



Report

Three Weeks Training

on

“Intellectual Property Right in Agriculture”

(August 12, 2015 to September 1, 2015)

Submitted to

Ministry of Micro, Small & Medium Enterprises,

Government of India

Sponsored by



Submitted by

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## **Introduction**

The Zonal Technology Management & Business Planning and Development (ZTM & BPD) Unit, ICAR-Indian Agricultural Research Institute (ICAR-IARI), New Delhi – 110 012, organized a Three-Weeks Training on “Intellectual Property Rights in Agriculture” at the premise of ICAR-IARI, with the financial support from Ministry of Micro, Small and Medium Enterprises (MSME). The program schedule was prepared and advertised on the official website of ICAR-IARI to fetch the responses from interested parties. The advertisement with all the content mentioned therein, has been annexed herewith as **Annexure I**.

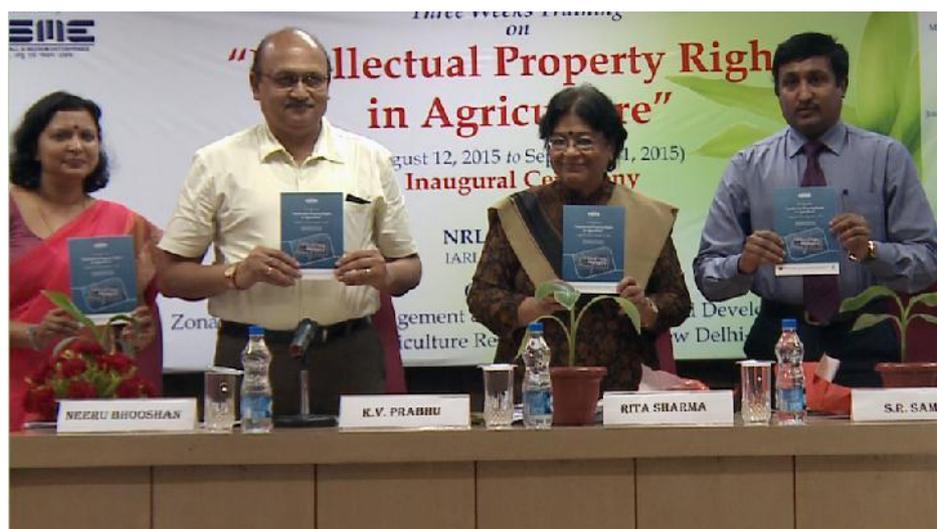
The advertisement generated marked interest among the researchers working in agriculture and allied domains. Among the interested candidates, a total of thirty two (32) participants including faculty members, research associates (RAs), and senior research fellows (SRFs) from across the ICAR Institutes including ICAR-IARI, ICAR-NRCPB, ICAR-NBPGR, ICAR-CIAE, ICAR-CAFRI, ICAR-IIMR, ICAR-NRCSS and ICAR-DSR, from Agricultural Institutes and Universities like Subharti University, UP, Ch. Charan Singh University, UP, B.K College, Karnataka, S. D. Agricultural University, Gujarat, Sugarcane Research Station, Govt. of West Bengal, Krishi Vigyan Kendra, Nagaland, S.V.T. University, UP, College of Agriculture, JNKVU, UP, participated in the programme. In addition, participation from a representative from the Indian Army, three (3) representatives from startup companies availing incubation at ICAR-IARI, and another representative from a Non Government Organization (NGO) named Gramin&ShahariVikasSansthan (NGO) not only made the trainee population even more diverse but also unlocked the interest on IPR as a subject matter as well as tool for value creation and addition. The details of the participants may be found in **Annexure II**.

