

This Memorandum of Understanding (MoU) established between

Central University of South Bihar Gaya, established under the Central Universities Act, 2009 (Section 25 of 2009), India, having expertise in basic and biomedical research, hereinafter referred to as CUSB, Gaya

And

The All India Institute of Medical Sciences, Bathinda, an apex healthcare institutes being established by the Ministry of Health & Family Welfare, Government of India under the Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) hereinafter referred to as AIIMS, Bathinda, for the purpose of exchange of faculty, staffs, students and sharing research facilities.

Will be effective from.....

Preamble

WHEREAS, CUSB, Gaya and AIIMS, Bathinda share common interest in conducting research in health sciences and both are desirous to carry collaborative research to achieve deliverable targets with potential to benefit society and the Nation.

NOW THEREFORE CUSB, Gaya and AIIMS, Bathinda, collectively referred as Institutes now onwards, have decided to enter into MoU with mutual consent and having the defined framework for the cooperation as described in the following sections.

ARTICLE 1: SCOPE OF COLLABORATION

Based on the principles of equality and reciprocity, CUSB, Gaya and AIIMS, Bathinda agree for the following collaborative activities-

- 1.1 The exchange of faculty, staffs and students to the mutual benefit of both institutions
- 1.2 Collaborative production and publication of academic materials and research/review papers
- 1.3 Call for the joint research grant from various National and International funding agencies
- 1.4 To establish linkages with industries to conduct clinical trials and other research activities.
- 1.5 Mutual transfer of technology and "Know-how".
- 1.6 Jointly organize seminar, conferences, workshop and other academic activities.
- 1.7 Co-supervising post-graduate and doctoral students.
- 1.8 Exchange of research facilities for the faculty and students.
- 1.9 Training of faculty, staffs and students on different analytical equipments and biomedical technologies
- 1.10 To jointly provide consultancy services in health sector.

ARTICLE 2: DURATION AND EVALUATION

2.1 This MOU shall be effective for a period of 05 years from the last date of signature. The MoU may be terminated before completion of its tenure by a request placed in writing by either Institute before 60 days of proposed termination date. Any activities in continuation at time of termination shall be permitted to conclude as planned unless otherwise agreed in writing.

Reviewed
Aivel
14/07/2024

2.2 MoU will be evaluated three months before the expiry date by the team comprising the member of both the Institutes. MoU may be continued for further period as decided mutually by both the Institute.

2.3 Any amendment to the existing provisions of MoU may be requested, in writing, by either party and approved by the authorized signatories.

ARTICLE 3: COORDINATION

The MoU will be coordinated by authorised representative appointed by both the Institutes.

ARTICLE 4: INTELLECTUAL PROPERTY RIGHTS

Both the Institutes will share the ownership and commercial benefits of the intellectual property - product or services emanating from the joint Collaborative research work.

ARTICLE 5: LEGAL EFFECT

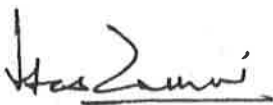
There will be no legal binding of this MoU on either of the Institute. This MoU is just a mutually agreed instrument to venture for collaborative academic and research activity.

ARTICLE 6: CONFLICT RESOLUTION

In case any conflict of interest arising relating to any aspect of academic cooperation, Vice Chancellor, CUSB, Gaya and Director, AIIMS, Bathinda will jointly resolve the same considering the mutual respect and shared responsibilities.

CUSB, Gaya and AIIMS, Bathinda approve the establishment of this MoU and Mutually agree to the provisions as set out above.

Signed for CUSB, Gaya

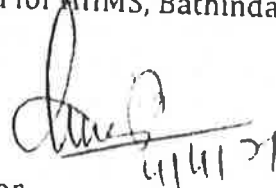


Vice Chancellor 28/6/21

प्रो. हरिश्चन्द्र सिंह राठौर
Prof. H.C.S. Rathore

उत्तर केन्द्रिय विश्वविद्यालय
University of South Bihar

Signed for AIIMS, Bathinda



Director

Date: 04/04/2021
निदेशक एवं मुख्य कार्यकारी अधिकारी
अखिल भारतीय आयुर्विज्ञान संस्थान, बठिन्दा



(3)

दक्षिण बिहार केन्द्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur
P.S- Tekari, District- Gaya (Bihar) PIN- 824236

F.No.CUSB/Dev/MoU/Phy/2023/29

Date: 31.07.2023

By Email

To,
The Secretary
University Grants Commission
Bahadurshah Zafar Marg
New Delhi - 110002

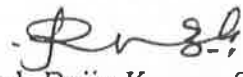
Subject: MoU for Academic/Research Collaboration between Institute of Physics,
Academia Sinica, Taipei (Taiwan) and Central University of South Bihar.

Sir,


I am to inform that Central University of South Bihar entered into an MoU Agreement with the Institute of Physics, Academia Sinica, Taipei (Taiwan) for Academic/Research collaboration for the exchange of research scholar and mutual sharing of research infrastructure.

The copy of signed MoU is enclosed herewith for your information and further action at your end.

Yours sincerely,


Col. Rajiv Kumar Singh
Registrar

Annexure: MoU Agreement.


कुलसचिव/Registrar
दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

Memorandum of Understanding Between



中央研究院物理研究所

INSTITUTE OF PHYSICS, ACADEMIA SINICA

Institute of Physics,
Academia Sinica, Taipei (Taiwan)

&



दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

Physics Department, School of Physical & Chemical Sciences,
Central University of South Bihar, Gaya (India)

Date: July 20, 2023.

The Particle Physics Group, Department of Physics, School of Physical & Chemical Sciences, Central University of South Bihar (CUSB), Gaya (India)

and

the Particle Physics Group, Institute of Physics, Academia Sinica (AS), Taipei (Taiwan)

have been conducting a Ph.D. student research training program since 2019. This Memorandum documents the existing partnership and serves as the starting point for other joint programs between the two institutes in the future.

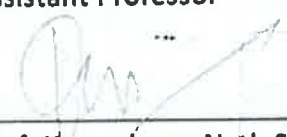
1. CUSB identifies and nominates participating Ph.D. students through its own proper screening committee which comprises the following:
 - I. Contact person or Spokesperson from CUSB (Chairperson)
 - II. Research Supervisor at CUSB (Member)
 - III. Research Progress Committee (RPC) or Departmental Research and Development Committee (DRDC) nominee of the students (Member)
2. Students joining the CUSB-AS program should fulfill the required rules and regulations according to the Ph.D. ordinance of CUSB. While stationed at AS, the nominated students may pursue their Ph.D. thesis research work under the supervision of research scientists from AS, who will officially serve as their External Co-supervisors. The research outcomes performed at AS may be included as a part of their Ph.D. Thesis. The research output is shared by the both institutes.
3. Upon approval of the qualifications of the nominated candidates, the Institute of Physics provides them while stationed at AS research assistantship support in terms of per diem.
4. The Institute of Physics provides the nominated candidates while stationed at AS opportunities to attend international meetings to present their research results.
5. The Ph.D. examination and other formalities are conducted at CUSB according to the current Ph.D. ordinance of CUSB.
6. Upon successful completion of the degree requirements, CUSB confers the official Ph.D. degree, while AS issues certificates in recognition that part of the research has been conducted at AS.
7. The above program includes mutual visits of scientists and faculties of AS and CUSB. These visits include activities such as lectures, seminars, presentations as well as visits to laboratories and other scientific facilities.
8. When new co-operation agreements are made, this Memorandum will be amended and revised accordingly.




CUSB


 Dr. Venktesh Singh
 Professor


 Dr. Lakhwinder Singh
 Assistant Professor


 Prof. Kameshwer Nath Singh
 Vice - Chancellor


 Col. Rajeev Kumar Singh (Retd.)
 Registrar

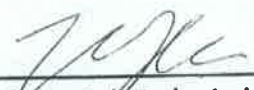

 Prof. Amiya Priyam
 Dean, School of Physical and Chemical Sciences

Address:

Department of Physics
 Central University of South Bihar
 Gaya 824236
 India

AS


 Prof. Henry Tsz-king Wong
 Distinguished Research Fellow


 Prof. Anatoli Fedynitch
 Assistant Research Fellow


 Prof. Chia-Seng Chang
 Research Fellow & Director

Institute of Physics
 Academia Sinica
 Taipei 11529
 Taiwan

Contact Persons:

1. Prof. Venktesh Singh (Tel.: +91-9450874493; Email: Venktesh@cusb.ac.in)
2. Prof. Henry T. Wong (Tel.: 886-2-2789-6789; Email: htwong@phys.sinica.edu.tw)

INDIA NON JUDICIAL
Government of Bihar
e-Stamp



Certificate No. : IN-BR40241520618595U
Certificate Issued Date : 30-Aug-2022 11:08 AM
Account Reference : NONACC (CB)/ brtbscb09/ CHA.IJUBAGH/ BR-PAT/ PTC
Unique Doc. Reference : SUBIN-BRBRTBSCB0963260037384498U
Description of Document : Not Applicable
Property Description : Not Applicable
Consideration Price (Rs.) : 0 (Zero)
First Party : Not Applicable
Second Party : BASU PATNA
Stamp Duty Paid By : BASU PATNA
Stamp Duty Paid (Rs.) : 1,000(One Thousand only)
Reg. fee (Rs.) : 0 (Zero)
I.L.R & P Fee (Rs.) : 0 (Zero)
Miscellaneous Fee (Rs.) : 0 (Zero)
Discore SC (Rs.) : 0 (Zero)
Total Amount (Rs.) : 1,000 (One Thousand only)

Memorandum of Understanding
FOR
COLLABORATION IN TEACHING AND RESEARCH
Between
Central University of South Bihar, Gaya (India)
and

Memorandum of Understanding
FOR COLLABORATION IN TEACHING AND
RESEARCH

Between



Central University of South Bihar, Gaya (India)

and



Bihar Animal Sciences University, Patna, Bihar

Place: Gaya, Bihar

Date:

CL.1 THE PARTIES:

Central University of South Bihar (CUSB), having an expertise in the areas of scientific, technological education and research, established under a special Act of Parliament of Republic of India, incorporated under the Central Universities Act, 2009 having its office at Gaya-824236 (India) as the **FIRST PARTY**.

and

"Bihar Animal Sciences University, Patna, Bihar -800014", here-in-after referred to as **"BASU"**, with a dedicated mandate of teaching, research and extension in Veterinary and its allied subjects having its office located at "Patna, Bihar 800014", as the **Second Party**, for the purpose of exchange of faculty, students and staff for academic, education, research and administrative purposes.

Central University of South Bihar (CUSB) (India) (The **FIRST PARTY**), signed a Memorandum of Understanding with the **"Bihar Animal Sciences University, Patna, Bihar, Patna, Bihar"** (The **SECOND PARTY**), on - 01/09/ 2022. This MoU is signed in view of exploring the possibilities between the parties in terms of research projects, joint organization of seminars, conferences, schools, and training programmes including exchange of faculties, students, professionals, technicians, and academics for mutual benefit of both the institutions. This Memorandum also seeks joint publications by associated researchers and/or faculty members of both institutions. This MoU would give vast opportunities to the Central University of South Bihar, Gaya (India) to mutually collaborate to mutually collaborate with Bihar Animal Sciences University (BASU), Patna (Bihar).

This Memorandum of Understanding (MoU) shall be effective from 01/09/2022, with an objective to establish an affiliation by and between First Party and Second Party.

The aforesaid institutions are here-in-after referred to individually as *institute* and collectively as *institutes*.

CL.2 PREAMBLE/BACKGROUND OF MOU:

WHEREAS, the University Grants Commission (Promotion and Maintenance of Standards of Academic Collaboration between Indian and Foreign Educational Institutions) Regulations, 2016, mandates framing of collaboration policy of the University in consistency thereto.

WHEREAS, the globalization of higher education is providing an ever-growing range of opportunities for engagement with universities and organizations across the globe.

WHEREAS, to create a strong and viable science, research and innovation system for high technology-led path for India as envisaged under the policy of Ministry of Science and Technology(2013), Government of India.

CL.3 GENERAL:

CUSB and "*BASU*" have many areas of common interest in academic, education and research such as **Animal Science and Agricultural Sciences**. Considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research, and administration.

NOW THEREFORE, *CUSB* and "*BASU*" have decided to enter into this Memorandum of Understanding (hereinafter referred to as **MoU**), which defines the framework for the cooperation of the two institutions set out in the following sections.

CL.4 PROPOSED OBJECTIVES AND EXPECTED OUTCOMES:

In consideration of the mutual promises set forth in this MoU, both institutes/organization are agree to the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity. The University shall enter into the Memorandum of Understanding for the following objective(s):

- (i) Promotion of inter-institutional research collaboration, staff and students' training and postgraduate research/Doctoral research/Research projects in cutting edge areas by facilitating scientists, staff and students to seek specialized guidance and facilities from both the Institutes.
- (ii) To promote innovation and entrepreneurship by covering and translating technology into products or processes.
- (iii) To encourage the mobility of experts from academia and *vice-versa*.
- (iv) To device scheme for fostering academia-research-industry partnership.
- (v) To foster resource-optimized, cost-effective innovations for the needs of humanity.

