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CW 080934

### Memorandum of Understanding (MoU)

This MoU is made and entered into on 5<sup>th</sup> January 2025 by and between – **Amala Institute of Medical Sciences, Thrissur, Kerala India** and **Section of Interventional and Onco-Pulmonology, Division of Pulmonary Critical Care, University of Maryland School of Medicine, Baltimore, USA**

Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society) is a private medical college recognized by National Medical Commission of India and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under its Devamatha Province, represented by its Director, **Fr. Julious Arakkal CMI**, hereinafter called as "**First Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **First Party**.

And

Section of Interventional and Onco-Pulmonology, Division of Pulmonary Critical Care, University of Maryland School of Medicine, Baltimore, USA is a division of Pulmonary Medicine of University of Maryland School of Medicine, a globally recognized medical school engaged in medical education, research, and innovation represented by its, Chief and Associate Professor of Medicine **Dr. Ashutosh Sachdeva**, hereinafter called as "**Second Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **Second Party**.

*ashutosh sachdeva*  
May, 2025

No. 19176 Value *50*

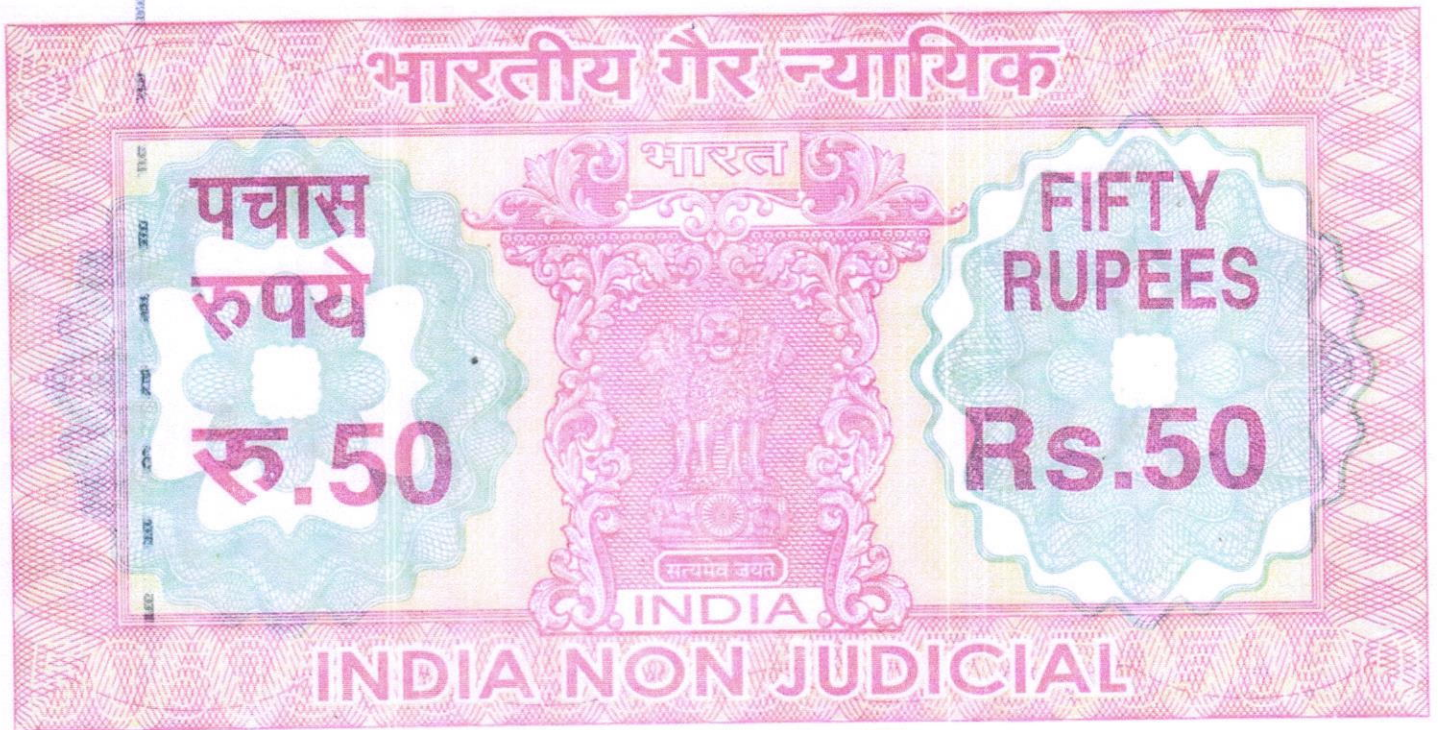
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Amala Institute of  
medical sciences  
Thrissur

No. 3 Dist. Court Vendo  
Leena Thekkekkara TCB





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### 1. Purpose

The purpose of this MoU is to establish a framework for collaboration between Amala Institute of Medical Sciences (AIMS) and Section of Interventional and Onco-Pulmonology, Division of Pulmonary Critical Care, University of Maryland School of Medicine in the areas of **clinical education and research, mentorship, training and workshops, and faculty and student exchanges**, with the goal of promoting mutual academic and scientific advancements.

### 2. Areas of Collaboration

Both institutions agree to collaborate in the following areas:

- Clinical Education and Research** – Joint clinical research projects, collaborative studies, and exchange of research findings.
- Mentorship** – Development of mentorship programs for faculty and students to enhance academic and professional growth.
- Trainings and Workshops** – Organization of conferences, seminars, and workshops for knowledge dissemination.
- Faculty and Student Exchanges** – Facilitation of short-term and long-term exchange programs for faculty and students to enhance academic experiences.

### 3. Implementation

The institutions agree to designate representatives to develop detailed plans for specific collaborative activities, including timelines, resource allocation, and responsibilities.

No. 19177 Value 50/-

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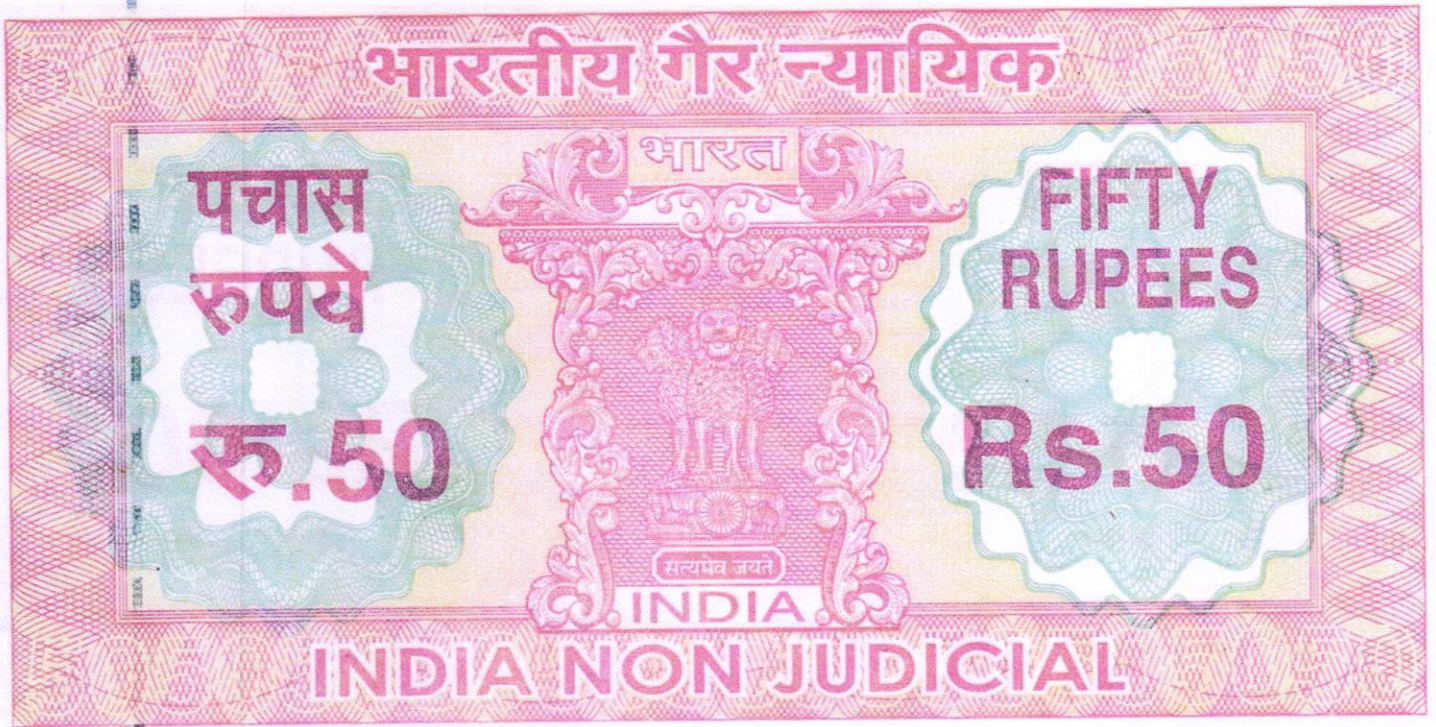
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*[Signature]*  
Amala Institute of  
Medical Sciences  
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#### 4. Duration and Termination

This MoU shall remain in effect for a period of **five (5) years** from the date of signing and may be renewed upon mutual agreement. Either party may terminate this MoU with a 90 days written notice.

#### 5. General Provisions

- This MoU is non-binding and does not create any financial or legal obligations for either institution.
- Any specific projects under this MoU shall be executed through separate agreements as necessary.
- Both institutions commit to ensuring compliance with relevant legal and ethical standards in all collaborative activities.

#### 6. Signatures

In witness whereof, the authorized representatives of Amala Institute of Medical Sciences (AIMS) and Section of Interventional and Onco-Pulmonology, Division of Pulmonary Critical Care, University of Maryland School of Medicine have signed this Memorandum of Understanding on this day, 5<sup>th</sup> January 2025

For Amala Institute of Medical Sciences, Kerala, India

Name : Fr. Julious Arakkal CMI

Designation : Director

Signature & Date :

*Fr. Julious Arakkal CMI*

*Fr. Julious Arakkal CMI*

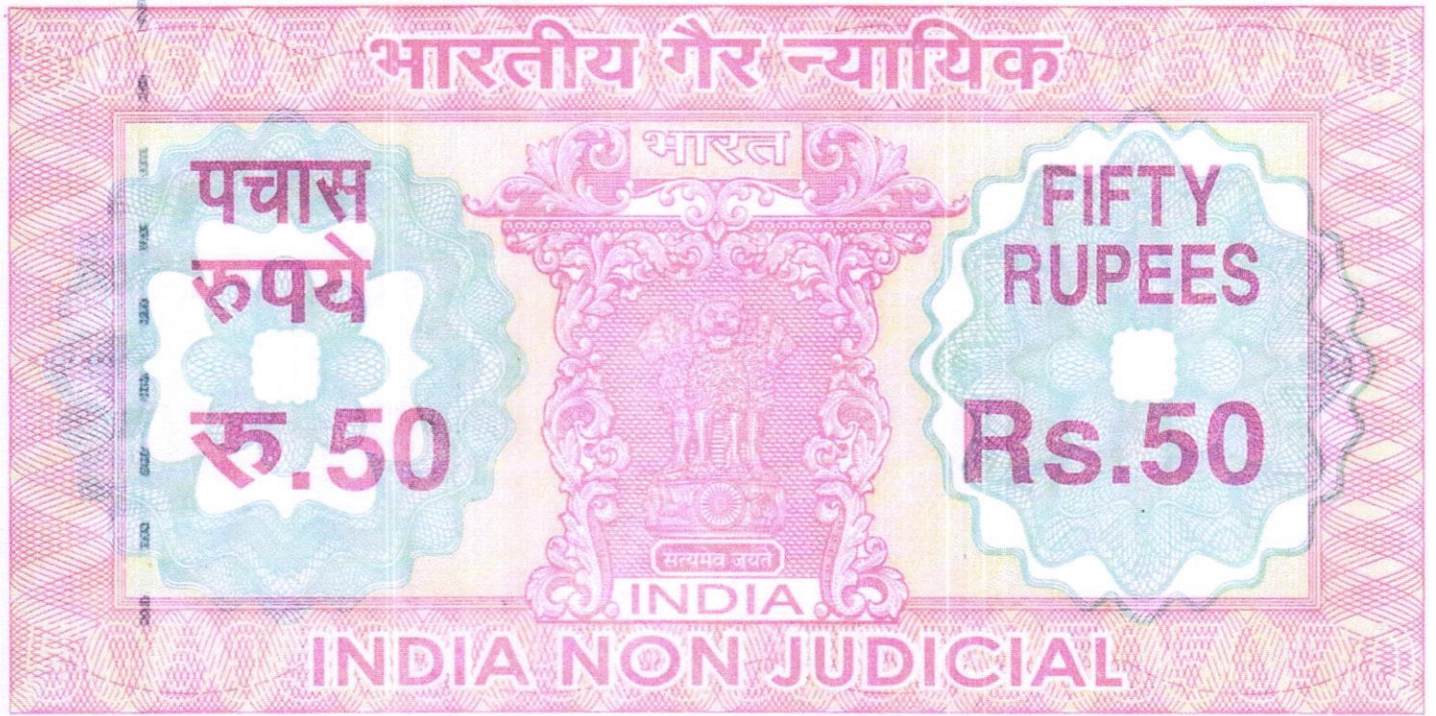
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*Fr. Julious Arakkal CMI*  
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Amala Institute of  
medical sciences  
Thressur

No. 3 Dist. Court Vendo.  
Leena Thekkekkara TCR





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For Section of Interventional and Onco-Pulmonology, Division of Pulmonary Critical Care, University of Maryland School of Medicine, USA

Name : Dr. Ashutosh Sachdeva,

Designation : Chief and Associate Professor

Signature & Date : *Ashutosh Sachdeva*  
May 5, 2025

Witnesses:

1). Name : Dr. Rennis Davis Kizhakkepeedika

Designation : Vice Dean and Professor & HOD, Pulmonary Medicine  
Amala Institute of Medical Sciences, Thrissur

Signature : *Rennis Davis*

2). Name : Dr. Joby Thomas K

Designation : Chief Administrative Officer  
Amala Institute of Medical Sciences, Thrissur

Signature : *Joby Thomas*

No. 19179

Value

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*Amala Institute of  
medical sciences  
Thrissur*

No. 3 Dist. Court Vender  
Leena Thekkkara TCR





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**MEMORANDUM OF UNDERSTANDING FOR RESEARCH AND ACADEMIC COLLABORATION**

This MEMORANDUM OF UNDERSTANDING (hereinafter referred to as 'MoU') for Research collaboration is executed on this 15<sup>th</sup> day of June 2025 ("Effective Date")

**BY AND BETWEEN**

**Council of Scientific and Industrial Research**, a registered society having its registered office at Anusandhan Bhawan, 2, Rafi Marg, New Delhi 110001, acting through its constituent laboratory **National Institute for Interdisciplinary Science & Technology** at Industrial Estate, P.O., Pappanamcode, Thiruvananthapuram – 695019 (hereinafter referred to as 'CSIR-NIIST') of the **FIRST PART**.

