director (Acting) CISH, Lucknow and Dr. Manoj Srivastava, Registrar, PPV&FR Authority, New Delhi as a Member Secretary. Dr. R. R. Hanchinal, Chairperson, PPV&FR Authority and Dr. R. C. Agrawal, Registrar General, PPV&FR Authority attended the meeting along with the Technical Officers of the Authority including Joint Registrar's. The Task Force finalized the DUS test guidelines for both the fruits.

- **Task Force for validation of DUS test guidelines for Strawberry:** The second meeting of Task Force was held on 21 November, 2014 at



New Delhi for finalizing the DUS test guidelines for Strawberry under the Chairmanship of Dr. J. P. Tiwari, former Dean, College of Agriculture, G. B. Pant University of Agriculture & Technology, Lucknow. Dr. Nazeer Ahmed, Director, Dr. S. R. Singh, Senior Scientist, Central Institute of Temperate Horticulture, Srinagar, Dr. K.K. Srivastava, Senior Scientist, Division of Fruit Science, CISH, Lucknow, Dr. B. N. S. Murthy, Principal Scientist, Division of Fruit Crops, Indian Institute of Horticulture Research, Bengaluru were present. Dr. Manoj Srivastava, Registrar, PPV&FR Authority, New Delhi, Member Secretary. Dr. R. R. Hanchinal, Chairperson and Dr. R. C. Agrawal, Registrar General, PPV&FR Authority were present along with the Registrars and Joint Registrars. The Task Force deliberated and discussed the DUS descriptors in depth for developing guidelines and suggestions were made by the members for incorporation appropriately while finalizing the same.

- **Task Force for validation of DUS test guidelines for Marigold:** The first meeting of the Task Force for developing DUS test guidelines



for **Marigold** was held on **22 December, 2014** in the Bioversity International, NASC Complex New Delhi under the Chairmanship

of Dr. P. N. Mathur, Coordinator South Asia Office, Bioversity International, New Delhi. Dr. Malavika Dadlani, Former Jt. Director (Res.) IARI and Consultant Coordinator South Asia Office, Bioversity International, Dr. Kanwar Pal Singh, Principal Scientist, & PI, Nodal Centre, DUS project on Marigold, Division of Floriculture & Landscaping, IARI, New Delhi, Dr. Tejaswini, Principal Scientist, & PI, Co-Nodal Centre, DUS project on Marigold, Division of Ornamental Crops, IIHR, Bengaluru were present. Dr. R. R. Hanchinal, Chairperson, PPV&FR Authority and Dr. R. C. Agrawal, Registrar General, PPV&FR Authority also attended the meeting.

Training-cum-Awareness Programmes

- A National workshop on “**Enhancing Understanding & Implementation of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA) in India**” was organized on 17-18 November, 2014 at Deendayal Research Institute, Chitrakoot. This workshop was jointly



organized by Protection of Plant Varieties and Farmers’ Rights Authority; Department of Agriculture and Co-operation, Govt. of India; ICAR-National Bureau of Plant Genetic Resources; Food and Agriculture Organization



of the United Nations and Deendayal Research Institute, Chitrakoot.

The objective of the workshop was to enhance the awareness of stakeholders about ITPGRFA and incentives / disincentives for inclusion of material under the Multilateral System (MLS) and ways to overcome these disincentives, if any. In addition to the workshop, a National Agro-biodiversity Exhibition of seeds, planting material and the agro-products of the traditional farmers' varieties, landraces, folk varieties conserved by farmers, NGOs, KVKs, SAUs etc. as side event, was centre of attraction.

Shri Avinash Kumar Srivastava, Additional Secretary, Govt. of India, Ministry of Agriculture was the Chief Guest and Shri Ganesh Singh, Member of Parliament and Parliamentary Secretary was the Guest of Honour. The programme was jointly inaugurated by Shri Avinash Kumar Srivastava, Additional Secretary, Shri R.K. Singh, Joint Secretary (Seeds), Shri Ganesh Singh, Member of Parliament, Satna, Dr. S.K. Patil, Vice-Chancellor, IGKV, Raipur and Prof. N.C. Gautam, Vice-Chancellor, MGCGVV, Chitrakoot, Dr. P.N. Mathur, Regional Director, Bioversity International, Dr. Subhash Dasgupta, Chief Technical Officer, FAO, Regional Office, Thailand, Dr. R.R. Hanchinal, Chairperson and Dr. R.C. Agrawal, Registrar General, PPV&FRA. The two days workshop was conducted in six sessions and chaired and co-chaired by different eminent scientists. Presentations were made on the various topics relevant to the conservation of PGRFA, policy issues, legal aspects, germplasm exchange, MLS, role of CGIAR centres farmers' rights and their awareness under ITPGRFA. MSSRF, Chennai, Humana People to People India and BAIF, Pune, reputed NGOs highlighted the outcome and experiences of implementation of their projects. A panel discussion on incentive or disincentives

