Department: Research & Development

Collaborative activities with other institutions/ research establishments/ industry for research and academic development of faculty and students

Sl.	Documents Attached
No.	
1.	E-copies of Collaboration/Related Documents

3.7.1



Key Indicator 3.7 Collaboration (20)

3.7.1 Number of collaborative activities with other institutions/research establishments/industry for research and academic development of faculty and students per year (10)
3.7.1.1: Total number of Collabrative activites with other institutions/research establishment/industry for research and academic development of faculty and students year wise during the last five years

Name of the collaborating agency with contact Name of the participant Year of Duration Nature of the activity Link to the SI. No. Title of the collaborative activity details collaborat relevant document ion 2011 Teacher and Research in the area To have collaborative academic and research Baba Farid University of Health Sciences, Faridkot Punjab Technical 5 years of life Sciences, Engineering and programme in the area of Life Sciences, University, Kapurthala Technology **Engineering and Technology** Raiiv Gandhi national university of Law, Patiala Puniab Technical 2011 5 years Academic activities, research and Academic collaboration for exchange of publication students and members of faculty of both University, Kapurthala to develop joint training and institutions research programmes 2012 Academic collaboration Indian Institute of Tourism and Travel **Puniab Technical** 5 Years Academic Collaboration and Management, Gwalior University, Kapurthala research programme in the area of tourism and allied sectors Punjab Technical 2014 Academic collaboration Sardar Swaran Singh National Institute of 5 Years Collaborative academic, research and faculty development Renewable Energy, Kapurtahala University, Kapurthala programme in the area of Bioenergy and related fields Council of Scientific and Industrial Research, New IK Gujral Punjab 2019 3 Years Collaboration academic. Academic collaboration, Research and faculty Research and faculty Delhi (CSIR-Central Leather Research Institute, **Technical University** development programme Chennai) development programme in different areas of technical education Collaborations in Academic and Research Sphaera Pharma Private Limited IK Guiral Puniab 2021 5 years Collaborate in Academic and Research related activities **Technical University** related activities especially in the arears of



Collaborations in Academic and Research

related activities

R and S Chemicals Inc, Kannapolis NC, USA

do sero

2021

5 Years

IK Gujral Punjab

Technical University

1

Pharmaceutical Sciences

Collaborate in Academic and

Research related activities

especially in the arears of Pharmaceutical Sciences

E-copies of Collaboration/Related Documents



MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA



ASNI

BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

Jointly introducing Post Graduate dual degrees/diploma courses in Healthcare, Management and Technology at Centres to be established in Punjab

This memorandum of Understanding (MoU), entered into on **08-04-2011**, is by and between Punjab Technical University, Kapurthala having its registered office at Kapurthala (here hereinafter referred to as "PTU"), which expression shall, where the context so admits, be deemed to include its successors, executers and administrators of the first party

And

Baba Farid University of Health Sciences, Faridkot having its registered office at Faridkot (here hereinafter referred to as "BFHUS"), which expression shall, where the context so admits, be deemed to include its successors, executers and administrators of the second party

Both the parties mutually agree as under:

1. Whereas both the parties agree to start post-graduate and research courses in healthcare, management and technology.

Whereas both the parties agreed that these courses will be run either of the two locations i.e. Giani Zail Singh College of Engineering and Technology, Bathinda and Guru Gobind Singh Medical College, Faridkot, as may be mutually agreed.

 Whereas the curriculum, eligibility qualifications, durations of the course (degree / diploma) will be decided mutually and notified by the parties.

 Whereas the party which has predominant component in a course / programme will run and manage such a programme / course and the other party will render full assistance and guidance.

 Whereas the party having predominant component in a course / programme will appoint a course Director and the staff. The administrative cost will be borne by the parties for their respective component.

 Whereas a Board of Studies will be established specifically for each such programme / course as may be mutually agreed by the parties.

 Whereas the duration of the degree / diploma / research courses will be decided mutually by both the parties.

8. Whereas the students will be admitted to the courses as per policy, which may be mutually agreed between the parties, but both the parties will ensure that the reservation policy of the State Govt. in matters concerning the admissions in top educational institutions is followed in letter and spirit.

 Whereas the students admitted to these courses/programmes will be awarded a dual degree by the parties.

10. Whereas the courses will be run on self-financing basis, the expenditure will be borne by both the parties for their respective components. However the fee and other charges as may be collected for a course / programme will be shared by the parties on pro-rata basis, to be decided mutually.

11. Whereas both the parties agreed that they will facilitate the placement of the students through their respective placement cells.

12. Whereas both the parties agree that the minimum number of students admitted to a course / programme will be twenty.

13. Whereas all the disputes arising out of this agreement and all the questions relating to the interpretation of this agreement shall be decided by the Chief-Secretary Govt. of Punjab, whose decision will be final.

14. Both the Universities will seek prior approval if so needed from the relevant regulatory councils / bodies at the National level (wherever and whichever applicable) before starting courses.

This Memorandum of Understanding sets forth the understanding of the parties.

Baba Farid University of Health Sciences Faridkot Punjab Technical University Kapurthala

By MERO Strue, R&D Deptt. By 2 mos 3 IKG Pungab Technical Univ.

- TERMS AND CONDITIONS (These are general guidelines and may need to be modified 2. on case to case basis).
 - This MoU is valid for a period of Five years at the first instance, but can be extended with the consent of both the parties.
 - This MoU shall be deemed to have been automatically rescinded after the expiry of the MoU period, unless renewed for any further period as per mutually agreed upon terms at a later stage.
 - (iii) Either of the parties hereto shall be entitled to terminate the MoU at any time with valid reasons, acceptable in writing to both parties and in such case, the MoU will terminate six months after the date of written notification or on the date of expiry of the MoU, whichever is earlier. In case of such premature termination of the MoU, all rights and obligations of both parties shall automatically cease, except for those covered by written contracts including ongoing collaborative activity that can no longer be cancelled.
 - (iv) In case of any dispute that may crop up during execution of MoU, the matter would be settled through arbitration by referring to Arbitration Committee of a member nominated each by two parties and one member will be jointly nominated by two parties.
 - (v) Faculty of both the Universities will be considered at par for the purpose of research guidance.
 - (vi) The available research facilities of both the Universities will be open for the research scholars registered with either of the Universities. To utilize these facilities the research scholars will be considered at par with the research scholars of either of the University.
 - (vii) Both the Universities can collaborate on research projects and joint proposals may be submitted to the funding agencies.
 - (viii) Research scholars can fulfill the residency requirements from either of the University
 - (ix) All credits and benefits for collaborative work including the intellectual property (IP) generated during the tenancy of project would be equally shared between both parties i.e. both parties shall be the joint owners of this IP.
 - The collaborative programme between two parties shall be coordinated by a Coordination Committee consisting of one member from each organization.
 - The decision regarding patenting of the technology developed shall be taken jointly by the Co-ordination Committee. In case the technology developed is to be patented, the cost of patent and benefits accrued shall be shared as per the consent of both the parties. Rights pertaining to third party, if any will be decided jointly by the first two parties. Rights for commercialization shall rest jointly with both the parties and shall be decided by the coordination committee. In case of involvement of private sector, decision will be taken through joint consultation and keeping in view the consent of both the parties.

IN WITNESS WHEREOF, the authorized representatives of both parties have hereunto affixed their signatures on the dates indicated below:

For the					
Baba Farid	University	of	Health	Sciences	
Faridkot					

Punjab Technical University Kapurthala

Vice-Chancellor

Vice-Chancellor

Date: 08-04-2011

WITNESSES

Signed in the presence of

Signed in the presence of

Dr., BFUHS

Dr. Buta Singh Sidhu Dean (Academics), PTU

DEAN R&D Deptt. IKG Punjab Technical Univ. Jalandhar



MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT



AND PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA

[COLLABORATIVE ACADEMIC AND RESEARCH PROGRAMME]

- 1. The Baba Farid University of Health Sciences hereinafter referred to as "BFUHS" is a premier Institution established in the memory of great Sufi Saint Baba Farid under an Act passed by the Legislature of the State of Punjab in July, 1998. The mission of the University is to create an intellectual, academic and physical environment, conducive to free flow of ideas and exchange of information between various faculties of the University and between this University and other Universities of Health Sciences in the country and abroad, thereby opening a window to the world for the health professionals, health planners, health managers, biomedical and social scientists and educators in health sciences of the country. Fifth of its kind in India, First in Northern India-Punjab Govt. deserves the credit of establishing it. Due to inadequacy of health professionals (in quantity & quality) the need was imminent. Such a University is expected to be a "Pace-setter" in developing appropriate modes & models of Health Care. University is committed in providing Community oriented need based education & Training programmes for Health professionals.
- 2. Punjab Technical University (PTU) was established by an act of State Legislature on 16th Jan.1997, to promote Technical, Management & Pharmaceutical Education in the state at the degree level and above. The University has the mandate to set up Centres of Excellence in Emerging Technologies and for promoting Training, Research & Development in these areas. One of the main focuses of the University at this time is in the area of professional & skill oriented technologies to the masses. The University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and the state in particular. With this goal in mind, the University is promoting a number of courses in different streams in regular as well as distance education programmes. Now the University, under its administration, has around 300 Colleges, offering Courses in Engineering, Management, Pharmacy, B.Sc. MLT, Hotel Management & Catering Technology and IT Disciplines and around 2000 Learning Centres under Distance Education Programme. It has taken new initiatives in technical education to provide latest trends in technology and give opportunity to student and faculty to interact with the technology leaders in the country including e-Governance to PTU.

This MEMORANDUM OF UNDERSTANDING (MoU) is entered into on this 08-04-2011. BETWEEN

The Baba Farid University of Health Sciences (BFUHS) represented by its Vice-Chancellor, having its office at Faridkot, Punjab in India hereinafter referred to as the PARTY OF THE FIRST PART

AND

The Punjab Technical University (PTU), represented by its Vice-Chancellor, having its office at Kapurthala (Punjab) in India hereinafter referred to as the PARTY OF THE SECOND PART

WITNESSETH that

WHEREAS, the Party of the First Part is an Educational Institution of National importance engaged in advancement of teaching, research and extension activities in various fields of health sciences.

WHEREAS, the Party of the Second part is an Educational Institution engaged in advancement of teaching, research and extension activities in various fields of technical education.

