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To
Dr. S. Sri Prudhwan

24/4/23

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24/4/23

MEMORANDUM OF UNDERSTANDING

BETWEEN

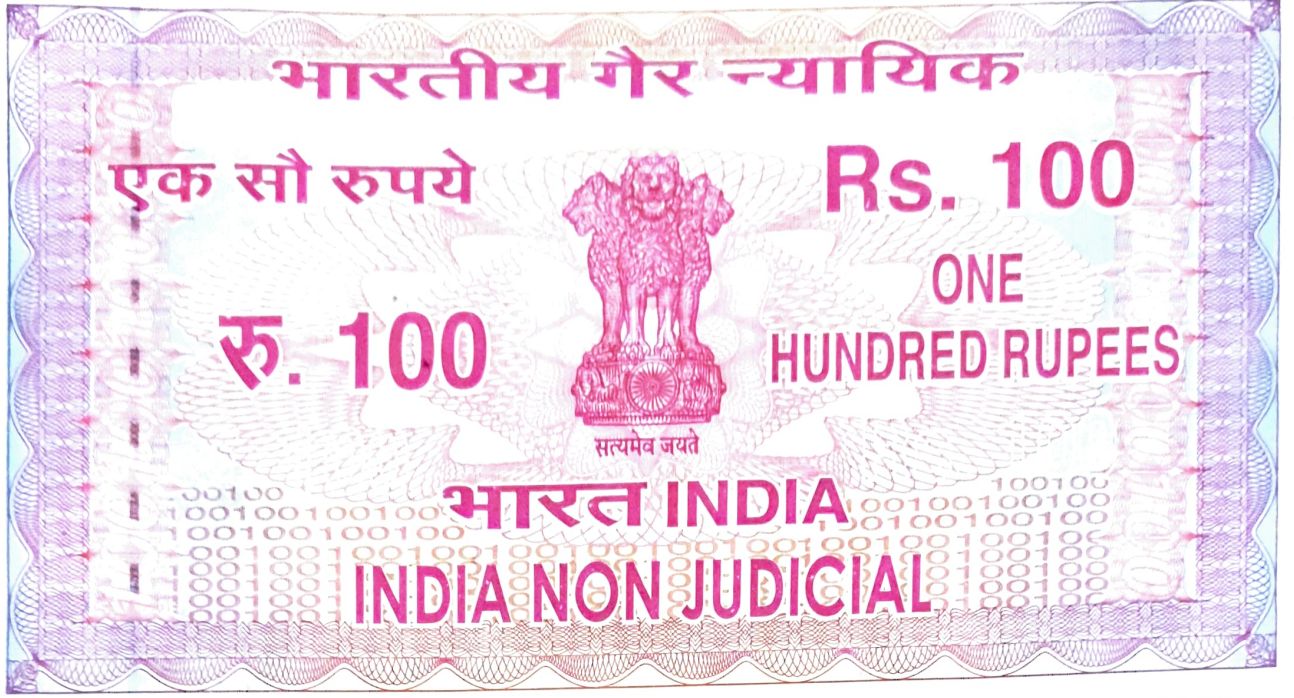
INDIAN RUBBER MANUFACTURERS
RESEARCH ASSOCIATION (IRMRA),

Thane, Maharashtra

AND

Union Christian College,

Aluva, Kerala



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DZ 618825



MEMORANDUM OF UNDERSTANDING

BETWEEN

INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA), THANE WEST, MAHARASHTRA

AND

UNION CHRISTIAN COLLEGE, ALUVA

This Memorandum of Understanding (hereinafter referred to as "this MoU") is signed on this 24th day of month of April in the year 2023 by and between the **INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION (IRMRA)**, an autonomous body under The Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Government of India, New Delhi, having its principal office at 254/1 B, Road Number 16V, Wagle Industrial Estate, Thane (W) MH, India 400604 and branches in the Eastern India at P.O.- Dhulagarh, P.S.- Sankrail, Dist.- Howrah, Pin-711302, WB and in Southern India at Sri City Trade Centre, Sri city, Dist. - Chittore, Andhra Pradesh-517646, India (hereinafter referred to as "IRMRA") of the other part;

AND

Union Christian College established under the UNION CHRISTIAN COLLEGE ASSOCIATION with its registered address at Union Christian College, U.C. College P.O. 683102 (hereinafter referred to as "UCC"), of the one part;

10/4/23

Principal
U.C. college
Aluva.



