

## **ANNUAL REPORT 2014-15**

### **Report of the Activities of MHRD IPR Chair (Technical) at Cluster Innovation Centre, University of Delhi for the duration April, 2014 to March 2015.**

The IPR Chair instituted by the Ministry of Human Resource Development became operative at University of Delhi since 20<sup>th</sup> February 2014 on joining of Dr Rekha Chaturvedi as IPR Chair Professor. Below is given a report of the activities carried out by the MHRD IPR Chair.

#### **1. Preparation of IP Guidelines:**

Guidelines for Intellectual Property Protection, Licensing and collaborative research with Industrial participation have been drafted and have now been approved and uploaded on the DU website.

#### **2. Management of IPR Cell:**

- Re-activated the IPR cell at University of Delhi wherein guidance on IPR issues is provided to faculty and students.
- Carried out Patentability Assessment, Drafting and Filing of Delhi University patent provisional application no. 2110/ DEL/2014 at Indian Patent office on 25-07-2014.
- 12 Nos. Invention Disclosures have been examined for patentability assessment and two Indian patent has been filed by self in July 2014 and Feb 2015 respectively while one patent is under drafting by self (list enclosed).
- Handling the documents and correspondence related to the filed patents of innovation projects and other projects and interacting with the attorney firms.
- Preparation of Portfolio of Delhi University Patents.

Thorough searches and scanning of the freely available Indian, European, US and WIPO patent databases was carried out to search for the patents of Delhi University and its faculty. The current status of patents were also ascertained and a detailed database table of active patents and applications has been prepared. The patent portfolio of DU is displayed on the DU website

#### **3. Engagement of Research Staff:**

One research assistant and one research officer have been engaged on August, 7<sup>th</sup> after the interview conducted on 18<sup>th</sup> June, 2014

#### **4. Consultation provided to DU:**

- Advised the DU authorities on IPR issues regarding various MoU & MoA of Delhi University Departments, from time to time (including Tech-Transfer Agreements) through Research Council of DU and for industry sponsored projects.
- Provided consultations from time to time on IPR issues and Plagiarism issues to Delhi University faculty & students, directly or Reserch Council of DU.

#### **5. Nominated:**

- a) Member of Delhi University committee for “Shodhganga” (UGC Repository of PhD thesis) concerned with plagiarism detection and related issues.
- b) Member of Delhi University committee for IPR Cell and Patent Fund.

#### **6. IP Education & Awareness:**

##### **a. IPR Trainings conducted:**

- A Workshop on “IPR, Patents and Patentability Assessment”, has been organised on 4<sup>th</sup> September, 2014 at Cluster Innovation Centre, Delhi University for DU faculty and students.
- IP training was conducted jointly with FICCI and IPO on 2<sup>nd</sup> Nov 2014 at DU Conference centre for students and faculties of educational institutions of higher learning in and around Delhi.
- Intellectual Property Training Worksop has been organized at South Campus of DU on 19<sup>th</sup> Jan 2015.
- IP workshop was organised on 11<sup>th</sup> Feb., 2015 at Deen Dayal Upadhyay College, University of Delhi.
- Consultation and guidance provided to DU students from time to time for patenting issues such as patentability assessment, prior art searches etc.

##### **b. Talks delivered on IP issues:**

- PhD Chamber of Commerce, National Workshop on “Citation Analysis, Patents & Copyrights for maximizing Research impact” held on 5<sup>th</sup> May, 2014.

- NRDC-Amity Innovation Facilitation Centre in workshop on Innovation & Intellectual Property Rights held at Amity University campus on 27<sup>th</sup> August, 2014.
- Delhi University, at the Workshop on IPR, Patenting and Patentability assessment”, on 4<sup>th</sup> September, 2014.
- Invited talk during the conference on “Technological Empowerment of Women at Grass Roots” at Chandra Shekhar Azad Agricultural University, Kanpur during 6<sup>th</sup>/ 7<sup>th</sup> September, 2014.
- Talk delivered on 11<sup>th</sup> Sept. 2014 on the topic, “Copyright and Plagiarism issues for e-book content development: Do’s and Don’ts”, at the Institute of Life Long Learning (ILLL), South Campus, university of Delhi.
- Chaired session No. 5 on “Commercialization and Tech Transfer-Issues faced by R&D Organizations and Industry” and led the panel discussion during the IP event organized at DU jointly with FICCI and IPO held on 2<sup>nd</sup> Nov. 2015.
- Invited to the round table discussion on “draft National IPR Policy”, by TIFAC, DST . on 13<sup>th</sup> Jan. 2015.
- Delivered five lectures on IPR and Patents during the IP event organised on 11<sup>th</sup> Feb. 2015 at Deen Dayal Upadhyay College, University of Delhi.
- Delivered a lecture on “Managing IP Tech-transfer in Universities and Research Institutes”, during the IV Annual IP Teaching Workshop 14<sup>th</sup> and 15<sup>th</sup> February, 2015 Organised by National Law University, Delhi
- Delivered a talk titled, ”Issues & Challenges for IPR & Tech-Transfer Management in Universities and Research Institutes in India”, at PHD Chamber of Commerce, New Delhi, during the “2nd National Workshop on Citation Analysis, Impact factor, Patent and Copyrights for Maximizing Research Impact” held on 27<sup>th</sup> Feb 2015.

#### **6. Special Invitee to the CEAC subcommittees on :-**

- Enforcement of Copyrights in India.
- Working group on “Chapter on copyrights” for school students, and wrote the initial draft of the chapter
- Gave significant inputs on issues on enforcement of IP and co-chaired working group meetings as required.