for inclusion of Plant Genetic Resources in MLS and ways to disincentive was chaired by Dr. S.K. Patil, Vice-Chancellor, IGKV, Raipur and a number of scientist and number of scientists from ICAR including Mrs. Sunita K. Shreedharan, SKS Law, Associates made their observation on the subject. The Workshop was successful in bringing awareness of the various stakeholders about the implementation of ITPGRFA and its importance of conservation and sustainable use of PGRFA in day today life.

- Dr. Tejbir Singh, Registrar was invited to deliver a lecture on 20 December, 2014 about the activities of PPV&FR Authority & creating awareness about PPV&FR Act, 2001 in a function organized at R&D Centre, Murthal (Sonapat) of Haryana Agro Industries Corporation Limited (HAIC), Chandigarh for the benefits of its officials, staff and farmers of neighbouring areas. About two dozen farmers including ladies from Nepal and equal number of farmers from Bihar were invited to this event by the HAIC for imparting training for cultivation of mushroom, baby corn and bee keeping etc. as an income generating activities for the farmers.

Chairperson participation

- The Chairperson made a presentation on **“Achievements in Implementation of PPV&FR Act, 2001 in Zone VII”** at the ICAR Regional committee Meeting for Zone VII (Chhattisgarh, MP, Maharashtra, Goa) at Indira Gandhi Krishi Vishwavidyalaya, Raipur on 17-18 October, 2014.
- Participated in the **“Indian Horticulture Congress-2014”** organized at TNAU, Coimbatore and delivered a plenary lecture on **“Current IPR Issues in relation to Horticultural**



Production and Trade” with special emphasis on the PPV&FR Act, 2001 on 6-9 November, 2014.

- The Chairperson and Registrar General participated in the 23rd Meeting of ICAR Regional Committee No. V held at PAU, Ludhiana on 14 November, 2014. The Regional Committee meet was organized jointly by Punjab Agricultural University (PAU) and Central Soil Salinity Research Institute (CSSRI), Karnal at the campus of the PAU, Ludhiana. Chairperson made a presentation on **“Achievements in Implementation of PPV&FR Act, 2001”**. About 125 senior officers including agricultural Secretaries of the States, Vice-Chancellors of Agricultural / Veterinary Universities, Deputy and Assistant Director Generals of ICAR, Directors of different institutes of ICAR and Heads of Regional Stations of ICAR institutes, Non-governmental agencies and progressive farmers participated in the Regional Committee meeting.
- Participated in the Expert consultation as Chief Guest on Harmonization of Seed Movement, Regulations and procedures organized by CABI office at New Delhi. The Chairperson Chaired a session on **“Wrap up and Way Forward”** on 25 November, 2014.

Registrar General Participation

- Participated in one day Zonal Level Training-cum-Awareness Programme of PPV&FRA for Gujarat KVKs organised at Anand Agricultural University, Vadodara, Gujarat on 8 October, 2014. On same day, he also participated in another training-cum-awareness programme on PPV&FR Act, 2001 organised at Anand Agriculture University, Anand on 8 October, 2014. It was inaugurated by Dr N.C. Patel, Hon'ble Vice-Chancellor of AAU. It was

attended by 40 participants including Project Coordinator of Zone-VI, KVKs. During the training he explained in detail about the provisions of the PPV&FR Act.

- Made a presentation on **“Role and Scheme of PPV&FRA in promoting Farmers’ Innovation”** at the Model Training program on ***Extension strategies for up-scaling of farmer led Innovation*** organised by the Directorate of Extension, Ministry of Agriculture at Division of Agri. Extension, IARI, New Delhi on 14 October, 2014.
- Delivered a talk on **“Plant Breeders’ Rights, UPOV and PPV&FR Act, 2001”** in the International Course on **“Plant Genetic Resources and Seeds”** jointly organized by MSSRF and Wageningen University and Research Centre, the Netherlands at Chennai on 9-10 November, 2014.
- Delivered a lecture on **“Registration of Plant Varieties under PPV&FR Act, 2001”** at National Bureau of Plant Genetic Resources, New Delhi jointly sponsored by Directorate of Extension, Department of Agriculture & Co-operation, Model Training Course (MTC) on **“Role of Germplasm Diversity in Nutritional Security”** on 27 November, 2014.

