



കേരളം കേരल KERALA

CM 110646

Memorandum of Understanding

Between

1. The District Collector, Kasaragod
2. The Registrar, Central University of Kerala, Periyar

AND

3. The District Medical Officer of Health, Kasaragod

ON

The Installation of Medical Laboratory facility in the Central University of Kerala to Conduct RT-PCR Test for COVID-19 and Molecular Diagnosis

This memorandum of understanding (the MOU) is made entered in on this the 5th day of August 2020 at Kasaragod

28.8.2020

Dr. Ramdas A.V. District Medical Officer of Health Kasaragod





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CM 110647

BY AND BETWEEN

Dr.D.Sajith Babu I.A.S., S/o K. DAMODHARAN aged 47 years, the District Collector, Kasaragod being the head of District Administration, Kasaragod and having Office at District Collectorate, Civil Station, Kasaragod herein after referred as the First Party.

AND

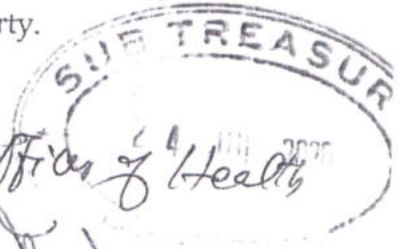
Dr. A. Radhakrishnan Nair, S/o..... aged.....years, Registrar, Central University of kerala, Periya being the Administrative Head of the Office of the Central University of kerala, Tejaswini Hills, Periya, Kasaragod herein after referred as the second party.

AND

Dr.A.V.Ramadas, S/o Late K.V.gouindan Nair aged 54 years, the District Medical Officer (Health), the Head of the Health Department, Kasaragod District having his Office at DMO Office, 2nd floor of District Hospital Complex, Chemmattamvayal, PO-Bella, Kanhangad herein referred as the third party.

3.8.2020

Dr. Ramdas A.V. District Medical Officer of Health Kasaragod



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Whereas, the parties hitherto have satisfied the urgent need for setting up a new laboratory equipped with modern sophisticated equipment and highly qualified scientists to combat the alarming spread of Covid-19 pandemic,

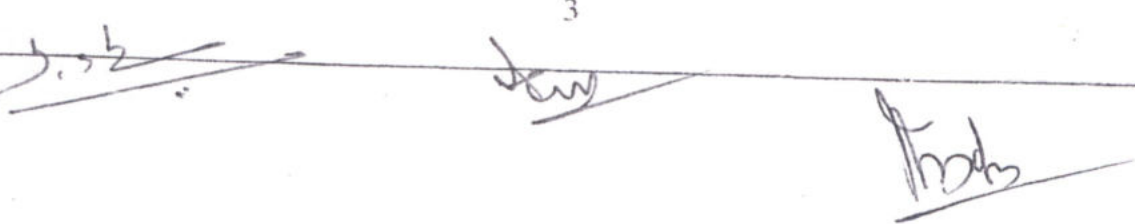
Whereas, it is mutually consented by the parties hitherto that a new COVID-19 testing laboratory for facilitating RT-PCR or Advanced tests of similar nature to combat the spread of Covid-19 virus has to be installed on a war footing basis in the district and have identified the Building available with the second party as suitable for the purpose,

Whereas, the second party herein shall provide personnel with advanced scientific qualifications and skills to train and guide officials for the conduct of Covid-19 RT- PCR Test or any other tests similar in nature as required by the third party.

Whereas, the third party shall provide all necessary equipments and kits required for the establishment of the laboratory and the machinery shall become part of the laboratory maintained by the second party,

Whereas, all the transfer of the equipment by the third party to the second party shall be made under the proper acknowledgment by the officers concerned under the second party,

Whereas, it is mutually agreed between the parties that, as and when the third party sends specimen collected from patients admitted in any hospital under the third party or any hospital declared as Covid-19 hospital by the State Government or the first party as the case may be, shall be received by the laboratory so established and the required test shall be conducted on a war footing basis to get accurate reading and shall be returned to the third party within such time as may be agreed between them on a case to case basis,



Whereas, the first party has agreed to arrange to get any orders from the Government and necessary fund at the disposal of the second or third party as the case may be, for making any development of the laboratory or for making any additional facility for meeting future urgent requirements.

Whereas, the first party and third party have agreed to permit utilization of the above facility for academic research and programs specific to the viral diseases and molecular pathogenesis by the second party without affecting the aforementioned diagnostic functions of the laboratory,


Whereas, the third party, with the concurrence of the first party, shall provide necessary supporting staff like Lab Technician and other paramedical staff on daily wage basis, in addition to the scientific experts under the second party, if found necessary for the smooth functioning of the lab,

And whereas, it is mutually agreed between the parties that necessary PPE kits and other protective equipments required for the scientists and other staff working in the lab shall be provided by the third party as and when required.

This MOU is initially for a period of two years and may be renewed by mutual consent on same or revised terms as may be settled between the parties to this MOU.



Signed on this the day of July 2020 at Kasaragod in 3 originals each in English.


1. District Collector

Kasaragod.

