



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

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From the Chairperson's Desk

I am extremely happy to place before you the third consecutive issue of the Newsletter for the period October–December, 2013. The purpose of this initiative is to keep update to all our Hon'ble stakeholders including farmers about the activities going on in the Authority on regular basis. I am profusely thankful to our Editorial Board especially Sh. D.S. Mishra, Member Secretary for taking pains and sincere efforts to gather continuously the relevant information from all officers, branch offices and various stakeholders and bring into shape of Newsletter for the benefit of updating our valuable readers.



During the last quarter, I have personally undertaken a special drive along with my officers including branch offices, Guwahati & Ranchi in the North-Eastern Hills, Bastar region in Chhattisgarh, Bundelkhand region and other agro-biodiversity hotspots in collaboration from KVKs and our DUS network available with ICAR, SAUs and ICFRE. I am pleased to share that the Authority have received a very encouraging response from all stakeholders in the registration of the farmers' varieties of different crops. The Authority has also screened the applications received for awards, rewards and recognition.

As, I mentioned in the earlier newsletter the Authority has submitted a proposal to the DAC for notification of additional 20 crops / species which will increase its registration basket to 77 crops / species from the existing 57. During the last quarter the Authority have issued 151 certificates including 38 to the farmers category.

I 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

Barley	Orchid-Cattleya	Orchid-Phalaenopsis	Eucalyptus	Casurina
Bitter gourd	Bottle gourd	Cucumber	Pumpkin	Indian jujube (Ber)
Coriander	Fenugreek	Grapes	Almond	Walnut
Apple	Pear	Apricot	Cherry	Pomegranate

Progress of Registry

Application Received

Applicant wise	No. of Applications	Category wise	No. of Applications
Public	67	New	100
Private	169	Extant	130
Farmers	923	Farmers	923
		EDV	6
Total	1159	Total	1159

Crop wise Application Received

Crop	No. of applications	Crop	No. of applications
Black Gram	9	Okra / Lady's Finger	42
Black Pepper	3	Orchid	3
Brinjal	30	Onion	1
Castor	1	Pearl millet	6
Cauliflower	17	Pigeon Pea	12
Chickpea	5	Potato	3
Coconut	5	Rapeseed	3
Cotton	6	Rice	766
Field Pea	4	Safflower	1
Garlic	4	Sesame	6
Ginger	5	Small cardamom	4
Green gram	4	Sorghum	35
Groundnut	1	Soybean	3
Indian Mustard	23	Sugarcane	5
Jute	1	Sunflower	16

Kidney bean	9	Tomato	65
Lentil	3	Turmeric	6
Linseed	3	Wheat	22
Maize	27	Total	1159

Registration Certificate Issued

Applicant wise	No. of Applications	Category wise	No. of Applications
Public	74	New	11
Private	39	Extant	102
Farmers	38	Farmers	38
		EDV	0
Total	151	Total	151

Crop wise Certificate Issued

Crop	No. of applications	Crop	No. of applications
Cotton	6	Rapeseed	8
Castor	1	Rice	65
Indian Mustard	16	Sesame	1
Linseed	2	Sorghum	2
Maize	2	Soybean	4
Pearl Millet	12	Sugarcane	23
Sunflower	9		151

Plant Variety Journal

Plant Variety Journal of India for the month of October– December, 2013 was published regularly and also uploaded on the website of the Authority in the first week of each month.

Visit to DUS Centres

Seed received for DUS testing

S. No.	Category	No. of varieties
1	New	131
2	VCK	40
3	EDV	28
4	Extant Notified	89
	Total	288

Seed sent for DUS testing

S. No.	Crop	No. of varieties
1	Sunflower	5
2	Potato	2
3	Onion	6
4	Wheat	4
	Total	17



Monitoring of DUS Test

- DUS Monitoring of sorghum trials was conducted on 1-2 October, 2013 by a team under the Chairmanship of Dr. R.C Sharma, Former



Dean, College of Horticulture, University of Horticulture & Forestry, Nauni, Solan along with Dr. Aruna C, Principal Scientist (Plant Breeding), Dr. Hariprasanna K, Senior Scientist (Plant Breeding) visited the *Kharif* trials at Directorate of Sorghum Research, Rajendranagar, Hyderabad. The Project Coordinator Dr. S.S. Rao, Director I/C, DSR, Hyderabad was also present. Representatives from private seed companies viz., Kaveri Seeds and Nuziveedu Seeds also attended the monitoring.

- Dr. Tejbir Singh, Registrar, PPV&FR Authority has visited at MPKV, Rahuri for Monitoring of sorghum crop on 3 October, 2013 and pearl millet on 4 October, 2013. The monitoring was conducted under the Chairmanship of Dr. P.A. Nawale.



- DUS Monitoring of rice was conducted at DRR, Hyderabad during 29-30 October, 2013. Dr. S.R. Dhua, Chairman, Monitoring team, former Principal Scientist, CRRI, Cuttack. Shri D.R. Choudhury, Joint Registrar, PPV&FR Authority.



- The DUS monitoring of brinjal trials was conducted on 30 December, 2013 under the Chairmanship of Dr. A. N. Maurya, former Director, Institute of Agricultural Sciences, BHU, Varanasi and Project Coordinator cum Nodal Officer Dr. B. Singh at IIVR, Varanasi. Nine representatives of different Private Seed Companies were participated. A total of 68 entries including 4 entries of second year were tested during the year 2013-14.





- DUS monitoring of cauliflower trials was held on 30 December, 2013 under the Chairmanship of Dr. A. N. Maurya, former Director, Institute Agriculture Sciences, BHU, Varanasi and Nodal Officer Dr. B. Singh. Three representatives of Private Seed Companies were participated. A total of 9 entries were tested during the year 2013-14, out of which 8 entries in second year & 1 new entry.



- **Brainstorming Session on Enriching the National Gene Fund:** A brainstorming session was organized under the Chairmanship of Dr. R.S. Paroda in ICAR Boards Room, NASC



Complex, New Delhi held on 14 October, 2013 to solicit the views of the various dignitaries on the subject including Dr. S. A. Patil, former DG, ICAR and Agriculture Advisor to State Government of Karnataka, Dr. S. L. Mehta, former Vice-Chancellor, Maharana Pratap Agriculture University, Dr. R.K. Chowdhury, former Project Director, NSP,



ICAR representative from NBA, Dr. P. Mathur, Biodiversity International and Dr. V. Sadamate, former Advisor, Planning Commission. Chairperson, PPV&FR Authority, Registrar General, Registrars and Joint Registrars. The final recommendations were sent to DAC for consideration.

