

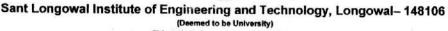


Umbrella Memorandum of Understanding

Between



ICAR-Central Institute of Post-Harvest Engineering and Technology (ICAR-CIPHET), Ludhiana, Punjab



District Sangrur, Punjab

for facilitating Students' Training/Postgraduate Research



This Memorandum of Understanding (hereinafter referred to as MoU) is made on 9th day of the month of February in the year 2022 by and between the ICAR-Central Institute of Post-Harvest Engineering and Technology (ICAR-CIPHET), Ludhiana having its Head Office at Ludhiana [hereinafter called "ICAR-CIPHET, Ludhiana"/First party], a constituent Research Institution of the Indian Council of Agricultural Research, Krishi Bhavan, New Delhi-110 001 on the ONE PART and the Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur having its headquarters at Longowal [hereinafter called "SLIET, Longowal"/Second party] on the OTHER PART (who for the purpose of this MoU are hereinafter collectively referred to as the parties).

The parties, having discussed fields of common research interests and allied activities between the two institutions, have decided to enter into long-term collaboration for promotion of **students' training and quality postgraduate research in cutting edge areas** in accordance with the provisions contained in the Guidelines issued by Indian Council of Agricultural Research (ICAR) vide Letter No. 2-8/2012- HRD dated 11th December, 2012 or as revised from time to time.

WHEREAS the "First Party" is a nodal institute to undertake lead researches in the area of the post-harvest engineering and technology appropriate to agricultural production catchment and agro-industries, i.e. research for solving problems and identifying technologies related to post-harvest loss assessment and prevention, processing, value addition and storage of agricultural, horticultural, livestock and aquaculture produce targeted to achieve food safety and quality assurance; human resource and entrepreneurship development in post-harvest engineering and technology within five divisions namely Agricultural Structure and Environment Control Division, Automation and Sensor Technology Division, Food Grain and Oilseed Division. Horticultural Crop Processing Division and Transfer of Technology Division, AND WHEREAS the "Second Party", established vide F.No.9-42/2001-U.3 dated 10.04.2007 by Govt. of India vide UGC Act, 1956 of U.3(A) Section and recognized by University Grants Commission at its Department of Higher Education, MHRD, New Delhi, is involved in teaching & research in the areas of Food Engineering & Technology; Electrical & Instrumentation Engineering; Electronics & Communication Engineering; Mechanical Engineering; Computer Science & Engineering; Chemical Engineering; and Basic Sciences Including Physics, Chemistry, Mathematics; and Management, AND WHEREAS it has been considered expedient to agree in writing to participate jointly in the projects requiring expertise and logistics from both the parties.

Article 1. Scope

1.1 The Second party will recognize the First party as an Institute for conducting research related to the thesis requirement of the research students for <u>M. Sc/ M. Tech and Ph. D.</u>

(Signature of First Party)

हा. निषकेत कोतवालीवाले/ Dr. Nachiket Kotweliwale निदेशक/Director भाकुअनुप-केन्द्रीय कटाई उपरान्त अभियोत्रिकी एवं प्रीद्योगिकी संस्थान, लुग्नियाना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana-141004 (India) (Signature of Second Party) Director/निदेशक Sau! Longewal Institute of Engg. &

San! Longowal Institute of Engg. & Tech. संत लोगोजङ । फेल्लिको एवं प्रौद्योगिकी संस्थान Longowal-148106, Punjab (India)

धौगोवाल, संगरूर, पंजाब 148106

The Second party will recognize Scientists of the ICAR-CIPHET, Ludhiana as recommended by its Director in accordance with the University rules and regulations for guiding students working for the said degree.

- 1.2 Operational details of research effort and collaboration will be made in common research programmes and/or projects restricted to specific mandated domain within the approved disciplines/divisions.
- 1.3 Research instrumentation facility and library facilities available with the First party and the Second party will be made available to the faculty and research scholars. However, the costs of specific consumables will be borne by the respective organizations.
- 1.4 There shall be an exchange of students for academic, research and training purposes. Accommodation in the Hostel shall be arranged, wherever possible, as per extant rates. The duration of exchange visits will be determined by mutual consent between both the parties.

Article 2. Management

2.1 Director of the First party and the Director of the Second party will be responsible to work out operational details of co-operation between the two organizations and ensure proper and effective implementation of this MoU.

Article 3. Exchange of Information

- 3.1. The term "information" includes scientific or technical data, results and/or methods of investigation, and other information intended to be provided, exchanged, or arising under project descriptions entered pursuant to this MoU.
- 3.2. The parties support the widest possible dissemination of information. Each party in joint projects shall be given the right to use, disclose, publish or disseminate such information for any and all purposes.