*D. P.*  
38053  
CSIR  
Govt of India  
Value 100/-

*Fr. Julious Arakkal CMI*

Fr. Julious Arakkal CMI  
Director



*12-11-24*  
No. 3 Dist. Court Vendo  
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*Amala Cancer Hospital Society*  
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AND

**Amala Institute of Medical Sciences** (an Undertaking of **Amala Cancer Hospital Society**), is a National Medical Commission approved private medical college having its principal office at Amala Nagar, Thrissur, Kerala, which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its affiliates, successors-in-title and permitted assigns (hereinafter referred to as 'AIMS') of the **SECOND PART**.

**NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (NIIST)** and **AMALA INSTITUTE OF MEDICAL SCIENCES (AIMS)** and hereinafter collectively referred to as 'the Parties' and individually as 'the Party'.

*D. J. P.*  
No. 38056  
*Vald 100*  
*Amala*



*Fr. Julious Arakkal*

Fr. Julious Arakkal CMI  
Director



12-11-24  
No. 3 Dist. Court Vendo  
Leena Thekkekkara TCF

*Amala Cancer Hospital Society*  
*Amalaneagar*



**WHEREAS:**

- A. Amala Institute of Medical Sciences** (an undertaking of Amala Cancer Hospital Society) is a private medical college recognized by National Medical Commission of India and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under Devamatha Province, represented by its director. Rev. Fr. Julious Arakkal, CMI. AIMS is granted permission to start as medical college in year 2003. The institute is offering undergraduate programme and post graduate programme in broad specialties and super specialties. The institute has started an integrated medical research department to foster the interdisciplinary research activities.
- B. CSIR-NIIST** is a National Institute with excellent laboratory facilities with strong interdisciplinary research expertise in chemical science, material science, biotechnology, and process engineering, having different core expertise on synthesizing bioactive small molecules, synthetic and nanocarrier for drug delivery, dyes and pigments, polymer, supramolecular assemblies, nanomaterials, self-assemblies, bio-fuels etc. **CSIR-NIIST** initially established in 1975 hereby represented by its Director, Dr. C. Anandharama krishnan. The institute has been playing a significant role in Human Resource Development by training post graduate/graduate students, with over 252 Ph.D degrees awarded till date, based on research conducted in the institute. NIIST is offering various skill development and up-skilling courses for undergraduates, postgraduates and to the unemployed youth. The institute is enriched with world-class facilities and is empowered with a young dynamic faculty and staff.
- C. The Parties** are now entering into this MoU to establish a mutual framework governing the respective organizational relationships, responsibilities, and activities between the parties while carrying out the research collaboration enumerated under 1.1 and 1.3. This MoU is primarily for the utilization of the expertise of **AIMS** and **CSIR-NIIST** for research leading to the joint development of academics, different projects for diagnosis, prognosis, biomarkers, drug delivery, materials synthesis, etc., in the field of chemistry, biology, agriculture, biotechnology and nanotechnology and hence, it has a societal application. The areas of responsibility and relationships presented herein provide the concept under which the programme will be executed.

D. by P.



*Fr. Julious Arakkal*

Fr. Julious Arakkal CMI  
Director



**NOW, THEREFORE, THIS MOU WITNESSETH AS FOLLOWS:**

**1. SCOPE AND OBLIGATIONS:**

**1.1 Research Collaboration**

- a) The research and academic collaboration will focus on the feasibility of **AIMS and CSIR-NIIST** to jointly undertake advisory, research & development programs with the objectives set out by a joint collaborative research project.
- b) The Parties envisage collaborative research work in the areas of cancer biology, nanotechnology, sensors, biomaterials, biomarkers, drug delivery, therapy agriculture, material synthesis, and environmental biotechnology within the scope of this MOU.
- c) The faculties and researchers of both institutes can use the necessary instrument/infrastructure facilities of the two institutions by the approval from the respective authorities/in charge of the concerned institutions.
- d) Joint projects and programs in research and development, including the data exchange of publications, patents and reports.
- e) Jointly submit research proposals of multi-disciplinary nature for funding and other necessary approval from the national organizations (under Govt of India), i.e Department of Science and Technology (DST), Department of Biotechnology (DBT), Indian Council of Medical Research (ICMR), Ministry of Electronics and Information Technology (MeitY), Ministry of Earth Science (MoE), University Grants Commission (UGC) etc.
- f) To jointly organize short-term continuing education programmes, to organize seminars, conferences, or workshops on topics of mutual interest, and invite faculty members and students from both the institutions to participate therein.

**1.2 Academic Collaboration:**

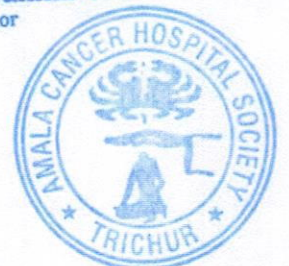
- a) Students exchange program: The Parties may exchange students at the undergraduate, postgraduate, and doctoral levels. The Parties will mutually discuss and decide the areas of studies and credits to be pursued under the scheme. Both parties agree that the exchange programme for degree training should follow the educational system and regulations of the hosting party.
- b) Internships and Project work: The parties may design and develop basic research or applied project assignments that students will pursue during their stay, both for short-term and long-term durations, at the institution of the hosting party.
- c) Faculty exchange: The Parties may consider a Faculty exchange programme during which their respective faculty members will offer courses at the other institute, for which the course contents will be developed jointly.

D. Jay. P



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Fr. Julious Arakkal CMI  
Director



### 1.3 Research Plan

The research shall be conducted in accordance with the research plan agreed upon and exchanged by the parties as per clause 1.1, concurrent with the execution of this MoU. The Research Plan defines the key discussion points, timelines for key decision points, resource and funding allocation, and other details.

### 1.4 Responsibilities of AIMS

- a) Shall provide laboratory support for the research, including necessary instruments, lab facilities and technical manpower based on the rules and regulations of AIMS.
- b) Shall provide Clinical and preclinical research facilities based on the rules and regulations of AIMS.
- c) Shall provide quality assurance support if requested by CSIR- NIIST for the research collaboration covered under this MoU.
- d) Shall be a co-applicant for research project funding under subclause d of Clause 1.1.

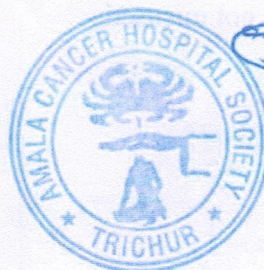
### 1.5 Responsibilities of CSIR-NIIST

- a. Shall provide laboratory support for the research, including necessary instruments and technical manpower based on the rules and regulations of the respective institutes.
- b. Shall do characterization studies of the prepared molecules and nanomaterials using NMR, HR-MS, LCMS, GCMS, Maldi-Toff, X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR), X-ray photoelectron spectroscopy (XPS), Raman spectroscopy and high-resolution transmission electron microscopy (HRTEM), Scanning Electron Microscopy (SEM), Atomic Force Microscopy (AFM) etc.
- c. Synthesis of various molecules and nanomaterials for sensing, imaging, and targeted therapy shall be supported based on mutually formulated projects.
- d. In vitro bio-assays: cell-based assays, bio-chemicals assays
- e. Both Parties will jointly apply for the necessary Regulatory Approvals for the collaborative project covered under the activity and both Parties will render necessary assistance for the same.
- f. Shall be co-applicant of research projects for funding under sub clause d of Clause 1.1.

### 1.6 Joint Responsibilities

- a. Both Parties will jointly apply for the necessary Regulatory Approvals for the collaborative project covered under the activity, and both Parties will render necessary assistance for the same.
- b. Joint Initiation of academic activities between two institutes as mentioned in Clause 1.2.

*D. Jay.P*



*Fr. Julious Arakkal CMI*

Fr. Julious Arakkal CMI  
Director

## 2. FINANCES

- a) Funding for the collaborative research project may be obtained from an external funding agency or AIMS or CSIR-NIIST through the joint application from both Parties.
- b) The manpower and resources are to be met from the project funding in accordance with the approved budgets of both parties. Each party will execute its responsibilities from the resources available from the project with each institute. Manpower and funding resources will be used as per the guidelines of the funding agency.
- c) Funding guidelines will be followed for utilization by both Parties.
- d) Separate auditable accounts will be kept by both Parties and made available for audit to authorities.
- e) Utilization of funds will depend on the project and will be determined separately.
- f) Project funds will be shared between the parties as per the project requirement based on the input from the Principal Investigators from both sides.
- g) During the term of this MoU and for a period of two years thereafter, both parties will keep complete and accurate records of the projects.

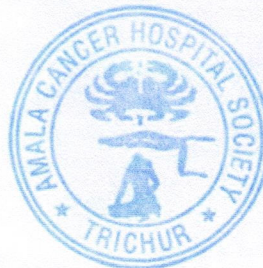
## 3. WARRANTIES

- a) The Parties warrant that the information or material furnished or shared by it shall be accurate and complete and not infringing upon third-party rights.
- b) There shall be no implied warranty under this MoU.
- c) In the event of any breach of warranty, the Party concerned will rectify such breach at no cost to the other Party.

## 4. INTELLECTUAL PROPERTY

- a) All registered or unregistered patents, copyrights, trademarks, trade secrets and other intellectual property of each Party (collectively referred to as "Intellectual Property") shall remain the sole and exclusive property of such Party, and nothing contained in this MoU shall be deemed to assign, license, sell or otherwise transfer such Intellectual Property to the other Party and the other Party shall be entitled to use the Intellectual Property only for the limited purposes of this MoU.
- b) Any intellectual property that is developed during the course of this MoU by way of Cooperative Activities will be jointly registered to vest in favour of both Parties in the country and/or abroad and will be owned jointly. However, the extent of ownership/ usage can be decided mutually to vary. The parties shall comply with the provisions of Section 39 and Section 118 of the Patents Act, 1970.
- c) Any publication and/or paper arising out of the joint work conducted by the institutions pursuant to this MoU will be jointly owned. The use of the name, logo and/or official emblem of the participants on any publication, document and/or paper will require prior permission of both the participants. It may, however, be ensured that the official emblem and logo are not misused.

D. J. P.



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Fr. Julious Arakkal CMI  
Director

d) In the case of technologies developed jointly by CSIR-NIIST and AIMS through the projects funded by CSIR itself, CSIR shall have the exclusive right to license/sublicense the technology worldwide. In the case of technologies developed jointly by CSIR-NIIST and AIMS through the projects funded by AIMS itself, AIMS shall have the exclusive right to license/sublicense the technology worldwide. In the case of technologies developed jointly by AIMS and CSIR-NIIST through funding from any external agency, commercialization/licensing will be done according to the terms and conditions laid down by such funding agency.

e) In the case of technologies jointly developed by AIMS and CSIR-NIIST having no encumbrance to the funding agency, royalty obtained from third parties (licensees) shall be equally shared between AIMS and CSIR-NIIST. If the funding agency too has a claim on royalty share, then the share of each party shall be decided on mutually agreed terms.

f) CSIR-NIIST shall execute agreements with third parties (licensees) for receipt of royalty if the projects are funded by CSIR, according to terms and conditions mutually agreed upon with such licensee (third party).

g) AIMS shall execute agreements with third parties (licensees) for receipt of royalty due if the projects are funded by AIMS, according to terms and conditions mutually agreed upon with such licensee (third party).

h) During the term of this MoU and for a period of licensing thereafter, the Developing Party shall keep complete and accurate records pertaining to the results and other details.

#### 5. CONFIDENTIALITY:

a) The Parties shall retain in confidence and shall not, without the prior written consent of the disclosing Party, disclose or use in any manner any information that they may have been provided with or may have access to or materials disclosed or developed by it for the purpose of fulfilling its obligations under this MoU, whether marked as confidential or not (collectively referred to as “**Confidential Information**”) to any third party, unless such information or materials are required to be disclosed under any Laws of the country except that the party may use the information for its education, research or publication requirements.

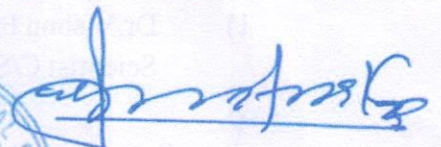
b) For the purpose of this MoU, the expression “Confidential Information” shall not include the following:

- i. Information in the public domain without breach by the recipient;
- ii. Information in the possession of the recipient prior to receipt from the disclosing party; or
- iii. Information acquired by the recipient from a third party not under an obligation of confidentiality or non-use.

c) Either Party shall not use the name of the other for any business or advertisement purpose except with specific written approval of the other Party.

D. Jay. P





Fr. Julious Arakkal CMI  
Director

- d) Upon termination of this MoU or upon receipt of a request thereof by the disclosing Party, the recipient Party shall promptly deliver to the disclosing Party all copies and originals of all documents, records, software, media and other materials containing any Confidential Information forthwith or destroy any such material or Confidential Information, upon receiving a written request from the disclosing Party;
- e) The disclosure of Confidential Information by either Party shall not amount to a license, assignment or transfer of any right, title or interest to the other Party. Each Party shall be the sole and absolute owner of all intellectual property in and with respect to its Confidential Information during the term of this MoU and thereafter;
- f) The recipient Party shall use the same degree of care that it would use to protect its own confidential information, but in no event less than a reasonable amount of care.
- g) Nothing in this MoU shall denote any express or implied relationship between the Parties in the nature of agency, partnership or any other such relationship.
- h) The confidentiality obligations under this Clause shall survive the termination of this MoU.

#### 6. REPORTS AND PUBLICATIONS:

- a) Publications in the form of research articles in scientific journals will be made from time to time as appropriate. Submission of research papers to journals will be made at any time after having all the complete results/ data of each individual study as determined and agreed upon.
- b) Research articles come out of the collaborative work will bear, the names of the respective Scientist (research person) or clinician who is leading the study from both AIMS and CSIR-NIIST as the corresponding author (authors) with co-authorships to other researchers involved. The parties hereby agree to share all the information, experimental results, and all the necessary and relevant data on a timely and prompt basis as agreed upon.