During the meeting the first issue of the Newsletter of the Authority was also released by Dr. R.S. Paroda, Chairman, Haryana Kisan Aayog and TAAS, New Delhi.

Training and Awareness Programmes

- National Skills Foundation of India organized





'Global Agri. Connect-2013' at IARI, New Delhi, from 25-27 October, 2013. Dr. Tejbir Singh, Registrar, Dr. Amit Dixit and Sh. Tammu Stephen from PPV&FR Authority participated in the event by putting a stall in exhibition displaying various activities of the Authority along with posters, charts and publications brought out by the Authority. Free pamphlets were also distributed to the visitors/ farmers.

- International Krishi Mela was organized GKVK, Hebbal, Bangalore from 7-11 November, 2013 wherein Dr. Tejbir Singh, Registrar participated in the Krishi Mela and also showcased various activities of the Authority through charts, posters and publications for the benefits of the visitors at Krishi Mela.



- **International Conference on Global IPR System and WTO Issues at Chaudhary Charan Singh University, Meerut:** An International Conference on "Global IPR System and WTO Issues" was organized by the IPR Cell of Chaudhary Charan Singh University Campus, Meerut (UP) from 16-17



November, 2013. The conference was presided by the Honourable Justice Sh. O.P. Verma, Former Governor of Punjab, Honourable Vice-Chancellor of CCSU, Meerut, Sh. V. C. Goel and Vice Chancellor, SVPUA&T, Meerut, Dr. H.S. Gaur also graced the occasion. On the invitation from the University Dr. Manoj Srivastava, Registrar, PPV&FR Authority, New Delhi made a presentation on "**Plant Variety Protection in India: An Overview**" in the conference for the benefits of the civil societies including lawyers. Dr. Tejbir Singh, Registrar, Dr. D. S. Pania, Technical Assistant, Ms. Vijaya Choudhary, STO also participated in the conference. An exhibition of PPV&FRA was also arranged at the venue, important charts, literature, brochures, pamphlets, guidelines and other published material was displayed and distributed to the interested persons. A documentary on the provisions of the PPV & FR Act "Nukkad Natak" was also shown to the participants in the conference which was highly appreciated. Dr. Manoj Srivastava was one of the Guest of Honours along with other dignitaries.

- Dr. Tejbir Singh, Registrar, PPV&FR Authority delivered a lecture on PPV&FR Act and Farmers Rights for the creation of awareness among the farmers and other stakeholders on 26 November, 2013 at RHRS, Mashobra, Shimla.

Training cum Awareness program at CAZRI



Regional Research Station, Bhuj (Kachchh). Central Arid Zone Research Institute (CAZRI) organized one-day awareness-cum-training programme on “Protection of Plant Varieties & Farmers’ Rights” at Regional Research Station (RRS), Kukma, Bhuj (Gujarat) on 13 December, 2013. Dr. R.R. Hanchinal, Chairperson, Protection of Plant



Varieties & Farmers’ Rights (PPV&FR) Authority, New Delhi active participation and told them about various awards of the Authority to be conferred to the farmers and specially requested the women farmers to come forward for protecting the plant varieties wealth of the region. He has also released a brochure in Gujarati on Protection of Plant Varieties & Farmers’ Rights Act. Sh. Trikam Bhai Chhanga, Pramukh, Zila Panchayat, Bhuj as the Chief Guest briefed about the horticulture sector improvement in Kachchh and assured that the farmers of this area will definitely be benefitted with the protection of their plant varieties and rights. Dr. M. M. Roy, Director, CAZRI highlighted about the CAZRI’s involvement and commitment in the

proper implementation of this Act in the region, research projects executions in this aspect and future perspective. Dr. Devi Dayal, Head, CAZRI, RRS, Bhuj and Dr. R.K. Bhatt, Principal Scientist & Principal Investigator, CAZRI, Jodhpur also addressed the gathering. Dr. Devi Dayal, Head, CAZRI, RRS, Kukma narrated about the local plant varieties available only in Kachchh region such as Wheat - Tukda/Kantha, Groundnut - Magadi, Sorghum - Gundari, Pearl Millet - Rajka Bajri, Guar - Desi Guar (pink colour), and medicinal plants (Guggal, Geloy, and Shankhpushpi), etc., which are still not registered. About 150 participants comprising 25 women farmers and other stakeholders participated in this training programme.

- **Training-cum-Awareness program at UAS, Bangalore:** A one day training-cum-awareness programme on PPV & FR Act, 2001 organised at GKVK, Bangalore on 21 December, 2013 at



GKVK, Bangalore. More than 200 participants viz Scientists of Plant Genetic & Resources Department, Biotechnology Department, Students, Researchers and progressive farmers participated in the programme. Dr. R. R. Hanchinal, Chairperson, PPV & FR Authority was invited as Chief Guest and Hon’ble Vice-Chancellor, Director of Extension and Director of Research of GKVK, Bangalore also graced the occasion. Dr. Ravi Prakash, Registrar and Shri D. S. Rajganes, Legal Advisor, PPV & FR Authority were also present in the event and



highlighted the importance of the registration of farmers varieties and legal provision under PPV & FR Act, 2001. An exhibition was also showcased by the Authority where seeds of farmers' varieties were displayed and posters and charts and other literature was shown. The Nukkad Natak and documentary on agro-diversity were also screened for benefits of the participants.

- **Awareness program at KVK Hulkoti on 14 & 28 December, 2013** K.H. Patil Krishi Vigyan Kendra, Hulkoti in Gadag district of Karnataka organized Awareness cum training programme on the provisions of Protection of Plant Varieties



& Farmers' Rights Act, 2001 for stakeholders including farmers on 28 December, 2013. The event was inaugurated by Dr. R.R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers Rights Authority, New Delhi. He called upon the farmers to register the traditional seed varieties and avail the benefits of PPV & FR Act, 2001. He informed that the traditional seed varieties can be used to develop new varieties which can bring food and nutritional security to the people.

Shri C.B. Balaraddi, Joint Director of

Agriculture, Karnataka State Department of Agriculture among the farming community. Shri C.R. Budihal, President of Chenna Veereshwar, Seed Bank participated as the Guest and urged the State Government to initiate the measures to take up seed production programme of traditional seed varieties

The programme was presided by Shri Raju C. Koravanavar, Director of Dharitri, an organization involved in promotion of traditional seed varieties. Dr. L.G. Hiregoudar, Programme Coordinator spoke on objectives of organizing the programme. After the inaugural programme, orientation program to the farmers on provisions of Protection of Plant Varieties and Farmers' Rights Act, 2001 was organized. Resource material in Kannada language on the activities of PPV & FR Authority was supplied to farmers. On this occasion an Exhibition of traditional seed varieties conserved by the farmers was also arranged and it was inaugurated by Dr. R.R. Hanchinal, Chairperson, PPV & FR Authority, New Delhi. KVK felicitated 13 farmers of Gadag district who were involved in production and conservation of traditional seed varieties. The applications of these farmers for registration of their varieties have been already submitted to PPV & FR Authority.