ANGAMALY VENDOR
M.J. BABY, L.No:15/78-79



(IRMRA, and UCC hereinafter referred to collectively as "Parties" and individually as "Party", where the context so requires)

WHEREAS

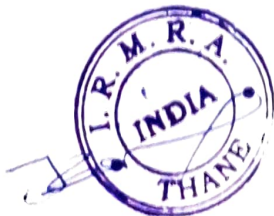
- A. Indian Rubber Manufacturers Research Association, popularly known, as IRMRA is Premier Research and Development organization established in 1958 to serve the Rubber & allied industries. IRMRA is an autonomous body under the Ministry of Commerce & Industry, DPIIT, Govt. of India. Govt. of India has funded to create this state of art R&D center to support Rubber Industries & end users to improve the quality of rubber products and now the institute is self-sustaining. IRMRA has modern state of art scientific and analytical instruments and is fully equipped with facilities for design & development, validation and testing of rubber and allied materials. It has state of art R&D center to support Rubber Industries & end users to improve the quality of rubber products. IRMRA, is an NABL ISO17025:2005 accredited and ISO-9001:2015 certified laboratory and engaged in pursuit of higher research in all major areas of rubber and polymer technology.

IRMRA is well known for its expertise in the fields of Testing and Investigations, Research and Products / Compound development, Training & Manpower development and Consultancy services, and has diversified its activities in the new sophisticated areas such as Nano and Latex Technologies as well as Rubber Engineering.

IRMRA, has been carrying out sponsored research projects including technology development projects in a variety of areas for Government Agencies and industry. IRMRA, has extensive facility and experience, in reverse Engineering and product development of rubber and polymer based products. IRMRA has facility and experience in giving Training, conducting different courses related to Rubber field, Quality Management System, Manpower skill development etc. Presently IRMRA conducts training courses on LMS (Laboratory Management Courses), M Sc in Industrial Polymer Chemistry in collaboration with Mumbai University and short term technical training courses on rubber technology.

IRMRA has following Quality accreditations / recognitions:
ISO 17025:2005: NABL Accredited,
ISO: 9001:2015 certified
DGMS Approved
BIS Recognized for various Tyre & Non- Tyre Testing
DGQA, DSIR, CEMILAC Recognized

- B. The Union Christian College, Aluva was founded in 1921 as an ecumenical, Indian Christian initiative in the field of higher education in Kerala. The college was founded by four young visionaries – Shri. K.C. Chacko, Shri. A.M. Varki, Shri. C.P. Mathew and Shri. V.M. Ittyerah, who were alumni of Madras Christian College. Providentially inspired by their Christian faith and commitment, they envisaged the institution as a



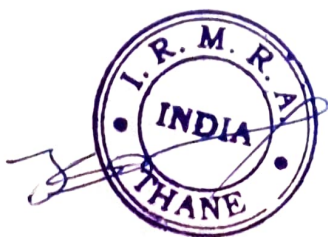
center based on the values of integrity and social commitment, promoting learning and culture. A sprawling green campus spread over 40 acres, the college is located on the banks of river Periyar, about 12 kilometers away from the Cochin International Airport. Affiliated to Mahatma Gandhi University, Kottayam, the institution is known for its academic excellence and research potential. The college has 18 academic departments, with around 1900 students and 160 faculty members.

The college strives to produce intellectually competent, morally upright, and spiritually inspired citizens in the service of the nation. It is a unique center of higher education in Kerala with an ecumenical character and foundation. The college has always promoted international initiatives and cooperation. The list of eminent international teachers who have associated with the college in the past includes stalwarts like Canon W. E. S. Holland, Rev. L. W. Hooper, Malcom Muggeridge and Rev. B. G. Crowley. This ethos continues in the form of international collaborations and student exchange programmes with Universities outside India. The institution distinguishes itself in interdenominational management, its service to the nation, cosmopolitan and secular ethos and humanistic values.

The Department of Chemistry was initiated in 1926 from the very inception of the Science stream of the Intermediate Course in the College. Prof. T. R. Anantharaman was the founder Professor and Head of the Department (1926 – 1962). The B.Sc course in Chemistry was started in 1953 and the PG course was started in 1982, though the department was well equipped for the PG course from 1969 onwards. Owing to the untiring efforts of the eminent faculty, the research activities gradually increased, and the department attained formidable reputation in the national scene as one of the finest schools of chemistry for graduation.