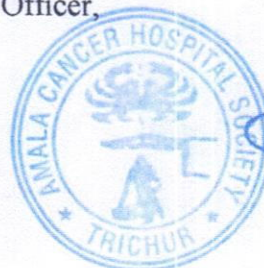
#### 7. CONTACTS OF THE PARTIES FOR NOTICE / COMMUNICATION:

- a) Any notice under this MoU shall be in writing which includes email, except as set out in this clause. Any notice alleging breach or termination must be delivered by registered post to or left (and signed for) at the respective addresses mentioned in the MoU (or such other address as may be notified in writing) addressed to authorized persons of the relevant Party named below.
- b) The Contacts of the Parties for any communication shall be as follows:

##### **Amala Institute of Medical Sciences**

- 1) Dr. Vishnu Priya Murali,  
Scientist C/Senior Scientific Research Officer,

*D. Jay. P.*



*Fr. Julious Arakkal CMI*  
Director

Amala Integrated Medical Research Department,  
Amala Institute of Medical Sciences, Thrissur-680 555, Kerala  
Email: [vishnupriyaem@gmail.com](mailto:vishnupriyaem@gmail.com) Phone: 9895143535

- 2) Director  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur-680 555, Kerala

#### CSIR-NIIST

- 1) Dr.Kaustabh Kumar Maiti  
Sr. Principal Scientist& Head  
Microbial Processing and Technology Division (MPTD)  
CSIR-NIIST,Industrial Estate PO, Pappanamcode  
Thiruvananthapuram-695019, Kerala  
Email: [kkmaiti29@gmail.com](mailto:kkmaiti29@gmail.com) Phone: 8547761544
- 2) Director,  
CSIR-NIIST  
Industrial Estate PO, Pappanamcode,  
Thiruvananthapuram-695019, Kerala

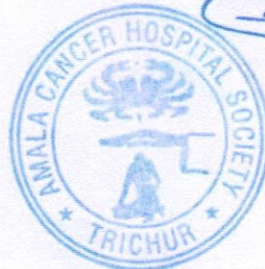
#### 8. TERM

- a) This MoU shall come into force on the Effective Date which is 15<sup>th</sup> of June 2025 and the term of this MoU shall be for a period of 3 years (“**Term**”) from the Effective Date as mutually agreed to by the Parties, unless terminated earlier in accordance with this MoU or in case of any unforeseen exigencies or delays.
- b) The Parties may mutually choose to extend the Term for such further periods as they may deem fit. However, if no such period is arrived at the end of the Term, this MoU shall be deemed to have expired.

#### 9. TERMINATION

- a) Either Party may terminate this MoU at any time, with or without assigning any reason thereto, by giving prior written notice of 60 (sixty) days to the other Party.
- b) The Parties shall be entitled to immediately terminate this MoU upon a breach of any of the terms of this MoU by the other Party and upon failure of the Party in breach to rectify the breach within fifteen (15) days from the date of receipt of written notice of such breach from the other Party.

*D. Jay.P*



*Fr. Julious Arakkal CMI*

Fr. Julious Arakkal CMI  
Director

- c) The Parties may also, by mutual agreement, terminate this MoU.
- d) Upon termination or expiration of this MoU:
- i) The Parties shall forthwith return all material, information and copies thereof belonging to the other Party.
  - ii) Neither Party shall use the other Party's Confidential Information and/or the material collected/developed for the purpose of this MoU or any part thereof, directly or indirectly, for any reason whatsoever;
- e) Termination of this MoU shall not affect the rights and obligations of the Parties accrued during the Term or the validity of the clauses on Confidentiality (Clause 5), Intellectual Property (Clause 4), Indemnity and Limitation of Liability (Clause 10), Governing Law and Dispute Resolution (Clause 11).
- f) Notwithstanding the above mentioned, the provisions of this MOU or any other written agreement in respect of any on-going exchange programme or any other form of cooperative activity under this MOU shall continue to apply until their completion unless both Parties mutually agree in writing to the earlier termination of the programme or cooperative activity.

#### 10. INDEMNITY AND LIMITATION OF LIABILITY

- a) Both parties shall indemnify, defend and hold harmless the Institute from and against any and all claims, damages, and losses incurred due to any breach, negligence or willful misconduct.
- b) Neither Party shall, in any event, be liable for any indirect, consequential or incidental damages arising out of or in relation to this MoU.
- c) Both Parties shall be solely responsible for compliance with all central, state and local laws, including, but not limited to, compliance with regulatory agency regulations, intellectual property infringement, data security and other individual third-party contracts.

#### 11. GOVERNING LAW AND DISPUTE RESOLUTION:

- a) This MoU shall be interpreted in accordance with and governed by the laws of India. All disputes arising out of or relating to the MoU shall be deemed to have arisen in Thrissur City, India, and only courts having jurisdiction over Thrissur City, India, shall determine the same.
- b) Any dispute that may arise with regard to the interpretation of and/or compliance with the role/ responsibility of the Parties with reference to this MoU shall be mutually discussed and resolved amicably.

*D. Jay. P.*



*Fr. Julious Arakkal CMI*

Fr. Julious Arakkal CMI  
Director

- c) The first appellate authority in this regard shall be the Director of AIMS and the Director of CSIR-NIIST. However, in the unlikely event that the dispute still persists, then any Party shall be entitled to refer such controversy, dispute, or difference to be resolved by arbitration in accordance with the Arbitration and Conciliation Act, 1996 or any statutory modifications on re-enactment thereof as in force. The language to be used in the mutual discussions and in the arbitration shall be English.
- d) In any arbitration commenced pursuant to this clause, the sole arbitrator shall be appointed by the mutual consent of the parties as per the provisions of the Arbitration and Conciliation Act, 1996.
- e) The seat, or legal place, of arbitration shall be Thrissur, India. The cost of the Arbitration proceedings shall be shared equally by both parties.

## 12. REVIEW AND AMMENDMENT:

- a) This MoU will be reviewed jointly by the Parties annually to ensure adequate identification of support requirements. Additional reviews may take place when changing conditions or circumstances require substantial changes or the development of a new MoU. Minor changes may be made at any time after mutually agreed by the Parties by correcting the existing document for attaching a memorandum to a basic document.
- b) Modifications: Any changes, amendments, or interpretations of this MoU shall be valid only if they are in writing and signed by both parties, except that each Party may make a change of domicile or change of the name of the person to whom notice shall be sent with prior intimation to the other party.

## 13. GENERAL TERMS:

- a. Entire Agreement: This MoU constitutes the entire understanding and agreement between the Parties with respect to the subject matter hereof and supersedes any and all prior oral or written agreements, promises, representations, arrangements, understandings, and all other communications relating thereto. Where any purchase order/work order ('PO') is issued in connection with the Services, it is hereby mutually agreed between the Parties that no pre-printed terms contained or referred to in the PO will be applicable, and the Services shall be solely governed by the terms and conditions under this MoU.
- b. Severability: If any provision of this MoU is held invalid, unenforceable or illegal in whole or in part for any reason, the invalidity, unenforceability or illegality shall not affect the validity, enforceability or legality of the remaining provisions hereof, and the MoU will be construed as if such invalid, unenforceable or illegal provision was not part of the MoU.
- c. Agency: The Parties are independent, and this MoU will not establish any relationship of partnership, joint venture, employment, franchise or agency between the parties.



Fr. Julious Arakkal CMI  
Director

d. Force Majeure: The Parties shall not be liable for any failure to perform any of its obligations under this MoU if the performance is prevented, hindered or delayed by a *Force Majeure* event (defined below), and in such case, its obligations shall be suspended for so long as the *Force Majeure* event continues. Each party shall promptly inform the other of the existence of a *Force Majeure* event and shall consult together to find a mutually acceptable solution.

"*Force Majeure* event" means an event which is beyond the reasonable control of the Parties concerned, including, without limitation, unavailability of any communication system, sabotage, fire, flood, explosion, acts of God, civil commotion, strikes or industrial action of any kind, riots, insurrection, war or acts of government.

In witness whereof the parties have signed this Memorandum of Understanding on 15<sup>th</sup> June 2025 in the city of Thiruvananthapuram, in the state of Kerala.

**Director**  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur  
Kerala – 680 555



**WITNESSES**

**Dr. Vishnu Priya Murali**  
Scientist C/SSRO  
AIMRD  
Amala Institute of Medical Sciences  
Thrissur – 680 555  
Kerala, India

**Head, Business Development Division**  
CSIR-NIIST  
Industrial Estate PO,  
Pappanamcode, Thiruvananthapuram  
Kerala, India - 695547



सी एस आई आर  
CSIR  
भारत का नवाचार इंजन  
The Innovation Engine of India

डॉ. पी. निशा  
**Dr. P. NISHY**

प्रधान, व्यापार विकास प्रभाग  
Head, Business Development Division  
सी एस आई आर-राष्ट्रीय अंतरिष्यो विज्ञान तथा प्रौद्योगिकी संस्थान  
CSIR-National Institute for Interdisciplinary  
Science and Technology (NIIST), Govt. of India  
तिरुवनन्तपुरम / Thiruvananthapuram-695 019.

**Dr. Kaustabh Kumar Maiti**  
Sr. Principal Scientist & Head  
MPTD  
CSIR-NIIST  
Industrial Estate. P.O -695019  
Kerala, India



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24AA 100382

**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (hereinafter referred to as "MoU") is made and entered into on 15<sup>th</sup> June 2025 by and between - **Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society), Amala Nagar, Thrissur, Kerala and Little Flower College (Autonomous), Guruvayur, Thrissur, Kerala.**

**Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society)** is a private medical college recognized by National Medical Commission of India and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under its Devamatha Province, represented by its Director, **Fr. Julious Arakkal CMI**, hereinafter referred as "**First Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **First Party**.

Fr. Julious Arakkal CMI  
Director



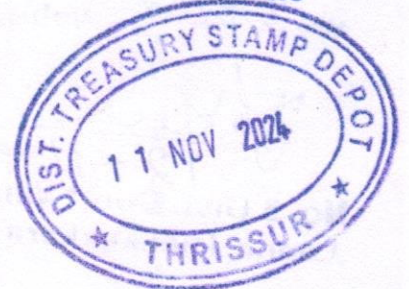
*Bincep*

Dr. J.BINCY  
Principal-in-Charge  
Little Flower College(Autonomous)  
Guruvayur - 680 103

No. 38051 Value 100

No. 3 Dist. Court Vendo:  
Leena Thekkekkara TCB

Amala Cancer hospital  
Society  
Amalagar





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24AA 100383

AND

**Little Flower College (Autonomous), Guruvayur**, is an aided private Arts and Science College recognized by University Grants Commission of India and affiliated to University of Calicut, situated in the district of Thrissur, Kerala. It was established by Franciscan Clarist Congregation under its Assisi Province, represented by its Principal, **Dr. J Bincy** hereinafter referred as "**Second Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **Second Party**.

Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society) and Little Flower College (Autonomous), Guruvayur shall hereinafter be collectively referred to as the "**Parties**".

*Fr. Julious Arakkal CMI*  
Fr. Julious Arakkal CMI  
Director

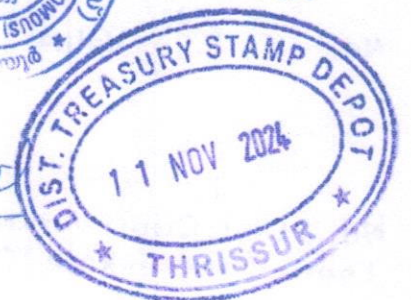


*Dr. J. Bincy*  
Dr. J. BINCY  
Principal-in-Charge  
Little Flower College (Autonomous)  
Guruvayur - 680 103

No. 38052 Value 100/-

*12-11-24*  
No. 3 Dist. Court Vendo  
Leena Thekkekkara TCS

*Amala Cancer Hospital Society*  
*Amaladevi*



## 1. Purpose

The purpose of this Memorandum of Understanding is seeking to improve understanding between the respective academic institutions and to establish mutually beneficial collaborations benefiting their students and faculty.

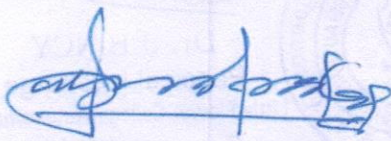
## 2. Terms & Conditions

On mutual discussion, this MoU envisage to encourage the development of the following academic and research collaborations based on their respective academic and educational needs:

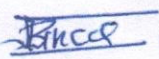
- Exchange of faculty
- Exchange of students and research scholars
- Organization of joint research programs
- Organization of joint conferences
- Organization of other academic exchanges agreeable to both institutions.
- Sharing library resources

The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual faculty members and upon the availability of financial resources. Accordingly, the implementation of any activities as detailed in above shall be separately negotiated by both institutions and set forth in a separate written document.

This MoU is not intended to be a legally binding document. It is meant to describe nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.

  
Fr. Julious Arakkal CMI  
Director



  
Dr. J. BINCY  
Principal-in-Charge  
Little Flower College (Autonomous)  
Guruvayur - 680 103

For Amala Institute of Medical Sciences, Dr. Joby Thomas K, Chief Administrative Officer and for Little Flower College (autonomous), Sr. Lovely Jacob A, Assistant Professor and Vice Principal shall serve as liaison officers for this MoU.

### 3. Duration

This MoU is effective from the date of signing and executed by the duly authorized representatives of the parties to this MoU and shall remain in full force and effect for 3 years.

### 4. Financial Arrangements

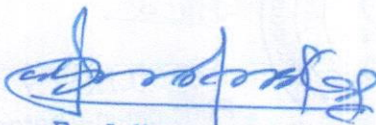
The Parties acknowledge that in the absence of any specific agreement in writing to the contrary, each Party shall be responsible for its own costs and expenses in establishing and conducting programmes and activities contemplated under this MoU, including without limitation, travel and accommodation expenses.

### 5. Intellectual Property

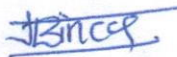
- a) The Parties agree that any intellectual property rights arising from or in connection with any programme or activity under this MoU, through and by the joint and collaborative efforts of both Parties shall be jointly owned and subject to any other terms and conditions as may be agreed upon in writing.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

### 6. Confidentiality

The Parties agree and undertake to keep confidential at all times any information or data that may be exchanged, acquired or shared in connection with any programme or activity

  
Fr. Julious Arakkal CMI  
Director



  
Dr. J. BINCY  
Principal-in-Charge  
Little Flower College(Autonomous)  
Guruvayur - 680 103

conducted pursuant to this MoU save where the same is already in public domain. The confidentiality obligations under this Clause shall survive the termination of this MoU.

### 7. **Dispute Resolution**

In the event of any dispute between the parties in respect of any rights or liabilities arising out of this MoU, the same shall be referred to a sole Arbitrator appointed by mutual consent and the proceedings shall be conducted in accordance with the provisions contained in the Arbitration and Conciliation Act, 1996.

### 8. **Governing Law**

This MoU shall be governed by and construed according to the prevailing laws of Kerala. Both Parties agree to submit to the exclusive jurisdiction of the courts in Thrissur.

### 9. **Termination & Amendment**

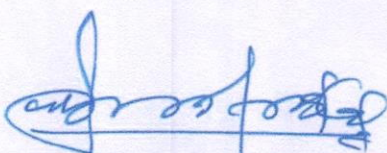
This MoU may be terminated, without cause, by either party upon one month written notice, which shall be delivered by hand, electronically, or by certified mail to the address listed above.

All modifications, clarifications and amendments to this MoU shall be in writing and signed by both parties.

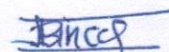
### 10. **Miscellaneous**

All terms and conditions of this MoU are subject to the approval of the various bodies of both parties as per the rules and regulations of Amala Institute of Medical Sciences and Little Flower College (autonomous).