WHEREAS both, the party of the First Part and the party of the Second Part have come to an understanding to promote Teaching, Research and Education

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

1. STATEMENT OF PURPOSE INCLUDING OBJECTIVES

To have collaborative academic and research programme in the area of Life Sciences, Engineering and The Fine Ngy.

R&D Deptt Page 1 of 2

IKG Punjab Technical Univ.

In your

BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

0

D. Mossi

- 2. TERMS AND CONDITIONS (These are general guidelines and may need to be modified on case to case basis).
 - This MoU is valid for a period of five years at the first instance, but can be extended with the consent of both the parties.
 - (ii) This MoU shall be deemed to have been automatically rescinded after the expiry of the MoU period, unless renewed for any further period as per mutually agreed upon terms at a later stage.
 - (iii) Either of the parties hereto shall be entitled to terminate the MoU at any time with valid reasons, acceptable in writing to both parties and in such case, the MoU will terminate six months after the date of written notification or on the date of expiry of the MoU whichever is earlier. In case of such premature termination of the MoU, all rights and obligations of both parties shall automatically crease, except for those covered by written contracts including ongoing collaborative activity that can no longer be cancelled.
 - (iv) In case of any dispute that may crop up during execution of MoU, the matter would be settled through arbitration by referring to Arbitration Committee of a member nominated each by two parties and one member will be jointly nominated by two parties.
 - (v) Faculty of both the Universities will be considered at par for the purpose of research guidance.
 - (vi) Faculty of Indian Institute of Tourism and Travel Management would be able to register scholars who have successfully completed AICTE approved 2 years PGDM/PGDBM (where the duration of the course is at par university MBA) programmes from any of IITTM centers. Faculty would also be allowed to register candidates for the programme at it different centers.
 - (vii) Scholars so completing the requirements of the research programme shall be awarded PhD degree by Punjab Technical University, Kapurthalla.
 - (viii) The available research facilities of both of the institutions will be open for the research scholars registered at either of the institutions. To utilize these facilities the research scholars viill be considered at par with research scholars of either of the institution.
 - (ix) Research scholars will fulfill the coursework and residency requirements from the respective institutions.
 - (x) Both the Institutions can collaborate on research projects and joint proposals may be submitted to the funding agencies.
 - (xi) All credits and benefits for collaborative work including the intellectual property (IP) generated during the tenancy of project would be equally shared between both parties i.e. both parties shall be the joint owners of this IP.
 - (xii) The collaborative programme between two parties shall be coordinated by a Coordination Committee consisting of one member from each organization.

IN WITNESS WHEREOF, the authorized representatives of both parties have hereunto affixed their signatures on this 10th day of June, 2011 as indicated below:

For the

Indian Institute of Tourism and Travel Management, Gwalior

Mary 2:2.12

Director

For the

Punjab Technical University Kapurthala

. 3. mo30 2.2.1

Vice Chancellor

WITNESSES

Signed in the presence of

1

Signed in the presence of

2212

R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

for for the

MEMORANDUM OF UNDERSTANDING

FOR

COLLABORATIVE ACADEMIC AND RESEARCH PROGRAMME

BETWEEN

RAJIV GANDHI NATIONAL UNIVERSITY OF LAW, PATIALA
PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA







DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

da V ges 6



BETWEEN

RAJIV GANDHI NATIONAL UNIVERSITY OF LAW, PUNJAB AND



PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA

[COLLABORATIVE ACADEMIC AND RESEARCH PROGRAMME]

PREAMBLE

The Rajiv Gandhi National University of Law, Punjab situated at Patiala, hereinafter referred to as "RGNUL" is a premier Institute established in 2006 by Punjab Government (Punjab Act No. 12 of 2006). The RGNUL was established to satisfy the need of having a centre of excellence in legal studies in the Northern part of the country. RGNUL is affiliated to UGC and approved by Bar Council of India. In a short span of time RGNUL has established a number of specialized centers in its campus catering to the myriad of needs of its students. The most important among them are the following:

- Centre for Advanced Studies in Criminal Law (CASCL)
- · Centre for Consumer protection Laws and Advocacy (CCPLA)
- · Centre for Advanced Study in International Humanitarian Law (CASH)
- RGNUL Institute of Competitive Exams (RICE)
- · School of Agricultural Law and Economics

The objective of RGNUL, as enshrined in the RGNUL Act, 2006, inter alia, includes "liaising with institutions of higher learning and research in India and abroad". It has got its goals to provide quality education, undertake basic, applied and adaptive research to seek appropriate solutions to the emerging problems and develop effective mechanisms for technology transfer. The university as first party is committed to developing quality manpower and research collaborations.

Whereas, the Second party, Punjab Technical University (PTU) was established by an act of State Legislature on 16th January 1997, to promote Technical, Management and Pharmaceutical Education in the state at the degree level and above. The University has the mandate to set up Centres of Excellence in Emerging Technologies and for promoting Training, Research & Development in these areas. One of the main focuses of the University at this time is in the area of professional & skill oriented technologies to the masses. The University has undertaken the task of training the students to help in the development of skilled manpower in this sector in the country in general and in the state particular. With this goal in mind the University is promoting a number of courses in different streams in regular as well as distance education programmes. Now the University, under its administration, has around 400 Colleges, offering Courses in Engineering, Management, Pharmacy, MLT, Hotel Management & Catering Technology and IT Disciplines and around 2000 Learning Centres under Distance Education Programme. It has taken new initiatives in technical education to provide latest trends in technology and give opportunity to student and faculty to interact with the technology leaders in the country including e-Governance to PTU.

Whereas, The RGNUL desires to establish academic collaboration with institutions of excellence in the field of law, Social Science and other disciplines in India and other countries abroad and the PTU is one among such recognized institutions and seeks to promote the institutional collaborations for academic, research and publication through this Memorandum of Understating.

SCOPE OF AGREEMENT

This Memorandum of Understanding is signed between the RGNUL as First Party and the PTU Kapurthala as Second Party for the purpose of Academic Collaboration that will encompass exchange of students and members of faculty between the two parties as well as other academic activities, research and publication. In addition to this, active efforts will be made to develop joint training and research programmers that will be pursued in a collaborative spirit. The collaboration between the First Party and the Second Party shall be subject to following:

I. TERMS AND CONDITIONS OF COOPERATION:

- The RGNUL and the PTU shall collaborate in mutually agreeable academic events, teaching, training and research, wherever feasible. Such collaboration will be based on mutually agreeable terms and conditions specifically agreed for each of the collaborative efforts;
- The RGNUL and the PTU shall offer full time regular as well as optional courses to the undergraduate and post graduate courses offered at these institutions from time to time on mutually agreeable terms and conditions;
- The Ph.D. candidates in interdisciplinary areas of research involving law from the PTU shall work under the supervision of the faculty members of RGNUL or if agreed, jointly supervised by the faculty members of both the parties to this MOU;
- 4. Faculty members from each of these universities shall be invited for important seminars, conferences and for teaching at doctoral level. The financial implications shall be worked out on a

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

Von ass 4

RAJIV GANDHI NATIONAL UNIVERSITY OF LAW, PUNJAB

MoU between PTU & RGNUL, regarding Collaborative Academic & Research Programme

5. Those modalities for a similar exchange of researchers and faculty members will be laid down through mutual discussion that should be made operational for a period of five years;

Ph.D. Scholars of both the universities shall be allowed to make use of the library resources of each other and to have academic interaction with the faculty;

- Research Scholars and Teaching Faculty of both the RGNUL and the PTU will explore possibility of taking up collaborative research work and also apply jointly or individually for funding from national and international agencies, governments and other funding agencies;
- The collective programme between two parties shall be coordinated by Coordination Committee consisting of one member form each organisation.
- Any financial implication emerging out of such collaborations (other than the fees of the students etc) shall be worked out and decision will be taken with mutual agreement;
- 10. In case of any dispute that may crop up during execution of MOU, the matter would be settled through arbitration referred to Arbitration Committee of a member nominated each by two parties and one member will be jointly nominated by two parties.

II. AREAS OF COOPERATION

This MOU expresses a mutual desire by the RGNUL and the PTU to co-operates in intellectual and research capacity and scholarship. Additional areas of co-operation may be added by written consent of both the parties. Both parties will act in good faith to ensure that the objectives in this Memorandum are realized.

III. INTELLECTUAL PROPERTY AND CONFIDENTIALITY

- In respect of each project and programmes of co-operation, the parties shall negotiate and mutually agree in writing on their respective rights to intellectual property and commercial exploitation of the same (including without limitation, trademarks and service marks, copyright, patents, designs and confidential information pertaining thereto).
- Neither party shall, at any time disclose to any third party any confidential information of the other party which is acquired in the course of activities under this Memorandum, a collaborative project or a programme, without the prior consent of the other party in writing.

The confidentiality obligations herein will not apply to information in the public domain; information in the possession of the receiving party prior to the disclosure of the information; information which is independently developed by the receiving party; information required to be released by law; and information which is rightfully received by the receiving party from third parties without any breach of confidentiality obligations.

NON-BINDING NATURE OF MEMORANDUM

Nothing in this Memorandum shall be construed as creating any contract, partnership, agency or other legal relationship between the parties. This Memorandum is only a non-binding statement of intent to foster genuine and mutually beneficial collaboration.

Progress in realizing the terms and conditions referred to herein will be reviewed periodically as mutually agreed and the memorandum may be amended at any time by mutual consent and in writing.

TERMINATION

- 1. This memorandum shall come into force immediately upon its signature by the parties to this MOU.
- The validity of this Memorandum of Understanding is initially for a period of five years from the date of its execution and the same can be further extended on mutual agreement.
- This Memorandum of understanding can be terminated by either party by giving six months written notice to the other and without jeopardising the coursework or registration of any of the students of either institution. The implementation and/or continuance of programmes or projects established pursuant to this memorandum prior to the effective date of termination shall not be affected by the termination of this Memorandum.

IN WITNESS WHEREOF, this Memorandum of Understanding is executed by the parties hereto on this 30th day of November, 2011.

For the

Rajiv Gandhi National University of Law

Punjab

Vice Chancellor Dr. Paramjit S. Jaswal

Witnesses Signed in the presence of

Misandly Registrar

For the

Punjab Technical University

12/30.11.2011

Kapurthala

Vice Chancellor Dr. Rajneesh Arora

Signed in the presence of

R&D Deptt.
IKG Punjab Technical Univ.