The department has distinguished itself as a centre for innovative and pioneering research in a wide range of areas in chemistry and chemistry interfacing with physical and biological sciences. It has attained the status of a DST-FIST Sponsored department by DST in 2010. The department of chemistry is well known for its excellence in teaching and research. The faculty members of the department are engaged in state of the art research as well as guiding the M. Sc. Projects and Doctoral Students. The faculty members have actively participated in revising and updating the B.Sc. and M. Sc. syllabus time and again. Collaborative research programs with many research laboratories like ISRO were also taken up successfully with mutual benefit. The Department of Chemistry has produced notable alumni like Prof. Dr. M V George (IIT Kanpur/RRL Tvm), Dr. Sajan Joseph (Scientific Advisor, Eli-Lilly pharma, USA), Dr. C P Reghunathan Nair (VSSC), Dr. Mangalam S Nair (Scientist, RRL) and Mr. K. P. Dhanapalan (Ex-MP), Dr.A.T.Biju (Faculty, IISc)

The Parties, leveraging on the existing core functions of each organisation in developing the rubber industry in the region, are desirous of entering into this Memorandum of Understanding to declare their respective intentions and to establish a basis of co-operation and collaboration between the Parties upon the terms as contained herein.



THE PARTIES HEREBY REACHED THE FOLLOWING UNDERSTANDINGS:

1. OBJECTIVE

The Parties, subject to the terms of this MoU and the laws, rules, regulations and national policies from time to time in force, may endeavour to strengthen, promote and develop co-operation between the Parties on the basis of equality and mutual benefit.

2. AREAS OF CO-OPERATION

2.1 Subject to the law, rules, regulations and national policies from time to time in force, governing the subject matter, each Party may act as a stimulus for a wide range of collaborative activities, including but not limited to the collaboration related to research, innovation, testing and technology transfer in midstream and downstream sector of the industry.

2.2 For the above collaboration, the areas to be covered could include (but not limited to) the following areas:

- (i) Skill Development Program
- (ii) Internship Program (Summer & Winter Internship)
- (iii) Industrial Visits of Students
- (iv) Academic Collaboration / Exchange Programs
- (v) Joint Training / Workshop to exchange of knowledge between UCC and IRMRA researchers/ Members / Stakeholders.
- (vi) Exploring Collaborated Research, submission of Research Proposal to any funding agencies.
- (vii) Joint Paper publications, Patents etc.
- (viii) Utilisation of Testing facilities (available in both institutes)
- (ix) Entrepreneurship Development in Rubber Sector
- (x) Any other scope of work, which may be beneficial for both Institutes.

2.3 For the purpose of implementing the co-operation in respect of any area stated in clause 2, the parties may enter into a legally binding agreement subject to terms and conditions as mutually agreed upon by the Parties.

3. FINANCIAL ARRANGEMENTS

This MoU will not give rise to any financial obligation by one party to the other. Each party will bear its own cost and expenses in relation to this MoU.

4. EFFECT OF MEMORANDUM OF UNDERSTANDING

Notwithstanding the statements and obligations herein, this MoU shall not create a legal relationship between the Parties and the Parties shall not be legally bound until and unless a definitive agreement has been negotiated and duly executed by the authorized representatives of the Parties.



5. **NO AGENCY**

Nothing contained herein is to be constituted as a joint-venture partnership or formal business organization of any kind between the Parties or so to constitute either party as the agent of the other.

6. **ENTRY INTO EFFECT AND DURATION**

- 6.1 This MoU will come into effect on the date of signing and will remain in effect for a period of three (3) years.
- 6.2 This MoU may be renewed for a further period as may be agreed in writing by the Parties.
- 6.3 This MoU may be terminated at any time by either party giving the other party a written notice of no less than one (1) month.