As IPR is a huge umbrella assuring proprietary right on seemingly unrelated domains as well as involves the toil of poly makers and formulators, practicing individuals acting as facilitators, analysts and most importantly the skilled inventors, careful selection of resource persons who would be able to enlighten the trainee population with the views of all the groups related and engaged with the domains in various forms and formats, was the most important step. A total of **forty two (42) resource persons** were selected from IPR Law Firms for sharing experiences in handling and facilitating as well as to day to day interactions with the Examiners or controllers or designated individuals, from Chartered Accountant Firm like Adukia & Associates, Mumbai, for furnishing the tactics for IP evaluation, from the part of bureaucracy who are heading the

statutory body and dealing with practitioners, and last but not the least from the scientists working in transition of IPR and basic and translational research in agriculture and involved in IP searching and analysis. Furthermore, the hands on experience of ICAR Scientists in managing Intellectual Property & Commercialization was shared By Dr. S. Mauria, ADG, IP & TM, ICAR, Dr. S. Kochar, Former National Coordinator, NAIP-ICAR; and the experience in translational research clubbed with state of the art IP regime was furnished by Dr. K. V. Prabhu, Joint Director (Research), Dr. Magesh Nandagopal, Scientist - NCL Innovations, CSIR-National Chemical Laboratory, and Dr. Purnima Shastri, Joint Director, ICAR-NAARM. Special attention was given on the lecture of Mr. Rabi Kumar, IAS, Secretary, National Biodiversity Authority (NBA) for unlocking the procedures adopted by the GoI in terms of preservation of Biodiversity corresponding to Biodiversity Act, 2001. Three (3) panel discussions were organized taking the learned expertise of different groups associated to procuring, securing and processing of IPR related matters as mentioned earlier. The details of the resource persons involved in this training programme are mentioned in **Annexure III**.

## INAUGURATION OF THE PROGRAMME (12 August, 2015)

The inaugural ceremony for this programme was scheduled at the NRL Auditorium, ICAR-IARI, on Wednesday, August 12, 2015, at 9.30 AM, in presence of the Chief Guest Dr. Rita Sharma, Former Secretary to GoI, Ministry of Rural Development, and the Guest of Honour Mr. S. R. Samuel, Joint Development Commissioner, Ministry of MAME, GoI, along with Dr. K. V. Prabhu, Joint Director (Research), ICAR-IARI, Dr. J. P. Sharma, Joint Director (Extension), ICAR-IARI, Dr. Neeru Bhooshan, Course Director for the Training Programme and Incharge, ZTM & BPD Unit, ICAR-IARI, and Dr. Jayanthi M., Course coordinator for the Training Programme and PS, ZTM & BPD Unit, ICAR-IARI. Dr. S. Kochar, Former National Coordinator, NAIP-ICAR, Dr. S. Mauria, ADG, IP&TM Unit, ICAR, and Heads of a number of divisions were among the other participants. The session was started with the welcome address from Dr. Neeru Bhooshan, followed by a brief speech from Dr. K. V. Prabhu regarding the *modus operandi* as well as the achievements of the ZTM & BPD Unit. Dr. J. P. Sharma then highlighted the extension activities undertaken of ICAR-IARI, and emphasized the need of IP-mechanism in agriculture-related domains. This was followed by a very well-informed speech by the Guest of Honour regarding the current IPR scenario in India. Successively, the Chief Guest officially inaugurated the training programme with applaud from all across the auditorium.



She also released the training schedule and the CD containing all the lectures and study material. On request, Dr. Rita Sharma gave a short however well informed presentation on the IPR related legislation, importance of IP management, benefits of IPR enabled technologies, IPR policy frameworks, achievement by the GoI so far, and a clear vision regarding the way forward. This presentation was appreciated by everyone, and few of the concerns indicated in the presentation, were readdressed by Dr. K. V. Prabhu, before the closure of the session for tea break. Dr. Jayanthi M. then thanked everyone for their whole-hearted participation and conveyed concluding remarks.

### **DAY 1(12 August, 2015)**

After the refreshment, Mr. Yashawant D. Panwar, Scientist E & Head, Patent Facilitation Centre, TIFAC, New Delhi, described the IP activities in different countries with outstanding details yet in simple language, following which, this session took a lunch break.