Article 4. General Provisions

- 4.1 It is understood that the First party and the Second party subscribe to the principle of equal opportunity and do not discriminate on the basis of race, sex, age, caste or religion. Both the Institutions shall abide by these principles in the administration of this agreement and neither party shall impose criteria for exchange of scholars or students, which violate principles of non-discrimination.
- 4.2 Both parties understand that all financial agreements will have to be negotiated separately and will depend on the availability of funds
- 4.3 Both parties acknowledge that exchange of students from one party to the other shall be subject to the availability of funds and shall comply with the regulations and policies of the First party and the Second party.
- 4.4 Any research publications arising will be jointly published in accordance with the provisions laid out in Item 3.2.1C* of the Guidelines for the students to conduct research for their degree programme as trainees at ICAR institutions as notified vide Letter No. 2-8/2012-HRD dated 11th December, 2012 or revised guidelines, if any, as may be issued from time to time.
- 4.5 A copy of the thesis/dissertation will be provided to the First Party after the award of the degree by the Second party.

(Signature of First Party)

हा. निषकेत केतवालीवाले/ Dr. Nachiket Ketwaliwale निदेशक/Director भाकृअनुप-केन्द्रीय कटाई उपरान्त अभियांत्रिकी एवं प्रौद्योगिकी संस्थान, लुध्याना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology Ludwans 141004 (India) Director निर्देशक Second Party) Sant Longowal Institute of Engg. & Tech. संत लीगोकार अभिगंत्रिकी एवं प्रीडीगिकी स्र धान Longowal-145106, Punjab (India) लीगोवाल, संगरूर, पंजाब 148106



- 4.6 All questions related to this MoU arising during its term will be settled by the parties by mutual agreement. Disagreements at the operating level shall be forwarded to respective higher officials for appropriate resolution failing which an arbitrator of mutual acceptance may be identified for the settlement of dispute, if any.
- 4.7 All questions not foreseen related to this MoU will be handled by the parties by mutual agreement.
- 4.8 Nothing in this MoU is intended to affect other cooperation or collaborations between the parties.

Article 5. Intellectual Property Rights

5.1 The Second party will be expected to ensure protection of the Intellectual Property Rights generated or likely to be generated during the student's research work. The ICAR as the first applicant (for its institute) and the Second party shall be the joint applicants for IPRs and the students and involved scientific staff shall be included as the inventor/breeder/author. The 'ICAR Guidelines for Intellectual Property Management and Technology Transfer/Commercialization' as amended from time to time shall be the reference for exploitation of the generated intellectual property, whose management and benefits sharing shall be mutually decided in each case.

Article 6. Admission and Fees

- 6.1 All those who wish to register as traineds or for Master/Doctoral programme under this MoU must apply for admission at the Second party. The allocation of Major Guide/Advisor would be finalized before the registration and will be governed by the provisions laid out in Items 3.2.1A and 3.2.2A of the Guidelines* for the students to conduct research for their degree programmes as trainees at ICAR institutions as notified vide Letter No. 2-8/2012-HRD dated 11th December, 2012 or revised Guidelines, if any, as may be issued from time to time, for the students from within NARS and outside NARS, respectively.
- 6.2 Admission of the students and the award of degrees for different programmes will be the responsibility of the Second party as per the rules and regulations.
- 6.3 Allotment of the students at the First party will be done by the approval of Director of the First party and Competent Authority of the Institution of the Second party.
- 6.4 The First party would have the right to screen the student's eligibility for admission based on their academic performance.
- 6.5 The PME Cell of the First party in consultation with the representative of the Second party shall decide the location and sharing quantum of research work with the approval of competent authority of first party.
- 6.6 The number of student(s) at any particular time will be subjected to the availability of research facilities and scientists' time to guide thesis research at the First party institution.
- 6.7 Any student(s) admitted to the First party for training/postgraduate research, if found violating the rules and regulations laid down by the First party or include in such activities that amount to tarnishing the image of the Institute, or cause damage to the property, the registration of such student(s) would be summarily terminated. The Second party will not complete the formalities of issuing the certificates to such students until they compensate the losses to the First party.