The traditional seed varieties of crops viz; jowar, wheat, maize, green gram, Bengal gram, cowpea, pea, black gram, groundnut, brinjal etc., were exhibited

- **MPKV, Rahuri:** A one day training-cum-awareness programme was organised at Rahuri on 19 October, 2013 where Hon'ble Chairperson of the Authority was the Chief Guest. On this Occasion Vice-Chancellor, MPKV along with his senior colleagues was also present. The programme was attended by the large number of local farmers and an exhibition was also



arranged where the seeds of traditional and farmers varieties were displayed. Farmers were given training for the filing of the application and made aware about the provision of the PPV & FR Act, 2001 and Farmer's Rights therein. The Nukkad Natak and documentary on agro-diversity prepared by Authority were also screened and shown to the participants. During the meeting clarifications to the queries raised by different stakeholders including farmers were clarified.

- Visited onsite **Seed Saver Farmers Group in Jawahar block**, Dr. Manibhai Desai Nagar, Warje, BAIF Bhavan, Thane, Maharashtra along with Chairperson & Registrar-General of the Authority on 20 October, 2013. During the visit community gene bank maintained by the seed saver farmers and discuss with the farmers engaged in preservation and conservation of the Plant Genetic Resources.
- **Navsari Agriculture University (NAU), Navsari:** A one day Training-cum-Awareness programme was organised by KVK, Krishi Vigyan Kendra, NAU, Navsari on 21 October, 2013. Hon'ble Chairperson of the Authority, Vice-Chancellor, MPKV, Registrar-General and Dr. Ravi Prakash, Registrar, PPV&FR Authority also attended the programme. The programme was participated by the large number of local farmers and exhibition was also arranged where the seeds of farmers varieties was displayed. Farmers were trained for filling of the application and made aware about the provisions of the PPV & FR Act, 2001 and Farmers' Rights. The Nukkad Natak and Documentary on Bio-diversity were also screened and shown to the participants. Detail discussion on each and every point of application form for registration of farmers varieties were discussed.

- **Anand Agricultural University (AAU), Gujarat:** A one day training-cum-awareness programme was organised by Anand Agricultural University at their campus on 22 October, 2013. Hon'ble Chairperson of the Authority was the Chief Guest and was present with Dr. R.C. Agrawal, Registrar General. On this event the Vice-Chancellor of the University and other senior officers of the University were also present. The programme was attended by the large number of students of the University, research scholars, faculties and local farmers. During this training an exhibition of seeds of local and traditional varieties conserved by the farmers was also displayed.

DUS Review Meeting

- A brainstorming session to review the DUS procedure and financial support mechanism was held under the Chairmanship of Prof. S. K. Datta, DDG (Crop Sciences), ICAR on 5 December, 2013 at NASC Complex, New Delhi. Apart from Prof. R. R. Hanchinal, Chairperson; Dr. R. C. Agrawal, Registrar General, Registrar(s) and other officers of the Authority, several other dignitaries, including Dr. Atanu Purakasyastha, Joint Secretary (Seeds), DAC; Dr. Indu Sharma, Project Director (Wheat); Dr. O. P. Yadav, Project Director (Maize), Dr. S. Rajendra Prasad, Project Director (Directorate of Seed Research); Dr. N. K. Dadlani, Director(NSAI); representatives from Seed Industry, Nodal officers (DUS) and several other scientists from ICAR Institutes / SAUs and officials from DAC participated. Shri Dipal Roy Choudhury, Joint Registrar, PPV&FRA made a brief overview on the preparatory phase (2001-08) and developments post 2008, physical and financial aspects of DUS centres, procedures adopted for DUS testing and



comparison of the DUS-VCU system. It was followed by a discussion and exchange of views on the manner of maintenance of DUS centres and DUS testing.

Dr. Swapan K. Datta, DDG (ICAR) & Chairman of the brainstorming session, opined that it is an established fact that the principles and procedures adopted for AICRP and DUS are fundamentally different. AICRP under ICAR created an infrastructure mainly to identify varieties for Value for Cultivation and Usage (VCU). It was decided that a Committee under the Chairmanship of Dr. R. K. Chawdhary, Former Project Co-ordinator (NSP) will further examine the issue of DUS testing and maintenance of centres by Co-opting Dr. O. P. Yadav, Project Director (Maize) and Dr. N.K. Dadlani from NSAI and recommend to the Authority.

● **19th Meeting of the Authority:** During



the 19th Meeting of the Authority held on 18 October, 2013 at NASC Complex, New Delhi, the proposal for expenditure for supporting the conservation and sustainable use of Plant Genetic Resources (PGR) for *in-situ* and *ex-situ* conservation for strengthening the capability of the Panchayats and local bodies in carrying out such conservation and sustainable use and for capacity building on *ex-situ* conservation in agro-biodiversity hotspots was discussed at length and it was decided

that a Committee may be constituted under the Chairmanship of Dr. B. S. Dhillon, Vice Chancellor, Punjab Agricultural University, Ludhiana for examining and submitting the recommendation in this regard.

Members unanimously emphasized for extensive training-cum-awareness programme about the PPVFR Act, 2001 especially at district / state level for the benefit of the farmers, breeders, seed industry, policy makers and other functionaries related to seed development. It was also decided by the Authority to have a brainstorming session for the review of existing DUS Testing policy and to submit the recommendations for the consideration of the Authority in its next meeting. During the said meeting, the Annual Accounts and Annual Report for the year 2012-13 of the Authority were approved and also adopted.