7. **NOTICES**

Any communication under this MoU will be in writing in the English language and delivered by registered mail and/or courier to the address or sent to the electronic mail address of the Parties or as the case may be, shown below or to such other address or electronic mail address or facsimile number as either party may have notified the sender and shall, unless otherwise provided herein, be deemed to be duly given or made when delivered to the recipient at such address or electronic mail address or facsimile number which is duly acknowledged:

To : **INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION, MUMBAI, MAHARASHTRA (IRMRA)**

Attn to : Director

Address : 254/1 B, Road Number 16V, Wagle Industrial Estate, Thane (W) MH, India 400604

Tel no. : +91 22 6787 3209

E-mail : info@irmra.org ; director@irmra.org

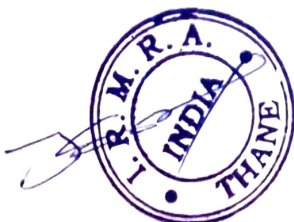
To **Union Christian College, Aluva (UCC)**

Attn to : Principal

Address : U C College P.O, Aluva, Ernakulam, Kerala 683102

Tel no. :

E-mail : ucc@uccollege.edu.in, chemistry@uccollege.edu.in



8. PROTECTION OF INTELLECTUAL PROPERTY RIGHTS

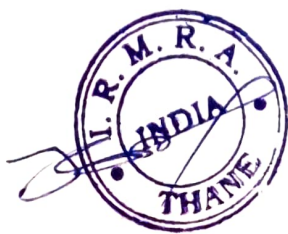
- 8.1. The protection of intellectual property rights shall enforced in conformity with the respective national laws, rules and regulations of the Parties and with international agreements signed by both Parties.
- 8.2. The use of the name, logo and/or official emblem of any of the Parties on any publication, document and/or paper is prohibited without the prior written approval of either Party.
- 8.3. Notwithstanding anything in paragraph 8.1 above, the intellectual property rights in respect of any technological development, and any products and services development, carried out
- 8.3.1 jointly by the Parties or research results obtained through the joint activity effort of the Parties, shall be jointly owned by the Parties in accordance with the terms to be mutually agreed upon; and
- 8.3.2 solely and separately by the Party or the research results obtained through the sole and separate effort of the Party, shall be solely owned by the Party concerned.

9. CONFIDENTIALITY

- 9.1. Each Party shall undertake to observe the confidentiality and secrecy of document, information and other data received from or supplied to, the other Party during the period of the implementation of this MoU or any other agreements made pursuant to this MoU.
- 9.2. For the purpose of paragraph 9.1 above, such documents, information and data include any document, information and data which is disclosed by a party (the disclosing party) to the other party (the receiving party) prior to, or after, the execution of this MoU, involving technical, business, marketing, policy, know-how, planning, project management and other documents, information, data and/or solutions in any form, including but not limited to any document, information or data which is designated in writing to be confidential or by its nature intended to be for the knowledge of the receiving party or if orally given, is given in the circumstances of confidence.
- 9.3. Both Parties agree that the provisions of this Article may continue to be binding between the Parties notwithstanding the termination of this MoU.

10. SUSPENSION

Each party reserves the right for reasons of national security, national interest, public health to suspend temporarily, either in whole or in part, and the implementation of this MoU which suspension shall take effect immediately after notification has been given to the other party.



11. SETTLEMENT OF DISPUTES

Any difference or dispute between the Parties concerning the interpretation and/or implementation and/or application of any of the provisions of this MoU shall be settled amicably through mutual consultation and/or negotiations between the Parties, without reference to any third party or international tribunal.

12. VARIATION

The terms stipulated in this MoU shall not be amended, altered, changed or otherwise modified without the mutual consent of the Parties and such amendments, alterations, changes and modifications shall be made in writing and signed by the Parties hereto.

IN WITNESS WHEREOF UNION CHRISTIAN COLLEGE and IRMRA hereunto have executed this Memorandum of Understanding on the year and date first above written:

Signed by]

For and on behalf of]

**INDIAN RUBBER MANUFACTURERS
RESEARCH ASSOCIATIONS (IRMRA)**

DR. RAJKUMAR KASILINGAM
Director

] भारतीय रबड़ निर्माता अनुसंधान संघ
Indian Rubber Manufacturers Research Association

] *[Handwritten Signature]*

] डॉ. के. राजकुमार / Dr. K. Rajkumar
निदेशक / Director

Witnessed by]

[NAME]]
[Designation]]

] *[Handwritten Signature]*

Signed by]

For and on behalf of]

UNION CHRISHTIAN COLLEGE, ALUVA (_____)]

PRINCIPAL]

Witnessed by]

] *[Handwritten Signature]*
Dr. M. I. Punnoose
Principal in Charge
U.C. College Aluva

] *[Handwritten Signature]*

] *[Handwritten Signature]*





भारतीय रबड़ निर्माता अनुसंधान संघ

उद्योग संवर्धन और आंतरिक व्यापार विभाग के तहत स्वायत्त संस्थान, वाणिज्य और उद्योग मंत्रालय, भारत सरकार

INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION

An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt. of India

Date: 06/06/2023

To whomsoever it may concern

This is to certify that **Gopika Saseendran (Register No: 210021025537)** B.Sc Chemistry student of Department of Chemistry, Union Christian College, Aluva has successfully completed her seven days internship. The training was carried out at Indian Rubber Manufacturers and Research Association (IRMRA), Thane during May 8th to May 16th 2023.

