

Dr. M. Chandrasekharam, FRSC, FAPAS
Sr. Principal Scientist & Chair
Dept. of Knowledge & Information Management (DKIM)

डॉ. एम. चंद्रशेखरम
वरिष्ठ प्रधान वैज्ञानिक और अध्यक्ष
ज्ञान एवं सूचना प्रबंधन विभाग

File no:MOU/IISER Kolkata
4th September, 2019

Shri Santanu Das Mahapatra.
Assistant Registrar (International Relations & Outreach).
Indian Institute of Science Education and Research Kolkata (IISERK).
Mohanpur-741246
Dist. Nadia. West Bengal

Sub: Original copy of the signed MOU enclosed reg:

Dear Sir,

This is with regard to the MOU executed on 3rd September, 2019 between CSIR-IICT & IISER Kolkata that, an original copy signed by us is sent to you for your records. Kindly acknowledge the receipt of the document.

With best regards,

Yours sincerely,

Encl: As stated above


(M. Chandrasekharam)

MEMORANDUM OF UNDERSTANDING (MoU)

Between

CSIR-Indian Institute of Chemical Technology Hyderabad

And

**Indian Institute of Science Education and Research Kolkata (IISER Kolkata)
West Bengal**

This memorandum of understanding entered into on 19th day of August 2019 between CSIR-Indian Institute of Chemical Technology, Uppal Road, Tarnaka, Hyderabad- 500 007, Telangana, a constituent unit of the Council of Scientific and Industrial Research (CSIR), a Society registered under Societies Registration Act (XXI of 1860), having its registered Office at Anusandhan Bhavan, Rafi Marg, New Delhi – 110 001 (hereinafter referred to as **CSIR-IICT**, which expression shall where the context so admits include its successors and permitted assignees)

AND

Indian Institute of Science Education and Research Kolkata (IISER Kolkata), Mohanpur, Nadia - 741 246, West Bengal, India (hereinafter referred to as **IISERK**, which expression shall where the context so admits include its successors and permitted assignees) of the other part.

WHEREAS CSIR-IICT has expertise in conducting R & D studies in following areas:

- Synthetic Organic Chemistry
- Natural Products Chemistry
- Lipid Science and Technology
- Polymers & Functional materials
- Catalysis & Advanced Materials
- Crop Protection Chemicals and Integrated Pest Management
- Chemical & Mechanical Engineering Sciences
- Medicinal Chemistry & Pharmacology
- Biology & Bioinformatics



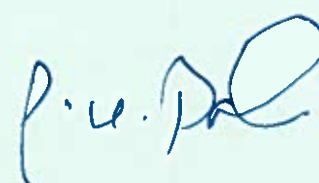
- Chemical Biology
- Energy and Environmental Sciences
- Bioinformatics
- Cheminformatics
- Pharmacy
- Molecular modelling
- Laser Spectroscopy

WHEREAS IISERK, has expertise in conducting R & D studies across broad areas of Biological Sciences in Department of Biological Sciences, Chemical Sciences in Department of Chemical Sciences, Physical Sciences in Department of Physical Sciences, Earth Sciences in Department of Earth Sciences and Mathematical Sciences in Department of Mathematics & Statistics along also four centers namely- Center of Excellence in Space Sciences India (CESSI), National Centre for High-Pressure Studies (NCHPS), Centre for Advanced Functional Materials (CAFM) and Center for Climate and Environmental Studies (CCES) dedicated to the study of specific topics.

1. Scope of the MOU:

WHEREAS CSIR- IICT and IISERK have agreed to collaborate in the following areas:

- a. Formulation of joint project proposals in areas of mutual interest and submissions to various Agencies/Industries for funding.
- b. Exchange of scientists, faculty & students in collaborative projects on areas of expertise as mentioned above.
- c. Visit of Scientists / Faculty on sabbatical
- d. Teaching, Research and Training in selected and advanced thrust areas in S&T.
- e. Skill development program, certification courses, training programme offered to external agencies (Private & Public sector organizations, educational institutions and other research institutes to name a few).
- f. Performing experiments or data collection in different instruments such as ultrafast fluorescence upconversion, ultrafast transient absorption studies, etc. in either of the institutes on chargeable basis, as per the respective institute norms.



- g. Joint publication out of collaborative research work carried out in either of the institutes as per the respective institute norms.
- h. Any other forth coming areas of mutual interest will be included under the purview of this MOU through a separate agreement/schedule.