DISTRICT COLLECTOR
KASARAGOD



2. The Registrar.

Central University of Kerala
कुलसचिव / Registrar
केरल केन्द्रीय विश्वविद्यालय
Central University of Kerala
कासरगोड / Kasaragod


3. DMO (Health)

District Medical Officer of Health
Kasaragod at Kanhangad

In the presence of witnesses

1. Dr. Remy Suresh Varghese Dpm, Mm, Kaye 

2. Dr. Rajendra Pilonkatta 



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C 770804

MEMORUNDUM OF UNDERSTANDING

BETWEEN

CENTRAL UNIVERSITY OF KERALA, KASARAGOD, KERALA, INDIA

AND

MALABAR CANCER CENTRE, THALASSERY, KERALA, INDIA

FOR

CO-OPERATION IN THE FIELD OF RESEARCH & EDUCATION

The Central University of Kerala (hereinafter referred to as CUK), a Central Government Higher Institution (The Central Universities Act, 2009) under the ordinance Section 6 (1) and Section 28 (1) (k) of the act, enter into an agreement to establish a co-operation program in the field of research and education with Malabar Cancer Centre (hereinafter referred to as MCC) which is an autonomous institution under Health and Family Welfare Department,

No. 28583
Date: 25 NOV 2019
Value of ₹: 500
The Registrar, Central University of Kerala, Kasaragod
Ghanashyam Prasad. U
Hosdurg Town Stamp Vendor.



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21/11/19

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21/11/19

Government of Kerala registered under Societies Registration Act XXI of 1860, with an aim to establish a hospital, providing the much-required oncology care to the population of North Kerala -in order to promote mutual understanding between the two institutions through educational and academic collaboration and exchange, and to contribute to the advancement and progress of learning.

Contents of collaboration:

Both institutions agree to cooperate in the following potential programs:

- Exchange of faculty
- Exchange of advanced graduate and professional school students
- Joint research, cultural and educational activities
- Special short term programs and visits

Implementation of the exchange programs

- The programs listed above are to be carried out after mutual consultation
- The parties may enter into specific additional written MoU here under to clarify and define the nature, extent and terms of operation for the proposed collaborations, including intellectual property ownership and funding issues.
- Prior to entering into any such MoUs, these MoUs will require the approval of appropriate officers from each institution.
- For agreed upon activities, both institutions will make available their facilities and staffs as further defined in such MoUs.

Terms of the MoU

This MoU shall become effective when the representative of both institutions put their signatures below and shall remain effective for five (5) years. The MoU shall be automatically renewed at the end of the five-year term unless one or both of the institutions propose otherwise.

Revision and termination of the MoU

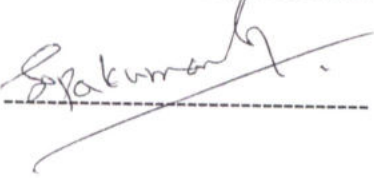
Both parties must send written notice and consult with each other at least 60 days before revision or termination of the MoU.

Questions and Problems with respect to the MoU

Should any problems or questions on any part of this MoU arise, both universities must consult with one another to find a solution.

On behalf of the

Central University of Kerala



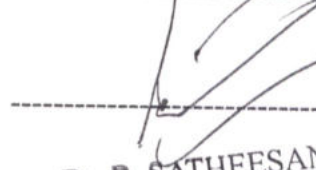
Date: 27 November 2019

प्रो. (डॉ.) जी.गोप कुमार
Prof. (Dr.) G. Gopa Kumar
कुलपति / Vice-Chancellor
केरल केंद्रीय विश्वविद्यालय
Central University of Kerala
तेजस्विनी हिल्स, पेरिया डाक
Tejaswini Hills, Periyar P.O.
कासरगोड / Kasaragod- 671 316



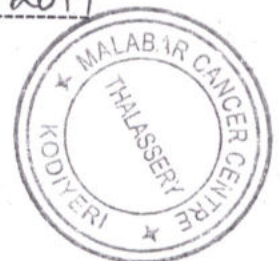
On behalf of the

Malabar Cancer Centre



Dr. B. SATHEESAN, MS, DNB, M.Ch.
DIRECTOR
MALABAR CANCER CENTRE

Date: 27. 11. 2019





Biotechnology Industry Research Assistance Council

(A Government of India Enterprise)

To,

Date: 18th August, 2020

Dr. Tessy Iype
Principal Scientist
MagGenome Technologies Pvt. Ltd.,
E-mail: tessy.m@maggenome.com
Mob.: 09946042179

And

Dr Padma Srikanth
Professor
Dept of Microbiology
Sri Ramachandra Institute of Higher Education and
E-mail: Padmasrikanth@sriramachandra.edu.in
Mob.: -9884389682

And

Rajendra Pilankatta
Associate Professor & HOD
Dept. of Biochemistry and Molecular Biology
Central University of Kerala
Email: praj74@gmail.com
Mob.: 9061877113

Ref: Project Title " Development of a diagnostic kit comprising sample collection buffer and RNA extraction kit for real time RT PCR based detection of SARS CoV-2." under strategic funding for Covid-19 Consortium.