CL.4.1 Faculty/Scientist/Staff Exchanges:

Exchange of faculty/ scientist to the mutual benefit of both institutions shall be done to enrich the educational environment of both institutions through collaboration in teaching, research and development, and consultancy studies in the field of mutual interest with the following objectives:

- (i) To increase educational opportunities through conducting lectures, and undertaking joint research;
- (ii) To jointly publish research paper/article, publish books, monographs, and conference, seminar and workshop proceeding, etc.;

- (iii) Attachment of staff for purposes of curriculum development and review, upgrading of teaching and research skills;
- (iv) Organizing/Participating in seminars, symposiums, summer & winter school(s), and other types of academic discussions;
- (v) Supervising/Co-supervising post graduate student(s);
- (vi) Conducting study tours and joint consultancy work;
- (vii) Running jointly short courses, and break-term programmes;
- (viii) To promote research collaborations through sharing of information, samples, digital records, data, photographs etc.;
- (ix) Jointly propose and engage in research or training programmes sponsored by funding agencies and to exchange on a reciprocal basis researchers and students for limited period;
- (x) To provide both parties with more and better information about each other in order to improve inter-institutional understanding;
- (xi) To mentor the faculty and student for their better academic carrier and future prospects such as providing expertise for establishment of laboratory, library, development of syllabus and new programs, organizing training and workshop.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including travel costs will be borne by the commission of the home institution of the participant and local costs will be borne by the host institution. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

CL.4.2 Student Exchange:

- i) *CUSB* and "*BASU*" agree that student exchange will be guided by principles listed below: A home institution refers to the institution, where a student is a full-time student, and from where he/she is expected to post-graduate. A host institution refers to an institution that receives a student for a brief period of time to undertake a pre-determined programme of study or research.
- ii) Exchange student(s) will be selected by mutual agreement between the institutes.
- iii) Both the institutes agree to provide suitable accommodation and/or living expenses for student exchange.
- iv) To avail travel expenses, students can apply for existing funding programs at their respective home institute".
- v) The exchange student(s) will pay tuition and other fees at their home institution.
- vi) For mentoring purpose exchange student(s) will not pay any kind of fees to the host institution.

- vii) For mentoring purpose host institution will not bear any expense of the student(s). If required, host institution may provide accommodation on payment basis.
- viii) In case of a master/doctoral degree programme, students must have a supervisor of home institution and a co-supervisor for day-to-day basis guiding and monitoring of the student of the host institution, and the student shall submit a single thesis at their home institution.

CL.4.3 Other Areas: (See list in Annexure- V)

- (i) To exchange information on research and educational programs;
- (ii) To exchange information on teaching, learning material and other literature relevant to their educational and research programs;
- (iii) To jointly organize short-term continuing education programs on topics of mutual interest and to invite each other's faculty to participate therein;
- (iv) To organize jointly seminars, conferences, training program or workshops on topics of mutual interest and to invite each other's faculty, student and staff to participate therein;
- (v) To propose and engage jointly in research or training programs sponsored by funding agencies, and to invite each other's faculty, student and staff to participate therein;
- (vi) To exchange, on a reciprocal basis, students at Post-graduate and Doctoral levels for limited periods of time for purpose of education and /or research;
- (vii) The provision of cultural and intellectual enrichment opportunities for staff and students of both institutes;
- (viii) To use laboratory facilities in specific cases for a limited period; and
- (ix) To permit students, staff and faculty members to use library facility *etc.*

CUSB and "**BASU**" agree that detailed terms and conditions that guide each activity identified above will be determined separately and agreed upon by the two institutions. These terms shall include a technical description of the proposed activity, financial arrangements, and person(s) responsible for its implementation.

CL.5 DURATION/VALIDITY/TERMINATION AND RENEWAL:

The Memorandum shall remain in force for a period of Five (05) years commencing from effective date. However, this period may vary from area of collaboration and collaborative programmes. Institutions may extend the term by written agreement signed by both after review.

Any MoU between **CUSB** and any other International or National Higher Education Institution may at any time during its period of validity, be terminated by one of the parties upon prior notice to the other party in writing not later than six months before the termination date. Once terminated, neither **CUSB** nor

"BASU" will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, *CUSB* and "BASU" will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion. The collaboration renewal will be initiated six months earlier and must renew before the date of termination.

CL.6 AMENDMENTS/MODIFICATIONS:

This MoU may be amended or modified by a written agreement signed by the ... representatives or concern persons of both the institutes.

CL.7 IMPLEMENTATION AND MONITORING:

The parties shall on a regular basis, keep each other informed of and consult on procedure; progress and objective achieve or planned.

The parties shall set specific timeline beforehand and establish manner of monitoring and review of the execution of the area of cooperation and its objectives.

For proper implementation of all criteria and timely completion of the agreed objectives, the CUSB may constitute a monitoring committee. The monitoring committee will review the annual progress of the collaboration and give suggestions if required. However, both parties will arrange six monthly mutual meeting to discuss the proper implementation and goal(s) achieved during that period. The CUSB monitoring committee will consist of the following members:

1. HoD Life Science as Chairperson,
2. The Registrar CUSB as Member,
3. Contact person of the MoU from "**SHORT NAME**" side,
4. A person from the Development Section (If required, Member), and
5. A person from the Finance Section (If required, Member).

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of *CUSB* and a programme coordinator from the side of "BASU" will periodically review and identify ways to strengthen cooperation between the two institutions.

The parties may with the mutual consent further extend the duration of collaboration.

CL. 8. FINANCIAL OBLIGATION:

For carrying out the collaboration objectives; both the party shall bear all the financial obligations in its respective campus, whether it is about instrument or

animal or chemical. However, in case of individual visit of the faculty(ies) or researcher(s) from both the campus of First Party to Second Party or Vice versa; both the party shall provide local hospitality. With regard to mutually agreed activities the financial obligation shall be determined with consensus of both the parties.

CL.8 CONFIDENTIALITY:

For reasons of sensitivity, the privacy of the individuals or the interests of the 'CUSB'; and 'BASU' Agreement of MoU shall be executed in principles of confidentiality. Both the parties shall abide with the rule of confidentiality and no data or information acquired by any parties of the MoU shall be shared with any third party without taking prior consent of the respective party. However, both the parties shall provide necessary assistance to each other in execution of this MoU. If any data is developed in the course of joint research both will have the joint ownership and with consensus of each other its commercial or industrial exploitation shall be carried out.

CL. 9 INTELLECTUAL PROPERTY RIGHTS:

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum and cannot be shared with third party unilaterally.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

Any publication regarding such intellectual property shall only be processes with the prior written consent of both institutes. However, such consent not to be unreasonably withheld.

CUSB and BASU shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, and publication purposes without the payment of royalties or other fees to the other party.

CL. 10 ARBITRATION CLAUSE/LEGAL LIABILITY CLAUSE:

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions. Nothing in this Memorandum shall be construed as

creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

In case, there shall be a dispute/differences of opinion relating to any aspect of academic, research and administrative cooperation, Concerned Registrar of the **CUSB** and counterpart of the "**BASU**" will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

CUSB and "**BASU**" welcome the establishment of this Memorandum for cooperation and jointly agree to the provisions as set out above.

CL.11 SIGNING AUTHORITY:

CUSB and "**SHORT NAME**" welcome the establishment of this Memorandum for cooperation and jointly agree to the provisions as set out above.

**Central University of South
Bihar, Gaya (India)**

**Bihar Animal Sciences
University, Patna, Bihar
(India)**

R. Singh 01.09.2022
Registrar

Central University of South Bihar,
Gaya (India)

J. K. Prasad 01-09-22
Director Research (J.K. Prasad)

Bihar Animal Sciences
University, Patna, Bihar (India)

कुलसचिव / Registrar
दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Witness Central University of South Bihar

Director Research
Bihar Animal Sciences University, Patna-14

Witness

1. *R. Singh*

1. *Ayazuddin Sami*
01/09/2022

2. *Dejan*

2. *Sanjay Kumar*
01/09/2022



**MEMORANDUM
OF
UNDERSTANDING
BETWEEN**



**CENTRAL UNIVERSITY OF SOUTH BIHAR,
GAYA**

AND



**RESEARCH FOR RESURGENCE FOUNDATION,
NAGPUR**

**RESEARCH FOR RESURGENCE FOUNDATION,
NAGPUR**

[Signature]
23.10.18

[Signature]
23.10.18 OF 10

MEMORANDUM OF UNDERSTANDING
BETWEEN
RESEARCH FOR RESURGENCE FOUNDATION, NAGPUR
AND
CENTRAL UNIVERSITY OF SOUTH BIHAR, GAYA
FOR
ESTABLISHMENT
OF
RESEARCH FOR RESURGENCE OUTREACH CENTRE

(October 23, 2018 आश्विन शुक्ल १४, विक्रम संवत् २०७५)

This Memorandum of Understanding (MoU) is made and executed at Gaya on this 23 day of **October**, of the year 2018 which is (आश्विन शुक्ल १४, विक्रम संवत् २०७५) by and between:

1. **Research for Resurgence Foundation**, Sheshadri Sadan, Tulsibaug Road, Mahal, Nagpur, Maharashtra-440032 (Bharat) (*Hereinafter referred as RFR Foundation*)

[Signature]
23.10.18

[Signature]
23.10.18

founded by voluntary organization Bharatiya Shikshan Mandal by or repugnant to the subject shall mean and include its successors and assigns.

AND

2. **Central University of South Bihar**, SH-7, Gaya Panchanpur Road, Village – Karhara, Post. Fatehpur, Gaya – 824236 (Bihar) (*Hereinafter referred as CUSB*)

RFR Foundation and **CUSB** are referred to individually as a “**Party**” and collectively as “**Parties**”. Both Parties have reached the following intent to collaboration as per below described articles of this MOU.

ARTICLE 1: BACKGROUND AND PURPOSE

- 1.1.1. Research for Resurgence Foundation is founded by voluntary organization Bharatiya Shikshan Mandal (hereinafter referred as RFR Foundation). The core objective of RFR Foundation is to bring paradigm shift in research outcome, research methodology and innovation based technologies, ensuring Bharatiya perspective, philosophy and applicability.
- 1.1.2. The RFR Foundation has functional dimensions to strengthen and synchronize Research, Researchers, Resources and Reach.
- 1.1.3. The RFR Foundation is a multi-domain Research Institute and a network hub of research and allied activities in academics and industrial sector.

AND

- 1.2.1. Central University of South Bihar, Gaya (hereinafter referred as CUSB) was established under the Central Universities Act, 2009 (Section 25 of 2009) as Central University of Bihar (CUB) and the name since changed by the Central Universities (Amendment) Act, 2014 to the present one.
- 1.2.2. The objectives of CUSB are to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit; to make special provision for integrated courses in humanities, social

sciences, science and technology in its educational programmes; to take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research; to educate and train manpower for the development of the country; to establish linkages with industries for the promotion of science and technology; and to pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.

1.1 Purpose:

RFR Foundation and CUSB are interested in working together with mutual collaboration to give each other's strengths in research and facilities thereof, will mutually benefit the students and faculties for nurturing the research, innovation and creativity among students. Now therefore the parties hereto have agreed to enter into a memorandum of understanding considering the long term benefits of sharing the knowledge and resources between the institute and establish a strong academic collaboration, by undertaking joint responsibilities and activities in their respective field of excellence, research, resources, knowledge and human described in the article 2 of this MOU as area of collaboration.

ARTICLE 2: AREAS OF COLLABORATION

The parties hereby agree to work collaboratively on following points for the effective and efficient engagement by fulfilling the purpose of this MoU towards strengthening and streamlining research in scientific and technology development, innovation and entrepreneurship ecosystem in Bharat. The mutually agreed **activities** by and between the parties are as under:

1. The responsibilities and work for CUSB:

1.1. Setting-up functional RFR foundation extension centre in academic campus for

1.1.1. Awareness, publicity & accessibility for RFR foundation work, facilities and opportunities.

1.1.2. Awareness, publicity & accessibility for research activities, programs, Seminar, workshops, conferences and like to be jointly organized.

alys
23.10.18

Patil
23.10.18

- 1.1.3. Philosophical acceptance and responsibility towards concept of 'Renaissance'.
- 1.1.4. Monitoring, execution and evaluation of parameter/s of research applicability for nation / society / local requirement, incorporation of Bharatiya methodology and references in various programs at institutional level including Ph.D., M.Phil., Post-Graduation, Under Graduation research projects and research methodology program.
- 1.1.5. Establishing platform for converting strength & excellence in terms of infrastructure and human resource for betterment of educational systems across world.
- 1.2. To organize national, international events, program at mutually agreed interval.
- 1.3. To provide infrastructure, academic & technical Support in various activities organized by RFR Foundation, subject to availability.
- 1.4. Promote and support student(s), faculty(s) exchange programs.
- 1.5. Maintain respect and dignity among other Academic associates and Industrial associates of RFR Foundation.
- 1.6. Active participation in associate members' annual meetings organized by RFR Foundation.
- 1.7. To recognize RFRF as workplace for research including PhD studies and post-doctoral research.
- 1.8. To recognize RFRF faculties as adjunct faculties (Associate Professor, Professor) of the university.