Memorandum of Understanding (MoU)

Between

Punjab Technical University, Kapurthala

and

Indian Institute of Tourism and Travel Management

(Collaborative Academic and Research Programme)

- 1. Punjab Technical University (PTU) was established by an act of State Legislature on 16th January 1997, to promote Technical, Management & Pharmaceutical Education in the state at the degree level and above. The University has the mandate to set up Centres of Excellence in Emerging Technologies and for promoting Training. Research & Development in these areas. One of the main focuses of the University at this time is in the area of professional & skill oriented technologies to the masses. The University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and he state in particular. With this goal in mind, the University is promoting a number of courses in different streams in regular as well as distance education programmes. Now the University, under its administration, has around 300 Colleges, offering Courses in Engineering, Management, Pharmacy, B.Sc. MLT, Hotel Management & Catering Technology and IT Disciplines and around 2000 Learning Centres under Distance Education Programme. It has taken new initiatives in technical education to provide latest trends in technology and give opportunity to student and faculty to interact with the technology leaders in the country including e-Governance to PTU.
- 2. Indian Institute of Tourism and Travel Management (IITTM), an organisation of Ministry of Tourism, Government of India, is the oldest and largest tourism school in South Asia. As a dedicated tourism school, IITTM, engages in divers activities ranging from teaching and training to research and consultancy in tourism and allied fields. IITTM caters to the tourism needs of the country through its centres located in different regions of the country. IITTM has its headquarters at Gwalior in Central India. Centres of IITTM are located at Delhi (north), Goa (West), Bhubaneswar (East) and Nellore (South): IITTM from its different centres offers two year Post Graduate Diplomas in Management. These programmes are all approved by All India Council for Technical Education (AICTE). Besides these programmes, IITTM is also exclusively responsible for training the highest level of tour guides (Regional Level Guides) who are licensed by Central Government. IITTM is fast becoming the think tank for the government. It conducts researches to provide necessary inputs for policy making and evaluation. IITTM is also approached by various public and private parties for consultancies including specialist training, feasibility reports preparation etc. IITTM also carries out extension programmes. IITTM is also the nodal agency for Central Government's ambitious Capacity Building for Services Providers (CBSP) scheme.

This Memorandum of Understanding (MOU) is entered into on this day of 2nd February, 2012 between

The Punjab technical University (PTU) represented by its Vice Chancellor, Having its office at Kapurthala (Punjab) in India hereinafter referred to as the *PARTY OF THE FIRST PART* and The Indian Institute of Tourism and Travel Management (IITTM) represented by its Director, having its office at Govindpuri, Gwalior (M.P.) in India hereinafter referred to as the *PARTY OF THE SECOND PART*.

WITNESSETH that

WHEREAS, the Party of the First part is an Educational Institution engaged in advancement of teaching, research and extension activities in various fields of technical education; and

WHEREAS, the Party of the Second Part is an Educational Institution of National importance engaged in advancement of teaching, research and extension activities in various fields of tourism and allied sectors.

WHEREAS both, the party of the First Part and the party of the Second Part have come to an understanding to promote Teaching, Research and Education

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

STATEMENT OF PURPOSE INCLUDING OBJECTIVES
 To have collaborative academic and research programme in the area of tourism and allied sectors.

J. miss

16 to 2.12

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

1 do 22

- 2. TERMS AND CONDITIONS (These are general guidelines and may need to be modified on case to case basis).
 - (i) This MoU is valid for a period of five years at the first instance, but can be extended with the consent of both the parties
 - (ii) This MoU shall be deemed to have been automatically rescinded after the expiry of the MoU period, unless renewed for any further period as per mutually agreed upon terms at a later stage
 - (iii) Either of the parties hereto shall be entitled to terminate the MoU at any time with valid reasons, acceptable in writing to both parties and in such case, the MoU will terminate six months after the date of written notification or on the date of expiry of the MoU whichever is earlier. In case of such premature termination of the MoU, all rights and obligations of both parties shall automatically crease, except for those covered by written contracts including ongoing collaborative activity that can no longer be cancelled.
 - (iv) In case of any dispute that may crop up during execution of MoU, the matter would be settled through arbitration by referring to Arbitration Committee of a member nominated each by two parties and one member will be jointly nominated by two parties.
 - (v) Faculty of both the Universities will be considered at par for the purpose of research guidance.
 - (vi) Faculty of Indian Institute of Tourism and Travel Management would be able to register scholars who have successfully completed AICTE approved 2 years PGDM/PGDBM (where the duration of the course is at par university MBA) programmes from any of ITTM centers. Faculty would also be allowed to register candidates for the programme at it different centers.
 - (vii)Scholars so completing the requirements of the research programme shall be awarded PhD degree by Punjab Technical University, Kapurthalla.
 - (viii) The available research facilities of both of the institutions will be open for the research scholars registered at either of the institutions. To utilize these facilities the research scholars ** will be considered at par with research scholars of either of the institution.
 - (ix) Research scholars will fulfill the coursework and residency regulrements from the respective institutions.
 - (x) Both the Institutions can collaborate on research projects and joint proposals may be submitted to the funding agencies.
 - (xi) All credits and benefits for collaborative work including the intellectual property (IP) generated during the tenancy of project would be equally shared between both parties i.e. both parties shall be the joint owners of this IP.
 - (xii) The collaborative programme between two parties shall be coordinated by a Coordination Committee consisting of one member from each organization.

IN WITNESS WHEREOF, the authorized representatives of both parties have hereunto affixed their signatures on this 10th day of June, 2011 as indicated below:

For the

Indian Institute of Tourism and Travel Management, Gwalior

Director

WITNESSES

Signed in the presence of

For the

Punjab Technical University

Vice Chancellor

the presence of

DEAN R&D Deptt. IKG Punjab Technical Univ.

Jalandhar

Memorandum of Understanding (MoU)

Between

Punjab Technical University, Kapurthala

And

Indian Institute of Tourism and Travel Management

(Collaborative Academic and Research Programme)

- 1. Punjab Technical University (PTU) was established by an act of State Legislature on 16th January 1997, to promote Technical, Management & Pharmaceutical Education in the state at the degree level and above. The University has the mandate to set up Centres of Excellence in Emerging Technologies and for promoting Training. Research & Development in these areas. One of the main focuses of the University at this time is in the area of professional & skill oriented technologies to the masses. The University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and he state in particular. With this goal in mind, the University is promoting a number of courses in different streams in regular as well as distance education programmes. Now the University, under its administration, has around 300 Colleges, offering Courses in Engineering, Management, Pharmacy, B.Sc. MLT, Hotel Management & Catering Technology and IT Disciplines and around 2000 Learning Centres under Distance Education Programme. It has taken new initiatives in technical education to provide latest trends in technology and give opportunity to student and faculty to interact with the technology leaders in the country including e-Governance to PTU.
 - 2. Indian Institute of Tourism and Travel Management (IITTM), an organisation of Ministry of Tourism, Government of India, is the oldest and largest tourism school in South Asia. As a dedicated tourism school, IITTM, engages in divers activities ranging from teaching and training to research and consultancy in tourism and allied fields. IITTM caters to the tourism needs of the country through its centres located in different regions of the country. IITTM has its headquarters at Gwalior in Central India. Centres of IITTM are located at Delhi (north), Goa (West), Bhubaneswar (East) and Nellore (South). IITTM from its different centres offers two year Post Graduate Diplomas in Management. These programmes are all approved by All India Council for Technical Education (AICTE). Besides these programmes, IITTM is also exclusively responsible for training the highest level of tour guides (Regional Level Guides) who are licensed by Central Government. IITTM is fast becoming the think tank for the government. It conducts researches to provide necessary inputs for policy making and evaluation. IITTM is also approached by various public and private parties for consultancies including specialist training, feasibility reports preparation etc. IITTM also carries out extension programmes. IITTM is also the nodal agency for Central Government's ambitious Capacity Building for Services Providers (CBSP) scheme.

This Memorandum of Understanding (MOU) is entered into on this day of 2nd February, 2012 between

The Punjab technical University (PTU) represented by its Vice Chancellor, Having its office at Kapurthala (Punjab) in India hereinafter referred to as the PARTY OF THE FIRST PART and The Indian Institute of Tourism and Travel Management (IITTM) represented by its Director, having its office at Govindpuri, Gwalior (M.P.) in India hereinafter referred to as the PARTY OF THE SECOND PART.

WITNESSETH that

WHEREAS, the Party of the First part is an Educational Institution engaged in advancement of teaching, research and extension activities in various fields of technical education; and

WHEREAS, the Party of the Second Part is an Educational Institution of National importance engaged in advancement of teaching, research and extension activities in various fields of tourism and allied sectors.

WHEREAS both, the party of the First Part and the party of the Second Part have come to an understanding to promote Teaching, Research and Education

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

STATEMENT OF PURPOSE INCLUDING OBJECTIVES
 To have collaborative academic and research programme in the area of tourism and allied sectors.

Jegur. e

DEAN R&D Deptt. 3

IKG Punjab Technical Univ.

N 20 083

Jalandhar

- TERMS AND CONDITIONS (These are general guidelines and may need to be modified on case to case basis).
 - This MoU is valid for a period of five years at the first instance, but can be extended with the
 consent of both the parties.
 - (ii) This MoU shall be deemed to have been automatically rescinded after the expiry of the MoU period, unless renewed for any further period as per mutually agreed upon terms at a later stage.
 - (iii) Either of the parties hereto shall be entitled to terminate the MoU at any time with valid reasons, acceptable in writing to both parties and in such case, the MoU will terminate six months after the date of written notification or on the date of expiry of the MoU whichever is earlier. In case of such premature termination of the MoU, all rights and obligations of both parties shall automatically crease, except for those covered by written contracts including ongoing collaborative activity that can no longer be cancelled.
 - (iv) In case of any dispute that may crop up during execution of MoU, the matter would be settled through arbitration by referring to Arbitration Committee of a member nominated each by two parties and one member will be jointly nominated by two parties.
 - (v) Faculty of both the Universities will be considered at par for the purpose of research guidance.
 - (vi) Faculty of Indian Institute of Tourism and Travel Management would be able to register scholars who have successfully completed AICTE approved 2 years PGDM/PGDBM (where the duration of the course is at par university MBA) programmes from any of IITTM centers. Faculty would also be allowed to register candidates for the programme at it different centers.
 - (vii) Scholars so completing the requirements of the research programme shall be awarded PhD degree by Punjab Technical University, Kapurthalla.
 - (viii) The available research facilities of both of the institutions will be open for the research scholars registered at either of the institutions. To utilize these facilities the research scholars will be considered at par with research scholars of either of the institution.
 - (ix) Research scholars will fulfill the coursework and residency requirements from the respective institutions.
 - (x) Both the Institutions can collaborate on research projects and joint proposals may be submitted to the funding agencies.
 - (xi) All credits and benefits for collaborative work including the intellectual property (IP) generated during the tenancy of project would be equally shared between both parties i.e. both parties shall be the joint owners of this IP.
 - (xii) The collaborative programme between two parties shall be coordinated by a Coordination Committee consisting of one member from each organization.