While completing her training we have found her to be very sincere and hardworking.

We wish all the best for her career.

भारतीय रबड़ निर्माता अनुसंधान संघ
Indian Rubber Manufacturers Research Association


Suchismita Sahoo
वरिष्ठ सहायक निदेशक
Senior Assistant Director

Sr. Assistant Director, IRMRA



Recognized By : Department of Scientific & Industrial Research, Ministry of Science & Technology, New Delhi.
Accredited By : NABL as per vide Certificate No. TC-7719
Recognized By : Bureau of Indian Standards
Approved By : Centre for Military Airworthiness & Certification (CEMILAC) Bangalor.
Accredited By : Directorate General of Mines Safety (DGMS), Dhanbad.
Head Office : Plot No. 254/1B, Road No. 16V, Wagle Industrial Estate, Thane (W) - 400 604. Ph.: 022-67873200 up to 249 (20 Lines)
Telefax : 022-67873225 Email : info@irmra.org Website : www.irmra.org
Old Site : B-88, Road No. 24/112, Wagle Industrial Estate, Thane-400 604.



भारतीय रबड़ निर्माता अनुसंधान संघ

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INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION

An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt. of India

Date: 06/06/2023

To whomsoever it may concern

This is to certify that **Adithya Lalu (Register No : 210021025541)** B.Sc Chemistry student of Department of Chemistry, Union Christian College, Aluva has successfully completed her seven days internship. The intership was carried out at Indian Rubber Manufacturers and Research Association (IRMRA), Thane during May 8th to May 16th 2023.

While completing her training we have found her to be very sincere and hardworking.

We wish all the best for her career.

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Indian Rubber Manufacturers Research Association

सुचिस्मिता साहू
Suchismita Sahoo
वरिष्ठ सहायक निदेशक
Senior Assistant Director
Sr. Assistant Director, IRMRA



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INDIAN RUBBER MANUFACTURERS RESEARCH ASSOCIATION

An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt. of India

Date: 06/06/2023

To whomsoever it may concern

This is to certify that **Aswin Kunjachan (Register No : 210021025532)** B.Sc Chemistry student of Department of Chemistry, Union Christian College, Aluva has successfully completed his seven days internship. The training was carried out at Indian Rubber Manufacturers and Research Association (IRMRA), Thane during May 8th to May 16th 2023.

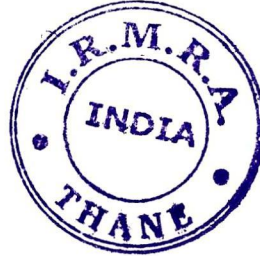
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We wish him all the best for his career.

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Suchismita Sahoo
Sr. Assistant Director, IRMRA

वरिष्ठ सहायक निदेशक
Senior Assistant Director



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An Autonomous Institute under DPIIT, Ministry of Commerce & Industry, Govt. of India

Date: 06/06/2023

To whomsoever it may concern

This is to certify that **Devika Santhosh (Register No : 210021025533)** B.Sc Chemistry student of Department of Chemistry, Union Christian College, Aluva has successfully completed her seven days internship. The training was carried out at Indian Rubber Manufacturers and Research Association (IRMRA), Thane during May 8th to May 16th 2023.

While completing her training we have found her to be very sincere and hardworking.

We wish all the best for her career.

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सुचिष्मिता साहू
Suchishmita Sahoo

वरिष्ठ सहायक निदेशक
Senior Assistant Director

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Date: 06/06/2023

To whomsoever it may concern

This is to certify that **Anumod C A (Register No : 210021025545)** B.Sc Chemistry student of Department of Chemistry, Union Christian College, Aluva has successfully completed his seven days internship. The training was carried out at Indian Rubber Manufacturers and Research Association (IRMRA), Thane during May 8th to May 16th 2023.

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मुचिसिमा साहू
Suchismita Sahoo

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