Other Meetings

- **Meeting to review of DUS Test Policy of the PPV&FRA:** A meeting was held with DDG (CS), ICAR for reviewing of DUS Test Policy of PPV & FRA on 20 October, 2014 after detailed discussion amongst members. It was concluded that the convergence of AICRP trials conducted by ICAR and DUS test trial by PPV&FRA is not feasible and thus the existing system of conducting DUS test trials may continue. It was

also stressed that the monitoring of the DUS testing should be stringent and involves suitable crop-based experts and technical officers of the PPV&FRA. Therefore, efforts should be made for capacity building of the scientists involved in the conduct of DUS test and conservation/preservation and maintenance of reference varieties for future.

- The staff of the Authority joined together in pledging their support to fight corruption and being vigilant as part of the **Vigilance Awareness Week (27 October – 1 November, 2014)**. An essay writing competition (Bilingual)



was also organised as part of the activity under the vigilance week.

- 21st Authority Meeting of PPV&FR Authority was held at NASC Complex, New Delhi on 31 October, 2014. The Annual Report and the Annual Accounts of the Authority for 2013-14 were adopted by the Authority during the meeting.
- Four days training program on “**Climate Change and food security vulnerability assessment: Toolkit for assessing community level potential for adaptation for climate change**” was organized by Bioversity

International, New Delhi on 23-26 November, 2014. Dr. Jyoti Jaiswal and Dr. Meenakshi Bhardwaj, Plant Variety Examiner deputed for the training programme.

Foreign Visits

Foreign Visitors

German Delegation Visit: Two members German delegation Mr. Lutz Tenner, Ministry of Agriculture, Food & Consumer Protection and Dr. Hermaan Freudenstein, Federal Plant Variety Office, Berlin, Germany visited India from 15-18 December, 2014. The delegation had a fruitful meeting in the PPV&FR Authority in connection with Bilateral Co-operation in the Plant Variety Projection, Plant Breeders Rights, DUS testing and



Capacity Building on 16 December, 2014 and also with other stakeholders i.e. NBPGR, New Delhi and NSAI, New Delhi. The delegation was also taken to the field visit at IARI, New Delhi to give them first-hand information about the system of DUS testing. Presentations were made on the area of their interest particularly the DUS testing system in fruits, vegetables, cereals and ornaments by the concerned DUS centres of ICAR. The progress of the above meetings with the officials of the both sides was reviewed by Joint Secretary (Seeds) in the Ministry of Agriculture on 17 December, 2014 and discussed the areas of Bilateral Co-operation. Both



sides expressed their interest in intensifying the co-operation in the areas of mutual benefits.

News from Branch office

Guwahati

Grow out Test (GoT) of Farmers' Varieties



Monitoring of the GoT of farmers' varieties of rice were done at Assam Agricultural University, Jorhat, ICAR Nagaland and ICAR Manipur under the Chairmanship of Dr. S.R. Dhua, CRRI, Cuttack. Dr. A.C. Sarma, Deputy Registrar, Guwahati participated as the representative of the Authority as under:

Date of Monitoring	Grow Out Test Centres	Numbers of varieties
4 December, 2014	A.A.U, Jorhat, Assam	354
5 December, 2014	ICAR Nagaland, Jharnapani, Medziphema	270
6-7 December, 2014	ICAR Manipur, Lamphelpat	109

PGSC Award, Reward and Recognition Applications

Four applications received for PGSC awards and rewards at the branch office were forwarded to the Head Quarters.

Training and Awareness Programmes

Five Awareness -cum -Training programmes on PPV &FR Act, 2001 were organized by the KVKs in Assam as follows::

- **Training-cum-Awareness Programme at KVK, Sonitpur**



The programme held on 6 November, 2014 at Ghoramari and was inaugurated by Shri Kamal Basumatary, Former M.L.A Borsola L.A.C, Assam and attended by Programme Coordinator and scientists of KVK, Sonitpur, farmers and NGOs. Training on different aspects of PPV&FR Act, 2001 was provided by the Deputy Registrar with presentations, discussion and interaction. The farmers were also demonstrated to fill up the application forms for varietal registration. Dr. P.C. Deka, Programme Co-ordinator, KVK Sonitpur Mrs. Popy Borah SMS (PP) and Mr. A.K. Sarma SMS (Agronomy) also interacted with the farmers. A question answer session was also conducted and the queries of the farmers were satisfied. The farmers took keen interest and encouraged for registration of the farmers' varieties.