IN WITNESS WHEREOF, the authorized representatives of both parties have hereunto affixed their signatures on this 10th day of June, 2011 as indicated below:

For the

Indian Institute of Tourism and Travel Management, Gwalior

Mart 2.2.12

Director

For the

Punjab Technical University Kapurthala

Vice Chancellor

WITNESSES

Signed in the presence of

1 1

Signed in the presence of

22/1

DEAN R&D Deptt. IKG Punjab Technical Univ. Jalandhar

V Do do

Memorandum of Understanding (MoU)

hetween

Punjab Technical University, Kapurthala

and

Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala (Collaborative Academic and Research Programme)

- 1. PUNJAB TECHNICAL UNIVERSITY, JALANDHAR, established by an act of State Legislature on 16th January 1997, for the promotion of the Technical education (herein after referred to as "PTU", which expression shall include its successor (s), administrator(s) or permitted assignees) of the first part. The University has a mandate to set up Centres of Excellence in Emerging Technology (ies) for promoting Training, Research & Development in the field of the applied sciences and technology. The University is well competently working for providing professional & skill oriented technologies to the masses. PTU is also promoting a number of courses in different streams in both, regular as well as through distance education programs.
- 2. SARDAR SWARAN SINGH NATIONAL INSTITUTE OF RENEWABLE ENERGY (SSS-NIRE) has been established by the Ministry of New and Renewable Energy, Govt. of India for R&D activities in the area of renewable energy. The institute is to conduct Research, Design and Development activities in all the areas relating to new and renewable resources (specially in bioenergy), energy needs in rural areas, including human resources development at all levels, post-doctoral research and research leading to commercialization of the new and renewable energy technologies. The Institute has the objectives of developing its laboratories with the stateof-the-art facilities in the area of biodiesel, biogas, bioethanol, thermochemical conversion and biomass management for R&D works and human resources development. In addition to that the Institute will utilize its human resources for organizing training programs from time to time and commercial utilization of lab-scale facilities. The institute is to disseminate the technologies developed to the end-users and stakeholders at state/national level.

This Memorandum of Understanding (MOU) is entered into on this 4th day of March 2014 between

The Punjab technical University (PTU) represented by its Vice Chancellor, having its office at Kapurthala (Punjab) in India hereinafter referred to as the PARTY OF THE FIRST PART and Sardar Swaran Singh National Institute of Renewable Energy (SSS-NIRE) represented by its Director, having its office at Kapurthala (Punjab) in India hereinafter referred to as the PARTY OF THE SECOND PART.

WITENESSETH that

WHEREAS, the party of the First part is an Educational Institution engaged in advancement of teaching, research and extension activities in various fields of technical education; and

Le la J. Wash

DEAN R&D, Deptt. IKG Punjab Technical Univ.

Jalandhar

WHEREAS, the Party of the Second Part is an apex R&D Institution of national importance engaged in the advancement of research & development and extension activities in various fields of Renewable Energy especially in Bio-energy.

WHEREAS both, the party of the First Part and the party of the Second Part have come to an understanding jointly to promote Teaching, Research and Education.

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

- STATEMENT OF PURPOSE INCLUDING OBJECTIVES
 To have collaborative academic, research and faculty development programme in the area of Bio-energy and related fields.
- 2. TEARMS AND CONDITIONS (These are general guidelines and may need to me modified on case to case basis)
 - (i) This MoU is valid for a period of five years at the first instance, but can be extended with the consent of both the parties.
 - (ii) This MoU shall be deemed to have been automatically rescinded after the expiry of the MoU period, unless renewed for any further period as per mutually agreed upon terms at a later stage.
 - (iii) Either of the parties hereto shall be entitled to terminate the MoU at any time with valid reasons, acceptable in writing to both parties and in such case, the MoU will terminate six months after the date of written notification or on the date of expiry of the MoU whichever is earlier. In case of such premature termination of the MoU, all rights and obligations of both parties shall automatically cease, except for those covered by written contracts in including ongoing collaborative activity that can no longer be cancelled.
 - (iv) In case of any dispute that may crop up during execution of MoU, the matter would be settled through arbitration by referring to Arbitration Committee of member nominated each by two parties and one member will be jointly nominated by two parties.
 - (v) Faculty of both the Institutions will be considered at par for the purpose of research guidance.
 - (vi) Scientists of Sardar Swaran Singh National Institute of Renewable Energy would be able to register their scholars who have joined the Institute as Junior Research Fellow (JRF)/Senior Research Fellow (SRF) and the Ph.D. regulations of PTU will be followed by SSS-NIRE.
 - (vii) Scholars so completing the requirements of the research programme shall be awarded Ph.D. degree by Punjab Technical University, Kapurthala.
 - (viii) Full time Technical and Scientific staff of the Institute would be able to register for Ph.D. programme.

Jeen 3, 433/

DEAN R&D Deptt.

IKG Punjab Technical Univ.

A Du Con

- (ix) The available research facilities of both of the institutions will be open for the research scholars registered at either of the institutions. To utilize these facilities the research scholars will be considered at par with research scholars of either of the institution.
- (x) Research scholars will fulfill the coursework and residency requirements from the respective Institutions.
- (xi) Both the organizations can collaborate in R&D activities and joint research proposals may be submitted to the funding agencies.
- (xii) All credits and benefits for collaborative work including the intellectual property (IP) generated during the tenancy of project would be equally shared between both the parties i.e. both parties shall be the joint owners of this IP.
- (xiii) The collaborative programme between two parties shall be coordinated by a coordination committee consisting of one member from each organization.

IN WITNESS WHEREOF, the authorized representatives of both parties have hereunto affixed their signatures on this May 30, 2014 as indicated below:

For the

For the

Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala Punjab Technical University Kapurthala

Director Director 3 to

SSS-NIRE, Kapurthala (Puniab) 144 601

WITNESSES

Signed in the presence of

Vice Chancellor

Punjab Technical University
Jalandhar

a. W8 37 30.5.14.

Signed in the presence of

Admin.-cum-Acct. Officer SSS-NIRE, Kapurthala (Punjab) 144 601 30.5.14

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

V In all

MEMORANDUM OF UNDERSTANDING

between

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Anusandhan Bhavan, 2, Rafi Marg, New Delhi-110 001

) re

represented by

CSIR-CENTRAL LEATHER RESEARCH INSTITUTE ADYAR, CHENNAI 600 020

AND

IK GUJRAL PUNJAB TECHNICAL UNIVERSITY
KAPURTHALA 144603

in connection with Collaborative Programmes in R&D

February 2019

1

DEAN
R&D Deptt.
IKG Punjab Technical University

N 20 12

M.1 MEMORANDUM OF UNDERSTANDING

AND

M. 1.2 I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY established by The Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997) having its registered office at, Jalandhar - Kapurthala Highway, VPO - Ibban, Kapurthala-144603, District Kapurthala (hereinafter called IKGPTU, which expression shall where the context so admits includes its successors and permitted assigns) of the other part.

Each shall be referred to as 'party' individually and 'parties' jointly

M.2 PREAMBLE

- M.2.1 Whereas CSIR at its Central Leather Research Institute, Adyar, Chennai-600 020 (hereinafter referred to as CSIR-CLRI) has primarily been engaged in R&D activities in leather and allied areas. It has developed and commercialized a number of processes/ products/knowledge leads in diverse areas. CSIR-CLRI has Regional Centre for Extension & Development (RCED) at Jalandhar which is engaged in R&D and Technical support to industry activities related to leather & allied areas.
- M.2.2 Whereas the IKGPTU was established by an act of State Legislature on 16th Jan 1997, to promote Technical Education in the state at the degree level and above. The University has the mandate to set up Centres of Excellence in Emerging Technologies and for promoting Training, Research & Development in these areas. Now the University.

Maria.

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

John 13

under its administration, has around 200 Colleges, offering Courses in Engineering, Management, Pharmacy, Architecture and other professional disciplines. It has taken new initiatives in technical education to provide latest trends in technology and give opportunity to students and faculty to interact with the technology leaders in the country including e-Governance to IKGPTU.

M.2.5 Whereas CSIR-CLRI and IKGPTU, have come to an understanding to promote Teaching, Research and Education jointly.

Now therefore in consideration of the premises and mutual covenants hereinafter contained, the parties hereto agree as follows:

M.3 SCOPE OF THE MoU

M.3.1 The scope of this MoU is limited to retaining IKGPTU as one of the esteemed collaborators of CSIR-CLRI for collaborative Academic, Research and faculty development programme, as per scope of work detailed in ANNEXURE I to this MoU (hereinafter called ACTIVITY), to be undertaken from time to time depending on specific request from IKGPTU, as per separate Agreement on case to case basis specifying mutually agreeable and well-defined identified roles and responsibilities of each organization, deliverables and other terms and conditions including financial implications and time.

M.4 RESPONSIBILITIES OF CSIR-CLRI

- M.4.1 CSIR-CLRI shall extend necessary cooperation in terms of expertise as well as available infrastructure to IKGPTU in connection with the ACTIVITY.
- M.4.2 CSIR-CLRI shall extend cooperation and provide inputs while finalizing any research project proposed by IKGPTU for submission to a funding agency.