6.8 Fees will be charged from the students by the First party as per Guidelines for the students to conduct research for their degree programmes as trainees at ICAR institutions

(Signature of First Party)

हा. निष्केत कोतवालीवाले/ Dr. Nachikat Kotwaliwale निदेशक/Director भाकृअनुप-केन्द्रीय कटाई उपरान्त अभियोत्रिकी एवं पौद्योगिकी संस्थान, लुधियाना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana-141004 (India) (Signature of Second Party) Director/निदेशक

Director/।नदशक Sant Longowal Institute of Engg. & Tech. संत लौगोवाल अभिगंत्रिकी एवं प्रौद्योगिकी संस्थान Longowal-145106, Punjab (India) लौगोवाल, संगरूर, पंजाब 148106 vide Letter No. 2-8/2012-HRD dated 11th December, 2012 or revised Guidelines, if any, as may be issued from time to time according to current guidelines. No fee may be charged by the First party from the students registered with AU/DU within NARS. However a student registered with a Second party, outside NARS, will deposit fee of Rs. 10,000/- for training duration of 3 months (not leading to a degree/dissertation) and Rs. 30,000/- per semester (six months) for training, research, dissertation exceeding three months. Any change in fee structure by ICAR will be applicable from the date of revision and shall be charged by the First party. This clause is not applicable to the employee of the first party registered as the student with the second party.

Article 7. Entry into effect, modification and termination

7.1. This MoU shall become effective on the date it is signed by the parties and shall be valid for five years. Thereafter, it shall be automatically renewed for a period of five years unless either party served notice on the other of its intention to terminate it, in which event, the MoU shall stand terminated at the end of one calendar month from the date of issue of such a notice. But the termination of this MoU shall not affect the validity or duration of specific collaborative programmes already being undertaken thereunder, unless decided otherwise by the parties by mutual consent. This McU may be amended by mutual written agreement and may be terminated at any time by either party upon written notification signed by the competent authority of the party initiating termination. Such notification must be given to the other party at least six months in advance from the effective date of termination.

7.2. All joint activities not completed at the expiration or termination of the MoU may be continued

until their completion under the terms of this MoU.

*8 SPECIFIC

Based upon student's parent institution, the guidelines may be categorised into two heads as under:

*8. 1. Within National Agricultural Research System (AU/DU to ICAR Institute)

A. Advisor/Guide

- (i) The criterion for allocation of Major Guide/Advisor will primarily be governed by the intellectual input and time duration devoted for carrying out the research work at a particular institution. It may be decided by mutual consent, keeping in view the MOU signed between partnering institutions. If the major guide is from ICAR Institute, the co-guide will be from partnering university and vice-versa.
- (ii) The ICAR scientists pursuing their PhD degrees after completing their PhD course work at ICAR-DUs may be allowed to do their research work at the institute where they are posted, in view of shortage of scientists/faculty.

B. Fee Structure

If a student registered with AU/DU intends to carry out the research work at ICAR Institute, latter may not charge any fee from the registering institution/student, except the hostel accommodation charges, etc. However, if a student registers with AU/DU after qualifying through competitive mode of ICAR's All India Entrance Examination for Admission to

(Signature of First Party)

हां, नियकेत कीतवालीबालें/ Dr. Nachikat Kotwaliwala निदेशक/Director भाक्अनुप-केन्द्रीय कटाई उपरान्त अभियांत्रिकी एवं प्रौद्योगिकी संस्थान, लुधियाना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhlana-141004 (India) Director/निर्देशक Second Party)
Director/निर्देशक Second Party)
Sant Longowal Institute of टितेष्ठि, कि पिटेन,
संत लौगोवाल किंग्लिकी एवं प्रौद्योगिकी संस्थान
Longowal-144708, Funjab (India)
लौगोवाल, संगकर, पंजाब 148106

Master's/PhD and is awarded fellowship for pursuing Master's or Doctoral degree programme by any sponsoring institution [e.g. ICAR-JRF(PGS)/ICAR-SRF(PGS)/CSIR-UGC-JRF/CSIRSRF], the centingency grant awarded to the student may be transferred to the institution where major part of the research work would be carried out and regulated by the provisions contained in the guidelines of sponsoring institution.

C. Publications

- (i) The student would invariably be the senior author for the publications arising out of the research work conducted at the AU/DU/Institutes. The names of additional co-authors, depending upon their contribution in the research work, may be decided by mutual consent between the student and Major Guide/Advisor.
- (ii) The partnering institutions may ensure that the student submits at least one paper from Master's thesis and two papers from Ph.D. thesis (out of which at least one research paper should be published in a journal with NAAS rating of 6.0 or more) before thesis submission in order to prevent students leaving the institute(s) without any research publication from the thesis.

D. Intellectual Property Rights (IPRs)

The student will be expected to protect the Intellectual Property Rights generated or likely to be generated during his/her research work. The IPRs shall rest with the institution where the major part of the research work was carried out by the student. In the event of equal amount of work being carried out at both the AU/DU and ICAR Institute, patents/protections/knowledge generated will be shared in proportion as per the 'ICAR Guidelines for Intellectual Property Management and Technology Transfer/Commercialization' as amended from time to time.