- **Research Advisory Group Meeting at RFRI, Jorhat**

16th Research Advisory Group Meeting at Rain Forest Research Institute (Indian Council of

Forestry Research & Education) was held on Jorhat on 12 November, 2014 wherein Deputy Registrar delivered a lecture on PPV&FR Act to the scientists.



- **Training-cum-Awareness Programme at KVK, Nagaon**

The programme was held on 27 November, 2014 at Conference Hall of KVK Nagaon. Mr. Pritom Rongpi, District Agricultural officer, Nagaon inaugurated the programme. Details of PPV&FR Act, 2001 were elaborated to the participants comprising of scientists, officers and farmers by Deputy Registrar, Guwahati.

Dr. N.S. Barua and Dr. R.N. Sarma, both Professors of Plant Breeding and Genetics, Assam Agricultural University, Jorhat were also invited and delivered their presentations on “**Plant Breeders Rights and Farmers’ Rights**” respectively. Dr. P.K. Deb Choudhury, Sr. Scientist, Regional Agricultural



Research Station, Shillongoni, (AAU) interacted with the farmers for submission of applications for registration. The farmers were also demonstrated to fill up the application forms by the Deputy Registrar.



The programme was attended by 81 participants including scientists, officers and farmers. Dr. B. Guha, Programme Coordinator, KVK, Nagaon, Mr. Biren Saikia, Assistant Director of Agriculture, Nagaon, Mr. N. Gogoi, Sr. ADO and Mr. R. Dutta , ADO and the scientists of the KVK also interacted with the farmers. The farmers were motivated for submission of applications for the notified varieties for registration.

- **Training-cum-Awareness Programme at KVK, Kamrup, (ZPD Zone III)**

The Zonal Project Directorate, Zone-III, Umiam, Meghalaya organized a three days programme





during 18-20 December, 2014 on **“Protection, Management and Conservation of Agro-Biodiversity in North East Region: Strategies and Issues”** at KVK, Kamrup, Kahikuchi, Assam. Dr. S. Paul, Scientist, ZPD-III, Umiam served as the Course Director in the training programme. On the first day, i.e. 18 December, 2014 was devoted for awareness cum training programme on **“Salient provisions of the Protection of Plant Varieties and Farmer’s Right Act, 2001”**. About eighty-two participants comprising of scientists from ICAR, professors, KVK scientists, NGO personnel, farmers and rural youth actively participated in the programme. Dr. S. Paul in his welcome address stated the importance of the programme in light of the present scenario of climate change and thereby invited active participation of all the stakeholders in the programme. Deputy Registrar explained to the participants the importance and different aspects of protection of plant varieties and other farmers’ rights.

The technical sessions of the programme consisted of lectures and practical exercise based classes in different thematic areas like protection of plant varieties through registration, protection of farmers’ rights, conservation of indigenous germplasm of field crops, vegetables, fruit crops,



flowers, medicinal plants etc. in NE region The farmers were given extensive training on PPV&FR Act. Dr. R. Bordoloi, Principal Scientist, Zonal Project Directorate , ICAR Umiam and Dr. D.N. Kalita, Programme Coordinator, KVK, Kamrup also delivered their speeches and requested the farmers to file applications for registration of the notified crops.

- **Training-cum-Awareness Programme at KVK Barpeta, Assam**

The programme was held on 30 December, 2014 at the conference Hall of KVK Barpeta located at Howly and attended by farmers of Barpeta district, V.L.E.Ws of Agricultural Department, NGO members, members of Assam Mahila Society, students and professors of Botany Department, B.H. College, Howly and the scientists of KVK Barpeta.

Dr. Kulranjan Deka, Principal, District Institute of Education and Training (DIET) , Howly was as Chairman in the discussion. Mrs. T.S. Begum, i/c Programme Coordinator, KVK Barpeta initiated the discussion on PPV & FR Act. Deputy Registrar,



Guwahati elaborated the details on PPV & FR Act, 2001 with interaction with the participants. Dr. Anjan Kumar Borah, SMS (Soil Science), KVK Barpeta elaborated regarding farmers rights and assured of submitting 16 application of the notified

varieties. Mr. Ratul Das, Farm Manager, KVK Barpeta, Dr. A.K. Sarma, Director, CRIJAF, Sorbhog (ICAR) and Dr. S.K. Sarma of Veterinary and AH Department, Assam, Mrs. Anjuma Gayan, SMS , KVK Barpeta also interacted with the farmers.

Reporters from print media were also present and the news was published in two leading dailies of Assam, viz., *Dainik Gana Adhikar* and *Asomiya Khabor*.