2. The responsibilities and work for RFR Foundation:

- 2.1. To provide Title "Academic Associate"& its certification to CUSB.
- 2.2. To provide access to knowledge resource centre of RFR Foundation.
- 2.3. To facilitate CUSB for industry-academia, academia-academia collaborations at national & international level.
- 2.4. To provide support in conduction of Refresher Courses, Orientation courses, Research methodology programs and faculty development program.
- 2.5. Promotion of Research Activities in common interest area.

- 2.6. Privileged invitation for event(s) / program(s) organized by RFR foundation and Bharatiya Shikshan Mandal (limited number of guests).
- 2.7. Display and information about facilities and opportunities at CUSB in the reception gallery at foundation.
- 2.8. Two nominations (incumbent authorities) in *Samanvay Sabha* for associates.
- 2.9. Support in execution, monitoring and evaluation process of various research activities.
- 2.10. Access and usage of knowledge resource centre, infrastructural facilities such as convention centre at special 'Academic Associates' discounted charges.
- 2.11. The facilities for students and faculties at concessional charges.
- 2.12. Consultation, unbiased evolution of various educational processes as RFR foundation Academic & Administrative Audit program.
- 2.13. Information and invitation for research events conducted by other associate members for associates' network.

ARTICLE 3: CO-ORDINATION AND NODAL OFFICER


Both entities shall mutually decide and designate a nodal officer. The nodal officer will have responsibility for fulfilling the objectives of this agreement and also will carry out all activities mutually agreed by the parties.

ARTICLE 4: SCOPE

The Parties acknowledge and agree that the Areas of Collaboration are not exhaustive in nature and the Parties shall in good faith, negotiate to elaborate upon the Areas of Collaboration, including additional areas of collaboration as may be mutually agreed and the rights, responsibilities and obligations of each Party in relation to each of the Areas of Collaboration. The Parties may, from time to time, execute addenda or modifications to this MOU to incorporate such additional scope of collaboration or discussions in accordance with Clause 6.3.

ARTICLE 5: DURATION

This MOU shall be valid after its signature from the date of signing till for **FIVE** years. The Parties may further extend the MOU with mutual written consent, in order to


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ensure continuous inputs regarding in light of changing trends and environment in the area of collaboration for this MOU. As part of subsequent extensions the Parties may agree to make amendment in the MOU.

ARTICLE 6: TERMS

6.1 Finance

Both Parties shall be responsible to carry out the activities under the area of collaboration and New Project, Program, Conference, Seminar, Workshops and like which is co-designed/ organized by both of the parties. The financial arrangements wherever involved will be decided and approved after mutual consent and shall be agreed to for each activity individually on resource deployment, arrangements and mobilization will be planned vis-a-vis.

6.2 Assignment

Neither of the Parties shall assign any of their duties under this MOU to any other person or institution without prior approval of other party. A specific agreement will be entered into for each activity.

6.3 Amendments

No alterations, additions or modification hereto shall be valid and binding unless the same are reduced to writing and signed by both the Parties.

6.4 Non-Exclusive Discussions

The Parties acknowledge and agree that the Areas of Collaboration under this MOU are being undertaken on a non-exclusive basis and either Party shall be free to enter into or consummate transactions similar to the Areas of Collaboration with other parties in Bharat or elsewhere.

6.5 Confidentiality and Public Announcement:

6.5.1. "Confidential Information" means the confidential, proprietary, and trade secret information of the disclosing party to be disclosed by the disclosing party under this MOU, and comprises (a) information in tangible form that:

(a) (1) bears a Confidentiality Legend, or (2) does not bear any Confidentiality Legend, if the receiving party knew, or reasonably should have known under the circumstances, that the information was confidential and had been communicated to it in confidence, and (b) discussions about that information that may occur before, at the same time, or after disclosure of the information. This MOU and all confidential information exchanged between the Parties pursuant to this MOU shall be held in confidence.

6.5.2. Neither Party nor any of the affiliates shall make any public announcement about the MOU and /or the scope of proposed engagement, without the prior written consent of the other Party. Any public announcement so made, shall be as outlined in the Article 2 of this MOU.

6.6 License and Intellectual Property Rights

6.6.1. No license is granted under this MOU to either Party under any of the other Party's intellectual property rights, either expressly, by implication, inducement, estoppel or otherwise. Both Parties understand and acknowledge that grant of any such license shall always be express and in writing.

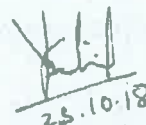
6.6.2. Both parties will take all necessary steps to protect the knowledge documents and intellectual Properties generated during the process or shared by the parties.

6.7. Conflict of Interest

Neither of the parties believes that the Collaboration contemplated by this MOU raise any actual or potential conflicts of interest. The parties agree that this MOU and the negotiation of the same (and any other agreements entered into in connection herewith) are independent of any past, present or potential future arrangements, and are not connected to an existing business relationship between either of the parties.

ARTICLE 7: TERMINATION

7.1 This MOU shall also terminate without liability to either party if otherwise agreed to by the Parties in writing with a notice period of 1 month.


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7.2 Survival and binding Nature

- 7.2.1. Except for Clause 6 (Terms), Cause 7 (Termination) and 9 (Dispute Settlement) of this MOU, nothing contained in this MOU is intended to be or shall be construed in any way to be legally binding on any of the Parties.
- 7.2.2. Except as set forth elsewhere in this MOU, Clause 6 (Terms), Cause 7 (Termination), 9 (Dispute Settlement) shall survive the expiry or termination of this MOU.

ARTICLE 8: DISPUTE

SETTLEMENT 8.1 Governing Law and Jurisdiction

- 8.1.1. This MOU shall be governed by and construed in accordance with the laws of Republic of Bharat. All disputes arising out of or related to this MOU, including without limitation all matters connected with its performance, will be governed by, and construed and interpreted under the laws of Bharat, without reference to conflict of laws principles.
- 8.1.2. All disputes and differences arising out of or in connection with this MOU shall be the first instance referred to arbitration by three (3) arbitrators, jointly appointed by Parties. The decision and award determined by such arbitration will be final and binding upon the Parties. The arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996, as may be in force from time to time. The arbitration proceedings will be conducted in Hindi, English or any Bharatiya Language and the seat of arbitration will be New Delhi.

8.2 Notices

All communications hereunder shall be in writing and shall be deemed given if delivered personally or mailed by registered or certified mail (return receipt requested) to the Parties at the address specified below:

If to RFR Foundation:

Attention of: Secretary,

Address: Research for Resurgence Foundation, Sheshadri Sadan, Tulsibaug Road, Mahal,

[Signature]
23/10/18

[Signature]
23/10/18

Nagpur, Maharashtra-440032 (Bharat)

Phone: +91 712 2721322, 8275282541, 9822745768, 9823912580

Email: info@rfrfoundation.org, rfrbharat@gmail.com Website: www.rfrfoundation.org

It to CUSB:

Attention of: Registrar

Address: Central University of South Bihar, SH-7, Gaya Panchanpur Road, Village -
Karhara, Post. Fatehpur, Gaya - 824236 (Bihar)

In witness whereof the parties hereto have signed, sealed and delivered this
agreement on **23, October, 2018** above written in presence of:

For,

Bharatiya Shikshan Mandal's

Research for Resurgence Foundation, Nagpur

Central University of South Bihar,

Gaya

Sign

Name: DR. O.P. SINGH

Designation: Joint General Secretary

Sign

Name: Gayathri Vishwanath Puri

Designation: Registrar

कुलसचिव / Registrar

दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

Witnessed by:

Sign

Name: Mukul Kanitkar

Designation: Trustee

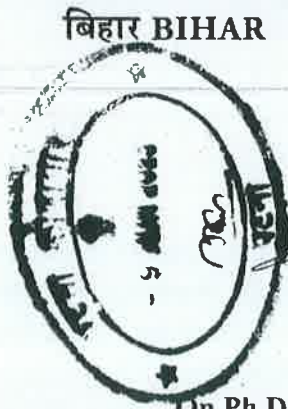
RFRF

Sign

Name: Prof. O.P. Rai

Designation: Pro-vice-chancellor





क्रमांक 6473 तारीख 16/6/2023 रु. 1000/- प्राप्त वास्तो 18/7/23 AU 403861

कोता का नाम व पता...
कुशला प्रसाद वर्मा
स्टाम्प भण्डार ला0 नं0-1/1978
व्यवहार न्यायालय, गाँवकाट, पटना-

Memorandum of Understanding

On Ph.D. Students registration, Research, Academia, Education, and Exchange of Faculty Purposes

Between



Central University of South Bihar, Gaya (India)

and

ICMR

ICMR-Bajendra Memorial Research Institute of Medical Sciences, Patna (India)

Place: Gaya, Bihar, India

Date: 01 July, 2023

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CL. 1 THE PARTIES:

Central University of South Bihar (CUSB), Gaya (India) signed a Memorandum of Understanding (MoU) with the **ICMR-Rajendra Memorial Research Institute of Medical Sciences (ICMR-RMRIMS)**, Patna on 01/07/2023 in view of exploring the possibilities between the parties in terms of collaborative research, education, exchange of faculties, students, professionals, and academics for mutual benefit of both the institutions. This MoU would give vast opportunities for Central University of South Bihar, Gaya (India) to mutually collaborate with one of the most prominent international/ national institutions of the country.

This MoU is effective from 01/07/2023 to establish an affiliation by and between **Central University of South Bihar, Gaya (India)** having an expertise in the areas of scientific, technological education and research, established under a special Act of Parliament of Republic of India, incorporated under the Central Universities Act, 2009 having its office at Gaya, Bihar - 824236 (India) hereinafter referred as **CUSB**, the FIRST PARTY,

and

Rajendra Memorial Research Institute of Medical Sciences, a premier research institution of Indian Council of Medical Research under aegis of Department of Health Research, Ministry of Health & Family Welfare, Govt. of India, having its office located at Agamkuan, Patna, Bihar - 800007 (India) hereinafter referred to as **ICMR-RMRIMS**, the SECOND PARTY.

The aforesaid institutions are hereinafter referred to individually as *institute* and collectively as *institutes*.

CL.2 PREAMBLE/BACKGROUND OF MOU:

WHEREAS, the University Grants Commission (Promotion and Maintenance of Standards of Academic Collaboration between Indian and Foreign Educational Institutions) Regulations, 2016, mandates framing of collaboration policy of the University in consistency thereto.

WHEREAS, the globalization of higher education is providing an ever-growing range of opportunities for engagement with universities and organizations across the globe.

WHEREAS, to create a strong and viable science, research and innovation system for high technology-led path for India as envisaged under the policy of Ministry of Science and Technology (2013), Government of India.

CL.3 GENERAL:

CUSB and **ICMR-RMRIMS** have many areas of common interest in academic, education and research. Considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research

NOW THEREFORE, **CUSB** and **ICMR-RMRIMS** have decided to enter into this Memorandum of Understanding based on the minutes (enclosed) of the meeting resolution held by the Committee Members of CUSB and ICMR-RMRIMS (here-in-after referred to as **MoU**), which defines the framework for the cooperation of the two institutions set out in the following sections.

CL.4 PROPOSED OBJECTIVES AND EXPECTED OUTCOMES:

In consideration of the mutual promises set forth in this MoU, both institutes/ organizations agree to the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity. The objectives of the MoU are offto prioritize the inclusive growth of the society and combing priorities of excellence and relevance.

- i. To promote innovation and entrepreneurship by covering and translating technology into products or processes.
- ii. To encourage the mobility of experts from academia and *vice-versa*.
- iii. To foster resource-optimized, cost-effective innovations in the field of tropical diseases including Kala-azar.

CL.4.1 Faculty/Scientist Exchanges:

CUSB and **ICMR-RMRIMS** agree to enrich the research and educational environment of both the institutions through collaboration in teaching, research and development in the field of mutual interest. Activities under this head will include:

- i. Exchange of academic information/materials on research and education programmes, teaching and learning etc.;
- ii. Jointly organizing/Participating in seminars, symposiums, trainings and other types of academic discussions of mutual interest;
- iii. Develop joint research proposals and undertake collaborative research in the field of mutual interest;
- iv. Principal Investigator/Co-Principal Investigator/Mentor in the collaborative research projects shall be decided on mutual understanding during development of such proposals;
- v. Exchange of research components, equipment, knowledge resources, samples, digital records, data, photographs etc, after proper approval from competent authority;
- vi. Facilitating access to the respective field areas, libraries, laboratories;

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A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration. For each visit or an assignment or such exchange, including those concerning salary, travel funding, health insurance, and housing will be borne by the each party from the own resources, worked out between the institutes on a mutual basis. A separate agreement will be entered into giving such details including terms of exchange of any intellectual property.

CL 4.2 Student Exchange:

CUSB and ICMR-RMRIMS agree that student exchange will be guided by principles listed below:

The home institution refers to the institution "A", where a student is a full-time student and the host institution refers to an institution "B" that receives a student to undertake a predetermined programme of study or research.