*3.2.2 Outside National Agricultural Research System (Central / State Govt./ Public Sector funded institutions / State Universities / PSU / Autonomous bodies / Statutory Corporations / Private Universities or institutions)

A. Advisor/Guide

- The requirements for Major Advisor/Guide shall be the same as per para 3.2.1 (i) above for students in National Agricultural Research System (AU/DU to ICAR Institute).
- ii. The objective(s) for research work for a student coming from such an institution should be exclusively different as far as possible.

B. Fee Structure

The students shall be uniformly charged a fee of Rs. 20,000/- for training/ research/ dissertation up to duration of 3 months and @ Rs. 30,000/- per semester for the work exceeding three months. The fee structure is to be reviewed periodically after two years by the AU/DU or the ICAR Institute, as the case may be. However, the students may be charged a fee of Rs. 10,000/- for training duration of three months not leading to a dissertation/ degree. This clause is not applicable to the employee of the first party registered as the student with the second party.

C. Publications

The requirements for Publications shall be the same as per para 3.2.1(C) above for students in National Agricultural Research System (AU/DU to ICAR).

(Signature of First Party)

हा, निचकेत कीतवालीवाले/ Dr. Nachiket Kotwaliwale निदेशक/Director भाकृअनुप-केन्द्रीय कटाई उपरान्त अभियांत्रिकी एवं प्रीद्योगिकी संस्थान, लुध्ययाना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana-141004 (India) Director निर्मान कर्ज Second Party) Sant Longowal Institute of Engg. & Tech. संत लीगोवाल अभियांत्रिकी एवं ग्रीचारिकी संस्थाप

Longowai-148106, Punjab (India) हाँगोवाल, संगरूर, पंजाब 148106

D. Intellectual Property Rights (IPRs)



A separate clause regarding management of IPR issues will be incorporated in the MOU signed between partnering AU/ ICAR Institute, exclusively for the students coming from Central/State Govt/Public Sector funded institutions/ PSU/Autonomous bodies/Statutory Corporations.

Apart from above, this MOU also includes:

- All disciplines to which admission are made in the post-graduate programme (i.e. Masters and Ph. D) by the university shall be open for collaboration under the MoU provided the proposed research aspect is covered in the mandate of the ICAR-CIPHET.
- The student shall complete the course work in the university, as per approved academic programme
- If the master and /or Ph. D students' research work requires minor collaborative inputs from the ICAR-CIPHET, in terms of scientific guidance, laboratory facility for selected parameter studies, a Co-Major Advisor shall be from ICAR-CIPHET, Ludhiana.
- If the Master and/or Ph.D students' research work requires major inputs from the ICAR-CIPHET, in terms of scientific guidance including preparation of work plan, laboratory facility for the work, a Major Advisor shall be from ICAR-CIPHET and co-major advisor shall be from SLIET, Longowal.
- 5. For Master (PG)/Ph.D students working at ICAR-CIPHET, research work shall be decided in consultation with major and/or co-major advisor (as per case, S. No 3 or 4) at ICAR-CIPHET. The necessary costly chemicals/ consumables, if any required, shall be shared /provided by the ICAR-CIPHET/University from the research project/contingency of the student, if available.
- The collaborative ICAR-CIPHET Scientist shall be having Masters (in Engineering) and Ph. D
 (in other discipline) qualifications and fulfilling other University requirements for guiding of
 Master and/or Ph. D research students.
- Identified ICAR-CIPHET faculty as Co-Major or Major Guide will look after the research work, day to day conduct and progress of the student during his/her stay and also supervision of experiments at ICAR-CIPHET, Ludhiana/Abohar.
- Both the collaborating institutions shall maintain confidentiality on the technique and results of research work.
- Any new developed technology will be taken up for commercialization or adoption under the supervision of Director, ICAR-CIPHET (in case major work is done at ICAR-CIPHET) and VC or concerned authority nominated (in case major work is done at University) with assistance/ cooperation of both the parties.
- 10. The respective institutes will bear the expenses of TA/DA of the Teachers/Scientists visiting Ludhiana/ Longowal or any other place and the students will bear their own expenses.
- 11. Development and implementation of collaborative teaching research and extension projects in the identified areas and methodology to be used as mutually agreed upon, subject to IPR Intellectual Property Rights (IPR) clause in Article IV.

This MoU has been executed in two originals, one of which has been retained by the First party and the other by the Second party.

(Signature of First Party)

हा, निषकेत कोतवालीवाले/ Dr. Nachiket Kotwaliwale निदेशक/Director भाकुअनुप-केन्द्रीय कटाई उपगन्न प्रभियांत्रिकी एवं प्रौद्योगिको संस्थान, लृश्याना-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana-141004 (India) Dire cigp ने भारता Second Party) Sant Longowal Institute of Engg. & Tech. संत लौगोवाल अभियांत्रिकी एवं ग्रीद्योगिकी संस्थान Longowal-148106, Punjab (India) 6 of 7 लौगोवाल, संगरूर, पंजाब 148106 IN WITNESS WHEREOF, the parties have executed this MoU and represent that they approve, accept and agree to terms contained herein.