In the afternoon, first lecture was delivered by Prof. (Dr.) S. K. Verma, Executive President, ISIL, New Delhi, regarding the history and evolution of intellectual property. The lecture was packed with informations regarding the historical development of different IP regimes and gradual shift towards a universal consciousness regarding IPR followed by formulation of legislation at the international as well as national levels related to each domain of IP. Following this, Dr. S. Kochar, Former National Coordinator, NAIP-ICAR, haddelivered an in depth lecture on International IP Landscape before we called it for the day.

### **DAY II (13 August, 2015)**

August 13, 2015, started with the lecture of Mr. Prabhat Ranjan, Executive Director, TIFAC, New Delhi, wherein he presented as well as gracefully shared his experience in TIFAC related to IP Management, technology commercialization, up-scaling and business development. This was followed by a lecture from renowned Patent Attorney Mr. S. P. Arora, Director, Global IP Law Firm, regarding the enumeration of fundamentals of patent system, which covered the history of patent systems in European, American as well as Indian context. In addition, the lecture briefed nicely the outlines of application procedures for convention applications as well as for PCT. The session took a lunch break and again gathered in the afternoon under the mentor Ms. Anita Jadav, Assistant Controller of Patents and Designs, Indian Patent Office, New Delhi, to extend the discussion further by bringing in the aspects of Indian patent system. This lecture covered the drafting style of claims in complete specifications with a focus on the difference between Complete and Provisional specifications, filing procedures and fees related to each step as well as detailed the method of opposition against a patent application or a valid patent before the Indian Patent Office. The final lecture was delivered by Ms. Kanika Malik, Editor, Journal of Intellectual Property Rights and Senior Scientist, CSIR-NISCAIR, New Delhi, on Drafting and

Filing procedures of Patent Application, which made the whole session meaningful by bringing up issues regarding Patent regime(s).

### **DAY III (14 August, 2015)**

August 14, 2015, started with a lecture from the Course Director, Dr. Neeru Bhooshan, Incharge, ZTM & BPD Unit, ICAR-IARI, on TRIPS Agreement. This lecture exposed the tenets of the TRIPS Agreement, which is Annex 1C of the Marrakesh Agreement establishing the World Trade Organization, and was signed in Marrakesh, Morocco on April 15, 1994. However, member countries got 10-years time to comply with the obligations therein and finally in 2005 India officially joined the global platform after creating a number of *sui generis* systems along with amendment of Patent Acts. The lecture detailed about the working of TRIPS in different IP domains and relevant articles to detail the right procured by the inventors. This was meaningfully followed by an insightful lecture on 'Introduction to PCT and its Filing Procedure' from Mr. Prosenjit Chattopadhyay, Principal Patent Associate, Lakshmikumaran & Sridharan IPR law Firm, New Delhi. This lecture detailed the filing procedures of PCT, its stringent timeline and the way to defend and modulate the ambit of patent protection at international arena. The final lecture was delivered by Dr. Neeti Wilson, Partner, Anand & Anand IPR Law Firm, on IP dispute resolution emphasizing the 'IP Dispute between Countries and Role of Dispute Settlement Mechanism', which detailed the phylogeny of international systems like GATT etc. in order to present a detailed mechanism related to the topic.

## PANEL DISCUSSION I

A panel discussion on ‘Patenting in Agricultural Biotechnology and Life Forms’ was organized at the NRL Auditorium, ICAR-IARI, after the completion of all the lectures comprising learned members from the Institute levels as well as from the IPR Law Firms. Honourable participants included Dr. Neeti Wilson, Partner, Anand & Anand IPR Law Firm, Ms. Kanika Malik, Editor, Journal of Intellectual Property Rights and Senior Scientist, CSIR-NISCAIR, Dr. S. Kochar, Former National Coordinator, NAIP-ICAR, Dr. Gurinder Randhawa, PS, ICAR-NBPGR, and Dr. Vivek Kashyap, Lexorbis IPR Law Firm.