- i. **Ph.D. registration:** In light of UGC letter no. F. No. 14-4/2016(PS) dated 25th July, 2016 and CUSB Ph.D. ordinance, ICMR-RMRIMS research scientist/faculty may act as co-supervisor for Ph.D. students of ICMR-RMRIMS. The Ph.D. students enrolled in CUSB would be required to use expertise/facilities or biological samples on a regular basis from ICMR-RMRIMS may also need to include a co-supervisor from the respective department of ICMR-RMRIMS.
- ii. Admission and other requirements including completion of course work shall be governed by the CUSB Ph.D. ordinance.
- iii. Exchange student(s) will be selected by mutual agreement between the "A" and the "B".
- iv. An exchange student(s) will continue to be treated as full-time student at his/her home institution "A".
- v. An exchange student(s) will be considered as a full-time "exchange" student at the host institution "B".
- vi. His/her programme of study at the host institution "B" will be determined by mutual consultation between his/her academic advisor(s) at the home institution "A" and his/her "interim" academic advisor(s) identified by the host institution "B".
- vii. If an exchange student(s) has/have undertaken research, then the host institution "B" will evaluate the exchange student's performance in the research, and issue a letter to that effect, together with a technical "report" of the research carried out.
- viii. If an exchange student(s) has/have undertaken research, then the home institution "A" will take note of the performance evaluation and the technical "report", and take steps in accordance with its own procedures.
- ix. The exchange student(s) will pay tuition and other fees at their home institution "A".
- x. For mentoring purposes exchange student(s) will not pay any kind of fees to the host institution "B". However, charges if any, to use any specific equipment/facility or to attend training programs/workshops etc. at Institution "B" will be met by the faculty/student of CUSB from Fellowship, Contingency, and other fees head.
- xi. For mentoring purposes, host institution "B" will not bear any expense of the student(s).

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- xii. Priority will be given to CUSB students to pursue summer training/six month projects for which the required fee, if any, shall be paid by applicant at ICMR-RMRIMS.
- xiii. In case of a doctoral degree programme, students must have a supervisor of CUSB and a co-supervisor of ICMR-RMRIMS for day-to-day guiding and monitoring of the student, and the student shall submit a single thesis at CUSB.

CL.4.3 Other Areas:

- i. In order to promote collaborative research, it is encouraged to apply for joint extra-mural and intramural funding considering the expertise of investigators. In such proposals there will be an allocation of separate budget for each institute. ICMR-RMRIMS, being a medical research oriented institute shall assist in the collection of medical related samples.
- ii. The representatives from CUSB and ICMR-RMRIMS agreed to share the resources available in respective institutes for research and teaching purpose as per mutual understanding.
- iii. Sharing of expertise to establish/ uplift the infrastructure

CUSB and **ICMR-RMRIMS** agree that detailed terms and conditions that guide each activity identified above will be determined separately and agreed upon by the two institutions. These terms shall include a technical description of the proposed activity, financial arrangements, and person(s) responsible for its implementation.

CL.5 DURATION/ VALIDITY/ TERMINATION AND RENEWAL:

The Memorandum shall remain in force for a period of Five (05) years commencing from effective date. However, this period may be reviews as and when for the collaboration and collaborative programmes is required. Institutions may extend the term by written agreement signed by both the parties after review.

This MoU between CUSB and ICMR-RMRIMS may at any time during its period of validity, be terminated by one of the parties upon prior notice to the other party in writing not later than six months before the termination date. Once terminated, neither **CUSB** nor **ICMR-RMRIMS** shall be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, **CUSB** and **ICMR-RMRIMS** will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

The collaboration renewal will be initiated six months earlier and may be renewed before the date of termination.

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CL.6 AMENDMENTS/ MODIFICATIONS:

This MoU may be amended or modified by a written agreement signed by the representatives or authorized persons of both institutes.

CL.7 IMPLEMENTATION AND MONITORING:

The parties shall on a regular basis, keep each other informed of and consult on procedure, progress and objective achieved or planned.

The parties shall set a specific timeline beforehand and establish a manner of monitoring and review of the execution of the area of cooperation and its objectives.

For proper implementation of all criteria and agreed objectives, the CUSB and ICMR-RMRIMS may constitute a Joint Monitoring committee. The monitoring committee will review the annual progress of the collaboration and give suggestions if required. However, both parties will arrange six monthly mutual meetings to discuss the proper implementation and goal(s) achieved during that period. The CUSB monitoring committee will consist of the following members:

1. **Vice-Chancellor, CUSB or its nominees as Chairperson**
2. **Director, ICMR-RMRIMS or its nominee as Co-Chairperson**
3. Registrar or its nominee (Member).
4. Two officials from the Development Section, one from each side (Member), and
5. Two officials from the Finance Section, one from each side (Member).

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of **CUSB** and a programme coordinator from the side of **ICMR-RMRIMS** will periodically review and identify ways to strengthen cooperation between the two institutions.

The parties may with the mutual consent further extend the duration of collaboration.

CL.8 CONFIDENTIALITY:

For reasons of sensitivity, the privacy of the individuals or the interests of the CUSB and ICMR-RMRIMS, Agreement of MoU needs to enter into the undertaking of confidentiality. Before any assurances of confidentiality provided to a SECOND PARTY or vice-versa, the legal situation of ethical compliance must be examined by the Registrar, CUSB and Director, ICMR-RMRIMS. The confidentiality of such Memoranda must be finally determined by the Registrar on advice from the respective Dean/Head of the School/Department taking into account the CUSB's obligations under the current Indian legislations.

CL. 9 INTELLECTUAL PROPERTY RIGHTS:

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum and cannot be shared with third party unilaterally.

Knowledge or technology developed, which can result in commercialization potential would be IPR protected and filed jointly by both the institutes. ICMR shall be responsible for joint filing and licensing any I.P. coming out from the MoU through joint development.

Important research findings arising out of the activities covered under this MoU may be published in/presented at national and international Journals/Conferences jointly with the mutual consent of collaborators.

The expenses involved in protecting the IPR shall be borne jointly by both organizations. Any IPR/copyright originated from collaborative work between CUSB and ICMR-RMRIMS will be equally-shared by both institutes. Neither party shall reveal intellectual property to any other third party without the prior written concurrence of the second party.

However, the revenue generated will be shared on pre-agreed terms between the parties. Any issue relating to this will be resolved by representatives from both the institutes.

CL. 10 ARBITRATION CLAUSE/ LEGAL LIABILITY CLAUSE:

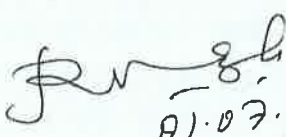
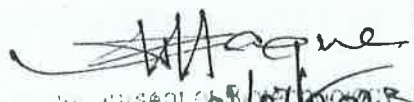
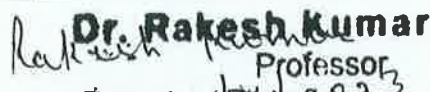

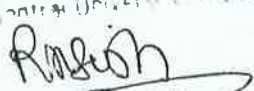
Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the country and rules and regulations of the institutions.

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

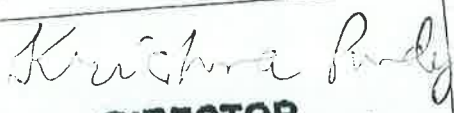
In case, there be a dispute/differences of opinion relating to any aspect of academic, research and administrative cooperation, Concerned faculty/Head/Dean/Director/Registrar/Vice-Chancellor of the, **CUSB** and counterpart(s) of the **ICMR-RMRIMS** will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

CL.11 SIGNING AUTHORITY:

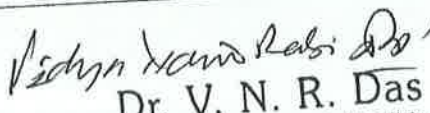
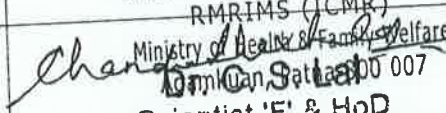
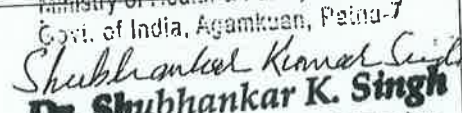
CUSB and ICMR-RMRIMS welcome the establishment of this Memorandum for cooperation and jointly agree to the provisions as set out above.

MoU signatory Authority Name & Designation	Duly full Signature with date & Stamp	Initial
Col. R K Singh Registrar, CUSB	 01.07.2023 कुलसचिव/Registrar दक्षिण बिहार केन्द्रीय विश्वविद्यालय	RKS
Liaising Authority Name & Designation	Duly full Signature with date & Stamp	Initial
Prof. Rizwanul Haque Dept. of Biotechnology	 01/07/2023 Central University of South Bihar	RH
WITNESS	Duly full Signature with date & Stamp	Initial
Prof. Rakesh Kumar Dept. of Biotechnology	 Dr. Rakesh Kumar Professor Dept. of Biotechnology Central Univ. of South Bihar Gaya (CUSB Gaya)	Rakesh
Dr. Asheesh Shanker Head, Dept. of Bioinformatics	 01/07/2023 Department of Bioinformatics Central University of South Bihar	Asheesh
Dr. Ram Pratap Singh Head, Dept. of Life Science	 01/07/23 Department of Life Science Central University of South Bihar	RPS

ICMR-RMRIMS (Second Party-B)

MoU signatory Authority Name & Designation	Duly full Signature with date & Stamp	Initial
Dr. Krishna Pandey Director	 DIRECTOR ICMR-Rajendra Memorial Research Institute of Medical Sciences, Agamkuan, Patna-800007	K P

Liaising Authority Name & Designation	Duly full Signature with date & Stamp	Initial
Dr. Vahab-Ali Scientist-F, Dept. of Biochemistry	 Dr. Vahab-Ali Head & Scientist-F Dept. of Biochemistry ICMR-RMRIMS, Agamkuan, Patna-800007	VA

WITNESS	Duly full Signature with date & Stamp	Initial
Dr. Vidya Nand Rabi Das Scientist-G, Dept. of Clinical Medicine	 Dr. V. N. R. Das Scientist-G Deptt. of Clinical Medicine RMRIMS (ICMR) Ministry of Health & Family Welfare Agamkuan, Patna-800007	VR
Dr. Chandra Shekhar Lal Scientist-F, Dept. of Biochemistry	 Dr. Chandra Shekhar Lal Scientist 'F' & HoD ICMR-RMRI of Medical Sciences Ministry of Health & Family Welfare, Govt. of India, Agamkuan, Patna-7	CS
Dr. Shubhankar Kumar Singh Scientist-E, Dept. of Microbiology	 Dr. Shubhankar K. Singh Scientist 'E' / Deputy Director ICMR-RMRIMS, Patna-7	SKS



बिहार BIHAR

12/10/22

No-16014-10001

Vivek Dabey s/o Sushil Dabey Department of

AP 80846

Pharmacy Central University of South Bihar

Gaya, Bihar

(M.O. 01)

किशोरी प्रसाद उपखाने

मुद्रांक विक्रेता, गया

ला० न० 95/93

MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding (MoU) is made and executed onat
Gaya

BETWEEN

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH (NIPER), Hajipur, through Dr. V. Ravichandiran (Director, Additional charge), hereinafter referred to as NIPER-Hajipur [which expression shall unless it be repugnant to the context or meaning thereof shall include the successor in title and assigns] of the **FIRST PART**

AND

CENTRAL UNIVERSITY OF SOUTH BIHAR, GAYA (hereinafter referred to as 'CUSB'). The CUSB, Gaya has its Vice-Chancellor place at Gaya - 824236 for promoting and conducting research and development among others in the area of Pharmaceutical Research and/or Life Science Research.

2018

Duly received
original copy from
enrollment section

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The ultimate mission of the Institute is to transfer the technology at the ground level in terms of diagnosis, treatment and control of the disease of the **SECOND PART**

And

Whereas the Director, NIPER, Hajipur and Vice-Chancellor of **CUSB, Gaya**, for allowing Ph.D. scholars and PG students of both institutes to do their research activity at **CUSB, Gaya** under the guidance of researchers of both institutes.

FOR COLLABORATIVE RESEARCH

This **MoU** sets down the mutually agreed broad framework for joint research and incorporates the modalities for collaboration.

1. PREAMBLE:

- 1.1. **NIPER-Hajipur**, Department of Pharmaceuticals (DoP), Ministry of Chemicals and Fertilizers, Govt. of India, functioning at Industrial Area Hajipur-844102-Bihar, India, hereby represented by its Director, is one of the first kind of Pharmaceutical Education and Research Institute in Bihar. The institute is fully residential for the students, enriched with world-class facilities and is empowered with a young dynamic faculty and staff.
- 1.2. **Central University of South Bihar, Gaya** (hereinafter to be referred to as **CUSB, Gaya**) specialized M. Pharm. and Ph.D courses in Life Sciences/Pharmacy in Gaya, Bihar.
- 1.3. The activities of **NIPER-Hajipur** and **CUSB, Gaya** are in several ways complementary. It is therefore felt that initiating collaborative research programmes would be of considerable mutual benefit.