Lui 32

93-

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

N 20 84 14

M.5 RESPONSIBILITIES OF IKGPTU

- M.5.1 IKGPTU shall send specific request seeking the expertise of CSIR-CLRI in respect of the ACTIVITY on case to case basis.
- M.5.5 IKGPTU shall extend the access of its infrastructural as well materials evaluation facilities to CSIR-CLRI in connection with the ACTIVITY.

M.6 EFFECTIVE DATE, DURATION AND TERMINATION OF MOU

- M.6.1 The MoU shall be effective from the date of signing (hereinafter called EFFECTIVE DATE) and shall remain in force for the period of three years from the EFFECTIVE DATE.
- M.6.2 During the tenure of the MoU parties hereto can terminate the MoU either for violation of any of the clauses of the MoU or other work by giving one-month notice in writing to the defaulting party (CSIR-CLRI or IKGPTU). Failure of either party to terminate the MoU on account of breach or default by the other shall not constitute a waiver of that party's right to terminate this MoU.

M.7 SETTLEMENTS

M.7.1 In the event of termination of the MoU vide M.6.2 the right and obligations of the parties hereto shall be settled by mutual discussion.

M.8 CONFIDENTIALITY

M.8.1 During the tenure of the MoU and for a period of 12 months thereafter, both CSIR-CLRI and IKGPTU (including their sub-contractors if any) shall treat as strictly confidential and prevent disclosure thereof of all the information and data exchanged/generated under this MoU for any purposes other than that in accordance with this MoU.

dim's

JD ..

4

DEAN
R&D Deptt.

IKG Punjab Technical Univ.
Jalandhar

V mag

M.9 GENERAL PROVISIONS

- M. 9.1 The CSIR-CLRI shall not be responsible for any damage to property / plant / material / personnel of the IKGPTU during the course of, or consequent to the ACTIVITY taken up under this MoU. Similarly, the IKGPTU shall not be responsible for any damage to property / plant / material / personnel of the CSIR-CLRI during the course of, or consequent to the ACTIVITY taken up under this MoU.
- M.9.2 Both parties shall during the tenure of the MoU or thereafter, be free to take-up, without any prejudice to the other party, collaborative assignments, similar to or same as the ACTIVITY, for other parties on terms and conditions as it may decide upon.
- M.9.3 The MoU shall be the sole repository of the terms and conditions agreed to herein by and between CSIR-CLRI and the IKGPTU and no amendment thereof shall take effect and be binding on either of them except as provided for in clause M.14 hereunder.
- M.9.4 The MoU represents the entire understanding between the parties and supersedes any and all understandings either oral or written hitherto with respect to the subject matter of the Agreement.

M. 10 PUBLICATIONS & INTELLECTUAL PROPERTY RIGHTS GENERATED

M.10.1 Publications & Intellectual Property Rights generated, if any, in respect of the ACTIVITY shall be in the names of researchers connected with the ACTIVITY mentioned as researchers of both the parties. In the publications (paper, reports etc.,), it will be duly acknowledged that the work has been carried out by CSIR-CLRI & IKGPTU under a collaborative assignment.

M. 11 FORCE MAJEURE

M.11.1 Neither party shall be held responsible for non-fulfillment of its respective obligations under this MoU due to the exigency of one or

5

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

/ Ja 2 16

more of the force majeure events such as but not limited to Acts of God / War / Flood / Earthquake / Strike / Lockouts / Epidemics riots, Civil Commotion etc. provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall then mutually decide about the future course of action.

M. 12 NOTICES

M.12.1 All notices and other communications required to be served on the IKGPTU under the terms of this MoU, shall be considered to be duly served if it shall have been delivered to, left with or posted by registered mail/e-mail to the IKGPTU at its following address:

I.K. Gujral Punjab Technical University

Jalandhar-Kapurthala Highway, Kapurthala (Pb.) -144 603

(e-mail: deanric@ptu.ac.in)

Similarly, any notice to be given to the CSIR-CLRI shall be considered as duly served if the same shall have been delivered to left with or posted registered mail/e-mail to CSIR-CLRI at its following address:

Director, CSIR-Central Leather Research Institute, Adyar, Chennai - 600 020. (e-mail: ppbd@clri.res.in)

M. 13 ARBITRATION

M.13.1 Except as hereinbefore provided, any dispute arising out of this MoU, shall be settled by mutual discussion. In case the dispute is not settled, the same shall be referred to the arbitration of two arbitrators, one to be appointed by each party to the dispute and in case of difference of opinion between them to an umpire appointed by the said two arbitrators before entering on the reference, and the decision of such arbitrators or umpire, as the case may be shall be final and binding on both parties. The venue of arbitration shall be at such place as may be fixed by such arbitrators or umpire and the arbitration proceedings shall take place under the Indian Arbitration and Conciliation Act, 1996.

luns

SE.

DEAN
R&D Deptt.

IKG Punjab Technical Univ.

6

Dr. cra

M. 14 AMENDMENTS TO THE MOU

M.14.1 No amendment or modification of this MoU shall be valid unless the same is made in writing by both the parties or their authorised representatives and specifically stating the same to be an amendment of this MoU. The modifications/changes shall be effective from the date on which they are made / executed, unless otherwise agreed to.

SEAL OF PARTIES

In witness there of the parties hereto have signed this MoU on the day, month and year, as mentioned hereinbefore.

Parties

For and on behalf of CSIR-CLRI

For and on behalf of IKGPTU

Signature

Name: Prof.(Dr.) Ajay K Sharma

Designation: Chief Scientist

Designation: Vice Chancellor

Seal

प्रभारी वैज्ञानिक SCIENTIST-IN-CHARGE क्षेत्रीय विस्तार एवं विकास केन्द्र (के.च.अ.सं.) लंदर कॉम्पर्लयस, कपूरथला रोड्, जालन्धर REGIONAL CENTRE FOR EXTENSION & DEVELOPMENT (CLRI) LEATHER COMPLEX, KAPURTHALA ROAD, JALANDHAR

Vice Chancellor

Seal I.K. Gujral Punjab Technical University

Witnesses (Name & Address)

1. Kelleun

Dr. P. Sydhakara

Witnesses (Name & Address)

SCHENILLT

sassional Centre for Emension & Development (CLRI)

SAKATTAR LAL PRINCIPAL TECHNICAL OFFICER Togramai Centre For Ext. & Dev. (CLE esther Complex, Kapurthela Rose bla idhar-144 021

Date 27.92.2019

Date 27.02.2019

7

DEAN IKG Punjab Technical Univ.

(This forms part of the MoU signed between CSIR-CLRI and IKGPTU)

SCOPE OF WORK

(This forms part of the collaborative agreement between CSIR-CLRI and IK Gujral Punjab Technical University, Kapurthala)

The Objective of the work involves the following:

· To have collaborative academic, research and faculty development programme in different areas of technical education.

The scope of the work involves the following:

- > All credits and benefits for collaborative work including the Intellectual Property (IP) generated during the tenancy of the project would be equally shared between the two parties, i.e., both parties shall be the joint owners of this IP.
- > The decision regarding patenting of the technology developed shall be taken by the Co-ordination Committee. In case the technology developed is to be patented, the cost of patent and benefits accrued shall be shared as per the consent of both the parties. Rights, pertaining to third party, if any, will be decided jointly by the first two parties. Rights for commercialization shall rest jointly with both the parties and shall be decided by the coordination committee. In case of involvement of private sector, decision will be taken through joint consultation and keeping in view the consent of both the parties.
- > Both the institutes can prepare and submit joint research projects and joint proposals for funding to the funding agencies like MNRE, DST, CSIR, DBT, etc. based on mutually agreeable terms and conditions.
- > Joint guidance of student projects/thesis in various areas of technical education & research and other areas of national interest at CSIR-CLRI and IKGPTU shall be taken up on terms as listed below:

IKG Punjab Technical Univ. Jalandhar

- Number of students for PhD degree will be decided based on the availability of the scientists/faculty and laboratory infrastructure at CSIR-CLRI/IKGPTU and selection of students desirous of pursuing PhD in relevant fields/areas will be as per IKGPTU regulations.
- The student(s) registered for PhD degree under this MOU will be allotted one research supervisor and one co-supervisor. At least one of supervisors or co-supervisors would be from either organization, i.e., a Faculty member from IKGPTU or its affiliated colleges and, a Scientist from CSIR-CLRI.
- The students registered for PhD degree under this MOU will carry out their PhD research work either at CSIR-CLRI or at IKGPTU depending upon the facilities and requirements. The usage of such facilities & infrastructure will be free of cost for such students at both these institutes
- The students registered for PhD degree under this MOU shall be governed by IKGPTU regulations as amended from time to time.
- The MoU covers the research activities pertaining to only the PhD students registered at IKGPTU where the supervisor/co-supervisor is from CSIR-CLRI. In case of other students and interns of either institutes, the utilization of facilities at the IKGPTU or CSIR-CLRI would entail applicable charges for such students/Interns by IKGPTU or CSIR-CLRI, as the case may be.
- There will be no restrictions on the contents of the thesis and on the publication of results of the thesis, subject to condition that no Intellectual property rights is violated for any party of work which will be decided with mutual consent.
- Both CSIR-CLRI and IKGPTU will be free to independently carry out follow-up research on the thesis work conducted under this scheme.
 CSIR-CLRI and IKGPTU shall make provision to share their respective important R&D/Lab facilities in order to promote Academic and Research interaction in the areas of co-operation.

& wing

3/5

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

182 43

- CSIR-CLRI and IKGPTU shall provide access to the library facilities to Scientists, Faculty members and students as per the prevailing rules/norms in their respective institutes.
- In case of any dispute that may crop up during execution of MoU and the same is not settled by mutual discussion between the parties, the matter would be settled through arbitration by referring to Arbitration Committee comprising of three members. Two members, nominated one by each party and third member and will be jointly nominated by the two parties.

30.

Dum's

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

W Solas

2





GENERAL AGREEMENT BETWEEN IKG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR AND SPHAERA PHARMA PRIVATE LIMITED

This **General Agreement** (hereinafter referred to as the 'Agreement') is made on this 2750 day of 700000 (hereinafter to as the 'effective date') by and between:

IKG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR, established by an Act of State Legislature, on the 16th of January 1997 for the promotion of the Technical education (herein after referred to as "IKGPTU", which expression shall include its successor(s), administrator(s) or permitted assignees) of the first part. The University has a mandate to set up centers of Excellence in Emerging Technology (ies) and for promoting *Training*, *Research & Development* in the field of the applied sciences and technology. The University is well competently working for providing professional & skill oriented knowledge to the masses. IKGPTU is also promoting a number of courses in different streams in both, regular as well as distance education programs.

