MEMORANDUM OF UNDERSTANDING

(MoU)

BETWEEN

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY, LONGOWAL

CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY.

PALAMPUR, HIMACHAL PRADESH

Place: SLIET, Longowal

Date: 15th October-, 2026

MEMORANDUM OF UNDERSTANDING (MoU) BETWEEN

SANT LONGOWAL INSTITUTE OF ENGINEERING AND TECHNOLOGY, LONGOWAL (SLIET, LONGOWAL)

AND

CSIR - INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY (CSIR-IHBT)

This **Memorandum of Understanding (MoU)** is entered into on 15 October 2026.

BY and BETWEEN

Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, India (hereinafter referred to as "SLIET, Longowal") represented by the Director, Sant Longowal Institute of Engineering and Technology, Longowal - 148106, District Sangrur, Punjab

AND

CSIR - Institute of Himalayan Bioresource Technology (herein after referred to as "CSIR-IHBT"), a constituent unit of Council of Scientific and Industrial Research, represented by Director, Institute of Himalayan Bioresource Technology, Palampur-176061, District Kangra, Himachal Pradesh

To

To promote Academic and Research Co-operation between the two Institutes in the areas of Food Technology, Chemical Technology, Artificial Intelligence, Sensing and other areas of mutual interest.

1. Objectives

- CSIR-IHBT and SLIET, Longowal will undertake joint research and development work in the areas of mutual interest, especially in Food Technology, Chemical Technology, Artificial Intelligence, and other areas of mutual interest.
- The concerned faculty of CSIR-IHBT and corresponding faculty members of SLIET, Longowal will formulate research projects and HRD plans for joint work with due approval of both the participating institutions.
- Impart training to staff, students and technical personnel within the 'areas of co-operation. 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.

2. Exchange/ Deputation of Faculty & Staff

Both CSIR-IHBT and SLIET, Longowal jointly agree:

- To exchange faculty/ students for a specified period of time for the purpose of implementation of joint tasks within the areas of co-operation as per the extant guidelines of respective institutes. Exchange of faculty/staff from both the institutions shall be as per their time and availability after approval from the Competent Authority from the concerned institutions and shall be deemed to be on duty with the parent organization for the said period.
- That the faculty/staff and research fellows registered for Ph.D. degree may visit other institutions 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.
- That the technical personnel deputed for training shall be deemed to be on duty with the parent organization for the period of training.
- Development and submission of joint research projects and proposals for external funding, along with the co-organization of Short-Term Programmes (STPs), Faculty Development Programmes (FDPs), seminars, symposia, and conferences to promote academic excellence, capacity building, and collaborative research.
- That the faculty/ staff will be encouraged to deliver lectures/invited talks at the other institution. The TA/DA and the honorarium for the lectures shall be borne by the host institution.
- During the period of currency of the MoU, the Leaves rules for staff /students of respective

organizations shall be applicable.

These deputations, visits and training etc. should be performed with the prior approval of the competent authorities of respective institutes.

3. Joint Conferences/ Workshops/ Courses

Both CSIR-IHBT and SLIET, Longowal agree:

- To hold/conduct, whenever feasible, joint workshops, conferences, training courses within the areas of co-operation of mutual interest.
- That the host institution shall provide accommodation to the participating members from the visiting institutes wherever feasible at special minimum rates applicable to research and academic institutions.

4. Sharing of Facilities

- The two institutes agree to share their respective important R&D facilities in order to promote academic and research interactions in the areas of co-operation to intensify the high-priority area programmes of science and technology.
- The two institutes agree to exchange information; other material and components developed in house in the areas of co-operation.
- Access to available laboratory, library and other available facilities for students (in the areas of mutual interests) and a limited number of already registered Ph.D. students generally stationed at SLIET, Longowal and CSIR-IHBT will be provided by both institutes as per their extant guidelines.
- Accommodation facilities will be provided to the faculties and research students by both the institutes as per the respective rules and regulations of the institutes.

5. Project Work of students

The selected students in respective areas of specialization of both institutions shall be allowed to work in either of the institutes as per their extant guidelines and the available facilities (subject to formal mutual concurrence).

6. Areas of Co-operation

The broad areas of co-operation are defined as:

1. Food Technology
2. Chemical Technology
3. Artificial Intelligence
4. Other areas of mutual interest

The Head of the respective schools/departments/Laboratories, or their nominees, shall be the coordinators from the respective institutes. The nomination shall be communicated by the respective Head/Registrar based on the approval of the respective Director, as the case may be.

7. Co-ordination Committee

The following will constitute the coordination committee to monitor and review the collaborative programme between the two institutions:

a) Director, CSIR-IHBT or his nominee (s)

b) Director, SLIET, Longowal or his nominee (s)

c) Coordinators from SLIET, Longowal and CSIR-IHBT

d) Concerned Head of Department/ Schools/Laboratories of Respective institutes

e) Chief Scientist (Planning Project Monitoring and Evaluation), CSIR-IHBT and SLIET, Longowal

The Coordination Committee shall:

- Review the progress of the identified programs (at least once a year).

- Consider the new R&D proposals for joint collaboration and implementation on case-to-case basis including IPR and financial arrangement.
- Consider the addition/deletion of areas of Cooperation between the two institutions during review.
- Consider the continuance of the MoU.
- The respective Director shall chair the meeting on rotation basis.
- The decision of the coordination committee shall be binding on all the stakeholders.