2. PURPOSE:

- 1.1 **NIPER-Hajipur** and **CUSB, Gaya** desire to implement, in the areas of mutual interest, cooperative and collaborative activities, which would address multidisciplinary scientific, technological and educational problems in the area of parasitic and viral diseases, cardiovascular diseases which are relevant to the interest of the country. This is facilitated by the instrument of this **MoU** as follows:

ARTICLE - 1

Consistent with the goals and purpose of the collaboration, **NIPER-Hajipur** and **CUSB, Gaya** propose to initiate a joint multidisciplinary research initiative in the area of diagnosis and therapeutics, to begin in the area given below.

Environmental poisoning, new drug developments, immunology, Pathology, Biochemistry and Social Science to promote scientific activities between the two organizations.

ARTICLE - 2

- a) **For Student Project:** A faculty/scientist from CUSB, Gaya or NIPER, Hajipur can guide the project work of MS (Pharm.)/M.Pharm or MSc, students of **NIPER-Hajipur or CUSB, Gaya** respectively as External Supervisor for a period of 10-12 Months and also guide as Co-supervisor for **Ph.D. scholar** (period 3-5 years) of NIPER-Hajipur or CUSB, Gaya and with prior approval of the concerned authority of CUSB, Gaya and NIPER-Hajipur
- b) **Exchange in Research:** Exchange of information and co-operation in research and developments including exchange of research materials, publication and reports.
- c) As per "**Plan of Revenue Generation**" recently stressed for in its institutes by Dept. of Health Research, GOI, it is proposed that any activities related to collaborative research work viz: Human/Animal, Ethical approval, use laboratory classes are taken by faculties of **CUSB, Gaya or NIPER, Hajipur**, use of lab instrumentation facilities etc. shall be provided/ permitted for **NIPER Hajipur or CUSB, Gaya** students, only one payment basis. Educational and research work at **CUSB, Gaya or NIPER, Hajipur** by the students/Ph.D. scholars of other institutes have not remained free, but they have to pay for availing facilities. The detail of the current fee structure is as follows:

- I. **For Ethical approval:** As per the current fee structure of the Animal Ethics Committee, 2000/ per New Project is applicable. This will be vice - versa
The above fee structure will be effective after the signing of MoU. As the lump sum, ethics committee fee on annual basis is conducted, no special meeting for project review/discussion will be conducted. The projects/amendments/ notifications shall only be considered during the scheduled IAEC meeting,
All the fees/charges will be payable in favour of the **Director, NIPER Hajipur/ CUSB, Gaya**.
- II. **Laboratory facility fees:** Rs. 10,000 per student shall be charged for use of laboratory facility (Period: between 1 month to 12 months duration, as applicable). It will be vice-versa.
- III. **Remuneration for lecture classes to scientists/Faculty:** Rs. 2,000 per class/period to be held either at CUSB, Gaya or at NIPER, Hajipur. This amount shall be directly credited to the bank A/C of the faculties at the earliest, subject to tds if applicable.
- IV. Due to negligence/carelessness of students of NIPER, Hajipur or CUSB, Gaya if any instrument in the laboratory is damaged and reported by the concerned guide for the same, the party shall to pay for the cost of repair of damaged items. .
- V. Consumables, Chemicals and plastic-ware for research works at NIPER or CUSB, Gaya students shall be provided by NIPER-CUSB for their research works.
- VI. Hostel facilities for girl's students shall may be provided by either party (as per requirement and will be on a payment basis from students).

ARTICLE - 3**INTELLECTUAL PROPERTY:**

- a) Important research findings arising out of the activities covered under this MoU may be published in/presented at national and international Journals/Conferences jointly with the mutual consent of collaborators. Knowledge or technology developed, which can be resulted in commercialization potential would be IPR protected and filed jointly by both the institutes. The expenses involved in protecting the IPR shall be borne jointly by both organizations. Neither party shall reveal intellectual property belonging to the other to any third party without the prior written concurrence of the second party.
- b) Any returns arising of commercialization of the Intellectual Property generated out of the R&D programmes undertaken under this MoU, will be shared in proportion to be decided mutually by both the parties, on a case-to-case basis and through the exchange of letters.
- c) Both parties shall abide by the Government Rules as applicable time-to-time."

ARTICLE - 4**NON-EXCLUSIVITY OF THE MoU:**

Notwithstanding anything contained in the provisions except Article - 3 of the **MoU**, either party or both parties together have the unrestricted right to seek additional funds for and/or to cooperate with any agency/institute for any of the projects covered by the **MoU**.

There will be no financial obligations on both the Parties under this agreement.

ARTICLE- 5

Legal Relationship: This MoU shall be construed as a statement of the object to promote a genuine and mutually beneficial collaboration between the Parties. Nothing in this MoU shall be construed to create any legal relationship between the Parties.

ARTICLE - 6

Any article of the **MoU** may be modified or changed by mutual agreement of the parties hereto in writing. The modifications/changes shall be effective from the date on which they are modified/ extended unless otherwise agreed to.

ARTICLE - 7

All disagreements/differences of opinion/disputes regarding the interpretation of the provisions of this **MoU** shall be resolved by mutual consultation by the signatories.

However, in case of dispute between persists, the decision of the Vice-Chancellor of CUSB, Gaya/NIPER, Hajipur jointly shall be final and binding on each other. Jurisdiction for the legal dispute shall be at Gaya, Bihar for Arbitration as per the Arbitration & Reconciliation Act.

ARTICLE - 8

GOVERNING LAW:

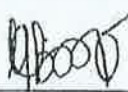


All research activities undertaken jointly by NIPER-Hajipur and CUSB, Gaya under this MoU will be governed by the Laws of the Republic of India.

ARTICLE - 9

This MoU shall come into force from the date of its signatures and shall remain valid for a period of 3 years. This MoU may be modified, renewed or extended with the mutual written consent of the Parties. Either party may terminate this MoU by giving three (3) months notice in writing to the other party.

ARTICLE - 10

Force Major: Due to excessive rain, flood or other natural reasons if consumables, chemicals, plastic wares e.t.c. supplied by the NIPER, Hajipur or CUSB, Gaya are damaged, CUSB, Gaya/NIPER, Hajipur will not be held responsible.

<p>In witness whereof the undersigned persons duly authorized thereto. have signed this MoU on this day, _____</p> <p>Signed on behalf of NIPER-Hajipur:</p>	<p>Signed on behalf of CUSB, Gaya:</p>
	
<p>Dr. V. Ravichandiran) Director (Addl. Charge) National Institute of Pharmaceutical Education and Research (NIPER) Hajipur- 844102, Distt. Vaishali Phone: 06224-277226 Fax : 06224-277225 Email: niper.hajipur2007@gmail.com</p>	<p>Prof. Kameshwar Nath Singh Vice-Chancellor Central University of South Bihar, Gaya, 824236, Bihar Phone: 0631-2229530 Email: vc@cub.ac.in</p>
<p>Date:  डा. वि. रविचंद्रन / DR. V. RAVICHANDIRAN निदेशक / DIRECTOR (Addl. Charge)</p>	<p>Date: _____ Place: _____</p>

Place: <u>Hajipur</u>	
Witnessed by:	
1. Dr. Nitesh Kumar	1. Dr. Shakti Prasad Pattanayak
<u>Designation:</u> Assistant Professor	<u>Designation:</u> Associate Professor
Department of Pharmacology and Toxicology	Department of Pharmacy
NIPER Hajipur	CUSB, Gaya
Sign.: <u>Nitish Kumar</u>	Sign.: <u>[Signature]</u>
2. Dr. Debabrata Mandal	2. Dr. Vivek Dave
<u>Designation:</u> Associate Professor and Registrar I/C	<u>Designation:</u> Associate Professor-Cum-Head
Department of Biotechnology	Department of Pharmacy
NIPER, Hajipur	CUSB, Gaya
Sign.: <u>D. Mandal</u>	Sign.: <u>[Signature]</u>
Date: <u>23.09.2024</u>	Date: <u>[Signature]</u>



(41)

दक्षिण बिहार केन्द्रीय विश्वविद्यालय

CENTRAL UNIVERSITY OF SOUTH BIHAR

SH-7, Gaya- Panchanpur Road, Village- Karhara, Post- Fatehpur
P.S- Tekari, District- Gaya (Bihar) PIN- 824236

F.No.CUSB/Dev/MoU/EVS/2023/29

Date: 31.07.2023

By Email

To,
The Secretary
University Grants Commission
Bahadurshah Zafar Marg
New Delhi - 110002

Subject: MoU/Agreement for Academic Collaboration between Linköpings Universitet (LiU) Sweden and Central University of South Bihar.

Sir,

I am to inform that Central University of South Bihar has entered into an agreement with Linköpings Universitet (LiU) Sweden by signing an MoU/ Collaboration Agreement on the project entitled "*Indoor biomass burning contributes to significant particulate matter exposure, chronic human health burden, and an economic drain in rural households*", and have agreed to loyally cooperate within the project and to contribute to the project work thorough exchange of information, research or other tasks, or through funding".

The copy of signed MoU is enclosed herewith for your information and further action at your end.

Yours sincerely,


Col. Rajiv Kumar Singh
Registrar

Annexure: MoU/Collaboration Agreement.


कुलसचिव/Registrar
दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

Collaboration Agreement

This Agreement is entered into by and between

- Linköpings universitet (LiU), 202100-3096 represented by the Department of Thematic Studies, 58183 Linköping (Project Coordinator)
- Karolinska Institutet (KI) Org No. 202100-2973, Department of Laboratory Medicine SE- 171 77 Stockholm, Sweden
- Indian Institute of Technology Mandi (IIT Mandi), School of Civil and Environmental Engineering, Kamand, HP-175005, India
- Indian Institute of Technology Mandi (IIT Mandi), School of Humanities and Social Sciences, Kamand, HP-175005, India
- Central University of South Bihar (CUSB), Department of Environmental Science, SH- 7, Gaya Panchanpur Road, Gaya, Bihar 824236, India

separately referred to as Party and jointly as Parties.

1 Background

The Parties have received funding from the Swedish Research Council for the project "Indoor biomass burning contributes to significant particulate matter exposure, chronic human health burden, and an economic drain in rural households", and have agreed to loyally cooperate within the project and to contribute to the project work through exchange of information, research or other tasks, or through funding.

LiU is Project Leader and is responsible for managing the grant and transferring funds to the other Parties in accordance with the approved application and the funder's decision.

This Agreement should not be interpreted as the Parties having agreed on collaboration in the form of a company. The Swedish Act on Partnership and Non-registered Partnership (1980:1102) shall thus not be applicable.

A Party has, with respect to the Project, no employment relationship with the other Party's employees.

2 Definitions

Unless the context clearly states otherwise, the following terms will have the meaning stated below.

Background Information: Information other than Result(s) that a Party is in control of, that clearly contributes to the Project, and that has significance for the realisation of the Project.

Exclusive Result(s): Result(s) Generated solely by one Party.

Exclusive Right: A right to, on legal or constitutional grounds (e.g., industrial confidentiality legislation), prohibit others from using Background Information or Result(s).

Generate: To intellectually contribute to the emergence of Result(s). The contribution shall be comparable to the requirements to be considered author, inventor, respectively rights holder in accordance with Swedish copyright, patent right or other intellectual property rights.

Joint Result(s): Result(s) that is/are generated by two or more Parties jointly.

The Project: The research project is defined in the Project Plan (Appendix 1).

Project Plan: The project plan describes the project. It specifies the Project's scope and direction, as well as the budget and time frame. The project plan also describes the distribution of work between the Parties and the nature of reporting. It is attached as Appendix 1.

Result(s): All information that is Generated or otherwise arises by execution of the Project, and that is associated with Exclusive Rights.

3 The Agreement

This document ("Collaboration Agreement") along with the appendices, will govern the collaboration. The Collaboration Agreement together with the appendices is referred to as the "Agreement".

In case of contradictions between the provisions of this Collaboration Agreement and the appendices, the documents shall prevail in the following order:

1. Appendix 2
2. The Collaboration Agreement
3. Appendix 1

4 General commitments and responsibilities

- 4.1 The Parties commit to comply with the terms in the funding body's decision, Appendix 2.
- 4.2 The Parties undertake to assist LiU as the Project Coordinator in reporting their parts of the Project in order for LIU to be able to submit such reports as the funding body may require.
- 4.3 The Parties undertake to use their best efforts to complete the Project in accordance with the Project Plan and with the care and professionalism that reasonably can be expected. If the required competence or time for a certain task is lacking, the Party may engage a Subcontractor, provided that this is approved according to the Project Plan or that the other Party in writing in every single case accepts this. The content and implementation of the Project are described in more detail in the Project Plan.
- 4.4 The Parties must see to it that employees and subcontractors who take part in the Project meet the requirements of this Agreement, including but not limited rights to Result(s), Publication, and handling of Confidential Information.

5 Financial commitments

LiU commits to transfer funding to the Partners according to the following payment plan:
 Karolinska Institute

- A maximum amount of 400 000 SEK (as mutually agreed upon by the Parties according to projected annual expenses) will be transferred in installments starting 1 August 2023 and ending 30 December 2026.