**DAY IV (15 August, 2015) Independence Day Holiday**

**DAY V (16 August, 2015) Sunday Holiday**

**DAYVI (17 August, 2015)**

### **FIELD VISIT-I**

Next week started with a visit to the Patent and Trade Mark Office, New Delhi, scheduled on Monday morning, August 17, 2015, to understand the hands on filing procedure before the designated authorities. Dr. \_\_\_\_\_, the Controller of Patents and Designs welcomed all the participants and gave a brief and well-informed introduction of the mode of operation of the Patent Office and historical development of IP administration in India



### **PRACTICAL SESSION –I (PRIOR ART SEARCH)**

An after-lunch session was on facets of ‘Prior Art Search’ with practical lessons under the leaned guidance of Dr. Sangeeta Nagar, Scientist E, Patent Facilitation Centre, TIFAC, New Delhi, and Dr. Yashwant Dev Panwar, Scientist E and Head, Patent Facilitation Centre, TIFAC, New Delhi, at the Library Training Hall, ICAR-IARI. Participants were taught about the nuances of the subject. Desktops with internet access were to each participants on which they performed the practical exercises.

## **DAY VII (18 August, 2015)**

August 18, 2015, the following day initially took a diversified approach and started with a lecture on 'Introduction to Copyright and Indian Copyright Act' by Dr. G. R. Raghavender, Joint Secretary, Division of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India, New Delhi. The lecture brought forward rigorous details regarding the moral right, author's right, and performer's right vested under the Copyright law, mode of operation of the copyright society, Copyright term, registration procedure, forms and fees, infringement and the consequences thereof. This information packed lecture was succeeded by a lecture on working 'Experience of BCIL related to IP Management, Technology Commercialization, Upscaling and Business Development' by Dr. Purnima Sharma, Managing Director, BCIL. An in depth insight of the mode of operation of BCIL was depicted in a very articulated fashion.

## **PRACTICAL TRAINING II (PRIOR ART SEARCH)**

The post lunch practical session at the Library Training Hall, were organized on 'Prior Art Search' extending the lecture materials of previous day, by Dr. Yashwant Dev Panwar, Scientist E and Head, Patent Facilitation Centre, TIFAC, New Delhi. Participants done the practical exercise to get the hands on experience on the subject.

## **DAY VIII (19 August, 2015)**

Wednesday, August 19, 2015, started with an in depth lecture from Mr. Omesh Puri, Senior Associate (Trade Marks), Lex Orbis IP Law Firm, New Delhi, on 'Introduction and Registration of Trade Mark and reparation of Trade Mark Application', to unlock information for another domain of IP. The significance of this lecture was elaborate details regarding the TM related procedures adopted in different countries, detailing of convention application and disputes over trade mark usage due to having political borders. This was followed by another in depth lecture from Dr. Raj Hirwani, Head, CSIR-URDIP, Pune, on 'Patent Mapping and Landscaping', having a great focus on current day patent litigations in national and international arenas. The session broke for lunch and a final session was conducted by the Course Director, Dr. Neeru Bhooshan,

PI & Incharge, ZTM & BPD Unit, ICAR-IARI. This post lunch session was entirely on the foundation, structure function of World Intellectual Property Organization (WIPO).

### **DAYXI (20 August, 2015)**

August 20, 2015, the next day started with unlocking insights of Industrial Design, a *sui generis* system developed by India to cover up the dearth of mechanism for a Design Patent. Mr. Raghav Sarada, Principal Associate (Industrial Designs), Lakshmikumaran & Sridharan IPR law Firm, New Delhi, lectured regarding the legitimacy and operation of this IP domain. This was followed by the last pre-lunch session from Mr. Ved Prakash, Director (Law), Competition Commission of India, New Delhi, where the speaker shared his personal experience as well as highlighted the intricate correlations between 'IP and Competition Law'. The implication of Competition law, 2002, and its consequent relationship with a regime which apparently promotes monopoly was the matter of interest. The lecturer highlighted how efficiently the two seemingly opposing domains go hand in hand and how articulately the IPR regime is promoting competition in the longer run.

### **PRACTICAL TRAINING-III (PATENT DRAFTING)**

The post lunch session was entirely focused on 'Insights of hands on filing procedure of Patent Applications and the theory of Drafting Complete Specification for a Patent'. The session dealt with all the practice issues and the difficulties lies therein, and conducted by Mr. R. K. Nair, Senior Advocate & Patent Attorney, Institute of Patent Attorneys, New Delhi. This lecture detailed the step by step issue relating to the drafting and filing of patents, processing, and opposition procedures in great details. This was the first half of his lecture, the next of which is to be conducted on the very next day.