The Director ICAR-Central Institute of Post-Harvest **Engineering and Technology** P.O-PAU, Ludhiana-141004 Punjab

The Director Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106, Punjab

Dr. Nachiket Kotwaliwale Tel No.0161-2313105

Email: director.ciphet@icar.gov.in Date: 09 02 2022

ग. नचिकेत कोतवा**लीवालै/** Dr. **Nachik**et Kotwaliwale क्ञनुप-केन्द्रीय कटाई उपरान्त अभियांत्रिकी । एवं प्रौहोगिकी संस्थान, सुविकास-141004 (भारत) ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhlana-141004 (India)

Dr. Shailendra Jain Tel: 01672-253100 E-mail: director@sliet.ac.in

Director | 102 | 02 | 2022 Sant Longowal Institute of Engg. & Tech. रांत लींावाल अमियांत्रिकी एठं प्रौद्योगिकी संस्थान Longowal-146106, Punjab (India) लीगोवाल, संगरूर, पंजाब 148106

Signature with Seal

Signature with Seal

Witness 1 Mary 09/02/22 Dr. Sondeep Marry

PS+ DIC PME Cell

Witness 2 ...

Do: D. N Yadav

Head, Tot, tork-cipage

Witness 1....

Dr. J.S. Dhillon Dean (Academics)

Witness 2

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MEMORANDUM OF UNDERSTANDING



BETWEEN

Sant Longowal Institute of Engineering and Technology, Longowal - 148106, District Sangrur (Pb.), India

AND

Modern Colours Pvt. Ltd., Vill. Mangarh, Machiwara Road, Kohara – 141112, Ludhiana (Pb.), India

Principal Agreement

Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur (Pb.), India thereinafter referred to as "SLIET, Longowal" and the context so admits includes its successors and assignees) and Modern Colours Pvt. Ltd., Plot No. 3 & 4, Lakshita Cluster, Vill. Mangarh, Machiwara Road, Kohara — 141112, Ludhiana (Pb.), India (hereinafter referred to as "MCPL, Ludhiana" and the context so admits includes its successors and lassignees) agree to enter into a Memorandum of Understanding to facilitate both parties.

Now it is hereby agreed as follows:

Article 1. Scope of cooperation

The scope of this MoU covers the following:

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Experience Ord.

SLIET, Longowal and MCPL, Ludhiana hereby agree that both parties shall conduct the following collaborative programs of mutual interests under joint project/s, in the following areas (hereinafter called activity) during the term of this agreement.

- 1.1 FIRST PARTY (SLIET, Longowal) will offer the available testing facilities to SECOND PARTY (MCPL, Ludhiana) and vice versa at the applicable prices/ rates.
- 1.2 Both parties (SLIET, Longowal and MCPL, Ludhiana) will conduct collaborative research and development activities (innovation projects etc.) and may create the relevant infrastructure for mutual benefits. Proposals for funding the research projects may be submitted jointly to National / International funding agencies too. The rules / norms of the funding agencies/SLIET will be followed.
- 1.3 Organizing Short/Long Term Exchange Programs between officials of SLIET, Longowal and MCPL. Ludhiana and offer consultancy depending on the project's requirement.
- 1.4 Utilizing the research facilities by both parties in each other's laboratories for research purposes in areas of mutual interests. Both the parties agree to share their available facilities, including laboratories, library books, journals, software, and hardware, as may be available without interference/compromising the existing activities detrimental to either of the party. Sharing shall be carried out on case to case basis with prior written communication.
- 1.5 Both parties will make efforts for conducting Formal/ Non-formal programs to develop professionly trained manpower for paint and alllied Industry (Paint Manufacturing as well as Application). Both parties will strive to develop an appropriate center at SLIET, Longowal for the said purpose.
- 1.6 SLIET, Longowal shall issue necessary Gate Pass/ Invitation permitting MCPL authorized personnel to visit the SLIET, Longowal to undertake the activities of the above MoU.
- 1.7 MCPL. Ludhiana will assist the students of SLIET, longowal in undergoing practical training/ internship/ executing projects on no monetary basis.
- 1.8 SLIET, Longowal will device and offer the relevant training programs/ Short Term Courses/ Conferences/ workshops etc. at National/ Internatinal levels as well as for the employees of MCPL, Longowal and other related industries.
- 1.9 For specific industrial problems, MCPL, Ludhiana can approach SLIET, Longowal & vice versa based on the needs of individual expertise, equipment, and experience. It shall be treated as an industrial consultancy. This is carried out along with teaching and research, which are a prime function of the faculty. The other modalities in consultancy will be discussed separately with the concerned people on a case-to-case basis.