Indian Institute of Technology Mandi

- A maximum amount of 650 000 SEK (as mutually agreed upon by the Parties according to projected annual expenses) will be transferred in installments starting 1 August 2023 and ending 30 December 2026.

Central University of South Bihar

- A maximum amount of 600 000 SEK (as mutually agreed upon by the Parties according to projected annual expenses) will be transferred in installments starting 1 August 2023 and ending 30 December 2026.

Every year on request from LiU, utilization of funds (transferred from Sweden) will be provided by individual partners signed by their respective economic authorities to be submitted to the funding agency (Vetenskapsrådet) as per financial reporting norms.

6 Organisation

- 6.1 The Project work shall be conducted in accordance with the Project Plan. Each Party is responsible for the implementation of its commitments.

The project has a steering group consisting of Parties representing India and Sweden directly involved in implementing this project. The Parties will undertake all decisions relevant to the project.

7 Confidentiality

- 7.1 "Confidential Information" means such information that the disclosing Party has disclosed during the Project and that:

- is clearly identified as "Confidential Information"; or
- if verbally disclosed, was designated as Confidential Information at the time of the disclosure.

- 7.2 The terms of the Confidential Information as provided in this Agreement shall be applicable for three (3) years after the Project is completed.

- 7.3 The receiving Party undertakes not to use Confidential Information for any purpose other than in accordance with this Agreement or to disclose any Confidential Information to any third party without the disclosing Party's prior written permission, provided that this is not required for an investigation into research misconduct, other deviation from good research practice or for a review. If the Party has to disclose Confidential Information to a third party due to an investigation into research misconduct, other deviation from good research practice or for a review, the Party must ensure that the Confidential Information is protected in accordance with the terms of this Agreement.

The receiving Party shall take all reasonable steps to ensure that the sensitive nature of the Confidential Information is not compromised. The receiving Party may only disclose Confidential Information to employees and others engaged by the Party to carry out the Project that need the information for the implementation of the Project. The receiving Party shall ensure that the persons who have received the Confidential Information comply with the provisions of this Agreement.

7.4 Confidential Information does not, however, include information that:

- at the time of disclosure was publicly known or that subsequently becomes publicly known otherwise than by breach of this Agreement;
- the receiving Party can demonstrate what was known to him prior to the disclosure;
- the receiving Party becomes duly aware of, independent of the other Party and/or
- that a Party discloses as a result of mandatory law or court order.

8 Personal data

Regarding the processing of personal data, current legislation shall apply, and contracts of personal data processing data transfer agreements or joint controller agreements shall be drawn up in those situations where it is required by law.

9 Result(s)

9.1 Right of ownership

9.1.1 Result(s) shall be the property of the Party who Generated it.

9.1.2 Result(s) Generated by two or more Parties shall be owned by them jointly with shares corresponding to the respective Party's intellectual contributions to the emergence of the Result(s).

9.1.3 Under the Swedish Act (1949:345) on the right to employees' inventions, the right of ownership of patentable inventions is held by the researcher, employed at LiU and KI as a teacher, who Generated the invention. Because of this, the formal party to a contract regarding access rights to or transfer of patentable Result(s) is primarily the researcher. Pursuant to at any time occurring custom at LiU and KI regarding IPR, other IPR may be covered by the aforementioned exception, and other employees of LiU and KI may have the right to be treated as if he possessed such a teaching position which the exemption covers.

9.1.4 The Parties shall, in writing and without delay, inform each other of Result(s) that may result in patents or protection of designs.

9.1.5 The Act (1904:48 s1) on co-ownership does not apply to Joint Result(s). Measures not specifically mentioned in this Agreement that concern Joint Result(s) require the consent of all co-owners.

9.2 Access rights

9.2.1 The Parties undertake to grant access rights to Result(s) to the other Parties in such a manner that the Project can be carried out in accordance with the Project Plan.

9.2.2 The Parties have a right which is non-exclusive, free of charge, and unlimited in time, to use all Result(s) in their own non-commercial activities (single license without a right to sub-license or license to a third party). For other types of use, a reasonable and market-based remuneration will be paid to the owner of the Result(s). A Party that has been excluded or that has withdrawn from the Agreement has no such right unless the other Parties unanimously decide so separately.

9.2.3 Background Information to which a Party holds Exclusive Rights may be used free of charge in the Project by another Party provided the holding Party cannot grant access rights based on contracts with third parties or if the grant would bring significant damage to the holding Party.

9.2.4 A Party who owns Result(s) has the right to use another Party's Result and Background Information associated with Exclusive Rights to the extent necessary for the Party to be able

to use such Result(s) for its own operations. Requests for access must be made in writing. The Party with ownership is entitled to reasonable compensation. The right to compensation applies for the period the Exclusive Right remains. A Party that has been excluded or that has withdrawn from the Agreement has no such right unless the other Parties unanimously decide so separately.

- 9.2.5 The right to use the Background Information in accordance with the Project Plan or other agreed access rights under this provision includes only a single license, without the right to sub-licence unless otherwise agreed.
- 9.2.6 If there are any limitations for the use of Background Information, the Party that introduced the Background information to the Project shall in writing notify the other Parties of the limitation when introducing it.

10 **Transfer of shares in Joint Result(s)**

- 10.1 A joint owner wishing to transfer its share of Joint Result(s) (the Transferor) shall submit a written request to the joint owners. The other joint owners are then allowed to submit a written offer to the Transferor within thirty (30) days from receipt of the request by the other joint owners.

Transfer in accordance with the above paragraph shall be in accordance with commercially reasonable terms. If no agreement can be reached regarding the terms and conditions for acquisition within sixty (60) days from when the Transferor gave notice of its interest as described above, the Transferor may freely dispose of the Result(s). Should the Transferor thereafter, within six (6) months, reach an agreement with a third party to acquire such Result(s), the conditions offered to the third party may not be more favourable than those offered to the other joint owners as described above. Should the conditions, despite this, be more favourable, the other joint owners shall have the right to take possession of the Result(s) on the same conditions as those offered by the third party.

- 10.2 A Transfer to LiU's holding company or companies where LiU's holding company holds ownership shall thus not be considered the third party.
- 10.3 A Party's access right is not affected by the transfer of ownership of Result(s). If the transfer is made to a third party, the Transferor shall ensure that the access rights of all Parties are secured in the transfer agreement.

11 **Publication**

- 11.1 Publication or public disclosure of Result(s) shall be made in accordance with good international practice for the publication of research results. Such good international practice includes, for example, not publishing someone else's Exclusive Results or information without their consent. In accordance with normal academic practice, all investigators and contributors to a publication will be acknowledged, always in compliance with recognized standards concerning publication and authorship, including the most recent "Recommendations for the Conduct, Reporting, Editing and Publications of Scholarly Work in Medical Journals" developed by the International Committee of Medical Journal Editors (ICMJE).
- 11.2 No later than thirty (30) days before publication or public disclosure, the Party shall supply a copy of the proposed publication to the other Parties for examination. The examining Parties are entitled, within twenty-five (25) days of receiving the proposed publication, to request that its Confidential Information shall be excluded if publication or public disclosure of it would be contrary to the Party's essential business or academic interests. The Party that makes such a request must identify the Confidential Information in the publication.

11.3 If a Party wishes to seek the protection of intellectual property, publication may be delayed until an application is made, however not for more than ninety (90) days from the planned publication date. Subsequently, the Party is always allowed to publish the Result(s).

11.4 If the Party does not present a request that Confidential Information be excluded according to 11.2 or that publication shall be delayed according to 11.3, this shall be considered as the Party's consent for publication.

12 Amendments and additions

Amendments and additions to this Agreement shall be made in writing and be signed by authorised representatives of all Parties in order to be valid.

13 Term of the Agreement

This Agreement applies from Aug 1, 2023, to Aug 1, 2027: until the Parties have fulfilled their obligations according to the Agreement.

14 Termination of the Agreement

14.1 A Party may withdraw from this Agreement with four (4) months' notice insofar as it is possible to complete the Project without that Party. It is the responsibility of the withdrawing Party to fulfil all of its obligations during the notice period, as stated in the Project Plan. A Party that terminates its participation in the Agreement in advance shall make sure the effect of the withdrawal on the remaining Parties' continued participation in the Project is limited as far as possible.

14.2 If a Party breaches this Agreement in any material manner and fails to remedy such a breach within thirty (30) days of the receipt of a written request, this Party can be expelled if the other Parties are in agreement on this.

14.3 If a Party wishes to withdraw from the Agreement, the Parties must work constructively to find a solution that allows the Project to be completed and that external funding bodies' conditions can be fulfilled.

15 Liability

15.1 Parties are not liable for the Project leading to expected Result(s). Parties are not liable for ensuring that Result(s), Background Information, or other such information that a Party communicates to another Party within the collaboration is correct, does not infringe on, or is not claimed to infringe on a third party's intellectual property rights, for its formal validity or for its usefulness commercially, functionally or otherwise. A Party may not, though, knowingly introduce third-party intellectual property into the Project without informing the other Parties about the third party's rights.

15.2 The Parties' liability comprises only damage or loss which the Party has caused the other Party through material breach of any provision of this Agreement and /or through gross negligence or a willful act or omission during the execution of the Project. The liability does not include compensation for indirect damages or consequential damages, Indirect damages means, for example, loss of profit, loss due to the Result(s) not being useable as intended, loss due to a reduction of revenue or production, and non-material damage. A

Party's liability due to damage or loss is limited to an amount equal to the errant Party's share in the Project.

The Parties' liability comprises only damage or loss which the Party, through gross negligence or by intent, has caused the other Party during the execution of the Project. The liability does not include compensation for indirect damages or consequential damages, except when caused by a breach of the confidentiality provisions in section 7. Indirect damages means, for example, loss of profit, loss due to the Result(s) not being useable as intended, loss due to a reduction of revenue or production, and non-material damage. A Party's liability due to damage or loss is limited to an amount equal to the errant Party's share in the Project.

- 15.3 A claim for damages shall, in order to entitle to compensation, be made in writing as soon as possible after the damage is discovered. The right to compensation is, under all circumstances, lost if the claim is not presented within six (6) months of the damage becoming known to the suffering Party.

16 Force majeure

A Party has no duty to provide compensation if it is prevented from carrying out its duties in a timely manner due to circumstances it could not foresee and whose negative effect the Party could not reasonably have been able to eliminate.

17 Disputes

Any dispute, controversy, or claim arising out of or in connection with this Agreement, or the breach, termination, or invalidity thereof, shall first be referred to Mediation in accordance with the Mediation Rules of the Arbitration Institute of the Stockholm Chamber of Commerce unless one of the Parties objects. If one of the Parties objects to Mediation or if the Mediation is terminated, the dispute shall be finally resolved by arbitration in accordance with the Rules for Expedited Arbitrations of the Arbitration Institute of the Stockholm Chamber of Commerce.

The seat of arbitration shall be Stockholm. The language to be used in the arbitral proceedings shall be English. The dispute shall be decided in accordance with Swedish law.

Notwithstanding the above, disputes arising between Parties who are Swedish public authorities cannot be settled in court and shall be settled through good faith negotiations between the Parties.

Clear, due debts may be collected through an application for a payment order or a summons.

18 Applicable Law

This Agreement shall be construed in accordance with and governed by the laws of Sweden, excluding its conflict of law provisions.

19 Contacts

LiU's contact person is **Prof. Joyanto Routh**

KI's contact person is **Docent Ujjwal Neogi**

IIT's contact person is **Dr. Sayantan Sarkar**

CUSB's contact person is **Dr. Rajesh Kumar Ranjan**

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The contact person is authorised to receive notices and make decisions on routine issues relating to the Project on the Party's behalf. The Parties are entitled to replace their contact person with another person with equivalent skills. The Parties shall notify the other Party as soon as possible of any change of contact person.

Appendices:

1. Appendix 1: Project Description/Project Plan
2. Appendix 2: Grant decision

This Agreement has been drawn up in four (4) identical original copies, with one being retained by each Party.