AND

SPHAERA PHARMA PRIVATE LIMITED, a company incorporated under the Companies Act, 1956, having its registered office situated at A 5/109, Indira Enclave, Neb Sarai, New Delhi-110030 and its corporate office situated at Plot No. 32, Sector-5, IMT Manesar, Gurugram-122051, Haryana; (herein after referred to as "SPHAERA PHARMA" which expression shall include its successors-in-interest, permitted assignees and associate companies) of the second part.

Both IKGPTU and SPHAERA PHARMA shall individually be referred to as "Party" and collectively be referred to as "Parties.

WHEREAS:

- A IKGPTU is a Premier University engaged in education and research in science, * pharmaceuticals chemistry, molecular biology, biotechnology, engineering technology, industrial technology, management, information technology, environment, planning, architecture and paramedical sciences.
- B. SPHAERA PHARMA is engaged in the business of drug discovery and development and have research labs at Plot No. 32, Sector-5, IMT Manesar, Haryana-122051

PREAMBLE

IKGPTU and SPHAERA PHARMA are mutually interested to collaborate in academic and research related activities especially in the areas of Pharmaceutical Sciences.

DEAN

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

March

w

DEFINITIONS: 1.

"Intellectual property (IP)" means any know how, inventions, developments, discoveries, improvements, processes, compositions of matter, formulations, or methods of use, conceived or reduced to practice.

"Public Disclosure" means disclosure of IP, as defined above, to anyone who is not part of the IKGPTU or SPHAERA PHARMA teams associated with work being done under the scope of the Agreement.

"Commercialization" means and includes manufacturing, marketing, promoting, selling and distributing the know-how by utilization of IPR, including making arrangements of any and all kinds with any entity or entities anywhere in the world including sub-licensing in respect to the IP.

2. SCOPE OF THE AGREEMENT AND OBJECTIVES

The scope of collaboration on academic and research activities included in this General Agreement encompasses the following objectives:

- Enrollment of SPHAERA PHARMA's scientist(s)/ employee(s) in a Ph.D program at IKGPTU, as part-time students as per the IKGPTU rules.
- Exchange of graduate and postgraduate students of IKGPTU in the disciplines of Pharmaceutical/Synthetic Organic chemistry for project work/training at SPHAERA PHARMA.
- Sponsorship and pooling of resources for co-operative seminars, workshops and other scientific meetings on topics of mutual interest, as and when deemed feasible.
- Exploring the possibilities of carrying out SPHAERA PHARMA sponsored research project(s) at IKGPTU.
- Assisting in the development of curriculum of pharma sciences/chemistry courses according to industrial/research lab requirements in order to make student more employable.

EXCHANGE OF SPHAERA PHARMA'S SCIENTISTS FOR Ph. D PROGRAM(S) 3.

Both the parties will consider working together in areas of mutual interest.

In the event both parties agree to work together; the concerned scientists of SPHAERA PHARMA and the corresponding faculty members of IKGPTU will formulate joint Research Plan(s) for the joint work on a "case by case" basis, with due approval of the Joint Steering Committee.

At any given time, no more than 5 scientists of SPHAERA PHARMA will be registered for the Ph.D. program at IKGPTU.

Requirement for enrolment/registration for Ph.D. Program for SPHAERA PHARMA's scientists at IKGPTU will be as per the ordinance for the 'Doctor of Philosophy' program of IKGPTU.

IKG Punjab Technical Univ.

- The supervisor for SPHAERA PHARMA's scientists enrolling/registering for the Ph.D. will be from IKGPTU. However, there can be a co-supervisor from SPHAERA PHARMA, subject to fulfillment of the requirements of the ordinance for the Doctor of Philosophy at IKGPTU
- IKGPTU shall provide experienced faculty for conducting the Ph. D. program, conduct and monitor the research programs, carry out performance evaluation as per its Ph. D. program. All/any examination(s) to be conducted by IKGPTU shall be in the same manner as that carried out for other Ph.D. students admitted by IKGPTU. The Ph. D. Degree shall be awarded by IKGPTU.
- IKGPTU shall provide accommodation and other facilities for visiting Ph. D. students of SPHAERA PHARMA, who shall be treated similar to the other Ph.D. students of IKGPTU. Students shall be required to pay actual boarding, lodging, electricity and other applicable charges, as per IKGPTU's rules.
- IKGPTU will provide boarding and lodging facilities for the visiting official/s of SPHAERA PHARMA at its campus.

Selection of candidates for Ph. D. Program would be as follows:

- Candidates nominated by SPHAERA PHARMA will be registered for Ph. D. as per the Ph.D. admission norms of IKGPTU.
- b) The eligible applicants will submit their application/s as per the Ph.D. rules & regulations of IKGPTU.
- c) The admission of the candidate would be through the recommendation by the admission committee at IKGPTU along with an external guide from SPHAERA PHARMA, if appointed.
- d) The recommendations of the admission committee shall be forwarded for the approval and further necessary action as required by the rules at IKGPTU rules. From time to time the Supervisor from SPHAERA PHARMA will interact with the Supervisor from IKGPTU, in order to review the progress of the candidate(s).
- e) The approved candidates then would be required to pay admission fees (prevailing fees payable at IKGPTU) as given in the rules and regulation for Ph.D.: (Annexure: A, attached) to IKGPTU to formally register for the Ph. D. programs of IKGPTU.
- f) IKGPTU will review the background of the candidate for pursuing Ph.D. work in the proposed area and recommend the qualifying papers and any other course. The course work will be conducted at IKGPTU as per applicable norms of IKGPTU. It is hereby clarified and agreed between the Parties that the candidate will be solely liable and responsible for any administrative expenses to be incurred during the term of the Ph. D.program.
- g) The report on the progress of the candidate (s) shall be submitted along with recommendations to IKGPTU as per IKGPTU norms.
- h) All other rules and regulations of IKGPTU for its Ph.D. programs, as stated in Rules & Regulations for the Ph.D. program, shall be applicable to the Ph. Students.

4. EXCHANGE OF IKGPTU STUDENTS/ TECHNICAL STAFF/ FACULTY MEMBERS

SPHAERA PHARMA agrees to provide training to students, and occasionally to staff and/or technical personnel of IKGPTU within the areas of mutual co-operation based on prior discussions and mutual agreement.

R&D Deptt.

IKG Punjab Technical Univ.

Jalandhar

v. Sport

MANESAR

- At any given time not more than 3 selected students of IKGPTU will be taken up for summer/industrial training at SPHAERA PHARMA.
- The duration of training period for IKGPTU students at SPHAERA PHARMA will preferably be for 3-6 months.
- The technical staff/faculty members deputed by IKGPTU for training shall be governed by SPHAERA PHARMA's rules of conduct.
- Students/staff/faculty undergoing training at SPHAERA PHARMA will execute an individual Confidentiality Agreement with SPHAERA PHARMA and IKGPTU will take reasonable measures in order to ensure that the terms of Confidentiality Agreement are duly implemented and adhered to.

5. JOINT CONFERENCES/WORKSHOPS/COURSES

Both the parties agree to consider the possibility of holding/conducting joint workshops, conferences, training courses etc. within the areas of mutual co-operation, whenever feasible.

The host institution shall provide accommodation to the participating members.

SPONSORED PROJECT(S)

- SPHAERA PHARMA will consider carrying out Sponsored Research Project(s) with IKGPTU in areas of mutual interest, as and when deemed feasible.
- In the event, parties agree to work on any sponsored project(s); the terms of the same will be negotiated and laid forth in a separate agreement; on a "project by project" basis.

SHARING OF FACILITIES

Host institute/industry will allow members of the visiting institute/industry to use their resources, such as library, R&D facilities and reagents/chemicals; provided there is no legal or third party restriction of such use.

8. AREAS OF CO-OPERATION

The specifics regarding the areas of co-operation will be defined and modified from time to time by the Joint Steering Committee (JSC) set up for the purpose.

Vice President-R&D, SPHAERA PHARMA or his nominee shall be the coordinator from SPHAERA PHARMA for each identified area of co-operation. The Vice President-R&D, SPHAERA PHARMA may nominate more than one coordinator.

The coordinator from IKGPTU for each identified area of co-operation shall be the Head of the concerned department at IKGPTU.

DEAN
R&D Deptt CO
IKG Punjab Technical Univ.

V Dr. go

SPHAERA PHARMA may provide inputs from industry perspective for upgradation or updating of Master and Bachelor course (s) in Pharmaceutical Sciences/Chemistry at IKGPTU.

9. JOINT STEERING COMMITTEE(JSC)

The following will constitute the Joint Steering Committee, to monitor and review the collaborative program(s) between the two institutions:

- a) Vice-Chancellor, IKGPTU or his nominee.
- b) Vice President-R&D, SPHAERA PHARMA or his nominee.
- c) Coordinators from IKGPTU and SPHAERA PHARMA

The JSC shall:

- a) Review the progress of the identified program (s) (at least once in ayear)
- b) Consider the new R&D proposals for joint collaboration.
- c) Consider the addition/deletion of areas of co-operation between the two institutions.

10. CONFIDENTIALITY

The parties agree that with respect to any business information of the Disclosing Party which is (a) marked as "confidential," "proprietary" or some similar indication; (b) is advised by the Disclosing Party to be confidential; or (c) which the parties would reasonably construe to be confidential information under the circumstances (collectively referred to as "Confidential Information").

Confidential Information" includes, without limitation, information in tangible or intangible form relating to and/or including released or unreleased Disclosing Party's all patent rights, copyrights and all other intellectual property rights and proprietary rights thereto such as, scientific, technical, clinical, experimental and analytical data, properties, characteristics, functionalities, mechanisms and/or advantages of the Disclosing Party's products or proposed products, test samples, trade names, research and development activities, know-how, specifications, drawings, inventions, data and result of studies that will be performed on the test substances owned by the Disclosing Party, that Recipient is obligated to treat as confidential.