It is agreed that the terms and conditions of any agreed programme and activity contemplated in this MoU shall be the subject matter of separate written agreements to be



Fr. Julious Arakkal CMI  
Director



Dr. J. BINCY  
Principal-in-Charge  
Little Flower College (Autonomous)  
Guruvayur - 680 103

negotiated and agreed upon by both Parties and/or any third parties, wherever applicable. Provided always the decision whether to initiate and/or implement any programme or activity shall be at the sole discretion of each Party.

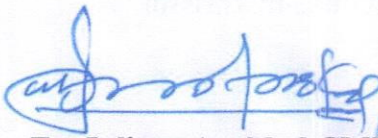
In witness whereof the parties have signed this Memorandum of Understanding on 15<sup>th</sup> June 2025, first herein above written.

For

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur-680555, Kerala

For

Little Flower College (Autonomous)  
Guruvayur, Thrissur-680103, Kerala

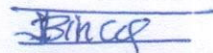
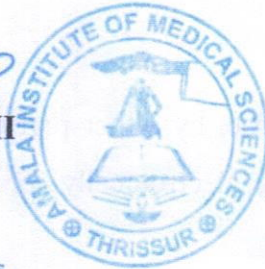


Fr. Julious Arakkal CMI

Director

Director

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



Dr. J Bincy

Principal

Dr. J. BINCY


Principal-in-Charge

Little Flower College (Autonomous)  
Guruvayur - 680 103




Witnesses:


1.

Dr. Joby Thomas R.   
Chief Administrative Officer  
AIMS, Thrissur

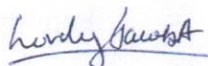
2.

A. V. Pilyo Varghese   
Am- HR & Legal.  
AIMS

1.

Dr. Julie Dominic A.   
Dean of International Affairs  
Little Flower College, Gur.

2.

Lovely Jacob A   
Asst-Professor in Chemistry  
Vice Principal  
Little Flower College (Autonomous)  
Guruvayur



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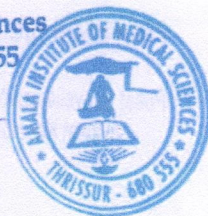
**A Memorandum of Understanding for Academic and Research Cooperation in the Field of Nanomaterials Mediated Regulation of Bacterial Pathogenesis**

This Memorandum of Understanding (hereinafter referred to as "MOU") is made and entered into on this 15th day of June 2025 By and Between:

**University of Malaya**, a university established under the laws of Malaysia and having registered address at Lembah Pantai, 50603 Kuala Lumpur, Malaysia is represented by its Executive Director of Nanotechnology and Catalysis Research Center (NANOCAT), Prof. Dr. Mohd Rafie Johan (hereinafter referred to as "UM"),

*[Handwritten Signature]*  
 Director

Amala Institute of Medical Sciences  
 Amala Nagar, Thrissur - 680555



*[Handwritten Signature]*

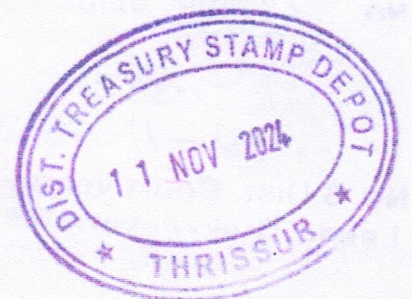
**PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC**  
 Pengarah Eksekutif  
 Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
 Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
 Universiti Malaya



39055 Value 100/-

*[Handwritten Signature]*  
 12-11-24  
 No. 3 Dist. Court Vendo  
 Leena Therkekkara TCS

*Amala Cancer hospital  
 Amala nager*





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AND

**Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society)** established under the laws of India and having an address at Amala Nagar, Thrissur, Kerala, India 680555 is represented by its Director, Fr. Julious Arakkal CMI, (hereinafter referred to as "AIMS") Both of whom are collectively known as the "Parties".

NOW THEREFORE PURSUANT THERETO, the Parties hereby agree as follows:

**1. PURPOSE**

The purpose of this Memorandum of Understanding is seeking to improve understanding between the respective academic institutions and to establish mutually beneficial collaborations benefiting their students and faculty.

Director

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555

No. 38056 Value 100/-

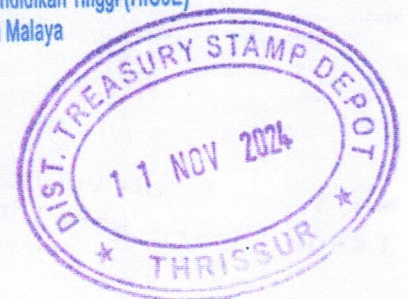
12-11-24

No. 3 Dist. Court Vendo  
Leena Thekkekkara TCB



Amala Cancer Hospital  
Society  
Amala Nagar

PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC  
Pengarah Eksekutif  
Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
Universiti Malaya



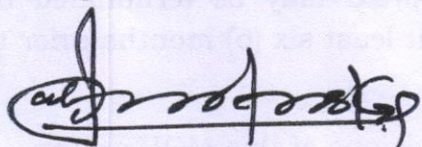
## 2. SCOPE AND FIELDS OF ACADEMIC COOPERATIONS

1. The Parties hereby agree to implement within the framework of the rules and regulations applicable in each of the institutions and subject to availability of funds and resources, the following programmes and activities (**Nanomaterials Mediated Regulation of Bacterial Pathogenesis**), which may include, but not limited to:

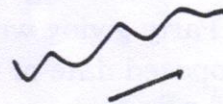
- a. Student and/or academic and administrative staff exchanges.
- b. Joint research activities.
- c. Exchange of publications and reports generated by the joint and collaborative efforts of both Parties and
- d. Sharing of other activities and programmes in areas of mutual interest, where sharing shall result in benefit to both Parties.

2. It is agreed that the terms and conditions of any agreed programme and activity contemplated in this MOU shall be the subject matter of separate written agreements to be negotiated and agreed upon by both Parties and/or any third parties, wherever applicable. Provided always the decision whether to initiate and/or implement any programme or activity shall be at the sole discretion of each Party.

3. The Parties agree to designate, a coordinator on behalf of each institution, whose responsibility will be to supervise the execution of this MOU and to draw up programmes or activities to be implemented under this MOU, setting out specific provisions concerning the exchange programmes, budget requirements and details of funding. For this purpose, the coordinator for UM is Prof. Ir. Ts. Dr. Lai Chin Wei , Nanotechnology and Catalyst Research Centre, and the coordinator for AIMS is Dr. Kayeen Vadakkan, Scientist -C, Senior Scientific Research Officer, Amala Integrated Medical Research Department, AIMS.



Director  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC  
Pengaruh Eksekutif  
Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
Universiti Malaya



### **3. FINANCIAL ARRANGEMENTS**

The Parties acknowledge that in the absence of any specific agreement in writing to the contrary, each Party will be responsible for its own costs and expenses in establishing and conducting programmes and activities contemplated under this MOU, including without limitation, travel and accommodation expenses.

### **4. JOINT PROPERTY**

1. The Parties agree that any intellectual property rights arising from or in connection with any programme or activity under this MOU, 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 in writing.

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 MOU, unless otherwise mutually agreed upon in writing by the Parties.

### **5. CONFIDENTIALITY**

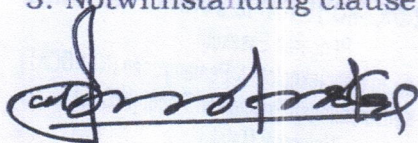
The Parties agree and undertake to keep confidential at all times any information or data that may be exchanged, acquired or shared in connection with any programme or activity conducted pursuant to this MOU, except where the same is already in public domain.

### **6. DURATION AND TERMINATION**

1. This MOU shall take effect on and from the date of execution of this MOU and shall continue to be effective for a period of 3 (three) years and may be extended for such further period as may be agreed by the Parties in writing.

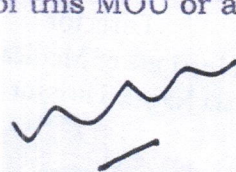
2. Notwithstanding clause 6 (1) above, this MOU may be terminated by either Party giving written notice to the other at least six (6) months prior to the proposed date of termination.

3. Notwithstanding clause 6 (2) above, the provisions of this MOU or any



Director

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC  
Pengarah Eksekutif  
Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
Universiti Malaya



other written agreement in respect of any on-going exchange programme or any other form of cooperative activity under this MOU shall continue to apply until their completion unless both Parties mutually agree in writing to the earlier termination of the programme or cooperative activity.

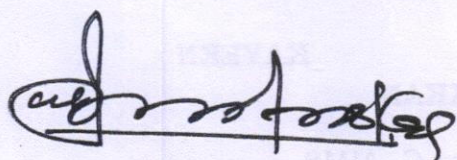
## **7. NOTICE**

Every notice, request or any other communication required or permitted to be given pursuant to this MOU shall be in writing (in English) and delivered personally or sent by registered or certified post via air mail or by courier or facsimile (which shall be acknowledged by the other Party) to the Parties at the address and facsimile number as stated below:

- a. If to UM : Nanotechnology and Catalysis Research Center (NANOCAT),  
3<sup>rd</sup> Floor, Block A,  
Institute for Advanced Studies Building,  
University Malaya, 50603 Kuala Lumpur, Malaysia  
Attention: Prof. Ir. Ts. Dr. Lai Chin Wei  
Email: cwlai@um.edu.my
- b. If to AIMS: Amala Integrated Medical Research Department  
Amala Institute of Medical Sciences Amala Nagar, Thrissur  
Kerala, India  
Attention: Dr. Kayeen Vadakkan  
E-mail: kayeenvadakkan@amalaims.org

## **8. MISCELLANEOUS**

1. This MOU may be modified, varied or amended at any time after due to consultation and with the written agreement of both Parties.
2. The Parties acknowledge that all visits or exchange of staff, students or administrators will be subject to compliance with the entry and visa regulations of Malaysia and India and with the respective Party's requirements with respect to staff and student visits.
3. Subject to clause 4, 5 and 6, this MOU is not intended to be legally binding. It merely expresses the intentions and understanding of the



**Director**  
**Amala Institute of Medical Sciences**  
**Amala Nagar, Thrissur - 680555**



**PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC**  
Pegarah Eksekutif  
Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
Universiti Malaya

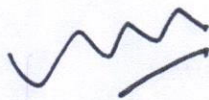
Parties which will form the basis of any legally binding agreement to be drafted and executed in the future.

4. The Parties hereby agree that they are not bound exclusively by this MOU and shall be at liberty to enter into any separate agreements or arrangements with any third party without reference to the other Party.

**IN WITNESS WHEREOF** the Parties have hereto caused this Agreement to be signed by their respective authorised representatives on the 15th day of June 2025.

SIGNED for and on behalf of

**UNIVERSITI MALAYA**

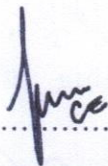


**PROF. DR. MOHD RAFIE BIN JOHAN**

Executive Director, NANOCAT

**PROFESOR DR. MOHD RAFIE JOHAN FASC, FRSC**  
Pegarah Eksekutif  
Pusat Penyelidikan Nanoteknologi & Pemangkinan (NANOCAT)  
Pusat Kecemerlangan Pendidikan Tinggi (HiCoE)  
Universiti Malaya

In the presence of:

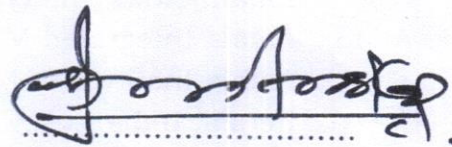


**PROF. IR. TS. DR. LAI CHIN WEI**

Unit Head of NANOCAT

SIGNED for and on behalf of

**AMALA INSTITUTE OF MEDICAL SCIENCES**

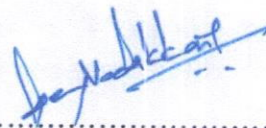


**FR. JULIOUS ARAKKAL CMI**

Director, AIMS  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



In the presence of:



**DR. KAYEEN VADAKKAN**

Scientist C, AIMS

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NON JUDICIAL

₹ 200

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GOVERNMENT OF KERALA  
e-Stamp

e-Stamp Serial Number : 202526000003021219

Verification Code : 583526913V

Govt. Reference No.(GRN) : KL021040448202526E  
 Purpose : Agreement or memorandum of an agreement - if not otherwise provided for  
 Amount of Stamp Paper Purchased in Numeral : ₹ 200  
 Amount of Stamp Paper Purchased in Words : Rupees Two Hundred  
 Stamp Paper Purchased on : 08/08/2025 09:41:27  
 First Party Name : Director  
 First Party Address : Amala Institute of Medical Sciences Thrissur  
 Second Party Name : Executive Director  
 Second Party Address : Christ College of Engineering, Irinjalakuda, Thrissur.  
 Vendor Code & Name : 13012282 - LEENA THEKKEKKARA  
 Treasury Code & Name : 1301 - District Treasury, Thrissur

Please write or type below this line

### MEMORANDUM OF UNDERSTANDING

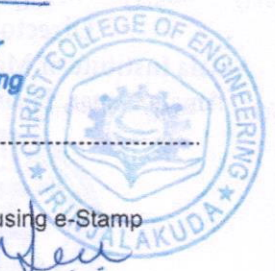
This MoU is made and entered into on 14th August 2025 by and between - **Amala Institute of Medical Sciences, Amala Nagar, Thrissur, Kerala and Christ College of Engineering, Irinjalakuda, Thrissur, Kerala.**

Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society) is a private medical college recognized by National Medical Commission of India and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under it's Devamatha Province, Thrissur represented by its Director, **Fr. Julious Arakkal CMI**, hereinafter called as "**First Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **First Party**.

Director

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur

Executive Director  
Christ College of Engineering  
Irinjalakuda - 680 125



This can be verified by  
[https://www.estamp.treasury.kerala.gov.in/index.php/estamp\\_search](https://www.estamp.treasury.kerala.gov.in/index.php/estamp_search) using e-Stamp  
Serial Number and Verification Code.

In case of any discrepancy, please inform the competent authority.

No. 3 Dist. Court Vendor  
Leena Thekkekkara TCR

And

Christ College of Engineering, Irinjalakuda, Thrissur, is a self-financing Engineering College approved by AICTE and affiliated to APJ Abdul Kalam Technological University, Kerala, situated in the district of Thrissur, Kerala. It was established by CMI Congregation under its Devamatha Province, Thrissur, represented by its Executive Director, **Fr John Paliakara CMI**, hereinafter called as "**Second Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **Second Party**.

## 1. Purpose

The Purpose of this Memorandum of Understanding is to:

- Improve understanding between the academic institutions and to establish mutually beneficial academic and research collaborations benefitting the students and faculty.
- Share laboratory and research infrastructure.
- Facilitate student and faculty exchange programs.
- Undertake joint and interdisciplinary research programs.
- Foster innovation, professional development, and knowledge exchange.
- Individual department-wise MOUs with specific areas of collaboration and objectives and terms will be developed and executed between Christ College of Engineering and the corresponding departments of Amala Institute of Medical Sciences by the respective Department Heads.