8. Publications

8.1 Publications, if any, in respect of the development of the know-how as envisaged with the prior mutual consent of the two parties shall be in the names of the investigators concerned and as per the publication policy/ guidelines of the respective institute. Prior publications will be avoided where a patent or patents may possibly be taken.

8.2 Publications, if any, in respect of the said studies will be shared jointly with the prior mutual consent of SLIET, Longowal and CSIR-IHBT and shall be in the names of both parties, with suitability acknowledged by SLIET, Longowal / CSIR-IHBT.

8.3 Prior publications will be avoided where a patent or patents may possibly be taken.

9. Protection & Disposition of Ownership of Intellectual Property Rights

9.1 The ownership of all Background Information and Background Intellectual Property Rights generated by the parties prior to the MoU shall rest with the respective parties. However, parties should have right to use Background Information and Background Intellectual Property Rights for the purposes of the R&D work performed under this MoU. In case of using pre-existing patents, due process will be used for acknowledging intellectual property rights.

9.2 All Foreground Information and Foreground Intellectual Property Rights created during the joint R&D work performed under this MoU shall be owned jointly by both the parties.

9.3 Parties to this MoU shall confer and consult with each other regarding the filing of Intellectual Property Rights applications, including patent applications covering Foreground Information, and share equally the attendant expenditure related to filing, prosecution, grant, maintenance, etc. of the same.

9.4 In the event of any extraordinary situation, including infringement suits filed by third parties, parties shall initiate any action in mutual consultation and agreement.

10. Non-Disclosures

In case of joint research and consultancy projects taken up by CSIR-IHBT and SLIET, Longowal, no party will disclose any part of the investigation to the media in any form without mutual consent.

11. Force Majeure

Neither party shall be held responsible for non-fulfilment of their respective obligation\ under this MoU due to the exigency of one or more of the force majeure events, such as, but not limited to Acts of God, War, Flood, Earthquakes, Strike(s), Lockout(s), Epidemics, Riots, Civil commotion etc. provided on occurrence and cessation of such events, the party affected by these shall give a notice in writing to the other party within one month of such occurrence and cessation. If the majeure conditions continue for over six months, the parties shall then mutually decide about the future course of action.

12. **Arbitration**

12.1 Except as otherwise provided elsewhere in the MoU, in the event of any dispute or difference relating to, arising from or connected with the MoU such dispute or difference shall be resolved between the parties by mutual consultation and to the satisfaction of both the parties (SLIET, Longowal and CSIR-IHBT).

12.2 If amicable settlement cannot be reached within 30 days from the date of the occurrence of the dispute, the matter under dispute shall be finally settled without recourse to the courts, in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and amendments thereto, if any.

12.3 Except as herein before provided, any dispute arising out of this Agreement, the same shall be referred to Delhi International Arbitration Centre (DIAC), Delhi High Court, New Delhi and the decision of such (DIAC), as the case may be, shall be final and binding on both parties (SLIET, Longowal and CSIR-IHBT). The venue of arbitration shall be at New Delhi, and the arbitration proceedings shall take place under the Indian Arbitration and Conciliation Act, 1996.

13. Validity & Period

13.1 This MoU comes into effect from the date of its signing and will remain in force till the completion of five (05) years. Its validity can be extended by mutual agreement between both the parties.

13.2 This shall remain in operation as per Clause 13.1 until either party serves 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.

In witness whereof the undersigned, duly authorized, have signed this Memorandum of Undertaking at SLIET, Longowal on the 15th October 2026. It has been executed in two originals; one has been retained by CSIR-IHBT and the other by SLIET, Longowal.

Dr. Sudesh Kumar Yadav
Director
Institute of Himalayan Bioresource Technology, Palampur, Distt. Kangra, HP, PIN- 176 061

Dr. Mani Kant Paswan
Director,
Sant Longowal Institute of Engineering and Technology, Longowal, 148106, Sangrur, Punjab,

15/10/26

Witness/ Coordinators:

1. Dr. Sukhjinder Singh
Scientist-E and Coordinator,
Business Development & Marketing Unit,
CSIR-Institute of Himalayan Bioresource Technology, Palampur- 176 061 (H.P.)

2. Dr. Mahesh Gupta
Scientist F, and Head,
Dietetics & Nutrition Technology Div.
CSIR-Institute of Himalayan Bioresource Technology, Palampur- 176 061 (H.P.)

3. Dr. Ashok Kumar Pathera
Scientist C,
Dietetics & Nutrition Technology Div.
CSIR-Institute of Himalayan Bioresource Technology, Palampur- 176 061 (H.P.)

Witness/ Coordinators:

1. Prof. (Dr.) Surinder Singh,
Dean (Research & Consultancy),
Sant Longowal Institute of Engineering & Technology, Longowal, 148106, Sangrur, Punjab.

2. Dr. C. S. Riar 15/10/2026
Professor & Head
Deptt. of Food Engineering. & Technology
Sant Longowal Institute of Engineering & Tech., Longowal, 148106, Sangrur, Punjab.

15/10/2026

3. Dr. Sukhcharn Singh,
Professor & PG-Coordinator,
Deptt. of Food Engg. & Technology
Sant Longowal Institute of Engineering & Tech., Longowal,148106, Sangrur, Punjab.