Dear Dr. Iype, Dr. Srikanth and Dr. Pilankatta,

With reference to your above. mentioned proposal, we are pleased to inform that your proposal has been approved by BIRAC at a total cost of **Rs. 91.00 Lakhs (Rupees ninety one Lakhs only)** under strategic funding for Covid-19 Consortium with support of **Rs. 47.00 Lakhs (Rupees forty seven Lakhs only)** as Grant-in-aid to MagGenome Technologies Pvt. Ltd., support of **Rs. 15.00 lakhs (Rupees fifteen lakhs only)** as Grant-in-aid to Sri Ramachandra Institute of Higher Education and Research and support of **Rs. 19.00 lakhs (Rupees nineteen lakhs only)** as Grant-in-aid to Central University of Kerala. The amount put in by MagGenome Technologies Pvt. Ltd. is **Rs. 10.00 Lakhs (Rupees ten Lakhs only)** towards the Project for **8 months** as per the terms of the Grant in Aid Letter Agreement (GLA) enclosed.

If you are in acceptance with the terms of funding support as mentioned in the GLA, the following documents should be executed within a time period of **TWO WEEKS** from the date of issue of this communication.

- **Grant-in-aid Letter Agreement (GLA)** including all the Schedules: All pages to be clearly initialled by the Fund Recipient and the Company should affix the organisation official seal with Director Signatures on the signature page to the GLA. *Considering the current lockdown situation, Signatures of Competent Authority may be done and the GLA executed. The official seal could be affixed after your office resumes.*

Pks Sun

- **Board resolution of the Company** in the prescribed format of BIRAC.
- **No-lien account letter** to be submitted by the applicant with regard to specific project amount in the prescribed format of BIRAC.
- **Saving Bank Account** details to be submitted by the Institutes.
- **Letter of Authorisation:** I.OA is required from institute in favour of person who is executing the GLA on behalf of the institute. This may kindly be provided as per the prescribed format of BIRAC.

Kindly take two colour printouts of this Grant-in-Aid Letter agreement (GLA) and the schedules (as many copies as the Parties- BIRAC and **MagGenome Technologies Pvt. Ltd., SRIHER and CUK**) and execute the same from your end. The scanned copy to be shared with BIRAC. The hard copy of the executed GLAs (after affixation of organization Official Seal) to be shared with BIRAC after the office resumes.

The first instalment of fund release will be made only after completion of all these formalities and upon submission of above-mentioned documents as per norms.

For Biotechnology Industry Research Assistance Council.



Dr. P.K.S. Sarma

(GM and Head-Technical, BIRAC)





जैव प्रौद्योगिकी उद्योग अनुसंधान सहायता परिषद
(भारत सरकार का उपक्रम)
Biotechnology Industry Research Assistance Council
(A Government of India Enterprise)

Ref. No. – BT/COVID0008/01/20

Dated: 19th June, 2020

Subject: Funding of Project entitled "Development of a diagnostic kit comprising sample collection buffer and RNA extraction kit for real time RT PCR based detection of SARS CoV-2" under strategic funding for Covid-19 Consortium.

GRANT-IN-AID LETTER AGREEMENT

This Grant-in-aid Letter Agreement (hereinafter called as "GLA") is between Biotechnology Industry Research Assistance Council, a Government of India enterprise, incorporated under the Companies Act, 2013 having its office at 1st Floor, MTNL Building, 9, CGO Complex, Lodhi Road, New Delhi-110003 (the "BIRAC") and the entities mentioned below for research proposal entitled "Development of a diagnostic kit comprising sample collection buffer and RNA extraction kit for real time RT PCR based detection of SARS CoV-2" under strategic funding for Covid-19 Consortium.

1. **Recipient(s) and Designated Project Investigator(s):**

S. No.	Recipient(s)	Designated Project Investigator
1	M/s Maggenome Technologies Private Limited, a Company incorporated under the Companies Act, 2013 having its registered office at <u>VII 431-C1, Narayana Building, Thazhavaram Lane, Kakkanad Ernakulam, Ernakulam, Kerala-682030, India</u> , hereinafter referred to as the "Company" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees).	Dr. Tessa Iype Principal Scientist MagGenome Technologies Pvt. Ltd., E-mail: tessa.m@maggenome.com Mob.: 09946042179
2	Central University of Kerala , an Institute having its office at <u>Thejaswini Hills, PO Periyar, Kasaragod -671316, Kerala</u> hereinafter referred to as the "Institute 1" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees).	Rajendra Pilankatta Associate Professor & IOD, Dept. of Biochemistry and Molecular Biology Dean, School of Medicine and Public Health Central University of Kerala (CUK) Email: praj74@gmail.com Mob.: 09061877113
3	Sri Ramachandra Institute of Higher Education and Research , an Institute having its office at <u>No.1 Ramachandra Nagar, Porur, Chennai - 600 116, Tamil Nadu</u> , hereinafter referred to as the "Institute 2" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees).	Dr Padma Srikanth Professor Dept of Microbiology Sri Ramachandra Institute of higher Education & Research E-mail: Padmasrikanth@sriramachandra.edu.in Mob.: -9884389682



2. **Aims & Objectives:**

The detailed aims and the objectives that are to be executed by the aforesaid are as per the detailed Project document, submitted including revisions / modifications incorporated therein (hereinafter called as "Project") and appended herein as **Schedule 3**.