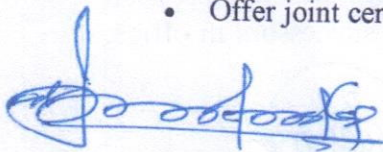
## 2. Areas of Collaboration

On mutual discussion, this MoU envisage to encourage the development of the following academic and research collaborations based on their respective academic and educational needs:

### A. Student Exchange Program

Both institutions agree to:

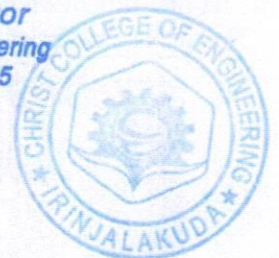
- Facilitate short-term or long-term exchange of undergraduate and postgraduate students.
- Support students in internships, project work, clinical exposure, research assistance, or interdisciplinary learning.
- Provide academic mentoring and technical support during the exchange.
- Permit access to campus, libraries, laboratories, and testing facilities.
- Offer joint certification for select academic or training programs.



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## B. Faculty and Staff Exchange Program

Both institutions agree to:

- Facilitate visits of faculty and technical staff for teaching, training, research, and mentoring.
- Encourage joint supervision of student projects and interdisciplinary collaboration.
- Organize seminars, workshops, conferences, guest lectures, expert sessions, and faculty development programs.
- Explore co-teaching opportunities and collaborative curriculum development.
- Invite each other's experts to participate in institutional academic activities.

## C. Shared Use of Laboratory Facilities

Both institutions agree to:

- Permit mutually agreed access to laboratory and research infrastructure.
- Enable the use of specialized equipment for academic or research purposes.
- Coordinate scheduling, safety, and operational protocols.

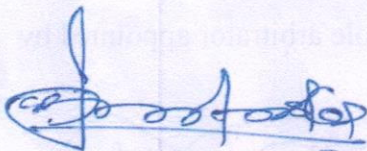
## D. Joint Research and Interdisciplinary Programs

Both institutions agree to:


- Initiate collaborative research in emerging and interdisciplinary domains.
- Apply for joint research funding and publish collaborative outcomes.
- Organize interdisciplinary workshops, conferences, and seminars.
- Outcomes, contributions and institutional recognition for collaborative research contributions and academic outcomes of each department generated under this MoU will be shared between Christ College of Engineering and Amala Institute of Medical Sciences.

## 3. Implementation and Coordination

- A Coordinating Committee comprising representatives from both institutions will be established.
- The committee will plan, monitor, and review all collaborative activities and resolve operational issues.



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- Annual review meetings will assess the progress and propose future initiatives.
- The following departments of Christ College of Engineering will actively participate in this collaboration with Amala Institute of Medical Sciences by designating faculty representatives responsible for initiating and managing department-specific MoUs and collaborative programs, Also, the outcomes and contributions of collaborative research will be shared by Christ College of Engineering and Amala Institute of Medical Sciences will share the outcomes and contributions.
  - Department of Computer Science and Engineering.
  - Department of Computer Science and Engineering (Data Science).
  - Department of Computer Science and Engineering (Business Systems).
  - Department of Civil Engineering.
  - Department of Mechanical Engineering.
  - Department of Electrical and Electronics Engineering.
  - Department of Electronics and Communication Engineering.

#### 4. Financial Arrangements

- Each institution will bear its own internal costs unless specified otherwise in project-specific agreements.
- Joint applications for external funding may be submitted where appropriate.

#### 5. Duration

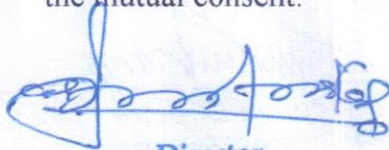
This MoU is effective from the date of signing and executed by the duly authorized representatives of the parties to this MoU and the governing bodies of the party's respective counts and shall remain in full force and effect for 3 years.

#### 6. Amendment and Termination

- The MoU may be amended or renewed by mutual written consent.
- This MoU may be terminated, without cause, by either party upon three month written notice, which shall be delivered by hand, electronically, or by certified mail to the address listed above.
- Ongoing activities shall be allowed to conclude under the terms agreed upon at initiation.

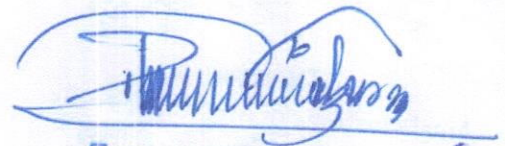
#### 7. Dispute Resolution

Any dispute between the parties will have to be resolved by a sole arbitrator appointed by the mutual consent.

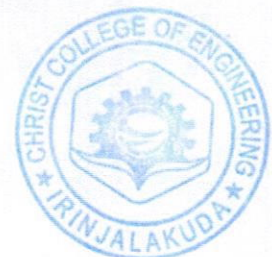


Director

Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555

Executive Director  
Christ College of Engineering  
Irinjalakuda - 680 125



## 8. Confidentiality

The parties agree and undertake to keep confidential at all times any information or data that may be exchanged, acquired or shared in connection with any programme or activity conducted pursuant to this MoU save where the same is already in public domain. The confidentiality obligations under this clause shall survive the termination of this MoU.

The parties can use shared intellectual property solely for academic and research purposes unless otherwise agreed in writing.

## 9. Governing Law and Jurisdiction

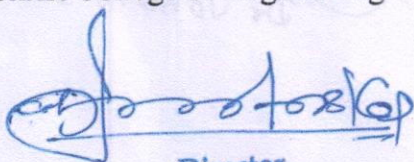
Any divergence or difference arising out of or derived from the interpretation or application of the Agreement shall be resolved by arbitration between the parties as per the Arbitration and Conciliation Act 1996.

## 10. Miscellaneous

The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual faculty members and upon the availability of financial resources. Accordingly, the implementation of any activities as detailed in above shall be separately negotiated by both institutions and set forth in a separate written document.

This agreement is not intended to be a legally binding document. It does not constitute any enforceable obligation. Its sole intention is to facilitate collaboration between two parties. It is meant to describe nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.

All terms and conditions of this MoU are subject to the approval of the various bodies of both parties as per the rules and regulations of Amala Institute of Medical Sciences and Christ College of Engineering.



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Amala Nagar, Thrissur - 680555



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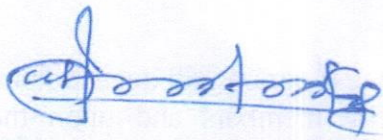


This MoU shall be followed by a legally valid agreement. Both parties shall not commence any work related to this agreement without proper and valid agreement/approval of the management of AIMS as well as such other authorities of Christ College of Engineering.

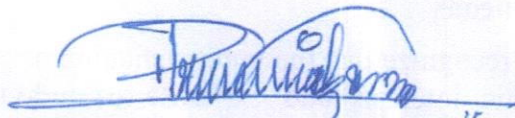
In witness whereof the parties have signed this Memorandum of Understanding on 14<sup>th</sup> August 2025, first herein above written.

For  
**Amala Institute of Medical Sciences**  
Amala Nagar, Thrissur-680555, Kerala

For  
**Christ College of Engineering**  
Irinjalakuda, Thrissur-680125, Kerala.



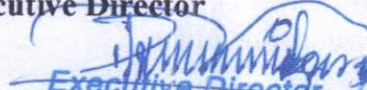
**Fr. Julious Arakkal CMI**  
Director



**Fr. John Paliakara CMI**  
Executive Director




**Director**  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555




**Executive Director**  
Christ College of Engineering  
Irinjalakuda - 680 125

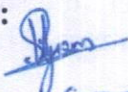



**Witnesses:**

1.   
Dr. Anitha S.A

2.   
DR. DEEMI

**Witnesses:**

1.   
Dr Sijo M.T.

2.   
Dr John.V.D.

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NON JUDICIAL

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e-Stamp

e-Stamp Serial Number : 202526000003095316

Verification Code : 330814065V

Govt. Reference No.(GRN)	: KL021475446202526E
Purpose	: Agreement or memorandum of an agreement - if not otherwise provided for
Amount of Stamp Paper Purchased in Numeral	: ₹ 200
Amount of Stamp Paper Purchased in Words	: Rupees Two Hundred
Stamp Paper Purchased on	: 12/08/2025 09:15:25
First Party Name	: Vice Chancellor
First Party Address	: Manipal Univeristy College Malaysia (MUCM), Jalan Batu Hampar, Melaka, Malaysia.
Second Party Name	: Director
Second Party Address	: Amala Institute of Medical Sciences Thrissur
Vendor Code & Name	: 13012282 - LEENA THEKKEKKARA
Treasury Code & Name	: 1301 - District Treasury, Thrissur

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**Memorandum of Understanding (MoU)**

This Memorandum of Understanding (hereinafter referred to as "MOU") is made and entered into on this 20th day of August 2025 by and between:

**Manipal University College Malaysia**, established under the laws of Malaysia and having registered address at Jalan Batu Hampar, 75150 Bukit Baru, Melaka, Malaysia represented by its Vice Chancellor Prof. Dr Jayakumar Guruswamy (hereinafter referred to as "MUCM").

AND

**Amala Institute of Medical Sciences** (an undertaking of Amala Cancer Hospital Society), recognised by National Medical Commission of India and having an address at Amala Nagar, Thrissur 680555, Kerala, India, represented by its Director, Fr. Julious Arakkal CMI, (hereinafter referred to as "AIMS").



Prof Dr Jayakumar Guruswamy  
Vice Chancellor  
Manipal University College Malaysia



Director  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



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[https://www.estamp.treasury.kerala.gov.in/index.php/prestamp\\_search](https://www.estamp.treasury.kerala.gov.in/index.php/prestamp_search) using e-Stamp Serial Number and Verification Code.

In case of any discrepancy, please inform the competent authority.  
No. 0015. Court Vendor  
**Leena Thekkekkara TCR**

Both of whom are collectively known as the "parties".

**Whereas:**

Manipal University College Malaysia (MUCM), and Amala Institute of Medical Sciences (AIMS), hereby enter into a Memorandum of Understanding, to establish a program of exchange and collaboration in areas of interest and benefit to both institutions.

NOW THEREFORE PURSUANT THERETO, the Parties hereby agree as follows:

**1. Purpose**

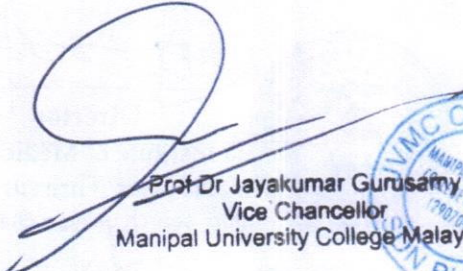
The purpose of this Memorandum of Understanding is to establish a partnership between Manipal University College Malaysia and Amala Institute of Medical Sciences (AIMS) India for:


- To promote interest in teaching, learning, clinical practice, and research activities in their respective institutions.
- The goal of this partnership is to facilitate a mutually beneficial exchange that will increase opportunities for academic growth, research collaboration, and exposure to different cultures.
- Both institutions recognize the importance of international partnerships in today's globalized world and are committed to promoting cultural understanding and developing collaborative relationships between their respective Institutions.

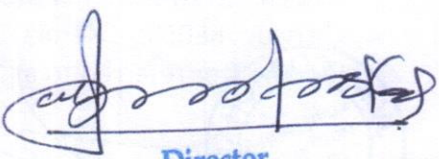
**2. Terms and Conditions**


To achieve these goals, Manipal University College Malaysia (MUCM) and Amala Institute of Medical Sciences (AIMS) shall investigate opportunities in the following areas, insofar as the means of each allow:

- Promote institutional exchanges by inviting faculty and staff of either institution to participate in various teaching activities, joint research projects, academic programs, professional development, and other collaborations in a variety of areas that both institutions will benefit from.

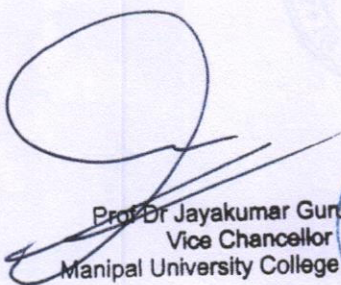
  
Prof. Dr. Jayakumar Gurusamy  
Vice Chancellor  
Manipal University College Malaysia



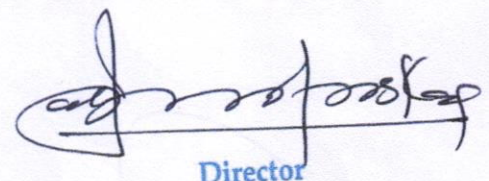
  
Director  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555



- One of the ways institutions can internationalize their strategies is by receiving students from other institutions for periods of study, as outlined in the source provided.
- However, it is important to note that the acceptance of visiting students is at the discretion of the institution providing the learning experience, and any potential visiting student will be responsible for their own living expenses.
- Additionally, it is expected that the travel expenditure will be borne by the students and/or faculty members from the sending institution.
- Finally, the duration of the exchange program should be jointly decided by both institutions involved in the partnership.
- This exchange program model aims to provide an opportunity for students to study in a different academic and cultural environment, allowing for a more comprehensive education.
- Through this exchange program, students can benefit from exposure to different learning styles and teaching methods.
- Furthermore, this program can foster cross-cultural understanding and intercultural dialogue among students from different backgrounds.
- Overall, hosting students from other institutions is an effective tool for promoting internationalization in higher education and can have a positive impact on the academic and personal development.
- To further internationalize their strategies, institutions can employ various approaches, such as organizing symposia, conferences, short courses and meetings.
- These events can provide a platform for fostering academic collaboration, networking and sharing of ideas between academics and professionals from different parts of the world.

  
 Prof. Dr. Jayakumar Gurusamy  
 Vice Chancellor  
 Manipal University College Malaysia



  
 Director



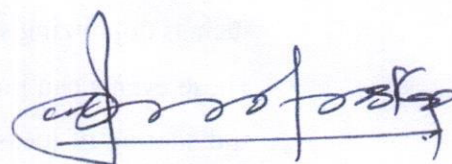
Amala Institute of Medical Sciences  
 Amala Nagar, Thrissur - 680555

- In addition, institutions can offer continuing education programs to provide professionals with ongoing learning opportunities and keep their skills current in an international context.
- Through these initiatives, institutions can facilitate the exchange of information regarding developments in teaching and student development, ultimately promoting internationalization in higher education.

### 3. Responsibilities of the Coordinators:

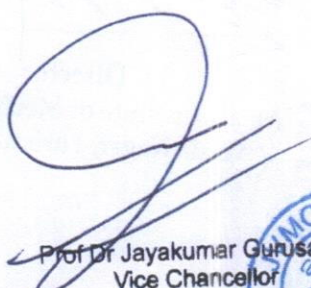
Each department within the respective institutions desiring to participate in an exchange shall designate a coordinator to oversee and facilitate the implementation of this Agreement. The coordinators, working with other appropriate administrators at the respective institutions, shall have the following responsibilities:

- To promote academic collaboration at both faculty and graduate and postgraduate student levels.
- To act as principal contacts for individual and group activities for which cooperation with the other institution is desired.
- To distribute to each institution information about the faculty, facilities, publications, library materials and educational resources of the other institution.
- If deemed desirable to meet periodically to review and evaluate past activities and to work out new ideas for future cooperative agreements.



