

# **MEMORANDUM OF ASSOCIATION**

**BY AND BETWEEN**

**ICAR-INDIAN INSTITUTE OF NATURAL RESINS & GUMS**

**AND**

**INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF  
MINES) DHANBAD**

**2022**

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## Memorandum of Association

This Memorandum of Association (hereinafter referred to as the "MoA") is made and entered into on the **13 day of May 2022**

**Between**

**ICAR-INDIAN INSTITUTE OF NATURAL RESINS & GUMS Ranchi** established by the Government of India, having its office at Ranchi, (hereinafter referred to as "**IINRG Ranchi**") which expression shall, unless repugnant to the context and meaning thereof, be deemed to mean and include successors, executors, representatives. ----- **First Party**

**AND**

**Indian Institute of Technology (Indian School of Mines) Dhanbad**, an engineering and research institute, established by the Government of India, having its office at Dhanbad-826004 hereinafter referred to as "**IIT (ISM)**" which expression shall, unless repugnant to the context and meaning thereof, be deemed to mean and include successors, executors, representatives. ----- **Second Party**

WHEREAS IIT (ISM) is an institute offering specialized under-graduate and post-graduate programs in the energy and the allied sectors since 1926 and was granted the status of IIT (ISM) by the Act of Parliament in 2016. IIT (ISM) Dhanbad is a public engineering and research institute. The Institute thrives to expand the opportunities for students and professionals to develop an intellectual knowledge base with leadership skills to compete in the global arena.

ANDWHEREAS ICAR-Indian Institute of Natural Resins and Gums (IINRG) is a nodal Institute at national level for research and development on all aspects of lac and other natural gums & resins (excluding production) such as harvesting/tapping, processing, product development, training, information repository, technology dissemination and national/international cooperation.



भारतीय प्राकृतिक राल एवं गोंद संस्थान  
Indian Institute of Natural Resins & Gums  
समकूप, राँची/ Jharkhand  
Ranchi-834001

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**The Parties hereto agrees as follows:**

Notwithstanding anything contrary contained herein this Memorandum of Collaboration is legally non-binding and merely records the intent of the parties to collaborate for a promotion of entrepreneurship, technology business incubation and start-ups in their institutes.

**Objectives of the Project**

The project aims to design an integrated blockchain and artificial intelligence enabled platform that will allow all players involved in lac farming ecosystem in Jharkhand including farmers, FPOs, digital lenders, processing units, industries, and importers to connect on a single platform. The digital ledger for agriculture ecosystem will support a direct linkage of all stakeholders and help to eradicate any middlemen from the process.

Some of the main objectives of the project includes:

1. Developing a common platform for all stakeholders involved in lac farming ecosystem in Jharkhand:
2. Empower lac farmers by providing fair rates for their product
3. Provide digital lending services to farmers
4. Providing a digital platform for getting facilities like quality evaluation of lac and lac products on payment basis.
5. Providing information on process know-how/technologies available on lac processing and lac based products and showcasing of technologies, details of training/licensing on lac processing and products.
6. Increase lac export from Jharkhand
7. Develop voice-based recognition system for farmers
8. Provide data-driven predictive advisory services to the farmer



भारतीय प्राकृतिक राल एवं गोंद संस्थान  
Indian Institute of Natural Resins & Gum  
पता: राँची, झारखंड-834010  
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## Activities under the Project

The parties under this MoA may undertake following activities to achieve the objectives of the MoA as per mutual agreement-

1. Facilitate visits of students/employees to create a platform
2. Exchange of faculty/scientists as resource persons to mentor the campus spin-offs;
3. Any other activity as per mutual agreement;

## Role of IIT (ISM) Dhanbad

1. The Project will be administered by IIT(ISM) Dhanbad that includes sponsoring of the project, scoping of the project, research design, software customization, implementation of the artificial intelligence and block chain enabled platform for lac ecosystem and assessment.
2. Prof. Shashank Bansal, Assistant Professor of Department of Management Studies and Dr. Ruchika Sehgal, Assistant Professor of Department of Mathematics & Computing are the Principal Investigators and Co-Principal Investigators respectively of this project.
3. Any other mutually agreed services/area of corporation