The main objectives proposed to be achieved from the project are enumerated hereunder:

- Optimization of viral RNA extraction protocol using influenza virus followed by SARS CoV-2 and kit development.
- Optimization of sample collection solution
- Optimization and inclusion of a real time RT PCR detection kit in the final product (complete kit) and Validation of kit by ICMR approved institute and commercialization

Additional Objective may consist of effective management of health disasters or undertaking research connected therewith such as COVID-19 using the Project resources and through the implementing measures of the supported Project as may be identified in National interest and governed by a specific BIRAC Order

3. **Project Duration:** The Recipients shall complete the Project within the stipulated period of 8 months from the date of execution of the Royalty agreement ("**Effective Date**"). Project Duration is subject to the Change order(s) issued by the BIRAC from time to time under this provision.

4. **Project Implementation Site:**

MagGenome Technologies Pvt. Ltd.
First Floor, Plot 153, First Main Road,
Industrial Estate, Perungudi
Chennai - 600 096

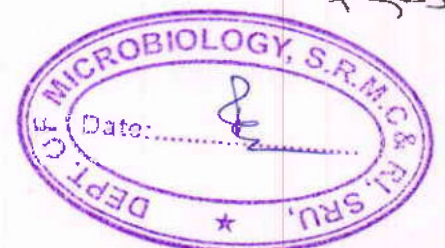
And

Molecular Biology and Clinical Virology Section,
Dept of Microbiology
Sri Ramachandra Institute of Higher Education and Research (SRIHER),
Porur, Chennai-600116

And

Dept of Biochemistry and Molecular Biology
Central University of Kerala (CUK)
Thejaswini Hills, PO Periyar
Kasaragod -671316, Kerala

5. **Project Cost and Contribution:** The total estimated cost of the Project is **Rs. 91.00 Lakhs (Rupees ninety one Lakhs only)**. The contribution of BIRAC is **Rs. 47.00 Lakhs (Rupees forty seven Lakhs only)** as Grant-in-aid to MagGenome Technologies Pvt. Ltd., Contribution of BIRAC is **Rs. 15.00 lakhs (Rupees fifteen lakhs only)** as Grant-in-aid to Sri Ramachandra Institute of Higher Education and Research and Contribution of BIRAC is **Rs. 19.00 lakhs (Rupees nineteen lakhs only)** as Grant-in-aid to Central University of Kerala. The amount put in by the Company is **Rs. 10.00 Lakhs (Rupees ten Lakhs only)** on the terms and conditions detailed in this GLA.



6. BIRAC Budget break-up:

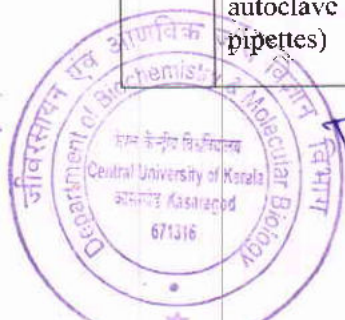
Budget- Head	Support under strategic funding for Covid-19 Consortium to the Company	Support under strategic funding for Covid-19 Consortium to Institute 2	Support under strategic funding for Covid-19 Consortium to Institute 1	Contribution by the Company	Grand Total (in Lakhs)
Non- Recurring	20.00	0.00	6.46	0.00	26.46
Recurring	27.00	15.00	12.54	10.00	64.54
Total	47.00	15.00	19.00	10.00	91.00

BUDGET Break-up Recurring (Rs In Lakhs)					
Heads	BIRAC Contribution			Contribution of the company	Total (Rs. in lakhs)
	To Company	To Institute 2	To Institute 1		
Recurring					
Manpower	1.80	2.25	4.80	7.50	16.35
Consumables	21.20	11.00	6.74	0	38.94
Outsourcing	2.00	0	0	0	2.00
Contingency	1.00	1.00	1.00	1.00	4.00
Travel	1.00	0.75	0	1.50	3.25
Total	27.00	15.00	12.54	10.00	64.54
BUDGET Break-up Non Recurring (Rs In Lakhs)					
Non-Recurring items	BIRAC Contribution			Contribution of the company	Total (Rs. in lakhs)
	To Company	To SRIHER	To CUK		
Equipment	17.00	0	6.46	0	23.46
Accessories	3.00	0	0	0	3.00
Total	20.00	0.00	6.46	0	26.46

Details of Equipment Proposed to be Acquired through Company's Contribution: NA

Details of Equipment to be acquired by the Company through BIRAC Contribution

S. No	Infrastructure/ Equipment	Specific Requirement In The Project	Capacity	Quantity	Estimated Value (Rs. In Lakhs)
1.	Real time PCR machine	RT-PCR detection of RNA. In order to develop independent capacity of doing the assays in future	Standard	1	11.21
2.	Agarose gel electrophoresis unit with Powerpack	In order to dedicate one unit specifically for RNA work	Large	1	0.89
3.	BSL-2 facility (3 components-cabinet, autoclave and pipettes)	To become independent in performing RNA extraction from samples collected in our collection buffer and for having a	Standard	1	4.78