The party receiving the Confidential Information shall be referred to as the "Receiving Party "and the party disclosing the Confidential Information shall be referred to as the "Disclosing Party".

The Receiving Party hereby agrees to keep confidential, any Confidential Information provided by the Disclosing Party to the Receiving Party pursuant to this Agreement. Such Confidential Information shall be treated in the strictest confidence and shall not be disclosed by the Receiving Party to any Third Party and shall only be used for the proper performance of this Agreement and shall be treated as confidential for the duration of this Agreement and for a period of 5 years after its termination.

DEAN R&D Depart

IKG Punjab Technical Univ.

Confidential Information does not include information that: (a)is or comes into the public domain otherwise than by breach of this Agreement by either party; (b) is made known to the Receiving Party by a Third Party having the legal right to make such disclosure, (c)is independently developed by the Receiving Party without any aid of the Confidential Information of the Disclosing party.

11. PUBLICATIONS AND PATENTS

- All publications in the programs of co-operation shall be co-authored by the concerned scientist
 - (s) of SPHAERA PHARMA and the Research Fellow/Faculty of IKGPTU.
- SPHAERA PHARMA and IKGPTU will be joint holders of the Intellectual Property Right (IPR)/ Patents arising out of any joint work. The IPR expenses are to be borne by both the parties in equal proportion.
- SPHAERA PHARMA will have the first right of refusal for commercialization if any, of such joint IPRs.
- In the event the JSC decides that the joint IP may have some commercialization potential; SPHAERA PHARMA will have no obligation to commercialize; in case it is deemed that such joint IP could be detrimental to its internal product(s)/project(s)/ portfolio of program(s).

12. PUBLIC DISCLOSURE

In case of any joint research and/or sponsored project (s) taken up by SPHAERA PHARMA and IKGPTU, no party shall disclose any part of the investigation in media in any form without any prior mutual, written consent.

13. DURATION OF AGREEMENT AND TERMINATION

- This General Agreement is effective from the date it is signed by the appropriate officer of each signatory.
- This General Agreement may be amended at anytime by mutual consent and shall a continue in force and effect for five years and can be extended by mutual consent of both parties.
- Participants from each of the parties, while in attendance at the other party's facilities, shall abide by the rules and regulations of that host institution/industry regarding the use of facilities and conduct, and shall be subject to the laws of the host industry/institute.
- In the event of material breach or default of any provisions of this Agreement, the non-breaching party will be entitled to call upon the defaulting party to rectify such breach or default within a period of 30 days from the date of such notice. In the event of failure on the part of the defaulting party to remove or rectify such breach or default, the Agreement shall stand terminated at the end of such notice period.

R&D Deptt.

NDOG! V

14. NOTICES

Except, as may be otherwise provided hereunder, all notices and consents under this Agreement directed to any party shall be in writing and shall be considered to be duly served if delivered by registered post/email to the parties at the address mentioned below.

SPHAERA PHARMA

Mr. Abhinav Dhandia CEO. Sphaera Pharma Private Limited Plot No. 32, Sector - 5, Gurugram. Manesar, Haryana- 122051 Email:

abhinav.d@sphaerapharma.com Phone Number: 0124-4187500

IKGPTU

MEAD Chemical IKGPTU, Kabus Mala 144601- Punjab.



APPLICABLE LAWS 15.

This Agreement shall in all respects be construed and interpreted in accordance with the laws of India and will be subject to the courts at New Delhi/Jalandhar.

16. **ARBITRATION**

The parties agree that in case of any dispute or differences of opinion arising out of or in relation to any provisions of this Agreement, they shall endeavor to resolve and find amicable solution for the same. In the event that any of the disputes or differences of opinion could not be resolved as above the same shall be referred to resolution by arbitration which shall be conducted in accordance with the Arbitration and Conciliation Act, 1996. The place of arbitration shall be at a place to be initially agreed . upon and the arbitration shall be conducted in English Language. Not with standing this clause both parties shall have right of injunctive relief before courts of appropriate jurisdiction in case either party commits any breach of this Agreement.

GENERAL PROVISIONS 17.

Non-assign ability— The rights and obligations of the parties under this Agreement shall not be assignable without written permission of the other party.

Severability -- If any provision hereof is held unenforceable or void, the remaining provisions shall be enforced in accordance with the terms of this Agreement.

Entire Agreement -- This Agreement and the agreements contemplated hereunder constitute the entire agreement between the parties and supersedes or cancels all previous negotiations, agreements, commitments oral or written between the parties

R&D Deptt.

IKG Punjao Technical Univ.

on the subject of this Agreement. This Agreement may not be amended in any manner except by an instrument in writing signed by the authorized representatives of each of the parties hereto.

Any waiver of any breach of, or any default under, any of the terms of this Agreement will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of this Agreement.

Nothing in this Agreement shall create or be deemed to create a partnership, agency or joint venture between the parties.

IN WITNESS WHERE OF The parties above named have put their respective hands and seals on the day, month and year first here in above written.

For and on behalf of For and on behalf of Punjab Technical University, Jalandhar Sphaera Pharma Private Limited Johnman Signature_ MANESAR Name: Dr. Ajay Kumar \$harma Name: Abhinav Dhandia Title: Vice-Chancellor Title: CEO Place: Witnesses Witnesses 1. Signature:____ 1. Signature: Name: Address: 2. Signature Signature:

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

W 30 3

GENERAL AGREEMENT BETWEEN KG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR

AND

R AND S CHEMICALS INC. Kannapolis NC, USA

This General Agreement (hereinafter referred to as the 'Agreement') is made on this 23rd August 2021 (hereinafter referred to as the 'effective date') by and between:

IKG PUNJAB TECHNICAL UNIVERSITY, JALANDHAR, established by an Act of State Legislature, on the 16th of January 1997 for the promotion of the Technical education (herein after referred to as "IKGPTU", which expression shall include its successor (s), administrator(s) or permitted assignees) of the first part. The University has a mandate to set up centers of Excellence in Emerging Technology (ies) and for promoting Training, Research & Development in the field of the applied sciences and technology. The University is well competently working for providing professional & skill-oriented knowledge to the masses. IKGPTU is also promoting a number of courses in different streams in both, regular as well as distance education programs.

AND

R and 5 Chemicals Inc.; R&S Chemicals is a privately held Chemicals Company that provide contract services to Research & Development in Organic, Medicinal & Organometallic Chemistry. The company is managed by certified Project Management Professionals and highly experienced scientists who have a combined experience of 60 years of industrial and academic research.

Both IKGPTU and R&S CHEMICALS INC. shall individually be referred to as "Party" and collectively be referred to as "Parties".

WHEREAS

- A. IKGPTU is a Premier University engaged in education and research in science, pharmaceuticals chemistry, molecular biology, biotechnology, engineering technology, industrial technology, management, information technology, environment, planning, architecture and paramedical sciences.
- B. R&S Chemicals Inc is engaged in the business of drug discovery and development and have research labs at Suite 4101 in the David H Murdock Core Research Building at North Carolina Research Campus (NCRC) at Kannapolis NC, USA

PREAMBLE

IKGPTU and R&S Chemicals Inc.; are mutually interested to collaborate in academic and research related activities especially in the areas of Pharmaceutical Sciences.



8

General agreement - IKG Punjab Technical University & R&S Chemicals

Page 1 of 8

DEAN
R&D Deptt.

IKG Punjab Technical Univ.
Jalandhar

M 26 30

1. DEFINITIONS:

- 1.1 "Intellectual property (IP)" means any know how, inventions, developments, discoveries, improvements, processes, compositions of matter, formulations, or methods of use, conceived or reduced to practice.
- "Public Disclosure" means disclosure of IP, as defined above, to anyone who is not part of the IKGPTU or R&S Chemicals Inc.; teams associated with work being done under the scope of the Agreement.
- "Commercialization" means and includes manufacturing, marketing, promoting, selling and distributing the know-how by utilization of IPR, including making arrangements of any and all kinds with any entity or entities anywhere in the world including sub-licensing in respect to the IP

2. SCOPE OF THE AGREEMENT AND OBJECTIVES

The scope of collaboration on academic and research activities included in this General Agreement encompasses the following objectives:

- 2.1 Exploration of research opportunities jointly by R&S Chemicals Inc.; and IKGPTU.
- 2.2 Exchange of faculty and scientists of IKGPTU in the disciplines of Pharmaceutical / Synthetic Organic chemistry for project work/training at R&S Chemicals Inc
- 2.3 Sponsorship and pooling of resources for co-operative seminars, workshops and other scientific meetings on topics of mutual interest, as and when deemed feasible.
- 2.4 Exploring the possibilities of carrying out R&S Chemicals Inc.; sponsored research project(s) at IKGPTU.
- 2.5 Assisting in the development of curriculum of pharma sciences/chemistry courses according to industrial/research lab requirements to make student more employable.

3. EXCHANGE OF R and S Chemicals Inc SCIENTISTS FOR Ph. D PROGRAM (S)

- 3.1 Both the parties will consider working together in areas of mutual interest.
- 3.2 In the event both parties agree to work together; the concerned scientists of R&S Chemicals Inc and the corresponding faculty members of IKGPTU will formulate joint Research Plan(s) for the joint work on a "case by case" basis, with due approval of the Joint Steering Committee.
- 3.3 At any given time no more than 5 scientists of R&S Chemicals Inc will be registered for the Ph.D. program at IKGPTU.

Page 2 of 8

General agreement - IKG Puniab Technical University & R&S Cheronal-

R&D Deptt.

IKG Punjab Technical Univ.

Jalandhar

- 3.4 IKGPTU shall provide accommodation and other facilities for visiting Scientists of R&S Chemicals Inc.
- 3.5 IKGPTU will provide boarding and lodging facilities for the visiting official/s of R&S Chemicals Inc at its campus.

4. EXCHANGE OF IKGPTU STUDENTS/ TECHNICAL STAFF/ FACULTY MEMBERS

- 4.1 R&S Chemicals Inc agrees to provide online/offline training to students, and occasionally to staff and/or technical personnel of IKGPTU within the areas of mutual co-operation based on prior discussions and mutual agreement.
- 4.2 At any given time not more than 3 selected students of IKGPTU will be taken up for summer/industrial training at R&S Chemicals Inc
- 4.3 The duration of training period for IKGPTU students at R&S Chemicals Inc will preferably be for 3-6 months.
- 4.4 The technical staff/faculty members deputed by IKGPTU for training shall be governed by R&S Chemicals Inc rules of conduct.
- 4.5 Students/staff/faculty undergoing training at R&S Chemicals Inc will execute an individual Confidentiality Agreement with R&S Chemicals Inc and IKGPTU will take reasonable measures in order to ensure that the terms of Confidentiality Agreement are duly implemented and adhered to.