The last session was conducted and graced by Dr. K. V. Prabhu, Joint Director (Research), ICAR-IARI, with a profound lecture on 'Indian Seed Act and its implication of Indian Seed Industry'. The lecture mainly highlighted the Seed Act, 1966, Seed Rule, 1968, and Seed Control Order, 1983 in relation to the present day PPV & FR Act, and ended with recommendations for change in the Seed Act at par to the PPV & FRA.

## **DAYX (21 August, 2015)**

Friday, August 21, 2015, started with unlocking another *sui generis* system adopted by India i.e. Protection of Plant Varieties and Farmers' Right Act (PPV & FRA) to cover up the gap created by non-patentability of agriculture and horticulture and plant overall. Dr. R. C. Aggarwal, Registrar General, PPV & FRA, GoI, conducted the session



on 'PPV & FR Act and its implication on Indian seed Industry'. This was followed by a well-informed lecture from Dr. H. Purushotham, CMD, National Research Development Corporation (NRDC), New Delhi, on 'Experience of NRDC related to IP Management, Technology Commercialization, Upscaling and Business Development', where the lecturer detailed the hands on experience in IP management, docketing and commercialization issues by NRDC.

## **PRACTICAL TRAINING IV (Patent Drafting )**

The session made way for lunch, following which Mr. R. K. Nair conducted a practical training with respect to earlier theoretical lesson for 'Drafting of Patent Application' by assigning a model invention disclosure and asking everyone to write a complete specification. This last session was entirely participatory and involved rigorous interaction between the lecturer and trainees regarding the substance of their drafted specification. The trainees were assigned a task of drafting a complete specification especially the claims from Paper II of the Patent Agent Examination, 2011. Everybody participated and came up with really good piece of works.

### **DAYXI (22 August, 2015)**

Saturday, August 22, 2015, the entire pre-lunch session was guided by Dr. Sudhir Kochar, Former National Coordinator, NAIP-ICAR, on the topic 'Doing business in Plant Varieties'.

This session was packed with valuable informations and was followed by a post-lunch session.

Dr. G. R. Raghavender, Director (IPR), DIPP, Ministry of Commerce and Industry, GoI, took the charge of the first quarter of the post lunch session with a perceptive lecture on 'Copyright Societies and Entertainment Industry'. This lecture detailed the activities of Copyright Societies as well as Performers' Societies and covered case studies related to Bollywood and the likes as well as case studies on copyright battles regarding publications and ownerships of related rights. Another learned lecture from Dr. R. C. Aggarwal, Registrar General, PPV & FRA, GoI, on 'IP and IT' was delivered post-lunch. This class was succeeded by an invaluable lecture on 'Traditional Knowledge' by Dr. Ruchi Pant, Programme Officer UNDP, New Delhi.

### **DAYXII (23 August, 2015) Sunday (Holiday)**

### **DAYXIII (24 August, 2015)**

Moreover, the whole 6-day week offered packed information supported by appropriate study material as provided by the ZTM & BPD Unit as well as the resource persons concerned.

Monday, August 24, 2015, began with an overwhelmingly applauded presentation from Dr. Malathi Laxmikumaran, Director, Lakshmikumaran & Sridharan IPR law Firm, New Delhi, on the comparison between USA, Europe, Australia, Japan and Indian criteria of patentability with a special emphasis on Section 3 especially on Section 3(c) and Section 3(j). This was followed by a lecture on 'Traditional Knowledge and Role of TKDL in its Protection' from another renowned Senior Scientist Dr. Archana Sharma, Head, Traditional Knowledge Digital Library (TKDL), CSIR, New Delhi. Dr. Archana Sharma presented the vast resource of Traditional Knowledge that India possess and the measures taken by the GoI to protect those priceless assets through the endeavor of CSIR, which even got recognition from the learned society as well as from the media in recent days.