Article 2. Mechanism for implementation

For the purpose of implementation of this MoU, SLIET, Longowal will be represented by Dr. Sandeep Mohan Ahuja (Professor, Chemical Engg.) and Dr. Gulshan Kumar Jawa (Associate Professor, Chemical Engg.), and MCPL, Ludhiana is being represented by Sh. Muktideep Singh, Director.

These representatives may meet as and when necessary to draw plans of action and to review the progress in the implementation of the agreed arrangements as outlined in Article 1.

If necessary, separate subsidiary agreements may be signed for one or more of the activities mentioned in Article 1 for specific details and terms and conditions. All activities under this MoU shall be subject to availability of resources and approval by the competent authorities of the respective organizations.

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Article 3. Financial obligations

For each activity outlined in Article 1 the extent of financial commitment by the two organizations will be separately negotiated and agreed upon. Prior to final agreement and the carrying out of any activity arising from this MOU both SLIET, Longowal and MCPL, Ludhiana must obtain the concurrence in writing of their respective finance / Accounts and Audit Sections.

Article 4. Duration of MoU

This MoU will come into force on the date of its execution by the authorized signatories of SLIET, Longowal, and MCPL, Ludhiana and shall remain in force for a period of 05 years and may be renewed upon its expiry with the agreement of both parties. If the MOU remains dormant for 02 consecutive years it will be deemed to have lapsed.

Either SLIET, Longowal, or MCPL, Ludhiana may terminate the MOU by giving 03 months' notice in writing to the other party. The termination of this MOU shall not affect the implementation of the activities already established under it prior to such termination.

Article 5. Amendments

This MOU may only be amended by mutual agreement evidenced in writing by a duly authorized representative from both the organizations.

Article 6. Intellectual Property

Any intellectual property arising out of the implementation of this MoU shall be secured and maintained by mutual consent according to the provisions of the IPR rules of SLIET, Longowal, and those of MCPL, Ludhiana.

Article 7. Settlement of Disputes

Any dispute, conflict of interest or problems arising from the application or interpretation of this MoU shall be resolved by mutual discussion and in good faith by the designated representatives of both the organizations as mentioned in Article 2.

Article 8. Legal status

Nothing in this MoU shall be construed as creating any legal relationship between the parties. This MoU is a statement of intent to foster genuine and mutually beneficial cooperation.

Signed this 9th day of June. 2022

9506/22

On behalf of SLIET, Longowal

Prof. Shailendra Jain

Director, SLIET, Longowal

Witnesses:

For SLIET, Longowal

1. Dr. Sandeep Mohan Ahuja

2. Dr. Gulshan Kumar Jawa Ckygust

On behalf of Modern Colours Pvt. Ltd.,

Ludhiana

Mr. Muktideep Singh

Director, MCPL, Ludhiana

Witnesses:

For MCPL, Ludhiana Rolon Barol

1.Parteek Bajaj

2. Sunny Sharma

Memorandum of Understanding

Between



Dr. B. R. AMBEDKAR NATIONAL INSTITUTE OF **TECHNOLOGY** JALANDHAR-144027 (PUNJAB) INDIA

AND



संत लौंगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान

Sant Longowal Institute of Engineering & Technology
(Deemed to be University under Ministry of Education, Govt. of India)
Longowal – 148106, District Sangrur (Punjab) INDIA

OCTOBER, 2022

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING (MOU) is executed at Jalandhar on this 4th Day of October, 2022.

Dr. B R Ambedkar National Institute of Technology, Jalandhar represented by the Director, having its office at Dr. B R Ambedkar National Institute of Technology, Jalandhar-144027 (Punjab), which term shall unless repugnant to the context or meaning thereof hereinafter be referred to as the PARTY OF THE FIRST PART/NITJ;

AND

Sant Longowal Institute of Engineering and Technology, Longowal (Punjab), represented by its Director, having its head office at Longowal- 148106 (Punjab), which term shall unless repugnant to the context or meaning thereof hereinafter be referred to as the PARTY OF THE SECOND PART/SLIET.

Whereas the parties are desirous of entering into the instant Memorandum of Understanding for the main purpose of promoting academics and research cooperation between the two Institutions and agree to the following terms and conditions enlisted hereunder:

NOW THIS MEMORANDUM OF UNDERSTANDING WITNESSETH AS FOLLOWS:

1. SCOPE

- 1.1 SLIET and NITJ will undertake joint research and development activities in the areas of mutual interest.
- 1.2 The concerned faculty members of SLIET and corresponding faculty members of NITJ will formulate research projects and skill development plans for joint work with due approval of both the participating Institutions.
- 1.3 Impart training to staff, students and technical personnel within the areas of co-operation.
- 1.4 Joint sponsored and consultancy projects could be undertaken, with both long term and short-term goals, keeping in view the interests and philosophies of the respective Institutions
- 1.5 The collaboration will cater to indigenous development of various technologies for niche industrial applications.