**Director**

**Amala Institute of Medical Sciences**  
Amala Nagar, Thrissur - 680555

**Prof. Dr. Jayakumar Gurusamy**  
**Vice Chancellor**  
**Manipal University College Malaysia**



#### 4. General Provisions

This general agreement of cooperation shall be identified as the master document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each part and shall not become effective until they have been reduced to writing and executed by the duly authorized representatives of the respective institutions. The scope of the activities under this agreement shall be determined by the funds regularly available at both institutions for the types of collaboration undertaken and by financial assistance as may be obtained by either institution from external sources. No specific financial commitment by either party is to be implied from this agreement.

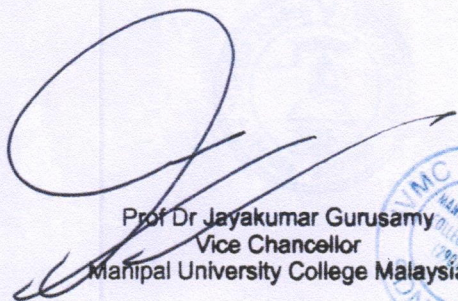
Except as may be stipulated in any specific program agreement, each institution shall be responsible for expenses incurred by its employees under this agreement.

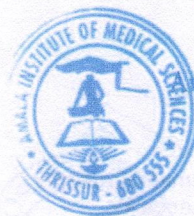
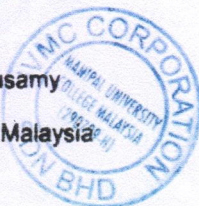
#### 5. Duration and Termination

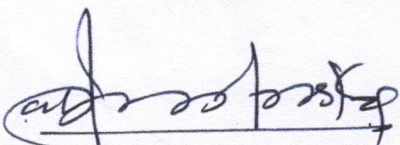
Upon approval by each institution, this agreement shall remain in effect until five years unless terminated earlier by either institution. Such termination by one institution shall be effected by giving the other institution at least ninety (90) days advance written notice of its intention to terminate. Termination shall be without penalty. If this agreement is terminated, neither Manipal University College Malaysia (MUCM) nor Amala Institute of Medical Sciences (AIMS) shall be liable to the other for any monetary or other losses which result from such termination.

#### 6. Governing Law

This Agreement may be executed in multiple counterparts. This agreement shall be governed by the law of the land of the respective university/Institute if any conflict pertaining to student and faculty.

  
Prof Dr Jayakumar Gurusamy  
Vice Chancellor  
Manipal University College Malaysia



  
Director  
Amala Institute of Medical Sciences  
Amala Nagar, Thrissur - 680555

## 7. Intellectual Property

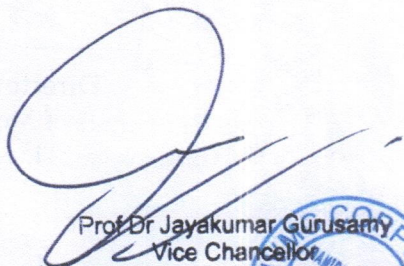
Amala Institute of Medical Sciences (AIMS) shall not use the name of Manipal University College Malaysia or the name of any school or division thereof, or use any logo or insignia of or otherwise identify Manipal University College Malaysia or any school or division thereof, in any form of publicity or disclosure without the prior written consent of Manipal University College Malaysia, which consent may be withheld or granted by Manipal University College Malaysia in its sole and complete discretion at any time or times. Manipal University College Malaysia (MUCM) shall not use the name Amala Institute of Medical Sciences or the name of any school or division thereof, or use any logo or insignia of or otherwise identify Amala Institute of Medical Sciences or any school or division thereof, in any form of publicity or disclosure without the prior written consent of Amala Institute of Medical Sciences, which consent may be withheld or granted by Amala Institute of Medical Sciences in its sole and complete discretion at any time or times.

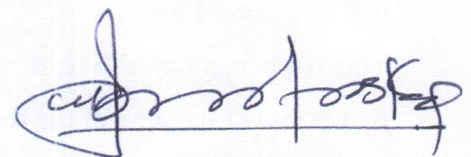

## 8. Financial Obligation

No financial obligations for either party shall arise out of this agreement.

## 9. Confidentiality

The parties agree and undertake to keep confidential at all times any information or data that maybe exchanged, acquired or shared in connection with any program or activity conducted pursuant to this MoU save where the same is already in public domain. The confidentiality obligations under this clause shall survive the termination of the MoU.

  
Prof. Dr. Jayakumar Gurusamy  
Vice Chancellor  
Manipal University College Malaysia



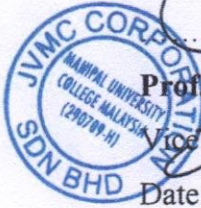
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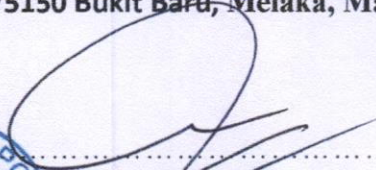


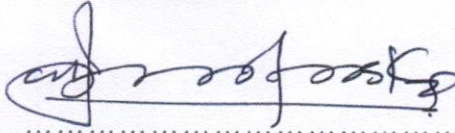
In witness whereof, the authorized representatives of Manipal University College Malaysia and Amala Institute of Medical Sciences have signed this Memorandum of Understanding on this day, 20<sup>th</sup> August, 2025.

For and on behalf of  
**Manipal University College Malaysia**  
75150 Bukit Baru, Melaka, Malaysia

For and on behalf of  
**Amala Institute of Medical Sciences**  
Thrissur, Kerala, India



  
.....  
**Prof. Dr. Jayakumar Gurusamy**  
Prof Dr Jayakumar Gurusamy  
Vice Chancellor Vice Chancellor  
Manipal University College Malaysia  
Date:

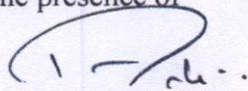
  
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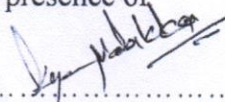
**Fr. Julious Arakkal CM** Director  
Director **Amala Institute of Medical Sciences**  
Amala Nagar, Thrissur - 680555  
Date:

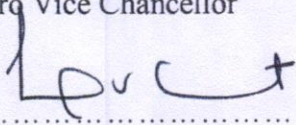


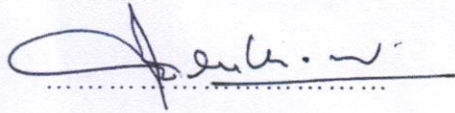
In the presence of

In the presence of

  
.....  
**Prof. Dr. Adinegara Lutfi bin Abas**  
Pro Vice Chancellor

  
.....  
**Dr Kayeen Vadakkan**  
Senior Scientific Research Officer

  
.....  
**Dr. Antony Vincent Samrot**  
Director, Research Management Centre

  
.....  
**Dr Joby Thomas K**  
Chief Administrative Officer



**MANIPAL**  
UNIVERSITY COLLEGE  
MALAYSIA



**Amala**  
INSTITUTE OF MEDICAL SCIENCES  
NABH ACCREDITED ISO 9001:2015

## **MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**MANIPAL UNIVERSITY COLLEGE MALAYSIA  
JALAN BATU HAMPAR, 75150 BUKIT BARU  
MELAKA, MALAYSIA**

**AND**

**AMALA INSTITUTE OF MEDICAL SCIENCES (AIMS)  
SH69, AMALANAGAR,  
THRISSUR, KERALA 680555,  
INDIA**

**DATED THIS 20<sup>TH</sup> DAY OF AUGUST 2025**



**Manipal University College Malaysia (MUCM), Jalan Batu Hampar, 75150 Bukit Baru Melaka, Malaysia, and Amala Institute of Medical Sciences (AIMS), Amala Nagar, Thrissur-680555, Kerala, India,** hereby enter into a **Memorandum of Understanding**, made as of the 20<sup>th</sup> August 2025 to establish a program of exchange and collaboration in areas of interest and benefit to both institutions.

**Manipal University College Malaysia**, a well-known University medical school established under the laws of Malaysia and having registered address at Jalan Batu Hampar, 75150 Bukit Baru Melaka, Malaysia, is represented by its Vice Chancellor Prof. Dr. Jayakumar Gurusamy (hereinafter referred to as “MUCM”)

AND

**Amala Institute of Medical Sciences** (an undertaking of Amala Cancer Hospital Society), recognised by National Medical Commission of India and affiliated to Kerala University of Health Sciences, having an address at Amala Nagar, Thrissur, Kerala, India 680555 is represented by its Director, Fr. Julious Arakkal CMI, (hereinafter referred to as “AIMS”)

## I.

The purpose of this Memorandum of Understanding is to establish a partnership between Manipal University College Malaysia (MUCM) and Amala Institute of Medical Sciences (AIMS) India for:

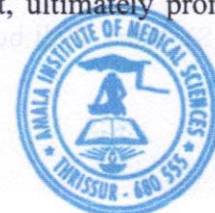
- To promote interest in teaching, learning, clinical practice, and research activities in their respective institutions.
- The goal of this partnership is to facilitate a mutually beneficial exchange that will increase opportunities for academic growth, research collaboration, and exposure to different cultures.
- Both institutions recognize the importance of international partnerships in today's globalized world and are committed to promoting cultural understanding and developing collaborative relationships between their respective Institutions.

## II.

To achieve these goals, Manipal University College Malaysia (MUCM) and Amala Institute of Medical Sciences (AIMS), India shall investigate opportunities in the following areas, in so far as the means of each allow:



- Promote institutional exchanges by inviting faculty and staff of either institution to participate in various teaching activities, joint research projects, academic programs, professional development, and other collaborations in a variety of areas that both institutions will benefit from.
- One of the ways institutions can internationalize their strategies is by receiving students from other institutions for periods of study, as outlined in the source provided.
- However, it is important to note that the acceptance of visiting students is at the discretion of the institution providing the learning experience, and any potential visiting student will be responsible for their own living expenses.
- Additionally, it is expected that the travel expenditure will be borne by the students and/or faculty members from the sending institution.
- Finally, the duration of the exchange program should be jointly decided by both institutions involved in the partnership.
- This exchange program model aims to provide an opportunity for students to study in a different academic and cultural environment, allowing for a more comprehensive education.
- Through this exchange program, students can benefit from exposure to different learning styles and teaching methods.
- Furthermore, this program can foster cross-cultural understanding and intercultural dialogue among students from different backgrounds.
- Overall, hosting students from other institutions is an effective tool for promoting internationalization in higher education and can have a positive impact on the academic and personal development.
- To further internationalize their strategies, institutions can employ various approaches, such as organizing symposia, conferences, short courses and meetings.
- These events can provide a platform for fostering academic collaboration, networking and sharing of ideas between academics and professionals from different parts of the world.
- In addition, institutions can offer continuing education programs to provide professionals with ongoing learning opportunities and keep their skills current in an international context.
- Through these initiatives, institutions can facilitate the exchange of information regarding developments in teaching and student development, ultimately promoting internationalization in higher education.



### III.

Each department within the respective institutions desiring to participate in an exchange shall designate a coordinator to oversee and facilitate the implementation of this Agreement. The coordinators, working with other appropriate administrators at the respective colleges, shall have the following responsibilities:

- To promote academic collaboration at both faculty and graduate and postgraduate student levels.
- To act as principal contacts for individual and group activities for which cooperation with the other institution is desired.
- To distribute to each institution information about the faculty, facilities, publications, library materials and educational resources of the other institution.
- If deemed desirable to meet periodically to review and evaluate past activities and to work out new ideas for future cooperative agreements.

### IV.

This general agreement of cooperation shall be identified as the master document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each part and shall not become effective until they have been reduced to writing and executed by the duly authorized representatives of the respective institutions. The scope of the activities under this agreement shall be determined by the funds regularly available at both institutions for the types of collaboration undertaken and by financial assistance as may be obtained by either institution from external sources. No specific financial commitment by either party is to be implied from this agreement.

### V.

Except as may be stipulated in any specific program agreement, each institution shall be responsible for expenses incurred by its employees under this agreement.

### VI.

Upon approval by each institution, this agreement shall remain in effect until five years unless terminated earlier by either institution. Such termination by one institution shall be effected by giving the other institution at least ninety (90) days advance written notice of its intention to terminate. Termination shall be without penalty. If this agreement is terminated, neither Manipal University College Malaysia (MUCM) nor Amala Institute of Medical Sciences (AIMS), India shall be liable to the other for any monetary or other losses which result from



such termination.

**VII.**

This Agreement may be executed in multiple counterparts. This agreement shall be governed by the law of the land of the respective university/Institute if any conflict pertaining to student and faculty.

**VIII.**

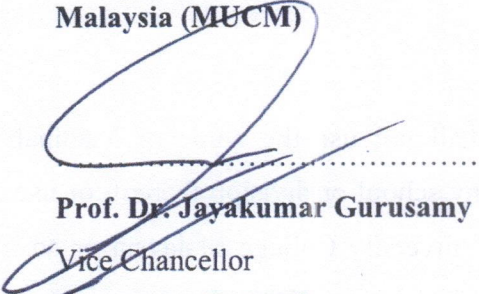
Amala Institute of Medical Sciences (AIMS), India shall not use the name of Manipal University College Malaysia (MUCM) or the name of any school or division thereof, or use any logo or insignia of or otherwise identify Manipal University College Malaysia or any school or division thereof, in any form of publicity or disclosure without the prior written consent of Manipal University College Malaysia, which consent may be withheld or granted by Manipal University College Malaysia in its sole and complete discretion at any time or times. Manipal University College Malaysia shall not use the name Amala Institute of Medical Sciences, Kerala India or the name of any school or division thereof in any form of publicity or disclosure without the prior written consent of Amala Institute of Medical Sciences, which consent may be withheld or granted by Amala Institute of Medical Sciences in its sole and complete discretion at any time or times.

**IX.**

No financial obligations for either party shall arise out of this agreement.

Signed and executed as of the day and year first above written.

For and on behalf of  
**Manipal University College  
Malaysia (MUCM)**

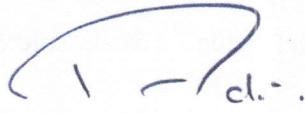
  
.....  
**Prof. Dr. Jayakumar Gurusamy**  
Vice Chancellor

Date: 20.08.2025

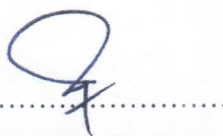
Prof Dr Jayakumar Gurusamy  
Vice Chancellor  
Manipal University College Malaysia



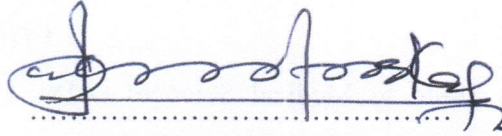
In the presence of

  
.....