## **FIELD VISIT- II (Agricultural Institutions situated in NASC Complex including PPVFRA Gene Bank)**

The session broke for lunch and succeeded by an orientation of agricultural institutions situated in Pusa Campus led by Dr. J. P. S. Dabas, Principal Scientist, CATAT, ICAR-IARI, New Delhi. That visit comprised of a brief introduction to the function of different institutes in different set up, visit to the office of PPV & FRA, and the Agricultural museum located at NASC Complex. The day was finally called off after a visit to the NBPGR old building, and lecture from Dr. Bisht, PPVFRA on the mode of operation of gene bank as well as variety registration as under PPV & FRA.



## **DAYXIV (25 August, 2015)**

Tuesday, August 25, 2015, started with a lecture from Dr. A. Pradhan, Chief, NRDC, New Delhi, on tactics and mode associated with technology commercialization. Detailed deliberation was done on the structure and function of NRDC related to the subject covering theoretical models like Cooper Model, Jolly's Model, emphasizing on dynamic relationship between IPR activity and commercialization, and last but not the least, a glance regarding the methods available for IP evaluation. This very articulated and informative lecture was culminated onto make way for a

lecture on 'IP Enforcement' by Mr. Rahul Dutta, Patent & IP Attorney, Intellectual Property Lab, Lucknow, UP. His lecture detailed the features of GI and the rights vested; application and renewal procedures, and the way it brings economic incentives to the appropriate stakeholders. After lunch session started with a lecture from Dr. T. Rama Krishnan, Head, Centre for IP Research & Advocacy, National Law School, Bangalore. This was followed by another insightful lecture from Mr. Omesh Puri, Senior Managing Associate, Lex Orbis, New Delhi, on 'Trademark International System'. This articulated lecture packed with information was succeeded by the final lecture from Dr. Avinash Kumar, Addn. Director (IPR), DRDO, New Delhi, on 'IPR issues in collaborative R & D'. This lecture detailed how efficiently DRDO is dealing with the IPR-related matters and promoting IP culture among the learned minds working under their facilities. Special emphasis was put on the mechanism of protecting IP rights while engaging into a collaborative or contract research agreement with other parties.

#### **DAYXV (26 August, 2015)**

Wednesday, August 26, 2015, began with another lecture from Mr. Rahul Dutta, Patent & IP Attorney, Intellectual Property Lab, Lucknow, on the topic 'Data and its protection'. The lecturer defined data, furnished comparative analysis between personal data and commercial data, raw data and usable data. Furthermore, the lecture detailed the related legislation like Official Secret Act, 1923, Information Technology Act, 2000, Right to Information Act, 2005, and National Data Sharing and Accessibility policy (NDSAP) 2012. The last session before lunch was conducted by representatives from C-DAC, GoI, having expertise in semiconductor designing and topography on the topic of 'Introduction and Practical Implication of Circuit Layout Design Act'. The session broke for lunch only to start with a lecture on "Patent to Product" from Dr. P. Bansal, MD, Excellion, Chandigarh. The lecturer meaningfully deciphered the concept of translational research in the journey from patent to product, importance of draft content developing for research as well as promotion of the product and the trick involved to bring forth product to market after and during ongoing successful IP management. The day was finally called off after the following invaluable inputs and lecture from Ms. Sunita Shreedharan, Advocate & Patent Agent, SKS Law Associates, New Delhi. Her lecture covered the tradable IP matters and important toolboxes like SWOT analysis, claim analysis, as

well as importance of proactive and periodic management of IP portfolio in order to achieve a competitive edge over the rivals.