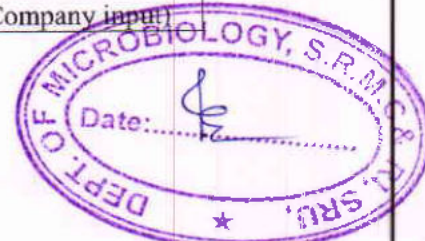
		dedicated space for continuing QC evaluation of the developed kit.			
		Total			16.88
		Accessories to be Acquired (Rs. in lakhs)			3.00
		Grant Total			19.88

Details of Equipment Proposed To Be Acquired Through BIRAC Contribution for Applicant Institute

S. No	Infrastructure/ Equipment	Specific Requirement In The Project	Capacity	Quantity	Estimated Value (Rs. In Lakhs)
For Institute 2					
NA					
For Institute 1					
1.	Microcentrifuge	Required for sample processing and nucleic acid isolation	Standard	1	2.85
2.	BSL-2 facility and work area	A separate BSL2 facility is required for handling the samples for diagnostic work. Existing BSL2 facility is meant for research purpose and temporarily adapted for COVID-19 test. This includes BSL2 cabinet and PCR work station along with aluminum fabrication to separate the area.	Standard	1	3.61
		Total			6.46
		Accessories to be Acquired for Institute 2 (Rs. in lakhs)			0
		Accessories to be Acquired for Institute 1 (Rs. in lakhs)			0
		Grant Total			6.46

7. Milestones/Timelines

Installment	Milestones	Month end activity	Required financial input of (Rs. In Lakhs)
1 st	Acceptance of Undertaking under GLA And Fulfilment of fund release requirements	1	32.40 (40% of BIRAC contribution) and 4.00 (40% of Company input) Total: 36.40
2 nd	Status report on Comparability of extraction of RNA from clinical samples (sputum, and nasopharyngeal or oropharyngeal	4	40.50 (50% of BIRAC contribution) and 5.00 (50% of Company input)



		swabs) with commercial RNA extraction kit and evaluating compatibility of extracted RNA with commercial real time RT-PCR based SARS COV-2 kits And Submission of UC/SOE for the corresponding milestone certified by internal finance.		Total: 45.50
3 rd Final	and	Status report on Evaluation of complete kit at ICMR approved centre And Submission of final completion report, consolidated Utilization Certificate (UC) and Statement of Expenses (SOE) duly certified by Chartered Accountant (CA)/Auditor.	8	8.10 (10% of BIRAC contribution) and 1.00 (10% of Company input) Total: 9.10
Note:- Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a chartered accountant for the expenditure incurred towards the Project every half yearly , ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year should be submitted till completion of Project Duration.				
The Company shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within six months of the completion of the financial year ending 31st March till the Project duration and on initiation of commercialization of the Product till full and final settlement of Royalty in terms of the Royalty Agreement.				

***Regulatory Requirements :**

- *Test License and Manufacturing License from CDSCO*

8. Specific conditions of Implementation

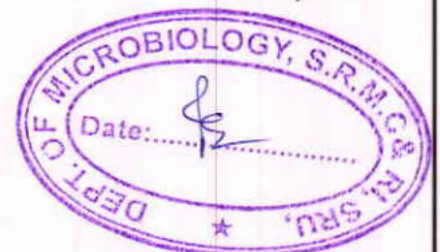
- Sale of products out of this project in India will be subjected to negotiation of pricing by BIRAC/Government of India to promote affordability on account of the grant-in-assistance under BIRAC.
- Government orders will be given preference over private orders for all products coming out of this project.

9. Periodic Payment/Release Arrangements of the project support based on milestones

(Rs. In lakhs)

Instalment	BIRAC Contribution			Company Contribution	Total (Rs. in Lakhs)
	To Company	To Institute 2	To Institute 1		
1 st	18.80	6.00	7.60	4.00	36.40
2 nd	23.50	7.50	9.50	5.00	45.50
Final	4.70	1.50	1.90	1.00	9.10
Total	47.00	15.00	19.00	10.00	91.00

10. *The recipient of the fund should convey their acceptance to the terms and conditions of this GLA within four (4) weeks of the issue of GLA failing which the present offer of the funding support will be considered as infructuous and the project will be treated as withdrawn*



11. Inclusion by Reference:

This GLA includes and incorporates by this reference:	<ul style="list-style-type: none">- Terms and Conditions (Schedule 1)- Acceptance and Undertaking (Schedule 2)- Project document (Schedule 3)- Intellectual Property Governing Framework (Schedule 4)- ROYALTY AGREEMENT: (Schedule 5)
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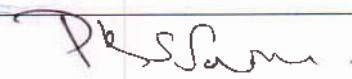
12. The Expenditure is debitable to **B.0.15(b)** – Head of Accounts for the financial year **2020-2021**.