- **Workshop at Bioversity International, New Delhi.**



Deputy Registrar attended a training on the “**On Farm Seed Storage with the help of Desiccants**” on 9-10 December, 2014 at Bioversity International, New Delhi. Dr. Malavika Dadlani, Dr. Paul Quek and Dr. Arnab Gupta of Bioversity International, Dr. K. Keshavalu and Dr. Amtul Raheem of ANGRAU provided the detail training on use of desiccants, Community Seed Bank Management and documentation.

Dr. R.R. Hanchinal, Chairperson, PPV&FRA encouraged the participants with his presentation on Community Seed Bank. Dr. P.N. Mathur, Regional Director, Bioversity International, New Delhi also interacted with the participants and enriched them by his experience.

Ranchi

- **Applications received**

During the reporting period, the Branch office Ranchi has received 138 applications of Farmers’ varieties. The applications were forwarded to the Protection of Plant Varieties & Farmers’ Rights Authority (PPV&FRA) Headquarters after initial examination for further processing. The details are as under:

Status of Farmer Varieties Applications received for Registration

S. No	Crop	No. of application
1.	Turmeric	3
2.	Paddy	75
3.	Urdbean	7
4.	Indian mustard	4
5.	Field Pea	2
6.	Ginger	3
7.	Maize	16
8.	Rapeseed	2
9.	Pigeon Pea	4
10.	Brinjal	2
11.	Bottle Gourd	1
12.	Sesame	1
13.	Kidney Bean	3
14.	Lentil	1
15.	Chickpea	2
16.	Linseed	3
17.	Wheat	4



S. No	Crop	No. of application
18	Cauliflower	1
19	Sugarcane	2
20	Barley	1
21	Soybean	1
	Total	138

● **Seed Sample Received:-**

Branch office has received 55 seed received from KVK, Ram Krishna Mission, Morabadi, Ranchi; Bihar Agriculture University, Sabour; KVK, Vikash Bharti, Gumla and Seva Bharti Krishi Vigyan Kendra, Paschim Medinipur. Out of these samples, 51 sent to National Gene Bank, PPV&FRA, New Delhi; 3 samples (potato) sent to Central Potato Research Institute, Shimla and one seed sample of (Garlic) was sent to the Directorate of Onion & Garlic Research, Rajgurunagar, Pune for further processing:

S. No	Crop	No of varieties
1	Rice	21
2	Rapeseed	4

S. No	Crop	No of varieties
3	Wheat	1
4	Linseed	1
5	Lentil	3
6	Groundnut	1
7	Pumpkin	4
8	Chickpea	2
9	Potato	3
10	Garlic	1
11	Bottle gourd	1
12	Jute	3
13	Okra	1
14	Maize	1
15	Green gram	2
16	Pigeon Pea	1
17	Urad bean	1
18	Kidney bean	2
19	Sesame	1
20	Bitter Gourd	1
	Total	55

Training-cum-Awareness Programmes conducted during there above period are as per details under:

Date	Place	Chief Guest & representative of PPV&FRA	Topic
West Bengal			
15 Oct., 2014	ZPD – II, Kolkata	Dr. A.K. Singh, Zonal Project Director (ZPD), ICAR, Zonal Project Directorate, Kolkata Sh Uma Kant Dubey, Deputy Registrar, PPV& FRA, Branch Office Ranchi.	Workshop on salient provisions of Protection of Plant Varieties & Farmers' Rights Act, 2001 More than 75 participants including representatives of the all 30 KVKs were present



Date	Place	Chief Guest & representative of PPV&FRA	Topic
20 Oct., 2014	KVK, Purulia	Dr. S.L. Perumal, Chief-Coordinator, Kalyan KVK, Purulia Deputy Registrar, PPV& FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers' Rights Act), 2001 More than 60 farmers of Purulia and neighboring districts
Bihar			
6 Nov., 2014	KVK, Kishanganj	Sh. Animesh Kumar Parashar, District Magistrate Kishanganj Deputy Registrar, PPV& FRA, Branch Office Ranchi	Training-cum-Awareness Programme on salient provisions of Protection of Plant Varieties & Farmers Rights Act (PPV&FRA), 2001 More than 150 farmers of Kishanganj and neighboring districts
7 Nov., 2014	KVK, Lakhisarai	Dr. R.K. Sohane, Directorate (Extn), BAU Sabour Deputy Registrar, PPV& FRA, Branch Office Ranchi	Training-cum-Awareness Programme on important provisions of Protection of Plant Varieties & Farmers' Rights Act (PPV&FRA), 2001 More than 85 farmers of Lakhisarai and neighboring districts
8 Nov., 2014	KVK, Saran of Rajendra Agri Univ, Pusa, Smastipur	Dr. A.K. Singh, Zonal Projector, Zone-II ICAR Deputy Registrar, PPV& FRA, Branch Office Ranchi	Training-cum-Awareness Programme on salient provisions of Protection of Plant Varieties & Farmers Rights Act (PPV&FRA), 2001 More than 100 farmers of Saran and neighboring districts
28 Nov., 2014	KVK, Shrama Bharti Khadi Gram, Jamui	Sh. Sashikant Tiwari, District Magistrate Jamui Deputy Registrar, PPV& FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers' Rights Act (PPV&FRA), 2001 More than 100 farmers of Jamui and neighboring districts
29 Nov., 2014	Krishi Vigyan Kendra (KVK), Gram Nirman Mandal, Sarvodya Ashram, Sokhodevra, Nawada	Sh. Bibhu Vidyarthi, District Agriculture Officer Nawada	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers Rights Act (PPV&FRA), 2001