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2. TENURE OF AGREEMENT

- 2.1 This Memorandum of Understanding shall be valid for a period of five years from the date of execution of this Agreement
- 2.2 The instant agreement may be mutually extended by mutual agreement between the parties.

3. Exchange/Deputation of Scientists/faculty

- 3.1 Both SLIET and NITJ jointly agree as follows:
 - 3.1.1 To exchange Faculty members through deputation on full-time/ part-time basis for a limited period and up to one year at a time for the purpose of implementation of joint tasks within the areas of cooperation, depending on the availability of faculty with prior approval of competent authority.
 - 3.1.2 Staff Members on such deputation shall be deemed to be on duty with the parent organization for the said period.
 - 3.1.3 That the faculty and research fellows registered for Ph.D. degree may visit other Institution for a short period in connection with their research work. They shall be deemed to be on duty with the parent organization for the said period.
 - 3.1.4 That the technical personnel deputed for training shall also be deemed to be on duty with the parent organization for the period of training.
 - 3.1.5 Those faculty members will be encouraged to deliver expert talks/lectures at the other Institution. TA/DA and honorarium for the talks/lectures shall be borne by the host Institution, as per the institute norm.
 - 3.1.6 Faculty of NITJ may submit the research proposals in collaboration with SLIET faculty members under promoting Innovation in Individuals, Start-Ups, MSMEs (PRISM) scheme, etc.

4. ORGANISATION OF JOINT CONFERENCES/WORKSHOPS/COURSES

- 4.1 Both SLIET and NITJ agree:
 - 4.1.1 To hold/conduct, whenever feasible, joint workshops, conferences, STCs, training courses, etc. within the areas of co-operation.

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4.1.2 That the host Institution shall provide accommodation to the participating members from the visiting Institute wherever feasible at special minimum rates applicable to research and academic institution.

5. SHARING OF AVAILABLE FACILITIES:

- 5.1 The two Institutions agree to share their respective R&D facilities in order to promote academic and research interactions in the areas of cooperation to intensify the high priority area programmes of science and technology. The charges of facility usage shall be applicable which shall be decided jointly by SLIET and NITJ on a case-to-case basis through separate proposals as per UGC/DST/DSIR/ DRDO/CSIR guidelines.
- 5.2 The two Institutions agree to exchange software, other materials and components developed in-house in the areas of co-operation, if advisable within the framed rules governing the two Institutes.
- 5.3 Access to laboratories, library and other supporting facilities for the students of B.Tech/ M.Tech/ Ph.D. programmes in the areas of mutual interests and staff working at either of the two Institutions will be provided by both Institutions.
- 5.4 NITJ and SLIET agree to collaborate on research projects of mutual interest for applying for funding from various R&D agencies including DST, DBT, DSIR, etc. SLIET can also jointly collaborate as an industry partner with NITJ as required in many proposals on a case to case basis and with the consent of Director NITJ and Director, SLIET.

6. PROJECT WORK OF STUDENTS

6.1 Selected students of B.Tech/M.Tech in the respective areas of specialization of NIT Jalandhar will be allowed for project work at SLIET, and vice-versa. The students will work in the areas of mutually agreeable divisions by both Institutions. The training charges, if any, shall be applicable as per norms of the host institute.

Ph.D. REGISTRATION

7.1 Faculty/ Staff of SLIET may be registered for Ph.D. programme at NITJ as per the provisions made in the Ph.D. ordinance of the Institute for R & D organizations.

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7.2 There shall be provision for joint supervision with appropriate staff of SLIET and NITJ in conformity with the rules and norms for Ph.D. research guidelines at NITJ.

8. AREAS OF CO-OPERATION

- 8.1 The areas of co-operation will be defined and modified from time to time by the coordination Committee set up for the purpose.
- 8.2 The coordinator from SLIET for each identified area of co-operation shall be decided by Director, SLIET.
- 8.3 The coordinator from NIT Jalandhar for each identified area of cooperation shall be decided by the Director, NITJ.

9. MEMBERS AND FUNCTIONS OF THE CO-ORDINATION COMMITTEE

- 9.1 The following will constitute the Coordination Committee to monitor and review the collaborative programmes between the two Institutions:
 - Director, NITJ or his nominee (s)
 - Director, SLIET or his nominee(s)
 - Coordinators from NITJ & SLIET
- 9.2 The Coordination Committee shall:
 - 9.2.1 Review the progress of the identified programs (at least once in a year)
 - 9.2.2 Consider the new R&D proposals for joint collaboration and implementation on case-to-case basis including IPR and financial arrangement.
 - 9.2.3 Consider the addition/deletion of areas of co-operation between the two Institutions during review.
 - 9.2.4 Consider the continuance of the MoU.