Chairperson participation

Prof. R. R. Hanchinal, Chairperson, PPV&FRA,



New Delhi visited DMAPR, Anand on 22 October, 2013. Dr. R.C. Agrawal, Registrar General, PPVFRA also accompanied the Chairperson. He visited DUS experimental field and Medicinal Plants Botanical Garden at Lambhvel farm and also visited various Laboratories of DMAPR at Boriavi. He keenly observed the various distinct characters and lines identified in Kalmegh (*Andrographis*



paniculata Nees.) and expressed his satisfaction in the progress of work at the Centre and advised to submit the descriptors of the same at the earliest. He also visited the Botanical garden and field gene bank maintained at Directorate and showed his keen interest in the medicinal plant collections and appreciated the Directorate's effort in conserving the important wealth of the Country. A sapling of Karambola (*Averrhoa carambola* L.) was planted in the Botanical garden to commemorate his visit at DMAPR. Later, the Chairperson addressed the scientists and reminded about the great role of Indian medicinal plants and traditional systems of Medicines in keeping the health of millions of rural people. He opined that it is very important to find out the scientific base of therapeutic action of our major medicinal plants for getting the international attention. He congratulated the Director and his team for their effort in this direction.

Foreign Visits

- **Seminar of UPOV in Sri Lanka: A seminar on 'Benefits of Plant Variety Protection Systems Inline with the UPOV Convention'** was jointly organized by Department of Agriculture (DOA), Sri Lanka, UPOV, Geneva, USPTO, USA & Ministry of Agriculture, Forestry & Fisheries (MAFF), Japan on 25-26 November, 2013 at Plant Genetic Resources Centre (PGRC),



Gannoruwa, Peradeniya, Sri Lanka. On the invitation of the UPOV a Indian delegation consisting by Dr. R.R. Hanchinal, Chairperson, PPV&FR Authority and Shri R.K. Trivedi, Deputy Commissioner (Quality Control), DAC and Dr. S. Maurya, ADG (IPR), ICAR and Dr. Sudhir Kochhar, National Coordinator, NAIP, ICAR attended the seminar and updated with regards to the implementation of PPV&FR Act in India.

Foreign Visitors

- **Dr. Marie Haga, Executive Director, Global Crop Diversity Trust, Germany** along with her team members **Mr. Michael Fredrich Wilhelm Koch and Mr Luigi Maria Guarino** met Dr. R. R. Hanchinal, Chairperson at his office on 20 November, 2013. The discussions touched upon





various provisions of the PPV&FR Act, 2001, progress of the Authority in implementing the Act with special emphasis on farmers' varieties and its registration. Areas of mutual co-operation were also discussed and explored. Dr Prem Mathur, South Asia Coordinator, Bioversity International and Dr R C Agrawal, Registrar General, PPV&FRA were also present during the discussions.

- German Delegation visit to India from 2-6 December, 2013. A high level German delegation led by **Mr. Udo von Kröcher**, President, Federal Office of Plant Varieties (Bundessortenamt) visited PPV&FR Authority on 5 December, 2013 at NASC Complex, New Delhi. The delegation consisted of seven members including **Ms. Birgit Risch**, Head of Division South and Southeast Asia, Federal Ministry of Food, Agriculture and Consumer Protection; **Mr. Dieter Rücker**, Head of Division International Affairs, German Plant Breeders' Association (BDP) accompanied by **Ms. Sabine Raddatz**, Counsellor Food, Agriculture and Consumer Protection, Embassy of Germany, New Delhi. In the meeting the areas of mutual cooperation between the two countries in the field of Protection of Plant Varieties, Plant Breeders' Rights, DUS Testing and Capacity Building were discussed. Dr. Atanu Purkaystha, Joint Secretary (Seeds), Department of Agriculture & Cooperation reviewed the overall progress of bilateral co-operation between the two countries with all the stakeholders including representatives of NBPGR, NSC, SFCI, NSAI and PPV&FR Authority on 6 December, 2013 in Krishi Bhawan.



News for Branch office

Guwahati

- **Training-cum-Awareness Programme at Mizoram:** To create awareness on various provisions of the PPV&FR Act, 2001 amongst the farmers, farming communities, scientists and government officials, two awareness programmes were conducted at Mizoram on



5-6 December, 2013. Mr. C. Lalniliana, Director of Agriculture (Res.&Edu.), Govt. of Mizoram was also present. Awareness Programme was attended by more than 50 participants including Programme Coordinators, Subject Matter Specialists, Farm Managers of all **Krishi Vigyan Kendras** of Mizoram on 5 December, 2013. An interaction session was also conducted wherein the Director of Agriculture (Research and Education), Govt. of Mizoram also participated in discussion. On second day ie,





6 December, 2013 the training-cum-awareness programme was organized by KVK, Serchhip and attended by 121 participants including farmers, leaders of farming communities, office bearers of all Mizoram Farmers' Union, scientists of KVKs and officers of the Agriculture and Horticulture Department of Mizoram.

The event was inaugurated by Shri Pu Lalram Thanga, Principal Secretary (Agriculture), Govt. of Mizoram, Dr. C. Lazzariliana, Director of Agriculture, (Crop Husbandry), Mizoram was the Guest of Honour. Shri Pu C. Lalniliana, Director of Agriculture (R&E), Mizoram delivered his welcome speech as Chairman during the Technical Session.

The Principal Secretary, Govt. of Mizoram highlighted the importance of protection of plant varieties and their conservation. He also requested



the officers and the scientists for assisting the farmers and farming communities to file the applications for the crops / species for registration, which have been notified with the Authority. The President and General Secretary of All Mizoram Farmers Union (AMFU) Mr. Joseph H. Thanzuala and Mr. Zion Lalremruata also participated the training programme and handed over a set of 47 applications for registration of rice farmers' varieties.

In a special drive undertaken in the North-Eastern Region, the PPV&FR Authority made

concerted efforts for registration of the farmers' varieties for a week (12 – 16 November, 2013). During this period Dr. R.R. Hanchinal, Chairperson along with Dr. R.C. Agrawal, Registrar General, Dr. Ravi Prakash, Registrar and Dr. A.C. Sarma, Deputy Registrar were also present and several workshops were conducted in Manipur, Nagaland and one in Jorhat in Assam. The details of the Workshops/ Brainstorming Session / training-cum-awareness programmes are as under:-

- North-Eastern Hill Region Seed Meeting and training was held at the Conference Hall of ICAR, Manipur on 12 November, 2013. The forenoon session was chaired by Dr. S.V. Ngachan, Director, ICAR Research Complex for North Eastern Hill Region, Umiam, Meghalaya



and Dr. M. Datta, Joint Director, ICAR, Tripura as Co-Chairman. In the Morning session there were four presentations from Arunachal Pradesh, Mizoram, Nagaland and Sikkim Centre of ICAR.

- Dr. R.R. Hanchinal, Chairperson, PPV&FR Authority chaired in the afternoon session and Dr. S. Rajendra Prasad, Director of Seed Research, Mau as Co-Chairman of the session Meghalaya, Tripura and Manipur Centre of ICAR presented their presentations. There was also discussion on seed production for farmers'



varieties. The scientists of all seven ICAR NEH Research Stations attended the meeting.