Date	Place	Chief Guest & representative of PPV&FRA	Topic
		Deputy Registrar, PPV&FRA, Branch Office Ranchi	More than 100 farmers of Nawada and neighboring districts
3-4 Dec., 2014	Krishi Vigyan Kendra (KVK), Dhanbad of Birsa Agri. Univ, Ranchi	Dr. R.P. Singh “Ratan” Director (Extension), Birsa Agriculture University (BAU) Ranchi Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers’ Rights Act (PPV&FRA), 2001 More than 100 farmers of Dhanbad and neighboring districts and About 75 farmers of Kaimur district
5 Dec., 2014	KVK, Kaimur, Bhabhua	Dr. Sadanand Roy, Programme Coordinator, Krishi Vigyan Kendra(KVK) Kaimur Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on important provisions of Protection of Plant Varieties & Farmers’ Rights Act (PPV&FRA), 2001 More than 65 farmers of Kaimur, Bhabhua and neighboring districts
10 Dec., 2014	(KVK), Garhwa of BAU, Ranchi	Dr. Devkant Prasad, Programme Coordinator, Krishi Vigyan Kendra (KVK) Garhwa Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers’ Rights Act and farmers’ rights More than 100 farmers of Garhwa districts
11 Dec., 2014	Chatra of BAU, Ranchi (Jharkhand)	Dr. R.P. Singh “Ratan” Director (Extension), Birsa Agriculture University (BAU) Ranchi Deputy Registrar, PPV&FRA, Branch Office Ranchi (Jharkhand).	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers’ Rights Act and filing applications for registration of farmers’ varieties More than 100 farmers of Jamui and neighboring districts
15 Dec., 2014	(KVK), Bokaro of BAU, Ranchi	Dr. Uday Kumar Singh, Programme Coordinator(PC), Krishi Vigyan Kendra (KVK), Bokaro Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers Rights Act and Awards, Rewards and Recognitions for farmers More than 100 farmers of Bokaro districts



Date	Place	Chief Guest & representative of PPV&FRA	Topic
16 Dec., 2014	Krishi Vigyan Kendra (KVK), Dumka of BAU, Ranchi)	Dr. Sushil Prasad, Addl. Director (Extension Education), Birsa Agricultural University (BAU), Ranchi Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers Rights Act and PGSC Awards, Rewards and Recognitions More than 100 farmers of Dumka districts
18 Dec., 2014	Krishi Vigyan Kendra (KVK), Saraikela Kharsawan of BAU, Ranchi (Jharkhand)	Mr. Kalipad Mahto, Project Director, Agriculture Technology Management Agency (ATMA) Saraikela Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers Rights Act and registration of farmers varieties More than 75 farmers of Saraikela Kharsawva districts
24 Dec., 2014	Krishi Vigyan Kendra (KVK), Ram Krishna Mission, Morabadi, Ranchi	Sh. Swami Bhaveshanand, Secretary, Ram Krishna Mission, Morabadi, Ranchi Deputy Registrar, PPV&FRA, Branch Office Ranchi	Training-cum-Awareness Programme on different provisions of Protection of Plant Varieties & Farmers Rights Act and farmers' rights More than 100 farmers of Ranchi districts

Plant Genome Saviour Community Awards

Selection Committee Meeting for screening of “**Plant Genome Saviour Farmers’ Reward and Recognition, 2013**” was held under the Chairmanship of Additional Secretary (Extension), Dept. of Agriculture and Co-operation, on 16 September, 2014 at NASC Complex.