For Linköpings universitet:

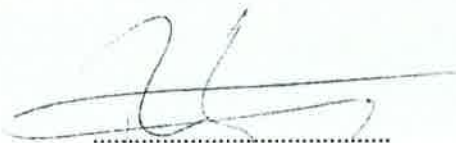
Place, date: Linköping, Jun 24, 2023



Joyanto Routh

Professor and Principal Investigator, Department of Thematic Studies – Environmental Change

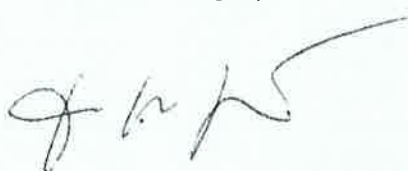
Place, date: Linköping, 2023 06 28



Per Gyberg

Head, Department of Thematic Studies – Environmental Change

Place, date: Linköping, 2023 - 07 - 07



Jan-Ingvar Jönsson
Vice-Chancellor

Peter Yngve

University Director

Dnr tema-2022-00255
Date/version: 22 June 2023
10(12)

For Karolinska Institutet:

Place, date: Stockholm, 26 Jun. 2023

Ujjwal Neogi

Name: Ujjwal Neogi

Title: Docent



Place, date: Stockholm, 26/6 2023

Jonas Fuxe

Name: Jonas Fuxe

Title: Head of department

52

Dnr tema-2022-00255
Date/version: 22 June 2023
11(11)

For Indian Institute of Technology Mandi:

Place, date: Mandi, 28/6/2023

Sarkar

Name: Sayantan Sarkar

Title: Assistant Professor, School of Civil and Environmental Engineering

Place, date: Mandi, 28/06/2023

Dasgupta

Name: Shyamasree Dasgupta

Title: Associate Professor, School of Humanities and Social Sciences

Place, date: Mandi, 2023

Prof. Syed Abbas
28/6/2023

Dean SRI
IIT Mandi
Kamand-175005
H.P., India

Name: Prof. Syed Abbas


Title: Dean, Sponsored Research and Industrial Consultancy



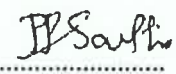
Dnr tema-2022-00255
Date/version: 22 June 2023
12(12)

For Central University of South Bihar


Place, date: Gaya, 22/06/ 2023


.....
Name: Rajesh Kumar Ranjan
Title: Assistant Professor, Department of Environmental Science
Dr. Rajesh Kumar Ranjan
Assistant Professor
Department of Environmental Science
Central University of South Bihar Gaya

Place, date: Gaya, 2023


.....
Name: Prof. Pradhan Parth Sarthi
Title: Head, Department of Environmental Science
Central University of South Bihar

Place, date: Gaya, 2023


.....
Name: Col. Rajiv Kumar Singh (Retd.)
Title: Registrar, Central University of South Bihar
Registrar
Central University of South Bihar

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The Registrar
Central University of South Bihar Gaya

Dated: 16-02-2023

Sub: MoU between the Central University of South Bihar and the Tata Institute of Social Sciences, Mumbai.....reg.

Sir,

The Department of Economic Studies and Policy, Central University of South Bihar, Gaya is forwarding the proposal of Memorandum of Understanding (MoU) with the School of Management and Labour Studies, Tata Institute of Social Sciences, Mumbai. In this direction, necessary modalities need to be accomplished at your end. In this regard, I am submitting the final draft of the MoU for your kind perusal.

Thanking You

R.K. Kumbar.
16/02/23

Dr. Rathi Kant Kumbar
HoD, Department of Economic Studies and Policy

अर्थशास्त्र अध्ययन एवं नीति विभाग
Department of Economic Studies & Policy
दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

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भारतीय गैर न्यायिक INDIA NON JUDICIAL

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मुद्रांक शाखा

14 JAN 2023

गया

**MEMORANDUM OF UNDERSTANDING FOR ACADEMIC COOPERATION/
COLLABORATION
BETWEEN**

**CENTRAL UNIVERSITY OF SOUTH BIHAR (CUSB), GAYA
AND
TATA INSTITUTE OF SOCIAL SCIENCES (TISS), MUMBAI**

This **Memorandum of Understanding** is intended to establish academic cooperation between Department of Economic Studies and Policy, Central university of South Bihar Gaya and the Labour Market Research Facility (LMRF), School of Management and Labour Studies, Tata Institute of Social Sciences, Mumbai.

The Department of Economic Studies and Policy, represented by the Registrar, Central University of South Bihar Gaya, and the Labour Market Research Facility, School of Management and Labour Studies, represented by the Registrar, Tata Institute of Social Sciences, Mumbai, recognizing their strengths in research and education and agree to commence academic collaboration in mutual benefits to their respective universities hereby agree to enter into this agreement on date...../...../.....in accordance with terms and conditions set forth in this memorandum of understanding (MoU).

1. OBJECTIVES OF AGREEMENT

The objective of this agreement is to develop academic cooperation to facilitate advancement of knowledge and to cooperate in their mutual interest for a range of higher educational activities.

2. AREAS OF COOPERATION

Subject to the availability of funds, resources and approval of the competent authorities of the Universities, institutions agree:

- a) to prepare policy papers through joint research projects
- b) to cooperate in individual projects
- c) to jointly organize seminars, workshops on subjects of mutual interest and to invite each other's faculty to participate therein
- d) to exchange of researchers (faculty and research scholars)
- e) to provide opportunities for professors and researchers to give lectures
- f) To share library facilities
- g) To search for opportunities to collaborate in the future

3. IMPLEMENTATION AND MONITORING

Each institution shall engage one member of its teaching/research faculty as coordinator on its behalf. Further, a coordination committee, consisting of Nominee of the Vice-chancellor, Central University of South Bihar and Nominee of the Vice chancellor, Tata Institute of Social Sciences, Mumbai.

4. Duration, Renewal AND Termination of The Agreement

This Memorandum of Understanding (MoU) will become effective immediately after signature by the representatives of both the Universities i.e., of Central University of South Bihar Gaya, and the Tata Institute of Social Sciences, Mumbai for a period of 3 Years and is subject to revision/ modification by mutual agreement.

The parties may with the mutual consent further extend the duration of agreed period. This agreement may, at any time be terminated by either party upon prior notice to the other party in writing not less than SIX (6) months but termination notice is not required if the termination date of the agreement is left less than six months from the notice. In such circumstances, termination date of the agreement shall be the termination date, provided that such termination shall not affect the accomplishment of any ongoing program or activity at the time the notice of termination is given.

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5. **Confidentiality:** For the reason of sensitivity, privacy of individuals or the interests of the CUSB, both the parties shall maintain the confidentiality of data, communications, transcripts etc. Ethical and legal aspects should be complied by both the parties. Parties shall not infringe the copyright or moral right of any other person or parties. However, parties may work under permissible limit provided under law of the land.

6. **Intellectual Property Rights:** Ownership of any intellectual property developed jointly during the enforcement of this MoU shall be vested in both the institutes to this memorandum and shall not be shared with third party unilaterally. Both the institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same, wherever required.

Before any registration or commercialization of intellectual property take place, the institutes agree to reach a separate agreement covering issues such as exploitation of right and revenue sharing. Any publication regarding such intellectual property shall only be processed with prior written consent of both the institutes. However, such consent not to be unreasonably withheld.

Both the institutions shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational and publication purposes without the payment of royalties or other fees to the other party. No party shall infringe the copyright/moral right of the other, IPR etc.

7. **Financial Aspects:** Both the parties shall bear their own financial responsibilities.

8. **Arbitration clause/Legal Liability clause:** Both parties may mutually refer any disputes to the arbitration as per the Arbitration and Conciliation Act 1996. In case, the dispute does not resolve through arbitration, the dispute may be referred to the Vice Chancellor, CUSB and Head of the Tata Institute of Social Sciences, Mumbai, who will jointly resolve the dispute in a spirit of mutual respect, independence and shared responsibilities.



9. Amendments

This Memorandum of Understanding may be revised/amended by the representatives of both the universities.

10. Approval

In agreement with the above conditions, the authorized representatives of the **Central University of South Bihar Gaya** and the **Tata Institute of Social Sciences, Mumbai**, hereby affix signatures.

**For: Central University of South Bihar
Gaya
Registrar, CUSB, Gaya**


Name and signature of representative

Date: 10.2.23

कुलसचिव/Registrar
दक्षिण बिहार केन्द्रीय विश्वविद्यालय
Central University of South Bihar

**For: Tata Institute of Social Sciences,
Mumbai, Registrar,**


Name and signature of representative

Date: 22.02.23

Officiating Registrar
Tata Institute of Social Sciences, Mumbai



1. Introduction

The purpose of this study is to investigate the effects of the proposed system on the performance of the system. The study is divided into two main parts: a theoretical analysis and an experimental evaluation. The theoretical analysis is based on the principles of the system and the experimental evaluation is based on the results of the experiments.

2. Theoretical Analysis

The theoretical analysis is based on the principles of the system and the experimental evaluation is based on the results of the experiments.

3. Experimental Evaluation

The experimental evaluation is based on the results of the experiments.

4. Conclusion

The results of the study show that the proposed system has a significant impact on the performance of the system.

5. References

[1] Author, Title, Journal, Year.

6. Appendix

The appendix contains the detailed results of the experiments.

- To bridge the gap between the academic deliveries and industry needs and thereby improve students' employability skills.
- We will jointly identify the curriculum gap referring to the industry requirement.
- We will design suitable value-added training programme in the Science domain, particularly Biotech, Life Science, Pharma, chemical, and environmental Science, to bridge the gap which will benefit the students in terms of skill development.
- Providing consultancy services to the industry
- Internship/Industrial Training support to the students, training the students in emerging areas of biomedical research.
- We will arrange guest lectures and faculty Development Programme, etc.

CL.3 GENERAL

CUSB and *VV Biotech* have many areas of common interest in academics, education, and research, such as Engineering & Sciences. Considerable advantages may be gained from their pursuit on a collaborative basis in academics, education, and research.

NOW, THEREFORE, *CUSB* and *VV Biotech* have decided to enter into this Memorandum of Understanding (here-in-after referred to as *MoU*), which defines the framework for the cooperation of the two institutions set out in the following sections.

CL.4 PROPOSED OBJECTIVES AND EXPECTED OUTCOMES

Considering the mutual promises outlined in this MoU, both institutes/organizations agree to do the collaborative activities in the academic areas of mutual interest based on equality and reciprocity. The objectives of the MoU are as follows.

1. To prioritize the inclusive growth of the society and combining priorities of excellence and relevance.
2. To promote innovation, entrepreneurship, and translating the technology into products or processes.
3. To encourage research relevant to the industry.
4. To encourage the mobility of experts from academia and *vice-versa*.
5. To formulate schemes for fostering academia-research-industry partnership.
6. To foster resource-optimized, cost-effective innovations for the needs of humanity.
7. To increase the standard of living of its citizens and to improve human health.
8. To create a robust national innovation system.

Vinay Kumar Thang

Rajipathi
10.12.2021

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CL.4.1 Faculty/Scientist/Staff Exchanges

- a) To enrich the educational environment of both institutions through collaboration in research and development and consultancy services in the field of mutual interest.
- b) Exchange of educational information/materials on research and education programmes, teaching and learning, etc.
- c) To increase educational opportunities through conducting lectures and undertaking joint research.
- d) Jointly publish research articles, books, monographs, conferences, seminars, and workshop proceedings.
- e) To attach staff for purposes of curriculum development and upgradation of teaching and research skills.
- f) To organize/participate in seminars, symposiums, summer & winter school(s), and other types of academic discussions.
- g) Co-supervising the graduate, and post-graduate student(s) and Ph.D. student as per the academic collaboration 2016, CUSB Ph.D regulation & Guidelines for faculty members of CUSB act as co-supervisor/co-guide of the research scholar of other institution
- h) Jointly conduct study tours, consultancy work, academic programs (Workshop, conferences, seminars, Technical discussion and of similar nature program), and /or field trips. The academic program shall be subject to CUSB regulations 2016 relating to academic collaboration
- i) To promote research collaborations by sharing information, samples, digital records, data, photographs, etc.
- j) Jointly propose and engage in research or training programmes sponsored by funding agencies and exchange researchers and students on a reciprocal basis for a limited period.
- k) To improve inter-institutional contacts by facilitating access to field areas, libraries, laboratories, and intellectual exchanges.
- l) To provide more and better information among them to improve inter-institutional understanding.
- m) To mentor the faculty, Scientist, and student for their better career and prospects such as providing expertise for establishment of laboratory, library, development of syllabus and new programs, organizing training and workshop.
- n) V. V. Biotech will support CUSB in delivering lectures/taking part in their Board of Studies / setting up their laboratories etc.
- o) In the case of mentoring, scientists of VV biotech will not become co-supervisors of the student(s) of CUSB.
- p) Scientist of VV biotech may become Principal Investigator/Co-Principal Investigator/Mentor in the research project with faculty of CUSB;

"We will work out a specific plan for each activity, setting forth detailed arrangements for agreed collaboration. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding, health insurance, and housing, will be worked out between the institutes on a mutual basis. A separate agreement will be entered into giving such details, including term of any intellectual property."

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CL.4.2 Student Exchange

CUSB and **VV Biotech** agree that student exchange will be guided by the principles listed below:

A home institution refers to **CUSB**, where a student is a full-time student and from where they are expected to graduate. A host institution refers to an institution "**B**" that receives a student for a brief period to undertake a pre-determined programme of research.