- A **Brainstorming Session** on registration on Farmers' and extant varieties was organized by ICAR, Manipur on 13 November, 2013.



Dr. N. Prakash, Joint Director, ICAR Manipur welcomed the dignitaries. Chairperson, Registrar General and Registrar made their presentations on different areas with regards to



farmers' rights, benefit sharing and registration. Dr. S.V. Ngachan, Director, ICAR (NEH), Umiam and Dr S. Rajendra Prasad, Director of Seed Research, Mau encouraged the farmers for registration of their farmers' varieties for conservation as plant wealth of India. The awareness program witnessed participation of more than 200 persons including farmers and scientists from the region. All Manipur Trained Medicinal and Aromatic Plants Promoters Consortium (AMAPCON) handed over 157 rice farmers' varieties for registration to Dr. RR Hanchinal, Chairperson in the meeting. A farmers' fare was also organized where the farmers of Manipur displayed their valuable crop species and also the indigenous agro-products.

- **Training-cum-Awareness programme** was organized by KVK, Phek, Nagaland on 14 November, 2013 at CBCC Hall, Pfutsero, Nagaland. Dr. R.K. Singh, Programme



Coordinator, KVK, Phek welcomed the dignitaries. Chairperson, Registrar General and Registrar, Farmers' Rights addressed the audience. Dy. Registrar demonstrated the filling up of the application form for the registration. The training was also attended by Mr. Khazi-Lea, President, Phek Farmers' Association, Mr. Hewoto Sema DAO, Phek, Govt. of Nagaland KVK Phek scientists and



farmers. Local farmers of the area assured of their co-operation and submitted more than 80 applications to Guwahati branch office after getting endorsement of the District Agricultural Officer. The farmers displayed the unique collection of varieties for different crops cultivated by them.

- ICAR Research Complex for NEH Region, Nagaland Centre organized a training-cum-awareness programme on PPV&FR Act on **15 November, 2013**. Dr Bidyut C. Deka, Joint



Director, ICAR, Nagaland, Scientists of ICAR, Nagaland and KVK, Nagaland, Agriculture officers and farmers were present. More than 100 participants including farmers, scientists and students were present. About 60 applications for registration of farmers varieties of rice were

received. The Joint Director, ICAR, Nagaland assured of forwarding applications to branch office after completing the endorsement.

- **Training-cum-Awareness programme** was held at **Assam Agricultural University, Jorhat** on 16 November, 2013. More than 200 participants comprising of farmers, scientist,



professors and state agricultural officers were present. About 50 applications were received for registration. A field visit to the rice DUS test plot was also arranged at AAU, Jorhat. The Chairperson also availed the opportunity to visit the Rain Forest Research Institute (ICFRE), Jorhat to take stock of development of DUS test guidelines of bamboo, a project assigned by the Authority.





- **Second meeting of Task Force on developing DUS test guidelines of citrus** was held on 18 November, 2013 at Committee Room No. III NASC Complex, New Delhi under the



Chairmanship of Dr. V.A. Parthasarthy, and Dr. S.N. Pandey & Dr. Umesh Srivastava, former ADGs (Horticulture), ICAR, Dr. H. Ravishankar, Director, CISH, Lucknow and Dr. I.P. Singh, Principal Scientist and Principal Investigator (PI) of the Citrus Project from NRC on Citrus, Nagpur as members of the Task Force were also present. Dr. R.R. Hanchinal, Chairperson and Dr. R.C. Agrawal, Registrar General of the Authority also attended the meeting along with the officers of the Authority. Dr. I.P. Singh, PI made a detailed presentation on the DUS guidelines of acid lime and mandarin. The Task Force discussed detailed descriptors under the guidelines and extensive suggestions were made by members. Chairman of the Task Force requested the PI to include the various suggestions given in the meeting

and circulate the draft guidelines amongst the members within another one week time for their early finalization.

- **Training-cum-Awareness programme** of PPV & FRA was held at KVK, Kanker under the Chairmanship of Dr. J.S. Urkurkar, Director



of Extension Services (DES), IGKV, Raipur on 1 December, 2013. Dr. R. R. Hanchinal, Chairperson was the Chief Guest and Dr. Anupum Mishra, ZPD Zone VII ICAR, Dr. Ravi Prakash Registrar, Dr. Umakant Dubey, Deputy Registrar, PPV&FR Authority, Dr. S. R. Patel, Dean, College of Agriculture, Kanker, Dr. Deepak Sharma, Pr. Scientist, Shri Mayaram Netam, Member of PPV & FRA were also present.

At the outset of programme, Dr. J. S. Urkurkar, DES, IGKV, Raipur welcomed all the dignitaries on





the behalf of IGKV and briefed about the scenario of the Chhattisgarh topography and possibility of availability of plenty local farmers' varieties especially in Kanker district. Dr. Deepak Sharma, Pr. Scientist, IGKV, Raipur highlighted the present status of conservation of plant varieties by University and also appreciated for collection of Dawar dhan (red rice) which is found in the Kanker district. These are rich source of Iron and used for diabetes patient in traditional ways.

Dr. Ravi Prakash, Registrar, New Delhi, explained the Rules and Regulations under PPV&FR Act, 2001 with the procedure of registration of plant varieties to farmers explaining filling the application for registration. A documentary film on provisions of PPV &FR Act, 2001 specifically in reference to farmers' rights was shown to farmers which was highly appreciated by the farmers to know their rights and how to take benefits of the same as enshrined in the Act, 2001 by way of preservation of the local varieties.

Dr. R. R. Hanchinal, Chairperson, PPV&FRA appreciated the work carried out on conservation of red rice, Dhania dhan, Lamker dhan by the farmers of Kanker district during the visit of stall arranged at KVK, Kanker. He congratulated to KVK, Kanker for receiving Zonal Award and urged that most of the farmers of the area must be registered with Authority for their local varieties through Krishi Vigyan Kendra, Kanker, to protect the prestigious plant wealth available in the form of traditional varieties of the area. About 125 farmers of the district, officers of State Department of Agriculture and scientists of KVK, Kanker were present.

Ranchi

- **Training-cum-Awareness programme organised by Indian Council of Agricultural Research (ICAR), Research Complex for**



Eastern Region Research Centre, Plandu, Ranchi (Jharkhand): Shri Umakant Dubey, Deputy Registrar delivered a lecture on PPV&FR Act, 2001 in one day training-cum-awareness programme organized by Indian council of Agricultural Research (ICAR) Research Complex for Eastern Region, Research Centre, Plandu, Ranchi (Jharkhand), on 8 October, 2013. The lecture was on PPV&FR Act, 2001 with special focus on Plant Variety registration including farmers' variety and different awards and rewards given to farmers for their contributions in the conservation & preservation of plant genetic resources. There were over 80(eighty) farmers of Jharkhand and West Bengal and scientists from the research Centre.