10. JOINT PROPERTY

10.1 The Parties agree that any intellectual property rights arising from or in connection with any programme or activity under this agreement, through and by the joint and collaborative efforts of both Parties shall be jointly owned and subject to any other terms and conditions as may be agreed upon writing.

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- 10.2 Both Parties shall acknowledge one another in any form of writing, publication or presentation based on research derived from the cooperative efforts of both Parties under this agreement, unless otherwise mutually agreed upon in writing by the Parties.
- 10.3 The parties shall have the liberty to execute a separate agreement/contract if necessary to govern any development which arises out of the instant collaboration.

11. NO MONETARY CONSIDERATION

11.1 No monetary consideration will be exchanged between the two institutions, nor will there be any reimbursements for expenses, or sharing of fees or profits arising from the instant agreement.

12. TERMINATION

- 12.1 Either party may terminate the instant MOU in advance of its normal expiration by providing the other party with six-months written notice subject to fulfillment of commitments already agreed upon under the provisions of the instant MOU.
- 12.2 The instant MoU shall continue to apply to the ongoing activities until their completion regardless of any termination.
- 12.3 Disputes arising under the instant MOU shall be settled through mutual discussions.

13. LIABILITY AND INDEMNITY

- 13.1 Each Party shall be solely responsible and liable for the actions and omissions of its employees, agents and assigns.
- 13.2 No party shall be liable to indemnify the loss caused to the other party, if the loss caused is as a result of their own actions.
- 13.3 If however, the loss caused to a particular party has arisen as a result of the other party's actions, then the party which caused the loss shall be liable to indemnify the loss of the non-faulting party.

14. SEVERABILITY

14.1 If any provision of this Agreement is held to be illegal, invalid or unenforceable in whole or in part in any jurisdiction, this Agreement shall, as to such jurisdiction, continue to be valid as to its other provisions and

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the remainder of the affected provision; and the legality, validity and enforceability of such provision in any other jurisdiction shall be unaffected.

15. ENTIRE AGREEMENT

- 15.1 Save as provided herein, this Agreement embodies all the terms and conditions agreed upon between the Parties hereto as to the subject matter of this Agreement and supersedes and cancels any previous agreements, representations, warranties, discussions, understandings and/or undertakings amongst the Parties, written or oral or otherwise with respect to such subject matter.
- 15.2 This Agreement shall not be construed to be an arrangement between the parties in the nature of a Partnership, Association of Persons, Joint Venture Agreement or any contract of a commercial nature.

16. ASSIGNMENT

- 16.1 The rights and obligations under this Agreement shall not be assigned or transferred in whole or in part by any Party without the written consent of the other Parties.
- 16.2 This Agreement shall benefit and be binding on the Parties, their assignees and their respective successors.

17. CONFIDENTIALITY

17.1 Each party hereby agrees to maintain secrecy and keep confidential any information that it shall gain or be privy to in the course of execution of carrying out its obligations under this Agreement and agrees not to disclose to the same to any third party for any reason whatsoever except for complying with any applicable law, insurance or regulatory requirements or order of any competent Court, of such information gained, unless permitted by the Other Party.

18. VARIATION

18.1 No variation of this Agreement shall be valid unless it is in writing and signed by or on behalf of each of the Parties to this Agreement.

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IN WITNESS WHEREOF, the undersigned Parties have hereby executed this MEMORANDUM OF UNDERSTANDING as of the day and year first written above

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By: p4 16/22	By: Director/ Column
Prof. Binod Kumar Kanaujia Director, Dr. B.R. Ambedkar Dr. B.R. Ambedkar NI National Institute of Technoic Jalandhar, Punjab Jalandhar-14401	Prof. Shailendia ain Longowal Institute of Engg. & Tech Director, संत लोगोवाल अभियांत्रिको एवं प्रौद्योगिको संस्थान 95LIET, Longowal Longowal 20148106, Punjab (India)
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Date	Date 04 X 22
Witnesses:	Witnesses:
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Name : Dr. J. N. Chakraborty, Dean (R&C)	Name : H.M. Arora , Registrar
Dr. B.R. Ambedkar NIT,	SLIET, Longowal – 148106,
Jalandhar, Punjab	District Sangrur (Punjab)
By River	By Shillon - 04.10.2022
Name: Dr. Tangellapalli,	Name : Prof. J.S. Dhillon
Associate Dean	Dean (Academics)
Dr. B.R. Ambedkar NIT,	SLIET, Longowal – 148106,
Jalandhar, Punjab	District Sangrur (Punjab)