5. JOINT MENTORSHIP OF IKGPTU STUDENTS

- 5.1. R&S Chemicals Inc agrees to provide, remotely, joint mentorship with another faculty to graduate students who are enrolled in doctoral program of IKGPTU within the areas of mutual co-operation based on prior discussions and mutual agreement.
- IKGPTU will provide all the necessary facilities and support for such doctoral students until graduation.

JOINT CONFERENCES/WORKSHOPS/COURSES

- 6.1 Both the parties agree to consider the possibility of holding/conducting joint workshops, conferences, training courses etc., within the areas of mutual co-operation, whenever feasible.
- 6.2 The host institution shall provide accommodation to the participating members.

SPONSORED PROJECT (S)

7.1 **R&S Chemicals Inc.**; will consider carrying out Sponsored Research Project(s) with IKGPTU in areas of mutual interest, as and when deemed feasible.

Page 3 of 8

General agreement - IKG Punjab Technical University & R&S Chemicals

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

~ 29 37

7.2 In the event, parties agree to work on any sponsored project(s); the terms of the same will be negotiated and laid forth in a separate agreement; on a "project by project" basis.

8. SHARING OF FACILITIES

8.1 Host institute/industry will allow members of the visiting institute/industry to use their resources, such as library, R&D facilities and reagents/chemicals; provided there is no legal or third party restriction of such use.

9. AREAS OF CO-OPERATION

- 9.1 The specifics regarding the areas of co-operation will be defined and modified from time to time by the Joint Steering Committee (JSC) set up for the purpose.
- 9.2 Vice President-R&D, R&S Chemicals Inc.; or his nominee shall be the coordinator from R&S Chemicals Inc for each identified area of co-operation. The. Vice President-R&D, R&S Chemicals Inc may nominate more than one coordinator.
- 9.3 The coordinator from IKGPTU for each identified area of co-operation shall be the Head of the concerned department at IKGPTU.
- 9.4 R&S Chemicals Inc.; may provide inputs from industry perspective for upgradation or updating of Master and Bachelor course (s) in Pharmaceutical Sciences/Chemistry at IKGPTU.

10. JOINT STEERING COMMITTEE (JSC)

- 10.1 The following will constitute the Joint Steering Committee, to monitor and review the collaborative program(s) between the two institutions:
 - a) Vice-Chancellor, IKGPTU or his nominee.
 - b) Vice President-R&D, R&S Chemicals Inc.; or his nominee.
 - c) Coordinators from IKGPTU and R&S Chemicals Inc.

10.2 The JSC shall:

- a) Review the progress of the identified program (s) (at least once in a year)
- b) Consider the new R&D proposals for joint collaboration.
- c) Consider the addition/deletion of areas of co-operation between the two institutions.

11. CONFIDENTIALITY

- 11.1 The parties agree that with respect to any business information of the Disclosing Party which is (a) marked as "confidential," "proprietary" or some similar indication; (b) is advised by the Disclosing Party to be confidential; or (c) which the parties would reasonably construe to be confidential information under the circumstances (collectively referred to as "Confidential Information").
- 11.2 Confidential Information" includes, without limitation, information in tangible or intangible form relating to and/or including released or unreleased Disclosing Party's all patent rights,



Page 4 of 8

General agreement - IKG Punjab Technical University & R&S Chemical

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

1 Ch 23

copyrights and all other intellectual property rights and proprietary rights thereto such as, scientific, technical, clinical, experimental and analytical data, properties, characteristics, functionalities, mechanisms and/or advantages of the Disclosing Party's products or proposed products, test samples, trade names, research and development activities, know-how, specifications, drawings, inventions, data and result of studies that will be performed on the test substances owned by the Disclosing Party, that Recipient is obligated to treat as confidential.

- 11.3 The party receiving the Confidential Information shall be referred to as the "Receiving Party" and the party disclosing the Confidential Information shall be referred to as the "Disclosing Party".
- 11.4 The Receiving Party hereby agrees to keep confidential, any Confidential Information provided by the Disclosing Party to the Receiving Party pursuant to this Agreement. Such Confidential Information shall be treated in the strictest confidence and shall not be disclosed by the Receiving Party to any Third Party and shall only be used for the proper performance of this Agreement and shall be treated as confidential for the duration of this Agreement and for a period of 5 years after its termination.
- 11.5 Confidential Information does not include information that:
 - (a) is or comes into the public domain otherwise than by breach of this Agreement by either party
 - (b) is made known to the Receiving Party by a Third Party having the legal right to make such disclosure
 - (c) is independently developed by the Receiving Party without any aid of the Confidential Information of the Disclosing party

12. PUBLICATIONS AND PATENTS

- 12.1 All publications in the programs of co-operation shall be co-authored by the concerned scientist(s) of R&S Chemicals Inc.; and the Research Fellow/Faculty of IKGPTU.
- 12.2 R&S Chemicals Inc.; and IKGPTU will be joint holders of the Intellectual Property Right (IPR)/ Patents arising out of any joint work. The IPR expenses are to be borne by both the parties in equal proportion.
- 12.3 R&S Chemicals Inc.; will have the first right of refusal for commercialization if any, of such joint IPRs.
- 12.4 In the event the JSC decides that the joint IP may have some commercialization potential; R&S Chemicals Inc. will have no obligation to commercialize; in case it is deemed that such joint IP could be detrimental to its internal product(s)/ project(s)/ portfolio of program(s).

S - 1

General agreement - IKG Punjab Technical University & R&S Chemicals

Page 5 of 8

DEAN
R&D Deptt.
IKG Punjab Technical Univ.

Jalandhar

1 3 34 34

13. PUBLIC DISCLOSURE

13.1 In case of any joint research and/or sponsored project (s) taken up by R&S Chemicals Inc.; and IKGPTU, no party shall disclose any part of the investigation in media in any form without any prior mutual, written consent.

14. DURATION OF AGREEMENT AND TERMINATION

- 14.1 This General Agreement is effective from the date it is signed by the appropriate officer of each signatory.
- 14.2 This General Agreement may be amended at any time by mutual consent and shall continue in force and effect for five years and can be extended by mutual consent of both parties.
- 14.3 Participants from each of the parties, while in attendance at the other party's facilities, shall abide by the rules and regulations of that host institution/industry regarding the use of facilities and conduct, and shall be subject to the laws of the host industry/ institute.
- 14.4 In the event of material breach or default of any provisions of this Agreement, the non-breaching party will be entitled to call upon the defaulting party to rectify such breach or default within a period of 30 days from the date of such notice. In the event of failure on the part of the defaulting party to remove or rectify such breach or default, the Agreement shall stand terminated at the end of such notice period.

15. NOTICES

15.1 Except, as may be otherwise provided hereunder, all notices and consents under this Agreement directed to any party shall be in writing and shall be considered to be duly served if delivered by registered post/email to the parties at the address mentioned below.

Dr. Srisailas Muthialu

R&S Chemicals, Inc. 150 N Research Campus Drive Suite 4101 Kannapolis, NC 28081 USA

Dr. Gaurav Bhargava

Professor, Chemical Sciences IKGPTU Kapurthala-144603, Punjab, India

16. APPLICABLE LAWS

16.1 This Agreement shall in all respects be construed and interpreted in accordance with the laws of India and will be subject to the courts at Kapurthala.

17. ARBITRATION

General agreement - IKG Punjab Technical University & R&S Chemicals

DEAN W

R&D Deptt.

IKG Punjab Technical Univ. Jalandhar

Page 6 of 8

1 80 x5

17.1 The parties agree that in case of any dispute or differences of opinion arising out of or in relation to any provisions of this Agreement, they shall endeavor to resolve and find amicable solution for the same. In the event that any of the disputes or differences of opinion could not be resolved as above the same shall be referred to resolution by arbitration which shall be conducted in accordance with the Arbitration and Conciliation Act, 1996. The place of arbitration shall be at a place to be initially agreed upon and the arbitration shall be conducted in English Language. Notwithstanding this clause both parties shall have right of injunctive relief before courts of appropriate jurisdiction in case either party commits any breach of this Agreement.

18. GENERAL PROVISIONS

- 18.1 Non-assignability The rights and obligations of the parties under this Agreement shall not be assignable without written permission of the other party.
- 18.2 Severability If any provision hereof is held unenforceable or void, the remaining provisions shall be enforced in accordance with the terms of this Agreement.
- 18.3 Entire Agreement This Agreement and the agreements contemplated hereunder constitute the entire agreement between the parties and supersedes or cancels all previous negotiations, agreements, commitments oral or written between the parties about this Agreement. This Agreement may not be amended in any manner except by an instrument in writing signed by the authorized representatives of each of the parties hereto.
- 18.4 Any waiver of any breach of, or any default under, any of the terms of this Agreement will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of this Agreement.
- 18.5 Nothing in this Agreement shall create or be deemed to create a partnership, agency or joint venture between the parties.

a.

95

(Signature Page follows)

General agreement - IKG Punjab Technical University & R&S Chemicals

M

R&D Deptt.

IKG Punjab Technical Univ.

Ialandhar

1000 260 260

Page 7 of 8

IN WITNESS WHEREOF THE parties above named have put their respective hands and seals on the day, month and year first hereinabove written.

For and on behalf of For and on behalf of R&S Chemicals, Inc. IKG Punjab Technical University, Jalandhar Signature Signature Dr. Srisailas Muthialu Dr. Ajay Kumar Sharma Name: Name: Title: Vice President Title: Vice Chancellor k Gupai Pubjab Technical University Date: Date: Place: Place: Witnesses: Witnesses: Signature: Signature: Name: Address: Signature: Signature: Name: SRIKANTH VEDAMOORTHY Name: Address: KANNAPOLIS Address: USA

General agreement - IKG Punjab Technical University & R&S Chemicals

Page 8 of 8

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

N Str