2. Joint Projects:

CSIR-IICT and IISERK agree to enter into separate agreements on case to case basis with respect to joint projects to be taken up by the two institutes.

3. Intellectual Property Rights:

- a. Both IISERK and CSIR-IICT shall continue to be the owners of their respective intellectual property. Nothing in this agreement shall be construed as affecting the ownership rights, title or interest, (including commercial right) of a party to its own IP or granting, assigning or transferring any rights in its IP to the other party unless expressly agreed otherwise by the Parties in writing.
- b. The Intellectual Property derived out of a collaborative project involving IISERK and any of CSIR-IICT's investigators, shall be treated according to the specific provisions of a collaborative agreement.
- c. Any IPR agreement during the sabbatical will be the property of the host Institute.

4. Confidentiality:

During the tenure of the MOU and thereafter, both CSIR-IICT and IISERK undertake on their behalf and on behalf of their subcontractors/ employees / representatives / associates to maintain strict confidentiality and prevent disclosure thereof, of all the information and data exchanged / generated pertaining to work under this MOU for any purposes other than in accordance with this MOU.

5. Arbitration:

Except as hereinbefore provided, any dispute arising out of this MOU, 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. The venue of arbitration shall be such place as may be fixed by such arbitrators or umpire, and the arbitration proceedings shall take place under the Indian Arbitration Act, 1940 as modified in 1996.



6. Effective date, duration, termination of the MOU:

6.1. The MOU shall be effective from the date of signing and shall remain in force for two years.

6.2. The MOU shall terminate on the expiry of the period, as in clause 6.1 unless extended by both parties.

6.3. During the tenure of the MOU, parties hereto can terminate the MOU either for breach of any of the terms and conditions of this MOU or otherwise by giving 2 months notice in writing to the defaulting party. 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.

6.4. In the event of termination of the MOU vide 6.3 the rights and obligations of the parties, to it shall be settled by mutual discussion.

7. This MOU has been executed in two originals; one of these has been retained by CSIR-IICT and the other by IISERK.

In witness whereof, the parties hereto have signed this MOU on the day, month, and year mentioned herein before.

Signed, sealed and delivered

[Signature]
For and on behalf of
CSIR - IICT, Hyderabad-500007

Seal **Dr. A. Gangagni Rao**
Chief Scientist
Department of Energy and Environmental Engineering
CSIR-Indian Institute of Chemical Technology
(Ministry of Science and Technology, Govt. of India)
Tatagur, Hyderabad-500 007, Telangana, India.

Date:

Signed, sealed and delivered

[Signature]
For and on behalf of
IISERK

Seal **Dean, International Relations and Outreach**
भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान कोलकाता
Indian Institute of Science Education and Research Kolkata
(Under Ministry of HRD, Govt. of India)
मोहनपुर / Mohanpur-741246, पश्चिम बंगाल / West Bengal

Date: 29-08-2019

Witnesses (Name & address)

1. *[Signature]*
डॉ. एम. चंद्रशेखर
Dr. M. Chandrasekharam
वरिष्ठ प्रधान वैज्ञानिक और अध्यक्ष / Senior Principal Scientist & Chair
ज्ञान एवं सूचना प्रबंधन विभाग / Dept. of Knowledge & Information Management (DKIM)
सी.एस.आई.आर. - भारतीय रासायनिक प्रौद्योगिकी संस्थान
CSIR-Indian Institute of Chemical Technology
विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार / Ministry of Science & Technology, Govt. of India
हैदराबाद / Hyderabad - 500 007, तेलंगणा / Telangana, India
03-09-2019

2. *[Signature]*
डॉ. एस. वेंकटा मोहन / Dr. S. Venkata Mohan
वरिष्ठ प्रधान वैज्ञानिक एवं डीबीटी - टाटा इनोवेशन फेलो
Senior Principal Scientist and DBT-Tata Innovation Fellow
जैव अभियांत्रिकी एवं पर्यावरण विज्ञान प्रयोगशाला, निर्देशक
Bioengineering and Environmental Sciences Lab, CEEFF
सीएसआईआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान
CSIR-Indian Institute of Chemical Technology
हैदराबाद / Hyderabad - 500 007, भारत / India

Witnesses (Name & address)

1. *[Signature]*
(SANTANU DAS MAHAPATRA)
IISER KOLKATA

2. *[Signature]*
ROSHANIT DAS
IISER KOLKATA