Swatch Bharat Abhiyan

The staff members of the Authority came together and participated whole heartedly in the **Swatch Bharat Abhiyan**, a call made by the Hon’ble PM of India **Shri. Narendra Modi Ji** on 2 October,

2014. The staff took a pledge to keep the office, home and nearby premises clean and to avoid littering. They then undertook the cleaning of the whole of the office and its premises.

Legal Matter

Decision of the Hon’ble High Court of Delhi on registration of parental line extant hybrids: The Hon’ble High Court of Delhi has upheld the order of the Ld. Registrar that parental lines of extant hybrids cannot be considered under the new category. The judgement of Ld. Registrar and of Hon’ble Delhi High Court are of landmark in nature as they are against ever-greening of plant



variety protection. This judgement has facilitated the plant breeding in big way as parental lines of extant hybrids have to be filed within time specified under the law otherwise they will go into the public domain and enrich the gene pool. The detailed order of Delhi High Court may be accessed on the PPV&FR Authority Website:- plantauthority.gov.in.

Right To Information

During the October-December, 2014, the Authority received four applications either directly or through transfer from other Departments seeking information under RTI Act, 2005. The information sought was made available within the stipulated time.



List of 92 Crops species notified for registration

Sr. No.	Crop	Botanical name
1.	Rice/चावल	<i>Oryza sativa L.</i>
2.	Bread wheat/गेहूँ (चपाती)	<i>Triticum aestivum L.</i>
3.	Maize/मक्का	<i>Zea mays L.</i>
4.	Sorghum/Tokj	<i>Sorghum bicolor (L.) Moench</i>
5.	Pearl millet/बाजरा	<i>Pennisetum glaucum (L.) R.Br.</i>
6.	Chickpea/चना	<i>Cicer arietinum L.</i>
7.	Mungbean/मूंग	<i>Vigna radiata (L.) Wilczek</i>
8.	Urdbean/उड़द	<i>Vigna mungo (L.) Hepper</i>
9.	Fieldpea/मटर	<i>Pisum sativum L.</i>
10.	kidney bean/राजमा	<i>Phaseolus vulgaris L.</i>
11.	Lentil/मसूर	<i>Lens culinaris Medik</i>
12.	Pigeon pea/अरहर	<i>Cajanus cajan (L.) Millsp.</i>
13.	Indian mustard/सरसों	<i>Brassica juncea L. Czern & Coss</i>
14.	Karan rai/राई	<i>Brassica carinata A Braun</i>
15.	Rapeseed(toria)/रेप्सीड	<i>Brassica rapa L.</i>
16.	Gobhi sarson/गोभी सरसों	<i>Brassica napus L.</i>
17.	Groundnut/मूंगफली	<i>Arachis hypogaea L.</i>
18.	Soybean/सोयाबीन	<i>Glycine max (L.) Merrill</i>

Sr. No.	Crop	Botanical name
19.	Sunflower/सूरजमुखी	<i>Helianthus annuus L.</i>
20.	Safflower/कुसुम	<i>Carthamus tinctorius L.</i>
21.	Castor/अरंडी	<i>Ricinus communis L.</i>
22.	Sesame/तिल	<i>Sesamum indicum L.</i>
23.	Linseed/अलसी	<i>Linum usitatissimum L.</i>
24.	Diploid cotton/कपास (द्विगुणित कपास)	<i>Gossypium arboreum L.</i>
25.	Diploid cotton/कपास (द्विगुणित कपास)	<i>Gossypium herbaceum L.</i>
26.	Tetraploid cotton/ कपास (चतुर्गुणित कपास)	<i>Gossypium hirsutum L.</i>
27.	Tetraploid cotton/ कपास (चतुर्गुणित कपास)	<i>Gossypium barbadense L.</i>
28.	Jute/पटसन	<i>Corchorus olitorius L.</i>
29.	Jute/पटसन	<i>Corchorus capsularis L.</i>
30.	Sugarcane/गन्ना	<i>Saccharum L.</i>
31.	Black pepper/ कालीमिर्च	<i>Piper nigrum L.</i>
32.	Small cardamom/ छोटीइलाइची	<i>Elettaria cardamomom Maton</i>
33.	Turmeric/हल्दी	<i>Curumma longa L.</i>