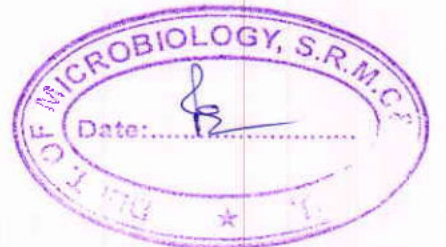
13. This issue with the approval of competent authority vides BFD No **BFD/AO/B.15(b)/035/2020-2021** dated **19th June, 2020**.


14. The GLA has been noted at Serial No. **15** in the Register of Grant/Cost.


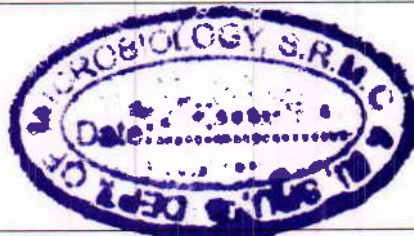

THIS GLA is between Biotechnology Industry Research Assistance Council ("BIRAC") and "MagGenome Technologies Pvt. Ltd.", "Sri Ramachandra Institute of Higher Education and Research" and "Central University of Kerala", and is effective as of the date of last signature. Each party to this GLA may be referred to individually as a "Party", "M/s MagGenome Technologies Pvt. Ltd." as "Company", "Sri Ramachandra Institute of Higher Education and Research" as "Institute 2", "Central University of Kerala" as "Institute 1", Institute 1 and Institute 2 as "Institutes", and Company and Institutes together as "Fund Recipient" and all Party together as the "Parties." As a condition of this grant, the Parties enter into this GLA by having their authorized representatives sign below:

D) For and on behalf of BIRAC	
Name	Dr. Kumara Savithru Sarma Pakala
Designation	GM and Head Technical
Signature	
Official Seal	



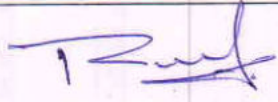


1)	For and on behalf of M/s “ MagGenome Technologies Pvt. Ltd. ” “ the Company ” duly authorized vide Resolution No 002/MGT/20-21.. dated 23-06-2020 of its Board of Directors.
Name	M R Balamani Amma For MagGenome Technologies Pvt Ltd.
Signature	 Director
Designation	Director
Company Common Seal or Signatures of Two Directors or One Director and Company Secretary	

2)	For and on behalf of “ Sri Ramachandra Institute of Higher Education and Research ” “ Institute 2 ” duly authorized vide letter dated by its concerned authority.
Signature	
Name	DR. PADMA SRIKANTH
Designation	PROFESSOR
Institute Seal	 



2) For and on behalf of "Central University of Kerala" "Institute 1" duly authorized vide letter dated 29/06/20 by its concerned authority.

Signature 

Name Dr. Rajendra P. Iyer

Designation Associate Professor & Head



Dr. S. S. Suman



Schedule 1

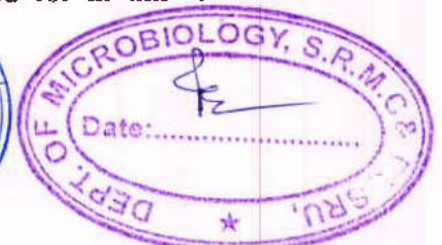
The terms and conditions for Project support under Grant-in-aid Letter Agreement (hereinafter called as "GLA") are as follows;

1. FUND DISBURSEMENT

- i. First installment of the Grant-in-aid will be released after issue of the GLA subject to fulfillment of the terms and conditions for such release (and after execution of Royalty Agreement) by the relevant Parties. Further release of funds shall be subject to satisfactory progress against the objectives, outputs, milestones and targets specified in the Project which progress shall be determined by BIRAC and on submission of audited/certified statements of accounts and utilization certificates as provided for in Point 2 (a).

2. FUND UTILISATION AND ACCOUNTING

- a. The Fund Recipient shall submit the Utilization Certificate (UC) and Statements of Expenses (SoE) duly audited by a Chartered Accountant (CA) as required for the project under the GLA.
- b. The Fund Recipient shall submit final consolidated UC and SoE duly certified by a CA/Auditor to BIRAC in the format provided on the completion of the project.
- c. The input credit for the expenditures incurred under the project out of Grant-in-aid shall be reported to BIRAC as a part of utilization certificate against the corresponding entry- "Amount of GST Input credit". Such amount, if any, will be considered accordingly at the time of the release of the next installment.
- d. The Fund Recipient shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within six months of the completion of the financial year ending 31st March till the completion of the Project Duration.
- e. The Institute shall duly submit the periodic Progress Report for the Project to BIRAC.
- f. The Company shall keep the Grant-in-aid assistance and their project contribution in a separate no-lien account in the name of the Company with a Scheduled Bank (as defined under the RBI Act, 1934), the withdrawals and payments from which account shall be subject to verification by BIRAC. It shall also obtain and furnish to BIRAC a letter from the concerned bank foregoing the right of set off or lien in respect of such account. Further, the interest earned on the Grant-in-aid if any should be reported to BIRAC. The interest thus earned will be adjusted towards further installment of the fund.
Institutes collaborator shall keep the Grant-in-aid assistance in an interest bearing account with a Scheduled Bank (as defined under the RBI Act, 1934), the withdrawals and payments from which account shall be subject to verification by BIRAC. The interest earned on the Grant-in-aid should be reported to BIRAC. The interest thus earned on the grant in aid will be adjusted towards further installment of the fund.
- g. The Fund Recipient shall ensure that the funds released for the Project are actually utilized only for the purposes of the Project and as expressly provided for in this GLA. Re-



appropriation of BIRAC funds from one budget head to another shall not be effected without the specific written approval of BIRAC;