- a) Exchange of student(s) will be made by mutual agreement between the **CUSB** and the **VV biotech**.
- b) Such student(s) will continue to be full-time students at their home institution, **CUSB**.
- c) Similarly, exchange student(s) will be considered full-time "exchange" students at the host institution **VV Biotech**.
- d) Their programme of study at the host institution "**B**" will be determined by mutual consultation between their academic advisor(s) at the home institution **CUSB** and their "interim" academic advisor(s) identified by the host institution **VV- Biotech**.
- e) The **VV Biotech** will evaluate an exchange student's performance in each course or module, award a letter grade or marks, and issue a letter to that effect.
- f) The "**A**" may award to the exchange student(s) credits earned at a "**B**," but only after the "**A**" has established a correspondence between courses taken at the "**B**" vice--versa those offered at the home institution "**A**."
- g) Suppose an exchange student(s) has/have undertaken research. In that case, the host institution "**B**" will evaluate the exchange student's performance in the study and issue a letter to that effect, together with a technical "report" of the research carried out.
- h) Suppose an exchange student(s) has/have undertaken research. In that case, the home institution "**A**" will take note of the performance evaluation and the technical "report" and take steps following its own procedures.
- i) **VV Biotech** agrees to provide suitable accommodation and/or living expenses for student exchange.
- j) The exchange student(s) will pay tuition and other fees at their home institution, **CUSB**.
- k) For mentoring purposes, exchange student(s) will not pay any fees to the **VV Biotech**.
- l) For mentoring purposes, host institution **VV Biotech** will provide free accommodation.
- m) In the case of a doctoral degree programme, students must have a supervisor of **CUSB** and a mentor from the host institution for a day-to-day basis guiding and monitoring the student of the **CUSB**. The student shall submit a single thesis at their home institution/country with the acknowledgment of **VV biotech** in the acknowledgment section.

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CL.4.3 Other Areas

- a) To exchange information on research and educational programs.
- b) To jointly organize short-term continuing education programs on topics of mutual interest and invite each other's faculty to participate therein.
- c) To organize joint seminars, conferences, training programs, or workshops on topics of mutual interest and invite each other's faculty, student, and staff to participate therein.
- d) To propose and engage jointly in research or training programs sponsored by funding agencies and invite each other's faculty, student, and staff to participate therein.
- e) On a reciprocal basis, to exchange students at Undergraduate, Graduate, and Doctoral levels for limited periods for education and /or research.
- f) There will be a provision of cultural and intellectual enrichment opportunities for staff and students of both institutes.
- g) To permit students, staff, and faculty of CUSB members to use library facility and laboratory facility, etc.

CUSB and VV Biotech agree that detailed terms and conditions that guide each activity identified above will be determined separately and agreed upon by the two institutions. These terms shall include a technical description of the proposed action, financial arrangements, and person(s) responsible for its implementation.

CL.5 DURATION/VALIDITY/TERMINATION AND RENEWAL

The Memorandum shall remain in force for five (05) years commencing from the effective date. However, this period may vary from the area of collaboration and collaborative programme. Institutions may extend the term by written agreement signed by both after review.

Any MoU between CUSB and VV Biotech may, at any time during its period of validity, be terminated by one of the parties upon prior notice to the other party in writing not later than three months before the termination date. Once terminated, neither *CUSB* nor *VV Biotech* will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

CUSB and *VV Biotech* will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

The collaboration renewal will be initiated three months earlier and must renew before the date of termination.

CL.6 AMENDMENTS/MODIFICATIONS

This MoU may be amended or modified by a written agreement signed by both institutions' representatives or concerned persons.

Vijay Kumar

R. Jeyapalan
10.12.2021

CL.7 IMPLEMENTATION AND MONITORING

Regularly, the parties shall keep each other informed of and consult on the procedure, progress, and objective achieved or planned.

The parties shall set a specific timeline beforehand and establish a manner of monitoring and reviewing the execution of the area of cooperation and its objectives.

For proper implementation of all criteria and timely completion of the agreed objectives, the CUSB may constitute a monitoring committee. The monitoring committee will review the annual progress of the collaboration and give suggestions if required. However, both parties will arrange a half yearly meeting to discuss the proper implementation and goal(s) achieved during that period. The CUSB monitoring committee will consist of the following members:

1. Registrar (CUSB) or its nominees as Chairperson,
2. Contact person(s) of the MoU from CUSB side (Member),
3. Contact person of the MoU from *VV Biotech* side,
4. A person from the Development Section (If required, Member),
5. A person from the Finance Section (If needed, Member).

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of *CUSB* and a programme coordinator from the side of *VV Biotech* will periodically review and identify ways to strengthen cooperation between the two institutions. The parties may, with mutual consent, further extend the duration of the collaboration.

CL.8 CONFIDENTIALITY

For reasons of sensitivity, the privacy of the individuals, or the interests of the CUSB, the agreement of MoU needs to enter into the undertaking of confidentiality. Before any assurances of confidentiality are provided to a SECOND PARTY, the legal situation must be checked by the Registrar's office of the CUSB as well as the regulatory office of *VV Biotech*. The secrecy of such MoU must be finally determined by the Registrar on advice from the respective Dean/Head of the School/Department, taking into account the CUSB's obligations under the current Indian legislation.

CL.9 INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institution to this Memorandum and cannot be shared with the third party unilaterally.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property. Both institutes shall make joint applications

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for the registration of the same. Before any registration or commercialization of any intellectual property occurs, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

We shall process any publication regarding such intellectual property with the prior written consent of both institutes. However, we should unreasonably withhold such consent.

CUSB & VV Biotech both are free to use perpetually the results arising out of the collaborating activities for its internal teaching, research, educational, and publication purposes without the payment of royalties or other fees to the other party.

CL. 10 ARBITRATION CLAUSE/LEGAL LIABILITY CLAUSE

Participating faculties, staff, and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.

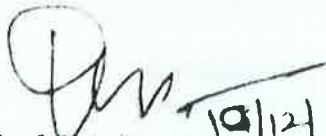
Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

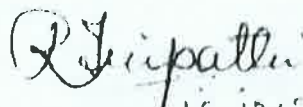
In case of any dispute/differences of opinion relating to any aspect of academic, research, and administrative cooperation, concerned faculty/Head/Dean/Director/Registrar/Vice-Chancellor of the **CUSB** and counterpart(s) of the **VV Biotech** will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

CL.11 SIGNING AUTHORITY

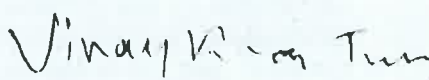
CUSB and **VV Biotech** welcome the establishment of this Memorandum for cooperation and jointly agree to the provisions as set out above.

Signed for CUSB, Gaya


Prof. K. N. Singh
Vice Chancellor
10/12/21


10.12.2021

Signed for VV Biotech


Mr. Vinay Kumar Tiwary
Managing Director

Contact Persons from CUSB and VV Biotech

CUSB		VV Biotech	
Col. Rajiv Kumar Singh (Retd.) Registrar	<i>Rajiv Kumar Singh</i> 10.12.2021	Dr Vivek Dwivedi Pre clinical Head	<i>Vivek Dwivedi</i>
Dr. Durg Vijai Singh Professor & Head Dept. of Biotechnology	<i>Durg Vijai Singh</i> 10.12.2021	Naina Sakshi Regulatory Affairs	<i>Naina</i>
Dr. Rizwanul Haque Prof. of Biotechnology	<i>Rizwanul Haque</i> 10.12.21	Lipika Kumari Research Assistant	<i>Lipika</i>
Witness		Witness	
Dr. Rakesh Kumar Associate Professor Dept. of Biotechnology	<i>Rakesh Kumar</i> 10/12/2021	Komal Kumari Research Assistant	<i>Komal Kumari</i>
Dr. Nitish Kumar Assistant Professor Dept. of Biotechnology	<i>Nitish Kumar</i> 10/12/2021	Md. Zeyaul Haq Research Assistant	<i>Md Zeyaul Haq</i>

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Memorandum of Understanding

On Academia-Industry Collaboration and Extension of Consultancy Services and Training of Students

Between



Central University of South Bihar, Gaya(India)

And



**“Vastu Vihar Biotech Private Limited”
Hathiyar, Bodhgaya, Gaya, Bihar 824231, India**

Place: Gaya

Date: 10/12/2021



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14.08.23



MEMORANDUM OF UNDERSTANDING

Between

NATIONAL INSTITUTE OF TECHNOLOGY PATNA

AND

CENTRAL UNIVERSITY OF SOUTH BIHAR

FOR
ACADEMIC AND RESEARCH
COLLABORATIONS

This MoU is made between

National Institute of Technology Patna located at Ashok Rajpath, Patna-800005, Bihar, India, (hereinafter called NIT Patna, which shall include its successors and assignees) on the first part.

AND

Central University of South Bihar, located at SH-7, Gaya Panchanpur Road, Village Karhara, Post- Fatehpur, Gaya – 824236, Bihar, India (hereinafter called CUSB, which shall include its successors and assignees) on the second part.

NIT Patna and CUSB shall individually be known as a Party and Collectively as Parties.

1. Scope:

The scope of collaboration in this Memorandum of Understanding includes initiatives under the following categories:

1. Academic Programs: Exchange of expertise and resources between the two institutions to enhance the quality of academic programs, curriculum development, and student learning experiences.
2. Research Activities: Collaborate on research projects in areas of common interest, share research facilities and equipment, and promote joint research initiatives to foster innovation and academic excellence, along with Joint supervision of Postgraduate and Ph.D. students.
3. Faculty and Student Exchange: Facilitate faculty and student exchanges between the two institutions, allowing them to benefit from diverse perspectives & experiences and to undertake a pre-determined program of study or research.
4. Joint Workshops and Seminars: Organize joint workshops, seminars, and conferences to promote knowledge sharing and interdisciplinary research collaboration.
5. Short Term Programs: Jointly organize short-term continuing education programs on topics of mutual interest and to invite each other's faculty to participate therein.

6. Resource Sharing: Share libraries, laboratories, and other educational resources, which can reduce duplication of efforts and improve overall efficiency.
7. Technology Transfer: Collaborate on technology transfer initiatives, facilitating the conversion of research findings into practical applications for the benefit of society and industry.
8. Capacity Building: Training and capacity building programs to enhance the skills and knowledge of faculty, staff, and students.

2. Student & Faculty Exchange:

1. Both the institutes will encourage the students for summer research internship at the other Institute, subject to meeting the eligibility criteria. The internship program may be conducted in online/offline mode at the discretion of the Institute.
2. Students enrolled in PG/PhD programs at either Institute can spend a semester at the other Institute under the Visiting Students Program. The Visiting Students will be permitted to take courses on credit as well as participate in research activities/internships/project work, with the prior consent of the project/research supervisor. The credits earned during the semester at the host Institute shall be transferred to the other Institute.
3. The admission or tuition fees for Visiting students shall be decided on the basis of the terms and conditions mutually agreed upon by both the Institutes.
4. Both the Institutes shall provide an opportunity to the students currently pursuing PG, to be considered for admission to the PhD program at the other Institute under the Start Early PhD Program.
5. The faculty of both NIT Patna and CUSB may apply for suitable postdoctoral positions or any other similar opportunities available at the other Institute. Availing any such opportunity at the other Institution shall be subject to the extant rules of the respective Institute, in regard to relieving the faculty of their regular duty in the parent institution.

3. Research Collaboration:

1. Both the Institutes shall help to identify and invite faculty members from the other institute to participate in research or development programs. The terms and conditions for such participation will be worked out by mutual agreement between the Institutes.
2. Both the Institutes shall endeavor to help set up Incubation Centers, in collaboration and to mentor research-based start-ups and industry projects based on mutual agreement.
3. Each institute shall nominate one of its members as its representative in-charge of the collaborative program, and the progress of these programs shall be reviewed every six months.
4. The final approval of any project will depend on the availability of guaranteed support funds.

4. General Terms:

Any specific activity developed under this MOU shall be detailed in a subsequent agreement, signed by each institution's authorized signatory, which will describe the scope of the proposed activity, intended outcomes, budget, and responsible departments or individuals.

5. Tenure and Termination:

This MoU will remain valid for five years from the date of Signing and may be amended, renewed, terminated by mutual agreement. The termination shall be by a prior notice of not less than three months by either of the parties. In the event of termination, both parties shall ensure that the interest of students working/projects under this MoU is safeguarded to the extent possible.

6. Financial Obligations:

Both parties understand and agree that this memorandum creates no financial obligations on either party, and all financial arrangements will have to be negotiated and will depend on the availability of funds.

7. Legal Relationship:

This MoU shall be construed as a statement of purpose to promote a genuine and mutually beneficial collaboration between the Parties, and nothing in this MoU shall create any legal relationship whatsoever between the Parties.

8. Intellectual Property:

Both the Institutes shall 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 MoU will be worked out on a case-by-case basis and will be consistent with the officially laid down IPR policies of the two Institutes.

In witness thereof, the parties have jointly executed this Memorandum of Understanding on the day of, 2023.

**For and on-behalf of NIT Patna
Signed by:**

(Prof. P.K. Jain)

Director

National Institute of Technology Patna

Date:

Place:



**For and on-behalf of CUSB
Signed by:**

(Prof. K.N. Singh)

Vice Chancellor

Central University of South Bihar

Date:

Place:

[Signature] 29.7.23

Witness (Name & Signature)

1.

[Signature]
29/7/23

संगवाचक (शैक्षिक)/Dean (Academic)
राष्ट्रीय प्रौद्योगिकी संस्थान पटना
National Institute of Technology Patna
अशोक राजपथ, पटना-800005 बिहार, भारत
Ashok Rajpath, Patna-800005, Bihar, India

Witness (Name & Signature)

1.

[Signature]