Sr. No.	Crop	Botanical name
34	Ginger/अदरक	<i>Zingiber officinale</i> Rosc.
35	Tomato/टमाटर	<i>Lycopersion lycopersicum</i> (L.) Karsten ex. Farw.
36	Brinjal/बैंगन	<i>Solanum melongena</i> L.
37	Okra/भिन्डी	<i>Abelmoschus esculentus</i> (L.) Moench.
38	Cauliflower/फूलगोभी	<i>Brassica oleracea</i> L.var. botrytis
39	Cabbage/पत्तागोभी	<i>Brassica oleracea</i> L. var capitata
40	Potato/आलू	<i>Solanum tuberosum</i> L.
41	Onion/प्याज	<i>Allium cepa</i> L.
42	Garlic/लहसुन	<i>Allium sativum</i> L.
43	Rose/गुलाब	<i>Rosa spp.</i> (other than <i>R.damascena</i>)
44	Chrysanthemum/गुलदाउदी	<i>Chrysanthemum spp.</i>
45	Mango/आम	<i>Mangifera indica</i> L.
46	Duram wheat/डूयरम गेहूँ	<i>Triticum durum</i> Desf.
47	Dicoccum wheat/डिकोक्कम गेहूँ	<i>Triticum dicoccum</i> L.
48	Other Triticum species/अन्य ट्रिटिकम प्रजातियाँ	
49	Isabgol/इसबगोल	<i>Plantago ovata</i> Forsk
50	Menthol mint/पुदीना	<i>Mentha arvensis</i> L.

Sr. No.	Crop	Botanical name
51	Damask Rose/ इत्र गुलाब	<i>Rosa damascena</i> Mill
52	Periwinkle/सदाबहार	<i>Catharanthus roseus</i> L.
53	Brahmi/ब्राह्मी	<i>Bacopa monnieri</i> L.Pennell
54	Coconut/नारियल	<i>Cocos nucifera</i> L.
55	Orchids/आर्चिड	<i>Vanda</i>
56	Orchids/आर्चिड	<i>Dandrobium</i>
57	Orchids/आर्चिड	<i>Cymbidium</i>
58	Pomegranate/अनार	<i>Punica granatum</i> L
59	Orchid/आर्चिड	<i>Cattleya</i> Lindl.
60	Orchid/आर्चिड	<i>Phalaenopsis</i> Blume
61	Eucalyptus/सफेदा	<i>Eucalyptus camaldulensis</i> Dehnh.
62	Eucalyptus/सफेदा	<i>Eucalyptus tereticornis</i> Sm.
63	Casurina/जंगली सरु	<i>Casuarina equisetifolia</i> L
64	Casurina/जंगली सरु	<i>Casuarina junghuhniana</i> Miq.
65	Bitter Gourd/करेला	<i>Momordica charantia</i> L.
66	Bottle Gourd/लोकी (घिया)	<i>Lagenaria siceraria</i> (Mol.) Standl.
67	Cucumber/खीरा	<i>Cucumis sativus</i> L.
68	Pumpkin/कददू	<i>Cucurbita moschata</i> Duch. ex Poir.
69	Barley/जौ	<i>Hordeum vulgare</i> L.
70	Coriander/धनिया	<i>Coriandrum sativum</i> L.



Sr. No.	Crop	Botanical name
71	Fenugreek/मेथी	<i>Trigonella foenum graecum L.</i>
72	Almond/बदाम	<i>Prunus dulcis (Mill.) D.A. Webb</i>
73	Apple/सेब	<i>Malus domestica Borkh</i>
74	Pear/नाशपाती	<i>Pyrus communis L.</i>
75	Apricot/खुबानी	<i>Prunus armeniaca L.</i>
76	Cherry/चेरी	<i>Prunus avium L.</i>
77	Walnut/अखरोट	<i>Juglans regia L.</i>
78	Grapes/अंगूर	<i>Vitis spp.</i>
79	Indian jujube (Ber)/ बेर	<i>Ziziphus mauritiana Lamk.</i>
80	Tea/चाय	<i>Camellia sinensis</i>
81	Tea/चाय	<i>Camellia assamica</i>

Sr. No.	Crop	Botanical name
82	Tea/चाय	<i>C.assamica ssp lasiocalyx.</i>
83	Acid Lime/नींबू	<i>Citrus aurantifolia Swingle</i>
84	Mandarin/मौसमी	<i>Citrus reticulata Blanco</i>
85	Sweet Orange/संतरा	<i>Citrus sinensis (L.) Osbeck</i>
86	Bougainvillea/ बोगनविलिया	<i>Bougainvillea Comm. Ex Juss.</i>
87	Banana/केला	<i>Musa spp.</i>
88	Orchid/आर्चिड	<i>Oncidium Sw.</i>
89	Canna/केली	<i>Canna L.</i>
90	Gladiolus/ग्लेड्यूलस	<i>Gladiolus L.</i>
91	Muskmelon/खरबूजा	<i>Cucumis melo L.</i>
92	Watermelon/तरबूज	<i>Citrullus Lanatus (Thunb.) Mansf.</i>



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