#### **DAYXVI (27 August, 2015)**

Next day, August 27, 2015, began at the Virology Auditorium, Division of Plant Pathology, ICAR-IARI, with a lecture from Mr. Rahul Dutta, Patent & IP Attorney, Intellectual Property Lab, Lucknow, on the topic 'Trade Secret'. The lecturer detailed the International Obligation Law protecting trade secrets amidst of unfair competition and unlawful acquisition, required disclosure, extended lecture on privacy versus confidentiality, and the toolboxes available to protect the trade secrets. Following this, Mr. Rabi Kumar, Secretary, National Biodiversity Authority (NBA), graced the session with a very in depth analysis of Biodiversity Act, 2001, and the mode of operation of NBA corresponding to the act. The lecturer detailed the way applications are treated and disposed off after thorough processing at different empowered levels, and the procedures one should adopt for an approval of NBA. The lecture got appreciation from across the board. The session then broke for lunch. The post-lunch session was organized at the ZTM & BPD Unit, ICAR-IARI, with a priceless input from Mr. Raj Kumar Adukia, Partner, Adukia & Associates, Mumbai, regarding 'IP Valuation' and the toolboxes available to achieve the same. Mr. Adukia detailed the different mode of IP evaluation and translational scaling up of IP-protected technology for commercialization and better reach to the target markets.

#### **DAY XVII (28 August, 2015)**

Friday, August 28, 2015, started with a lecture from Mr. H. K. Mittal, Adviser & Member Secretary, National Science & Technology Entrepreneurship Development Board, New Delhi, on 'Innovation and Entrepreneurship', which unlocked the secrets of transition of an invention to further scaling up and ultimate commercialization. Mr. O. P. Singh, ADC, Ministry of MSME, took the charge of the next class and delivered an informative lecture on 'Entrepreneurship in emerging World: MSME Perspective'. Mr. O. P. Singh shared the practical experience related to negotiation, entrepreneurship, strategies to succeed and the facilities provided by the GoI in order to ensure a favorable environment for industrious minds. The final session before lunch

was guided by Mr. Raghunandan, ED, ISBA, on ‘Opportunities and challenges in entrepreneurship’. The lecture detailed all the steps to ensure the exploitation of opportunities in order to prosper and thrive. Post lunch, a brief session was organized for sharing industrial experience from one of the learned participants Dr. L. K. Pandey, CMD, Ananya Seeds Pvt. Ltd., on ‘Technology push and Market pull: an Industry perspective’. The speaker happens to be one of the entrepreneurs availing incubation from the ZTM & BPD Unit, ICAR-IARI.

### **FIELD VISIT-III (NBPGR)**

The third filed visit was organized of a visit to the Gene Bank of ICAR-NBPGR, where Honourable Director, ICAR-NBPGR, Dr. K. C. Bansal, gave a talk on the procedure and mode of operation of the gene bank



### **DAYXVIII (29 August, 2015)**

Saturday, August 29, 2015, started with lecture from the Course Director Dr. Neeru Bhooshan on ‘Licensing Agreements’ and different mode of drafting while being adhered to a set guideline.

The lecturer detailed the different types of agreements including but not limited to Licensing agreements, Contract Research Agreement, Collaborative Research Agreement, rights, obligations and responsibilities therein, royalty clause, and importance of negotiation skills pertaining to the clauses of any agreement. The lecture occupied the entire pre-lunch session with appreciation from across the participants. Post-lunch, the first session before tea, started with a perspicacious lecture by Dr. Mahesh Nandagopal, Scientist, NCL Innovations, CSIR-

National Chemical Laboratory, Pune, on 'IP and Technology Commercialization: A CSIR perspective'. The lecturer detailed the amount of revenue generated by the commercialization of IP assets in abroad especially in USA, comparative approach of NCL-Innovation with other universities/ institutes/ organizations abroad especially in US, potential revenue that could be earned from IP, flexibility of engagement with partners, commercializing via startups, and the importance of building favorable ecosystem for technology commercialization like the Flintbox.com, international platform for technology commercialization. The lecturer also highlighted the fact that 70% of the researches are done at public level using public money and fewer amount is invested in R&D by private parties. Post tea, rest of the session was guided by Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI.

**DAY XIX (30 August, 2015) Sunday (Holiday)**

**DAY XX (30 August, 2015)**

Monday, August 31, 2015, the penultimate day began with an informative lecture from Dr. Ravinderjit Singh, CEO, Agrinnovate (DARE), on IP marketing. This was followed by an incisive talk on 'IP Management Strategy in R&D Institutions' from Dr. Kalpana Sastry, Joint Director, ICAR-NAARM, who flew all the way from Hyderabad just to grace the final days of the programme.