- **Training-cum-awareness programme as Krishak Pathshala:** Shri Umakant Dubey,





Deputy Registrar made a presentation on PPV&FR Act in the training-cum-awareness programme organized as “**Krishak Pathshala**” by Agricultural Technology Management Agency (ATMA), Department of Agriculture, Government of Jharkhand on 23 October, 2013 at Village & Panchayat–Huppu, Block–Gola, Dist.–Ramgarh. During the meeting, farmers, villagers and Gram Pradhan of the area were present. The farmers were sensitized about the various provisions of the PPV&FR Act, 2001 including registration of farmers’ varieties and the importance of their traditional varieties. The farmers were also explained about Plant Genome Saviour Community Awards, Plant Genome Saviour Farmer Reward and Plant Genome Saviour Farmer Recognition Certificates to be conferred by the Authority to the farmers and their communities for their contributions to the conservation and preservation of Plant Genetic Resources in the form of landraces, farmers’ varieties, traditional varieties, wild species etc.

- **Participation in Indian council of Agricultural Research (ICAR)- Industry Meet:** ICAR Research Centre for Eastern Region Research Centre, Plandu, Ranchi (Jharkhand) has organised one day ICAR-Industry Meet on 16 November, 2013. Deputy Registrar, Ranchi availed an opportunity to use the above forum and highlighted the provisions of PPV&FR Act, 2001 and farmers’ rights, benefit sharing, compensation to different stakeholders including farmers. Information was also provided for plant variety registration process, awareness programmes, different kind of awards constituted by the Authority.
- **Training-cum-awareness programme in Chhattisgarh:** Three training-cum-awareness

programmes of one day each were organized by **Indira Gandhi Krishi Vishwa Vidyalaya, Raipur** at its **KVK, Kanker, KVK, Jagdalpur (Bastar)** and at the Auditorium of Indira Gandhi Krishi Vishwa Vidyalaya on 1, 2 & 3 December, 2013 respectively.



A large number of farmers with their exhibits of agro diversity and farmers’ varieties were present. Dr. R.R. Hanchinal, Chairperson, Protection of Plant Varieties’ and Farmers’ Rights Authority (PPV&FRA), New Delhi was the Chief Guest and Dr. Ravi Prakash, Registrar, PPV&FR Authority was also present during these programme. Shri Umakant Dubey, Deputy Registrar, Ranchi also participated in these training-cum-awareness programmes. A large numbers of scientists, government officials, farmers including women & tribal farmers participated. Dr. R.R. Hanchinal, Chairperson, PPV&FR Authority in his opening remarks informed the objectives of the PPV&FR Act and made a presentation before the scientists and encouraged them for registration of farmers’ varieties of the state. Dr. S.K. Patil, Vice Chancellor, IGKV, Raipur with his colleagues also addressed the audience.

- **Sensitization workshop on PPV&FR Act, 2001:** A one day sensitization workshop on Protection of Plant Varieties and Farmers’ Rights Act, 2001 was organised by Zonal Project Directorate Zone -2, ICAR, Kolkata on 17 December, 2013 at the Farmers Training Centre (FTC), Bidhan Chandra Krishi Vishwa Vidyalaya (BCKV), Kalyani, Nadia (WB).

In the sensitization programme, there were participation of Project Co-ordinators (PCs) and Subject Matter Specialists (SMSs) of 20 Krishi



Vigyan Kendras (KVKs) from Bihar, West Bengal & Jharkhand. Apart from the KVK's, scientists and officials of zonal project Directorate, Kolkata, farmers from West Bengal and some scientists from BCKV were also present. During the sensitization workshop, Dr. Ravi Prakash, Registrar informed about the registration of farmers' variety, Rights of farmers, protection period, benefit sharing, compensation and filling of application form and its endorsement by the notified officers. He also made a presentation highlighting the activities of the Authority.

Shri Dipal Roy Choudhury, Joint Registrar made detailed presentation on Protection of Plant Varieties and Farmers' Rights Act, 2001 particularly on DUS Test, essential characters, grouping characters, Gene Bank, Gene Fund, DUS Centre, Field Gene Bank and other relevant provisions in the Act in the local language.



- **Progress about Farmers' Varieties:** Branch office Ranchi has received 92 (ninety-two) applications of farmers' varieties of rice and the same have been forwarded to the Headquarters for examination and further processing. Three applications one each of cauliflower, rice and tomato in the category of Extant Varieties were also received and sent to Headquarters.



- **Sensitization workshop on PPV & FR Act, 2001 at KVK, Kanpur:** Sensitization workshop on PPV & FR Act, 2001 at Zonal Project Directorate-IV, KVK, Kanpur on 22 November, 2013. Workshop was attended by Dr. A.K. Singh, Zonal Project Director, Project Coordinator and Subject Matter Specialist (SMSs) of more than 50 Krishi Vigyan Kendra of Uttar Pradesh and Uttarakhand. During the programme two presentations on PPV & FR Act, 2001 and Farmers' Rights were made. Detail discussion on each and every point of application form for registration of farmers' varieties was discussed. The Nukkad Natak and documentary on agro-diversity were also shown to the participants. Dr. A. K. Singh, Zonal Project Director has instructed all the KVKs to conduct the farmer's training programme for filling of the application for registration of farmer's varieties.

- **Training-cum-Awareness programme at SHIATS, Allahabad:** Training-cum-Awareness





programme was organised at SHIATS, Allahabad on 25 November, 2013 in the Auditorium of Biotechnology Department of the University. Pro-Vice-Chancellor of the University graced the occasion as the Chief Guest. More than 150 participants viz. scientists of Plant Genetic & Resources Department, Biotechnology Department, students, researchers and progressive farmers participated in the programme. Dr. Ravi Prakash, Registrar, PPV&FR Authority made a presentation on PPV&FR Act, 2001 and farmers' Rights and also showed the audio visual documentary on agro-diversity and Nukkad Natak. The farmers and students present in the training appreciated the efforts of the Authority in educating and sensitizing the farmers' rights.