**Prof. Dr. Adinegara Lutfi bin Abas**  
Pro Vice Chancellor

  
.....  
**Dr. Remya Vallathol**  
Associate Professor, Department of  
Microbiology, Faculty of Medicine

For and on behalf of  
**Amala Institute of Medical Sciences  
(AIMS)**

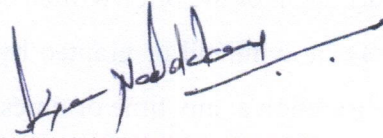
  
.....  
**Fr. Julious Arakkal CMI**  
Director

Date: 20.08.2025

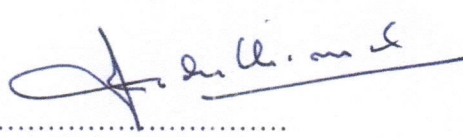
Director  
**Amala Institute of Medical Sciences**  
Amala Nagar, Thrissur - 680555



In the presence of

  
.....

**Dr. Kayeen Vadakkan**  
Senior Scientific Research Officer, AIMRD

  
.....  
**Dr. Joby Thomas K**  
Chief Administrative Officer

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GOVERNMENT OF KERALA  
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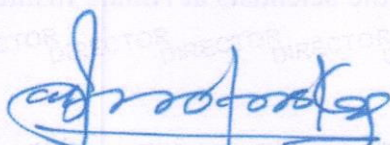
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Amount of Stamp Paper Purchased in Words	: Rupees Two Hundred
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First Party Address	: AMALA INSTITUTE OF MEDICAL SCIENCES AMALA NAGAR
Second Party Name	: ST MARYS COLLEGE
Second Party Address	: Thrissur
Vendor Code & Name	: 13012282 - LEENA THEKKEKKARA
Treasury Code & Name	: 1301 - District Treasury, Thrissur

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**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (hereinafter referred to as "MoU") is made and entered into on 1<sup>st</sup> August 2025 by and between - **Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society), Amala Nagar, Thrissur, Kerala and St. Mary's College (Autonomous), Thrissur, Kerala.**

**Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society)** is a private medical college recognized by National Medical Commission of India and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under its Devamatha Province, represented by its Director, **Fr. Julious Arakkal CMI**, hereinafter referred as "**First Party**" which expression

  
Fr. Julious Arakkal CMI  
Director



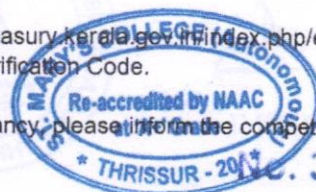


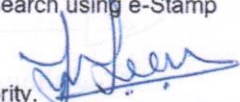
DR. SR. MEENA K. CHERUVATHUR  
PRINCIPAL-IN-CHARGE  
ST. MARY'S COLLEGE (Autonomous)  
THRISSUR - 680 020



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[https://www.estamp.treasury.kerala.gov.in/index.php/estamp\\_search](https://www.estamp.treasury.kerala.gov.in/index.php/estamp_search) using e-Stamp Serial Number and Verification Code.

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Leena Thekkekkara TCR

shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **First Party**.

**And**

**St. Mary's College (Autonomous), Thrissur**, is an aided private Arts and Science College recognized by University Grants Commission of India and affiliated to University of Calicut, situated in the district of Thrissur, Kerala. It was established by CMC Congregation under its Nirmala Province, Thrissur, represented by its Principal, **Dr. Sr. Meena K Cheruvathur** hereinafter called as "**Second Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the Second Party.

Amala Institute of Medical Sciences (an undertaking of Amala Cancer Hospital Society) and St. Mary's College (Autonomous), Thrissur shall hereinafter be collectively referred to as the "**Parties**".

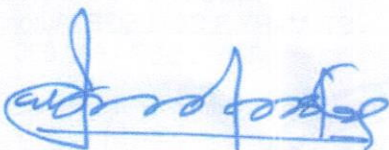
### **1. Purpose**

The purpose of this Memorandum of Understanding is seeking to improve understanding between the respective academic institutions and to establish mutually beneficial collaborations benefiting their students and faculty.


### **2. Terms & Conditions**

On mutual discussion, this MoU envisage to encourage the development of the following academic and research collaborations based on their respective academic and educational needs:

- Exchange of faculty
- Exchange of students and research scholars
- Organization of joint research programs
- Organization of joint conferences
- Organization of other academic exchanges agreeable to both institutions.
- Sharing library resources
- Utilization of research lab of St. Mary's College by the scientists at Amala Institute of Medical Sciences for joint research projects

  
Fr. Julious Arakkal CMI  
Director



  
DR. SR. MEENA K. CHERUVATHUR  
PRINCIPAL-IN-CHARGE  
ST. MARY'S COLLEGE (Autonomous)  
THRISSUR - 680 020

The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual faculty members and upon the availability of financial resources. Accordingly, the implementation of any activities as detailed in above shall be separately negotiated by both institutions and set forth in a separate written document.

This MoU is not intended to be a legally binding document. It is meant to describe nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.

For Amala Institute of Medical Sciences, Dr. Kayeen Vadakkan, Scientist C, Amala Integrated Medical Research Department and for St. Mary's College (Autonomous), Dr Anjaly Kishore, Dean of Research and Assistant Professor of Mathematics shall serve as liaison officers for this MoU.

### 3. Duration

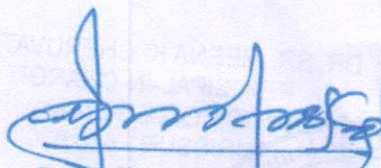
This MoU is effective from the date of signing and executed by the duly authorized representatives of the parties to this MoU and shall remain in full force and effect for 3 years.

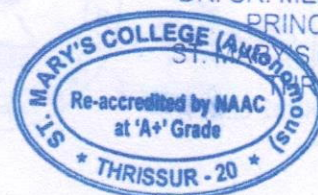
### 4. Financial Arrangements

The Parties acknowledge that in the absence of any specific agreement in writing to the contrary, each Party shall be responsible for its own costs and expenses in establishing and conducting programmes and activities contemplated under this MoU, including without limitation, travel and accommodation expenses.

### 5. Intellectual Property

- a) The Parties agree that any intellectual property rights arising from or in connection with any programme or activity under this MoU, 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 in writing.
- b) 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 MoU, unless otherwise mutually agreed upon in writing by the Parties.

  
Fr. Julious Arakkal CMI  
Director



DR. SR. MEENA K. CHERUVATHUR  
PRINCIPAL-IN-CHARGE  
ST. MARY'S COLLEGE (Autonomous)  
THRISSUR - 680 020

## 6. Confidentiality

The Parties agree and undertake to keep confidential at all times any information or data that may be exchanged, acquired or shared in connection with any programme or activity conducted pursuant to this MoU save where the same is already in public domain. The confidentiality obligations under this Clause shall survive the termination of this MoU.

## 7. Dispute Resolution

In the event of any dispute between the parties in respect of any rights or liabilities arising out of this MoU, the same shall be referred to a sole Arbitrator appointed by mutual consent and the proceedings shall be conducted in accordance with the provisions contained in the Arbitration and Conciliation Act, 1996.

## 8. Governing Law

This MoU shall be governed by and construed according to the prevailing laws of Kerala. Both Parties agree to submit to the exclusive jurisdiction of the courts in Thrissur.

## 9. Termination & Amendment

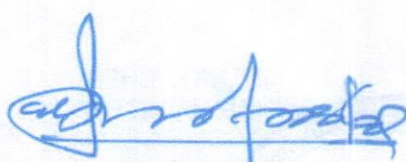
This MoU may be terminated, without cause, by either party upon one month written notice, which shall be delivered by hand, electronically, or by certified mail to the address listed above.

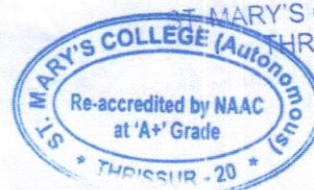
All modifications, clarifications and amendments to this MoU shall be in writing and signed by both parties.


## 10. Miscellaneous

All terms and conditions of this MoU are subject to the approval of the various bodies of both parties as per the rules and regulations of Amala Institute of Medical Sciences and St. Mary's College (autonomous).

It is agreed that the terms and conditions of any agreed programme and activity contemplated in this MoU shall be the subject matter of separate written agreements to be negotiated and agreed upon by both Parties and/or any third parties, wherever applicable. Provided always the decision whether to initiate and/or implement any programme or activity shall be at the sole discretion of each Party.

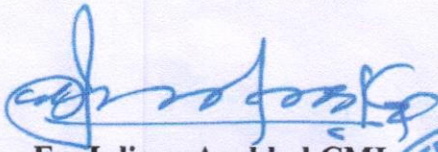
  
Fr. Julious Arakkal CMI  
Director



  
DR. SR. MEENA K. CHERUVATHUR  
PRINCIPAL-IN-CHARGE  
ST. MARY'S COLLEGE (Autonomous)  
THRISSUR - 680 020

In witness whereof, the parties have signed this Memorandum of Understanding on 1<sup>st</sup> August 2025, first herein above written.

**For**  
**Amala Institute of Medical Sciences**  
**Amala Nagar, Thrissur-680555, Kerala**

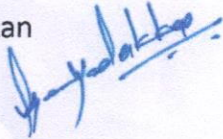


**Fr. Julious Arakkal CMI**  
**Director**

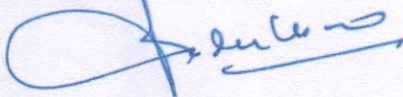


**Witnesses:**

1. Dr. Kayeen Vadakkan



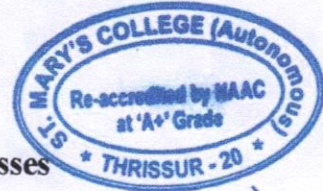
2. Dr. Joby Thomas K



**For**  
**St. Mary's College Autonomous,**  
**Thrissur-680020, Kerala**




**Dr. Sr. Meena K Cheruvathur**  
**Principal**



**Witnesses**

1. Dr. Anjaly Kishore



2. Dr. Dalie Dominica



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GOVERNMENT OF KERALA

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 Amount of Stamp Paper Purchased in Words : Rupees Two Hundred  
 Stamp Paper Purchased on : 08/10/2025 10:02:11  
 First Party Name : Fr JuliousArakkal CMI  
 First Party Address : Director Amala institute of medical science Thrissur  
 Second Party Name : Indian institute of  
 Second Party Address : Information Technology, Kottayam  
 Vendor Code & Name : 13012282 - LEENA THEKKEKKARA  
 Treasury Code & Name : 1301 - District Treasury, Thrissur

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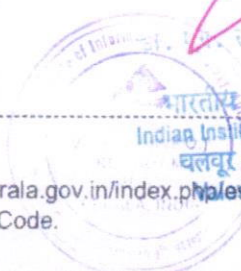
Memorandum of Understanding



Indian Institute of Information Technology Kottayam



Fr. Julious Arakkal CMI  
 Director  
 Amala Institute of Medical Sciences  
 P.O. Amalanagar, Trichur-680555  
 Kerala, Pin - 6807 33 & 103, 2304000  
 (julius.arakkal@amalaims.org)



Dr. M. RADHAKRISHNAN  
 कुलसचिव / REGISTRAR  
 भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
 Indian Institute of Information Technology, Kottayam  
 വല്ലൂർ പി. ഓ., പാലാ, കേരള - 686 634  
 വല്ലൂർ പി. ഓ., പാലാ, കേരള - 686 635



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 Serial Number and Verification Code.

In case of any discrepancy, please inform the competent authority.

No. 3 Dist. Court Vendor  
Leena Thekkekkara TCR

**Healthcare–Academia Collaborative MoU**

Between

**Amala Institute of Medical Sciences (AIMS)**

[An undertaking of Amala Cancer Hospital Society]

**Thrissur, Kerala**

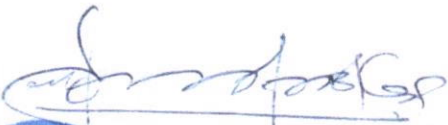
&

**Indian Institute of Information Technology (IIIT),**

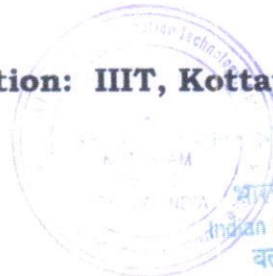
**Kottayam, Kerala**


**Date: 09-10-2025**



  
**Fr. Julious Arakkal CMI**  
Director  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph : 0487-2304103, 2304000  
(julius.arakkal@amalaims.org)

**Location: IIIT, Kottayam**



  
कुलसचिव / REGISTRAR  
भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
Indian Institute of Information Technology, Kottayam  
वलवूर पी. ओ., पाला, केरल - 686 635  
Valavoor P.O., Pala, Kerala-686 635

This Memorandum of Understanding ("MoU") is entered into by and between **Amala Institute of Medical Sciences (AIMS), Thrissur 680555, Kerala, India**, represented by **Fr. Julious Arakkal CMI, Director**, and **Indian Institute of Information Technology (IIIT), Kottayam**, operating at its permanent campus in Valavoor, Pala, Kerala and represented by its **Registrar Dr. M Radhakrishnan**.

## 1. Preamble

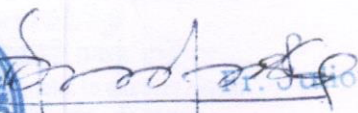
Indian Institute of Information Technology Kottayam (hereinafter referred to as **IIIT Kottayam**), at Valavoor, Pala, Kerala, is one among the IIITs established as Institutions of National Importance by the Ministry of Education, Government of India, under the IIIT (PPP) Act 2017. IIIT Kottayam is engaged in cutting-edge research and training in Artificial Intelligence, Machine Learning, Data Science, Edge and Quantum Computing, with a mission to develop innovative technological solutions addressing societal and healthcare challenges.

Amala Institute of Medical Sciences, an undertaking of Amala Cancer Hospital Society (hereinafter referred to as **AIMS**), Thrissur, Kerala, is a premier healthcare and academic institution that integrates advanced medical education, patient care, and research. With strong clinical departments including neurology and specialized facilities for EEG-based diagnostics, AIMS is dedicated to translational research and improving patient outcomes across multiple domains of medicine.

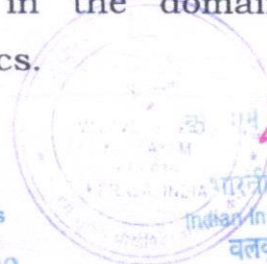
Whereas, both IIIT Kottayam and AIMS:


- Recognize the transformative potential of integrating Artificial Intelligence and Quantum Computing with clinical research and healthcare delivery, particularly in the domain of neurological disorders and EEG-based diagnostics.