The session broke for lunch after witnessing lectures from stalwarts of this level. Post lunch, another penetrating lecture from Dr. S. Mauria, ADG, IP & TM Unit, ICAR, blessed the participants with deluge of priceless informations on 'IP and Technology Management: an ICAR/DARE perspective'.

**PANEL DISCUSSION-II ('IP and Technology Management: an ICAR/DARE perspective')**

A panel discussion on 'IP and Technology Commercialization – DARE/ ICAR Perspective' was conducted on this day at NRL auditorium. The experts for the discussion were Dr. K. V. Prabhu, Joint Director (Research), Dr. S. Mauria, ADG, IP & TM Unit, ICAR, Dr. Ravinderjit Singh, CEO, Agrinnovate (DARE), Dr. Sanjeev Saxena, Former CEO, Agrinnovate (DARE), and Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI. The insightful

discussion began with the presentation from Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI, on the mode of operation of the ZTM & BPD Unit, ICAR-IARI and apprised the processes and procedures regarding the IP management and technology commercialization.

They discussed about the whole scenario of the technology transfer taking place in ICAR which was given as a presentation by Dr. S. Mauria and the important role played by Agroinnovate and ZTM-BPD was discussed at length. Other panelist Dr Sanjeev Saxena, Principal scientist, IPTM Unit, ICAR shared the story of “Gram Priya” Trademark of ICAR. Dr Kalpana Shatsy talked about the importance of team and coordination. While Mr Ravenderjit Singh shared his experiences with private sector and talked about the importance of the trust building and relationship selling, maintaining. Dr S Mauria concluded the session with a hope to take it forward. While Dr K. V. Prabhu, Joint director (Research) gave his observations to maintain the confidentiality during the negotiations.



#### **DAY XXI (01 September, 2015)**

The final day, Tuesday, September 01, 2015, started with group presentation where the participants chose some topic and made smaller groups among themselves to present and self-evaluate under the careful watch from Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI.

## **VIDEO CONFERENCE**

The session broke for tea and gather soon to attend the perceptive lecture by Dr. G. S. Jaiya, SME Section, WIPO, through teleconferencing. Dr. K. V. Prabhu, Joint Director (Research), Dr. S. Kochar, Former National Coordinator, NAIP-ICAR, and Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI, were present along with the trainees and participants. This wonderful lecture ended with in depth discussion and analysis between the resource persons and participants.

## **VALIDICTORY SESSION**

Valedictory session was conducted by Dr. Neeru Bhooshan, Course Director & Incharge, ZTM & BPD Unit, ICAR-IARI, and Dr. M. Jayanthi, Course Coordinator & PI, ZTM & BPD Unit; which was attended by Chief Guest Mr. S. Sahu, Ministry of MSME, GoI, Mr. O. P. Singh, ADC, Ministry of MSME, and presided by Dr. Kalpana Sastry, Joint Director, ICAR-NAARM,. The session began with a lecture from the Chief Guest Mr. Sahu who talked about the initiatives MSME taken in order to ensure a healthy ambience and environment for the growth of micro, small and medium scale industries and the importance of the role of IP management in developing a self-sustaining model. Then the Chief Guest officially released the CD of the entire programme and the Compendium taking contributions from all the interested resource persons. Final part was due for the certificate distribution to all the participants by the Chief Guest, Mr. S. Sahu and Dr. K. V. Prabhu, Joint Director (Research). The session ended with an acknowledgement from Dr. Neeru Bhooshan with large applaud from the audience and participants, before moving finally for the Hi-tea.

## Annexure –II

### ICAR-IARI-MSME Training Programme on Intellectual Property Rights in Agriculture Zonal Technology Management & Business Planning and Development Unit ICAR-India n Agriculture Research Institute, New Delhi-1 10012

12<sup>th</sup> August 2015 - 1<sup>st</sup> September 2015

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