- **Workshop on PPV & FR Act, 2001 organised at Zonal Project Directorate-VII, KVK, Jabalpur** on 30 November, 2013. Dr. R. R. Hanchinal, Chairperson, PPV & FR Authority was Chief Guest, and Hon'ble Vice-Chancellor, JNKVV, Jabalpur, Director of Extension and Director of Research were also present. Dr. Anupam Mishra, Zonal Project Director, Project Coordinators and Subject Matter Specialists (SMSs) and progressive farmers for the various KVKs participated in the programme. During the programme presentations on PPV & FR Act, 2001 and farmers' Rights were made. The Nukkad Natak and Documentary on agro-diversity were also screened and shown to the participants. Detail discussion on each and every point of application forms for registration of farmers varieties were made along with clarification on the queries raised by the participants. Dr. A. K. Singh, Zonal Project Director has instructed all the KVKs to conduct the farmers training programme for filing of the application for registration of farmer's varieties.

A similar event was also arranged at JNKVV University, Jabalpur in the afternoon of 30 November, 2013 which was attended by the Hon'ble Vice-Chancellor, senior faculty of the University, PG and research scholars. Hon'ble Chairperson of the Authority has also made a presentation on Protection of Plant Varieties and Farmers' Rights and status of the registration under the Act.

- **Training-cum-Awareness programme at KVK, Kanker:** A Training-cum-Awareness programme was organised by Krishi Vigyan Kendra, Kanker, Chattisgarh on 1 December, 2013. Hon'ble Chairperson of the Authority was the Chief Guest during the occasion. Shri



Mayaram Netam, Member of the Authority, was also invited as Guest of honour along with Dr. Anupam Mishra, Zonal Project Director, Zone-VII. The programme was attended by the large number of local farmers and exhibition was displayed where the seeds of farmers varieties was centre of attraction. Farmers and others scientist of KVK were given training for filling of the application form and also made aware about the provisions of the PPV & FR Act, 2001 and Farmers' Rights. The Nukkad Natak and documentary on agro-diversity were also screened and shown to the participants.

- **Training-cum-Awareness programme at**



KVK, Jagdalpur: A training-cum-awareness programme was organised by Krishi Vigyan Kendra, Jagdalpur, Chattisgarh on 2 December, 2013. Hon'ble Chairperson of the Authority was the Chief Guest during the occasion and Shri Mayaram Netam, Member of the Authority, Shri Ankit Anand, IAS, District Magistrate, Bastar as a Guest of Honour and Dr. Anupam Mishra, Zonal Project Director, Zone-VII were also present in the programme. The programme was attended by the large number of local farmers and exhibition was also arranged where the seeds of farmers varieties were displayed. Farmers were trained with the filling of the application form and made aware about the provisions of the PPV & FR Act, 2001 and Farmers' Rights. The Nukkad Natak and documentary on agro-diversity were also screened and shown to the participants.

- **Training-cum-Awareness programme, IGKV, Raipur:** A Training-cum-Awareness programme was organised at IGKV, Raipur on 3 December, 2013 at the Auditorium of Agriculture College of IGKV, Raipur. More than 200 participants viz scientists of Plant Genetic & Resources Department, Biotechnology Department, students, researchers and progressive farmers participated in the



programme. Dr. R. R. Hanchinal, Chairperson, PPV &FR Authority was invited as Chief Guest and Hon'ble Vice-Chancellor, Director of Extension and Director of Research of IGKV, Raipur and Director of Agriculture, Govt. of Chhattisgarh were also present. The Chairperson, PPV&FR Authority in his inaugural address highlighted the importance of the registration of farmers' varieties and PPV & FR Act, 2001. An exhibition was also arranged on the occasion where seeds of farmers' varieties were displayed. The Nukkad Natak and documentary on agro-diversity were also shown to the participants.

- In the afternoon another **training-cum-awareness programme** was conducted at IGKV University which was attended by the Hon'ble Vice-Chancellor, senior faculty of





the University, PG and research scholars, Hon'ble Chairperson of the Authority made a presentation on Farmers' Rights under the PPV & FR Act, 2001. This was followed by an interactive session of the Chairperson with the faculty, PG students, researchers and the scientific community with regards to the Act and the farmers' rights.

- **Filling of application for registration of farmers' varieties at training-cum-awareness programme held at Dimapur:** One day training-cum-awareness programme on Protection of



Plant Varieties and Farmers' Rights Act, 2001 was organized by ICAR Research Complex for NEH Region, Nagaland Centre, Jharnapani on 15 November, 2013 at KVK, Dimapur in collaboration with Plant Varieties and Farmers' Rights Authority. Dr. R.R. Hanchinal, Chairperson, PPV&FR Authority, New Delhi was the Chief Guest of the function. In his keynote address, he highlighted the provisions of farmers' rights and their contribution in the conservation of plant genetic resources of land races and wild relatives of economic plants and their recognition by way of Plant Genome Saviour Community Awards, Rewards & Recognitions by the Authority. He urged upon the scientific communities, scientists, students and farmers to come forward for registration of the farmers' varieties, which are Plant Genetic wealth of the country in the North-Eastern Region and also identified the farmers' and

farming communities eligible for such awards as constituted by the Authority. Dr. Bidyut C. Deka, Joint Director, ICAR Research Complex for NEH Region, Nagaland Centre, Jharipani in his welcome address stressed on the need for registration of the farmer' varieties and requested the house that North-Eastern Region was one of the important biodiversity hotspot areas in the world and that the opportunity should be availed to get the maximum benefit from the Authority.

Dr. R.C. Agarwal, Registrar General, PPV&FR Authority, New Delhi discussed the registration of farmers' varieties and shared information about the farmers' rights. Dr. Ravi Prakash, Registrar spoke about the farmers' rights, benefit sharing and community rights. Dr. A.C. Sarma, Deputy Registrar, Guwahati demonstrated the procedures for filing of application form for registration and offered his services and guidance, if required may approach Regional Office at Guwahati.

Application for 15 farmers' varieties either individually, in groups/ in community basis were initiated for registration during the programme. Altogether 45 beneficiaries comprising of scientists and technical staffs from ICAR, Nagaland Centre, staffs and farmer representatives from KVK Dimapur; KVK Longlen; KVK Wokha, officials from district Agri. offices of Kohima, Mon, Kiphire, Mokokchung and Mon districts of Nagaland along with their farmer members and SARS, Yisemyong attended the programme.

Special Drive for registration of farmers' varieties in North-Eastern Hills

To create awareness about the farmer rights as enshrined in the PPV&FR Act, 2001 among the stakeholders like farmers, researchers, plant breeders, scientists, students, NGOs, public /private



organizations. Authority is organising training-cum-awareness programmes and participating actively in Kisan Melas, Kisan Utsavs, Agricultural Fairs, International conferences on agriculture, National seminars and agricultural workshops.