Fr. Julious Arakkal CMI  
Director  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph : 0487-2304103, 2304000  
(julius.arakkal@amalaaims.org)



  
Registrar  
Indian Institute of Information Technology, Kottayam  
Valavoor P.O., Pala, Kerala - 686 635

- Intend to leverage their complementary strengths to jointly develop advanced diagnostic systems, predictive models, and digital healthcare innovations.
- Wish to broaden this collaboration beyond neurological disorders to include AI-based solutions for disease detection, diagnostic aids, and prediction in fields such as oncology, cardiology, as well as other areas of mutual interest like medical imaging, drug discovery, telemedicine, and digital health.

Now, therefore, in consideration of the mutual promises made herein, both institutions agree to enter into this Memorandum of Understanding (MoU).

## 2. Article I: Purpose and Scope

The purpose of this Memorandum of Understanding (MoU) is to establish a formal framework for collaborative research and development, academic exchange, and innovation between the parties.

It also seeks to establish collaboration in advancing research that applies Artificial Intelligence and hybrid quantum-classical methods to EEG data for the prediction and management of epilepsy, seizures, and other neuropathic disorders.

As AIMS already has a dedicated facility equipped with Video EEG machines for epilepsy monitoring, outpatient and portable EEG monitoring, pediatric epilepsy programmes, and a comprehensive sleep lab, this provides a strong foundation for the initiative.

Through this partnership, the aim is to enhance early warning systems, support clinical decision-making, and improve patient care in the domain of neurological health.



*(Handwritten signature)*

Fr. Julious Arakkal CMI  
Director  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph: 0487-2304103, 2304000  
(julius.arakkal@amalaims.org)



*(Handwritten signature)*  
Dr. M. RADHAKRISHN  
कुलसचिव / REGISTRAR  
भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
Indian Institute of Information Technology, Kottayam  
वलवूर पी. ओ., पाला, केरल - ६८६ ६३५  
Valavoor P.O., Pala, Kerala-686 635

Under this MoU, both parties agree to collaborate on the following activities:

- Development and implementation of the seizure alert system
- Data sharing, technical input, and clinical validations
- Joint research publications, patents, and grant applications
- Faculty, research scholar, and student exchange (where applicable)
- Prototype development and real-world pilot studies

### 3. Article II: Institutional Roles

#### **AIMS will:**

- Provide clinical data\*, domain expertise, and patient care insights across departments.

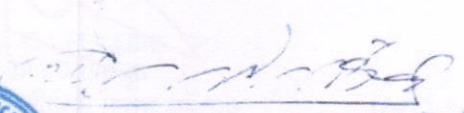
(\*The collection and use of clinical data from AIMS shall be subject to prior approval of hospital management, and a separate application must be submitted for each case and must adhere to the institutional Ethical Committee regulations.)

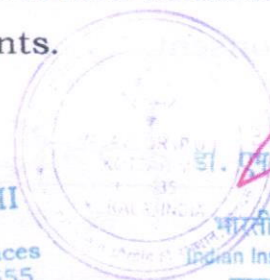
- Support ethical reviews and facilitate clinical validation and pilot studies.
- Offer access to infrastructure such as EEG labs, hospitals, and research departments.

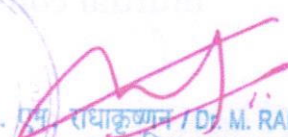
#### **IIIT Kottayam will:**

- Lead development of AI, quantum computing, and data analysis platforms.
- Handle computational modeling, algorithm design, and system engineering.
- Collaborate with clinical teams to adapt tools for real-world healthcare settings.
- IIIT shall ensure to access the hospital infrastructures, labs, departments etc with prior permission and without interrupting the smooth functioning of the departments.



  
Fr. Julious Arakkal CMI  
Director  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph : 0487 2304103, 2304000  
(julius.arakkal@amalaims.org)



  
Dr. M. Radhakrishnan /  
कुलसचिव / REGISTRAR  
भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
Indian Institute of Information Technology, Kottayam  
वलदूर पी. ओ., पाला, केरल - ६८६ ६३५  
Valavoor P.O., Pala, Kerala-686 635

- Any other terms and conditions, including but not limited to financial arrangements, indemnity, or other specific provisions, shall be mutually decided by the parties through a separate Memorandum of Agreement (MoA) on a case-to-case basis.

#### 4. Article III: Ethical Governance

- All human or animal studies require approval from the Institutional Ethics Committee (IEC) of AIMS or an equivalent body.
- Strict compliance with ethical, legal, and privacy standards must be maintained for all data and patient interactions.

#### 5. Article IV: Intellectual Property & Publications

- Intellectual Property resulting from jointly executed projects will be governed by mutual agreement on a case-by-case basis.
- Jointly developed publications, patents, and prototypes shall reflect co-authorship and institutional affiliations.
- Both institutions agree to maintain strict confidentiality regarding proprietary data and patient information.

#### 6. Article V: Confidentiality

- Both parties commit to preserving the confidentiality of all shared information, especially clinical data and proprietary technologies, unless legally required to disclose.

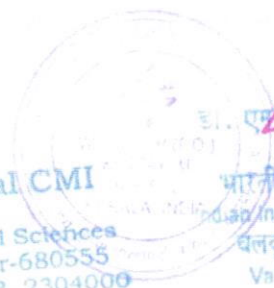
#### 7. Article VI: Duration & Termination

- This MoU shall be effective from the date of signing.
- It shall remain valid for a period of three (3) years, extendable upon mutual consent.



*[Handwritten signature]*

Fr. Julious Arakkal CMI  
 Director  
 Amala Institute of Medical Sciences  
 P.O. Amalanagar, Trichur-680555  
 Kerala, Ph : 0487 2304103, 2304000  
 (julius.arakkal@amalaimis.org)



*[Handwritten signature]*  
 Dr. M. RADHAKRISHNA  
 कुलसचिव / REGISTRAR  
 भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
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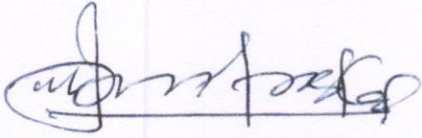
- Either party may terminate the agreement with prior written notice of 90 days, ensuring the completion of ongoing obligations.
- Both parties shall settle their dues if any before the termination of the agreement.

## 8. Article VII: Dispute Resolution

- Any conflicts will first be addressed through mutual consultation.
- Failing resolution, disputes will proceed to arbitration under the Indian Arbitration and Conciliation Act, 1996.
- Venue: Ernakulam, Kerala. Proceedings: English.
- The Arbitrator shall be appointed mutually by both parties.

### Signatures

**For AIMS:**



**Fr. Julious Arakkal CMI**

Director



Fr. Julious Arakkal CMI  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph : 0487-2304103, 2304000  
(julius.arakal@amalaims.org)

**For IIIT:**



**Dr. M Radhakrishnan**

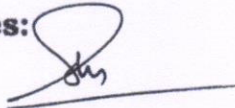
Registrar

IIIT Kottayam

डा. एम. राधाकृष्णन / Dr. M. RADHAKRISHNAN  
कुलसचिव / REGISTRAR  
भारतीय सूचना प्रौद्योगिकी संस्थान, कोट्टयम  
Indian Institute of Information Technology, Kottayam  
वलवूर पी. ओ., पाला, केरल - 686 635  
Valavoor P.O., Pala, Kerala-686 635

Date: 09-10-2025

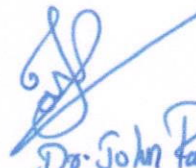
**Witnesses:**



**DR. SURESH KUMAR. S**

Professor + HOD Neurosurgery

Amala Institute of Medical Sciences  
Thrissur



**Dr. John Paul Martin**  
Assistant Professor

IIIT Kottayam



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GOVERNMENT OF KERALA  
e-Stamp

e-Stamp Serial Number : 202526000005545378

Verification Code : 449054844V

Govt. Reference No.(GRN) : KL034433085202526E  
 Purpose : Agreement or memorandum of an agreement - if not otherwise provided for  
 Amount of Stamp Paper Purchased in Numeral : ₹ 200  
 Amount of Stamp Paper Purchased in Words : Rupees Two Hundred  
 Stamp Paper Purchased on : 17/11/2025 09:36:07  
 First Party Name : Fr Julious Arakkal CMI  
 First Party Address : Director Amala institute of medical sciences Thrissur  
 Second Party Name : Dr Sr Rini Raphael  
 Second Party Address : Principal Carmel College Mala  
 Vendor Code & Name : 13012282 - LEENA THEKKEKKARA  
 Treasury Code & Name : 1301 - District Treasury, Thrissur

Please write or type below this line

MEMORANDUM OF UNDERSTANDING

Between

AMALA INSTITUTE OF MEDICAL SCIENCES (AIMS)

(Amala Cancer Hospital Society)

AMALA NAGAR, THRISSUR, KERALA

And

CARMEL COLLEGE (AUTONOMOUS), MALA, THRISSUR,  
KERALA

This MoU is made and entered into on 22<sup>nd</sup> November 2025 by and between - **Amala Institute of Medical Sciences, Amala Nagar, Thrissur, Kerala and Carmel College (Autonomous), Mala, Thrissur, Kerala**



This can be verified by  
[https://www.estamp.treasury.kerala.gov.in/index.php/estamp\\_search\\_using\\_e-Stamp](https://www.estamp.treasury.kerala.gov.in/index.php/estamp_search_using_e-Stamp)  
Serial Number and Verification Code.

In case of any discrepancy, please inform the competent authority.

No. 3 Dist. Court Vendor  
Leena Thekkakkara

**Amala Institute of Medical Sciences** (an undertaking of Amala Cancer Hospital Society) is a private medical college recognized by National Medical Commission of India

and affiliated to Kerala University of Health Sciences, situated in the city of Thrissur, Kerala. It was established by CMI congregation under its Devamatha Province, represented by its Director, **Fr. Julious Arakkal CMI**, hereinafter called as "**First Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **First Party**.

**And**

**Carmel College (Autonomous), Mala, Thrissur**, is an aided Arts and Science College recognized by University Grants Commission of India and affiliated to University of Calicut, situated in the district of Thrissur, Kerala. It was established by CMC Congregation under its Udyia Province, Irinjalakuda represented by its Principal, **Dr. Sr. Rini Raphael** hereinafter called as "**Second Party**" which expression shall, unless repugnant to the context or meaning thereof, includes its successors in office, legal representatives and permitted assigns of the **Second Party**.

### **Areas of Collaboration**

On mutual discussion, this MoU envisage to encourage the development of the following academic and research collaborations based on their respective academic and educational needs:

- Exchange of faculty
- Exchange of students and research scholars
- Organization of joint research programs
- Organization of joint conferences
- Organization of other academic exchanges agreeable to both institutions.
- Sharing library resources

### **Implementation and Coordination**

The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual faculty members and upon the availability of financial resources. Accordingly, the implementation of any activities as detailed in above shall be separately negotiated by both institutions and set forth in a separate written document.



This agreement is not intended to be a legally binding document. It is meant to describe nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.

For Amala Institute of Medical Sciences, Dr. Kayeen Vadakkan, Scientist C, Amala Integrated Medical Research Department and for Carmel College (Autonomous), Dr. Sinjumol Thomas, Assistant Professor shall serve as liaison officers for this agreement.

### **Duration**

This MoU is effective from the date of signing and executed by the duly authorized representatives of the parties to this MoU and the governing bodies of the party's respective counties and shall remain in full force and effect for 3 years.

### **Dispute Resolution**

Any dispute between the parties will have to be resolved by a sole arbitrator appointed by the mutual consent.

### **Governing Law and Jurisdiction**

Any divergence or difference arising out of or derived from the interpretation or application of the Agreement shall be resolved by arbitration between the parties as per the Arbitration and Conciliation Act 1996.

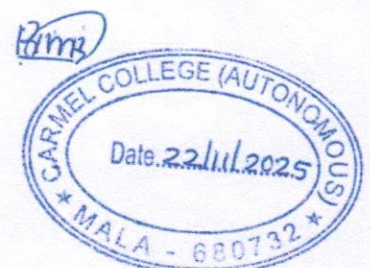
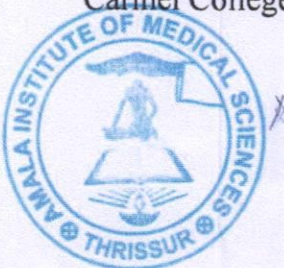
### **Amendment and Termination**

The MoU may be amended by mutual discussion.

This MoU may be terminated, without cause, by either party upon one month written notice, which shall be delivered by hand, electronically, or by certified mail to the address listed above.

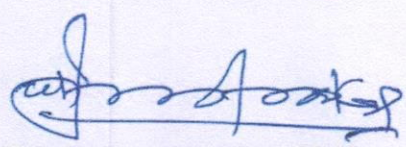
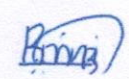
### **Miscellaneous**

All terms and conditions of this MoU are subject to the approval of the various bodies of both parties as per the rules and regulations of Amala Institute of Medical Sciences and Carmel College (Autonomous), Mala.

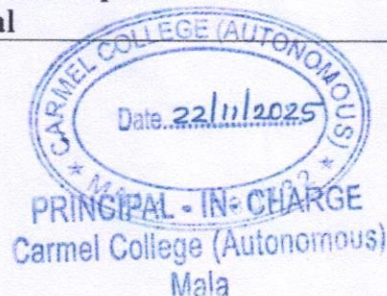


This MoU shall be followed by a legally valid agreement. Both parties shall not commence any work related to this agreement without proper and valid agreement/approval of the management of AIMS as well as such other authorities Carmel College (Autonomous), Mala.

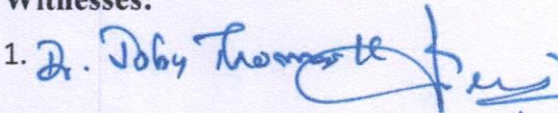
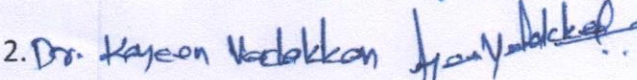
In witness whereof the parties have signed this Memorandum of Understanding on 22<sup>nd</sup> November 2025, first herein above written.

<p>For <b>Amala Institute of Medical Sciences</b> Amala Nagar, Thrissur-680555, Kerala</p>  <p><b>Fr. Julious Arakkal CMI</b> Director</p>	<p>For <b>Carmel College Autonomous, Mala</b> Thrissur-680732, Kerala</p>  <p><b>Dr. Sr. Rini Raphael</b> Principal</p>
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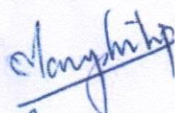

Fr. Julious Arakkal CMI  
Director  
Amala Institute of Medical Sciences  
P.O. Amalanagar, Trichur-680555  
Kerala, Ph : 0487-2304103, 2304000  
(julius.arakkal@amalaims.org)



**Witnesses:**

1.  Dr. Doby Thomas
2.  Dr. Kayson Vadakkan

**Witnesses:**

1.  MARY PHILIP
2.  Dr. Simjinal Thomas