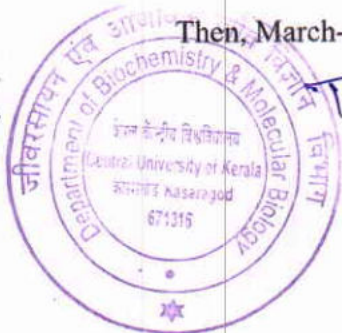
- h. The Fund Recipient shall refund such part of Grant-in-aid funds disbursed to it that remains unutilized with it upon completion of all the responsibilities, duties and functions specified in connection with the Project, within one month of such completion, to BIRAC along with consolidated accounts of the funds received and utilized and of the unutilized balance returned (UC & SOE);
- i. The Fund Recipient at their own cost shall take adequate care to maintain the capital assets acquired for the Project through BIRAC's Grant-in-aid. The capital assets acquired through BIRAC's Grant-in-aid shall not be disposed of or hypothecated without the specific approval of BIRAC till full and final settlement of all dues to the satisfaction of BIRAC.
- j. The Procurements for the Project shall be in accordance with the best commercial practices if the fund recipient is a Company/LLP and shall be in accordance with the procurement framework prescribed by BIRAC if the fund recipient is a Government/ public Institution.
- k. **The Fund Recipient shall give prior information to BIRAC about additional funding from any other government/ private source (National/ International) for the same project objectives availed at any time before the project completion.**

3. NATIONALLY IMPORTANT PROJECTS:

If certain projects are determined as Nationally important Projects, then BIRAC will issue a specific "Order" to make the following provisions applicable;

- A. In such cases of national importance BIRAC shall retain a royalty-free, non-exclusive, irrevocable license to the Product developed with the funding support of BIRAC with right to sub-license for the purposes of public interest/Government of India and/or as decided by the committee. The licensor of such Product will ensure that where the Product has been produced in collaboration with entities not in receipt of BIRAC's Grant-in-aid, such collaborators will also grant license to BIRAC in the same way.
- B. Nationally Important Projects shall mean such Projects that will serve specific purposes notified by Government of India in public interest.
- C. In cases of national importance, if BIRAC determines that such –
 - a) Action is necessary because the Fund Recipient or licensee/s has not taken, within the period of four (4) years from the date of completion of the Project, effective steps to commercialize the Product in such field of use;
 - b) Action is necessary to meet requirements for public use or national interest and such requirements are not reasonably satisfied by the Fund Recipient or licensee/s;

Then, March-in-rights are applicable whereby;



- i. BIRAC along with retainment of royalty-free, non-exclusive, irrevocable license to the Product, after taking into consideration the fund recipient's requirement for reasonable expansion and the demand supply gap at the appropriate time, shall have the right to require the Fund Recipient to transfer the technical know-how of the Product developed under the Project to other entrepreneur(s) and train them, on such terms and conditions as may be mutually agreed among BIRAC, the fund recipient and such other entrepreneur(s). Provided, BIRAC shall reserve its right to require that the Product must be manufactured and sold in India.
- ii. If the fund recipient (s) does not agree with the terms of above sub section (i), then BIRAC shall require that all rights and interests associated with the Product including Intellectual Property (IP) Rights to be assigned to BIRAC. The Fund Recipient(s) and co-owners of the IP shall undertake all necessary actions to affect the assignment.

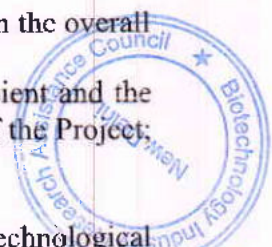
DISCLOSURE OBLIGATIONS FOR INSTITUTES AND NOT FOR PROFIT ENTITIES:

- a. The institute shall promptly disclose the commencement of commercialization of products through spinoffs, licensee, sub-licensee, assignee or other third parties.
- b. The institute shall submit the true copy of the contractual arrangement related to any interests of the Product including licensing agreement, technology transfer agreement, assignment deed etc.
- c. The Institute shall intimate the receipt of technology transfer fee, licensing fee, royalty, or revenue in any form resulting due to product commercialization, within sixty days from the closure of the corresponding half yearly accounts.