## Role of ICAR-IINRG

1. ICAR-IINRG will provide expert knowledge related to lac cultivation and other related information needed about lac for the development of the website and mobile app and ICAR-IINRG will be identified as a collaborator/partner in the above project.
2. As a collaborator, ICAR-IINRG shall provide advisory services to lac farmers on the website/mobile app.
3. Quality check of the product sent by the farmers/processing units, cooperative societies may be done by ICAR-IINRG, when required by any industry on a chargeable basis and the charges will be decided by ICAR-IINRG.
4. Training to stake-holders like farmers, entrepreneurs etc. through the training programme of ICAR-IINRG, Ranchi on chargeable basis
5. Licensing of technologies/Process Know-how of lac processing and products of ICAR-IINRG, Ranchi on chargeable basis
6. Any other mutually agreed services/area of corporation



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पंचकोट रोड, राँची-834 006



## Intellectual Property

IINRG Ranchi and IIT (ISM) agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arise as a result of any collaborative research or activity under this MoA shall be worked out on a case-to-case basis and will be consistent with officially laid down IPR policies of the two institutions. Neither party shall share any confidential information with any third party. The sharing of such databases by each other will be mutual trust that it will not be used by either party for providing any kind of information to any third party. The parties shall diligently perform their respective obligation under the MoA as per the procedure set forth above.

### Obligations of the parties

#### ***IINRG Ranchi shall ensure-***

1. That all the intellectual property in the content provided by ICAR-IINRG under the MoA is owned by IINRG Ranchi;
1. That a world-wide, royalty-free, perpetual and non-exclusive license on such intellectual property is given to IIT (ISM) for only hosting on the website;
2. That best services are given to the users subscribing to commercial services of IINRG Ranchi through IIT (ISM)'s website;
3. ICAR-IINRG shall offer services by adhering to all the applicable protocols and security features. ICAR-IINRG shall also fully indemnify IIT (ISM) Dhanbad for any loss or damage done in respect of any services by ICAR-IINRG.

#### ***IIT (ISM) shall ensure-***

1. That adequate disclaimers are put on website informing the users about ownership of the information and nature of services offered by IINRG Ranchi;
2. ICAR-IINRG logo and branding at all project collaterals at all times shall be identified as "Partners" OR "Collaborators". This branding endorsement shall be live and endorsed for the current Project as long as IIT(ISM) Dhanbad is exploring the Project irrespective whether any other partners have changed or added later. The parties shall seek such permission to use logo or names in through a written request.

### Validity & Termination of MoA

This MoA shall be valid for a period of three years with periodical review and may be continued thereafter as per mutual agreement. The parties may terminate the MoA by giving thirty days written notice indicating such intentions. However, parties shall ensure that all activities in progress are allowed to complete successfully.



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*Gurdeep Singh*  
भारतीय प्रौद्योगिकी संस्थान राल एवं गोंद संस्थान  
Indian Institute of Natural Resins & Gums  
मनकपुर, राँची/Numbum; Ranchi-834010

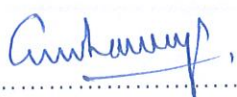
## Amendment

It is mutually understood and agreed by and between the parties that amendment within the scope of the instrument shall be made by mutual consent of the parties, by the issuance of a written modification, signed, and dated document by all parties.

IN WITNESS WHEREOF, the aforementioned parties have affixed their signatures and seal on the date, month and year first above written.

ICAR-Indian Institute of  
Natural Resins & Gums

Indian Institute of Technology  
(ISM) Dhanbad

  
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Name K K Sharma

Designation Director

Seal

निदेशक/Director  
भा.कृ.अ.प.-भारतीय प्राकृतिक राल एवं गोंद संस्थान  
ICAR-Indian Institute of Natural Resins & Gums  
नामकुम, राँची/Namkum, Ranchi-834010

Witness:

1) Dr M F Ansari

Rs & Head, APD Div.

  
.....

Name RAJIV SHEKHAR

Designation DIRECTOR

प्रो० राजीव शेखर/Prof. Rajiv Shekhar  
निदेशक/Director  
Seal भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद  
INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), Dhanbad  
धनबाद/Dhanbad-826004

Witness:

2) SAGAR PAL

Associate Dean R&D - RI