Accordingly, Authority has provided Rs. 200.00 Lakh for conducting 250 training-cum-awareness programmes during the year 2013-14. So far more than 80 workshops have already been conducted and another 45 programmes are likely to be conducted by March, 2014. These training-cum-awareness programmes are being conducted through KVKs, State Agriculture Universities, ICAR Institutes and other Agricultural Development Agencies of the State Governments including NGOs especially in the agro-biodiversity hotspots areas in the states of Chhattisgarh, Jharkhand, Odisha, Rajasthan and Bundelkhand and North-Eastern Hill states.

Special Campaign for Registration of Farmers' Varieties

Under the dynamic leadership of Prof. R. R. Hanchinal, Chairperson, Authority made a special drive for the registration of the farmers' varieties in the Bundelkhand, North-Eastern Region, Chhattisgarh, Jharkhand, which are agro-biodiversity hotspots of the country. So far, the Authority has received 923 rice varieties from different states as per details as under:

State wise Rice Applications

S . No.	States	No. of Appli-cations	S . No.	States	No. of Appli-cations
1	Assam	196	7	Chattisgarh	216
2	Nagaland	3	8	Jharkhnad	11
3	Imphal	157	9	Karnataka	141
4	Tripura	109	10	Kerala	8
5	Mizoram	46	11	Nagpur	1
6	West Bengal	35		Total	923

PGSC Awards, Rewards & Recognitions

The scrutiny of the applications received for PGSC Awards, Rewards & Recognitions for the year 2013 was made in the Authority and out of 108 applications received 28 applications were found suitable for the Plant Genome Saviour Community Award and remaining 80 numbers of the for Plant Genome Saviour Farmers Rewards & Recognitions.

RTI

During the quarter, the Authority received 9 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 to the applicants. There is no single application pending before first Appellate Authority or CIC.



Crop species under Registration (57)

Crop species	Botanical name		Crop species	Botanical name
Rice / चावल	<i>Oryza sativa</i> L.		Sugarcane / गन्ना	<i>Saccharum</i> L.
Bread wheat/ गेहूँ (चपाती)	<i>Triticum aestivum</i> L.		Black pepper / काली मिर्च	<i>Piper nigrum</i> L.
Maize/ मक्का	<i>Zea mays</i> L.		Small cardamom/ छोटी इलायची	<i>Elettaria cardamomum</i> Maton
Sorghum/ ज्वार	<i>Sorghum bicolor</i> (L.) Moench		Turmeric / हल्दी	<i>Curcuma Longa</i> L.
Pearl Millet/ बाजरा	<i>Pennisetum glaucum</i> (L.) R. Br.		Ginger / अदरक	<i>Zingiber officinale</i> Rosc.
Chickpea / चना	<i>Cicer arietinum</i> L.		Tomato / टमाटर	<i>Lycopersicon lycopersicum</i> (L.) Karsten ex. Farw.
Mungbean / मूंग	<i>Vigna radiata</i> (L.) Wilczek		Brinjal / बैंगन	<i>Solanum melongena</i> L.
Urdbean / उड़द	<i>Vigna mungo</i> (L.) Hepper		Okra/ भिन्डी	<i>Abelmoschus esculentus</i> (L.) Moench
Fieldpea / मटर	<i>Pisum sativum</i> L.		Cauliflower / फूल गोभी	<i>Brassica oleracea</i> L. var. botrytis
Kidney bean/राजमा	<i>Phaseolus vulgaris</i> L.		Cabbage / पत्ता गोभी	<i>Brassica oleracea</i> var. capitata L.
Lentil / मसूर	<i>Lens culinaris</i> Medik		Potato / आलू	<i>Solanum tuberosum</i> L.
Pigeon pea/अरहर	<i>Cajanus cajan</i> (L.) Millsp		Onion/ प्याज	<i>Allium cepa</i> L.
Indian mustard/ सरसो	<i>Brassica juncea</i> L. Czern & Coss		Garlic/ लहसून	<i>Allium sativum</i> L.
Karan rai / राई	<i>Brassica carinata</i> A Braun		Rose/ गुलाब	<i>Rosa</i> spp. other than <i>R. damascena</i>
Rapeseed/ रेप्सीड	<i>Brassica rapa</i> L.		Crysanthemum / गुलदाउदी	<i>Chrysanthemum</i> L.
Gobhi sarson/ गोभी सरसों	<i>Brassica napus</i> L.		Mango / आम	<i>Mangifera indica</i> L.
Groundnut/ मूंगफली	<i>Arachis hypogaea</i> L.		Durum wheat / डूरम गेहूँ	<i>Triticum durum</i> Desf.
Soybean/ सोयाबीन	<i>Glycine max</i> (L.) Merrill		Dicoccum wheat/ डिकोक्कम गेहूँ	<i>Triticum dicoccum</i> L.
Sunflower/ सूरजमुखी	<i>Helianthus annuus</i> L.		Other Triticum / ट्रिटिकम प्रजातियाँ	<i>Triticum</i> species
Safflower/ कुसुम	<i>Carthamus tinctorius</i> L.		Isabgol / इसबगोल	<i>Plantago ovata</i> Forsk.
Castor / अरंडी	<i>Ricinus communis</i> L.		Menthol Mint / पुदिना	<i>Mentha arvensis</i> L.
Sesame / तिल	<i>Sesamum indicum</i> L.		Damask Rose/ गुलाब (इत्र)	<i>Rosa damascena</i> Mill
Linseed / अलसी	<i>Linum usitatissimum</i> L.		Periwinkle / सदाबहार	<i>Catharanthus roseus</i> L. G Don
Diploid Cotton / कपास (द्वगुणित)	<i>Gossypium arboreum</i> L.		Brahmi / ब्राह्ममी	<i>Bacopa monnieri</i> L. Pennell
	<i>Gossypium herbaceum</i> L.		Coconut / नारियल	<i>Cocos nucifera</i> L.
Tetraploid Cotton / कपास (चतुर्गुणित)	<i>Gossypium hirsutum</i> L.		Bamboo Leaf Orchid or Boat Orchid/ साइमबिडम	<i>Cymbidium</i> Sw.
	<i>Gossypium barbadense</i> L.		Spray Orchid or Singapore Orchid/ जीवंती	<i>Dendrobium</i> Sw.
Jute / पटसन	<i>Corchorus olitorius</i> L.		Vanda or Blue Orchid/ रसना	<i>Vanda Jones</i> ex R. Br.
	<i>Corchorus capsularis</i> L.			



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