## **7. Consultation to MHRD**

- (1) Provided reply to the queries from MHRD regarding discussion on regulatory issues in Working Party on Domestic Regulation (WPDR) in WTO during the year 2013.
- (2) Provided critique and comments to MHRD on Government of India proposals on draft treaty for Broadcasting rights under drafting at World Intellectual property Organizations..
- (3) Provided comments to DIPP regarding the Utility Model Patent legislation.
- (4) Provided comments on draft “National IPR Policy” to MHRD.

## **8. Participation in IP events & Conferences:**

- Participated in the INSPIRE team of TIFAC-DST on Oct 6 & 7 2014, for scouting the inventions for patenting during INSPIRE 2014 exhibition.
- Participated in the FICCI - IPO IP awareness program for MSME on 1<sup>st</sup> Nov 2014 at Federation House, FICCI.
- Participated in the Indo-US Knowledge Expo organized by CII during 19<sup>th</sup> to 20<sup>th</sup> Nov. 2014 at India Expo Centre, Greater NOIDA.
- Participated in the IV Annual IP Teaching Workshop 14th and 15th February, 2015 Organised by National Law University, Delhi In association with CASRIP, University of Washington School of Law, Seattle.
- Participated in the a panel discussion entitled ‘Intellectual Property and Innovation – Unlimited Potential’, on 18th Feb. 2015 at Hotel Taj Palace organized by the U.S. Chamber of Commerce’s Global Intellectual Property Center (GIPC).
- Poster display on activities of IPR cell of DU in the innovation plaza during the Delhi University festival – Antardhwani.

## **9. Research activity:**

Research work on the topic “Access to Medicines to the Indian Public” has been taken up where controversial issues of impact of Compulsory Licence and Section 3 (d) of the Indian Patent act are being researched.

**Eclosure: 1****DU INVENTION DISCLOSURES EXAMINED FOR PATENTABILITY  
ASSESSMENT DURING MARCH 2014 to MARCH 2015**

Sr. No.	INVENTION	INVENTORS	ADDRESS	RESULT
1.	Novel brominated phenothiazine scaffolds and methods of preparation thereof.	Dr. Marilyn daisy Milton, Miss. Swati Bishnoi	Dept. of Chemistry, university of Delhi.	<b>Provisional patent has been filed</b>
2.	Circulating HSP 70 gene expression as prognostic biomarker in essential hypertension	Dr. Kamna Srivastava, Prof. Daman Saluja	Dr. B.R. Ambedkar Centre for Biomedical research, University of Delhi	Invention was found to be non-patentable
3.	Shikimic acid: a potential candidate for the formulation of drug against swine/Avian flu.	Prof. R.K.Saxena, Miss. Priyanka Tripathi, Miss. Garima Rawat	Dept. of Microbiology, University of Delhi south campus	Invention was found to be non-patentable
4.	Effect of crude extract of <i>Nardostachys jatamansi</i> on brain tumor cells.	Dr. Veena Agarwal, Miss. Himanshi Kapoor	Dept. of Botany, university of Delhi	Invention was found to be non-patentable
5.	Manuscript entitled : “Cost effectiveness of classification ensembles”	Manju Bhardwaj, Dr. Vasudha Bhatnagar and Mr.Kapil Sharma	Dept. of Computer Science engineering, University of Delhi	Invention was found to be non-patentable
6.	A Trigonometric tool	Dr. Pankaj Tyagi, Mr. Ranjan kamal, Mr. Vikas tomar	Cluster innovation Center, University of Delhi	<b>Patent has been drafted.</b> <b>Ready for filing</b>
7	Novel brominated phenothiazine scaffolds and methods of preparation thereof.	Dr. Marilyn daisy Milton, Miss. Swati Bishnoi	Dept. of Chemistry, university of Delhi.	<b>Complete patent has been filed On 16 Feb 2015</b>

8.	A method of inducible male sterility in rice for production of hybrid seeds	Prof AK Tyagi & K.V. Rao	Depart of Plant Molecular Biology South campus, DU	Invention has been recommended to be forwarded to DBT for patent filing since it is outcome of DBT funded project.
9.	A method of detecting association of angiotensin II type I receptor gene expression with essential hypertension	Drs. Kamna Srivastava, Sudhir Chandra & Prof Daman Saluja	ACBR, DU	Invention has been published hence can not be patented.
10.	Conversion of wind energy to electrical energy using Fermi turbines in metro train	Dr Savita Roy, Punita verma and Rashmi Jha	Innovation project Daulat Ram College	Invention was found to be non-patentable and nascent type and disclosed in newspapers and other reports. Inventor was advised to make a collaborative project with DMRC to take this forward.
11.	Synthetic merB gene for apt expression in plants to detoxify organo-mercurials	P. Paradh Saradhi P. Sharmila, Kavita Singh and P. Ananda Kumar	Dept. of Environmental Science	Not patentable since entire thesis has been uploaded on internet in 2013.
12.	Synthetic merBps gene-organomercurial system is ideal for selecting transformed cells and raising transgenics.	P. Paradh Saradhi P. Sharmila, Kavita Singh and P. Ananda Kumar	Dept. of Environmental Science	Not patentable since entire thesis has been uploaded on internet in 2013

**Enclosure 2:**

**PATENT APPLICATIONS DRAFTED AND FILED:**

1.	Novel brominated phenothiazine scaffolds and methods of preparation thereof.  <b>Provisional Patent Application</b>	Dr. Marilyn Daisy Milton, Miss. Swati Bishnoi	. 2110/DEL/2014  25 -7-2014	Dept. of Chemistry, University of Delhi
2.	Novel brominated phenothiazine scaffolds and methods of preparation thereof.  <b>Complete Patent Application</b>	Dr. Marilyn Daisy Milton, Miss. Swati Bishnoi	2110/DEL/2014  16-2-2015	Dept. of Chemistry, University of Delhi