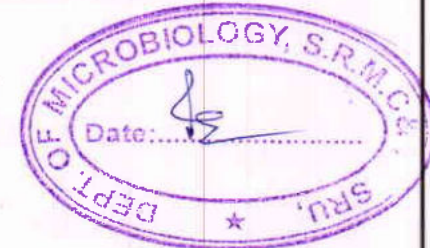
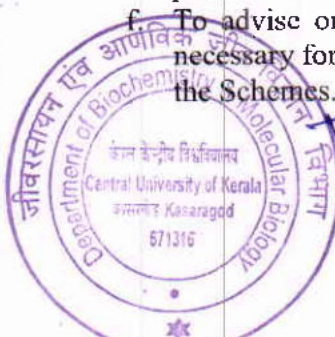
5. PROJECT MONITORING

A Project Monitoring Committee (PMC) comprising of eminent experts from the respective field(s)/Internal BIRAC and NBM members will be constituted to monitor the progress of the objective(s) of the Project. The functions of the PMC shall be as follows:

- a. To monitor the progress of the Project in conformity with the outputs, milestones, targets objectives and other terms and conditions as contained in the GLA
- b. To keep track of funding from any other source for the Project.
- c. To assess the global developments impacting the domain of the Project.
- d. Based on the foregoing, to assess and recommend:
 - i. the release of next installment or part release thereof by the BIRAC.
 - ii. revision of Project Duration
 - iii. closing, dropping or modifying any of the components of the Project, within the overall approved objectives, budget and time-frame,
 - iv. inclusion of additional industrial/institutional partner(s), if the Fund Recipient and the Institutes requests involvement of such partner(s), in the overall interest of the Project; and
 - v. revision of the financial assistance.
- e. To advise on issues related to securing of IPR and mentor to overcome any technological problem faced in the Project implementation; and
- f. To advise on any other matter as referred to it by BIRAC and/or otherwise reasonably necessary for effective discharge of its duties and/or achievement of aims and objectives of the Schemes.



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6. INDEMNIFICATION

- a. The Fund Recipient shall, at all times, indemnify and keep indemnified BIRAC against any claims or suits in respect of any losses, damages or compensation payable in consequences of any accident, death or injury sustained by their employees or by any other third party resulting from or by any act, omission or operation conducted by or on their behalf;
- b. The Fund Recipient shall, at all times, indemnify and keep indemnified BIRAC against all claims/damages etc. by any infringement of any Intellectual Property Rights (IPR) while carrying out their responsibilities/work under the Project and this GLA.
- c. The provision of Grant-in-aid funds by BIRAC does not create any liability, explicit or implicit, on BIRAC in respect of the manpower engaged in the Project.
- d. The Parties shall not be held responsible for non-fulfillment of their respective obligations in successful completion of the Project under this GLA due to the exigency of one or more force majeure events such as but not limited to acts of God, war, flood, earthquakes etc.
- e. BIRAC through the Project funding shall not be held as a "Sponsor" in terms of the Clinical Trial statutes and the Fund Recipient are entirely responsible for abiding by the relevant laws, Rules and Regulations of the land if any Phase of the Clinical Trial is a Project Component.

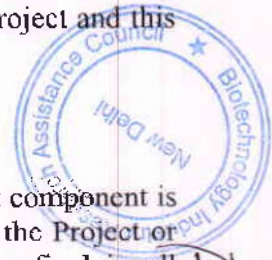
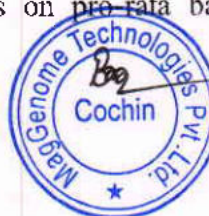
7. CHANGE OF CONTROL:

BIRAC shall reserve the right to reconsider further funding assistance, governance of the New Intellectual Property and consider refund of the amount of Grant-in-aid in such circumstances of change of control as mentioned the following paragraphs;

- a. The Fund Recipient shall inform BIRAC if it proposes to undertake or permit any merger, consolidation, reorganization scheme of arrangement or compromise with its creditors or shareholders or effect any scheme of amalgamation or reconstitution or substantial expansion. The word 'substantial expansion' shall have the same meaning as under the Industries (development and Regulation) Act, 1951.
- b. The Fund Recipient shall inform BIRAC within 30 (thirty) days, if it has notice of any application for winding up having been made or any statutory notice of winding up under the provisions of the Companies Act, 2013, or any other notice under any other Act or otherwise of any suit or other legal process intended to be filed or initiated against the Fund Recipient and affecting the title to the properties of the Fund Recipient or if a receiver is appointed of any of its properties or business or undertaking.
- c. The Fund Recipient shall notify BIRAC of any material change in its shareholding pattern, entity status, entity name, Project Coordinator, implementation site, registered office or any such change that would impact on performance of its obligations under the Project and this GLA.

8. FORECLOSURE AND TERMINATION

- a. In case, during the Project Duration, it is found that the Project or any Project component is not likely to lead to successful completion, BIRAC may decide to foreclose the Project or the Project component as warranted. The decision of the BIRAC shall be final in all respects. The Fund Recipient shall immediately refund any Grant-in-aid unutilized out of BIRAC's disbursements to BIRAC. BIRAC, at its discretion can allow deduction of the future committed expenses to third party vendors on pro-rata basis according to the



quantum of BIRAC's funding. The Fund Recipient shall submit consolidated accounts of funds received, utilized and unutilized (UC&SOE). If the Fund Recipient likes to continue the Project at its own cost, it would be able to do so without restrictions from BIRAC after complying with these provisions.

- b. The Fund Recipient may, before the completion of the Project, terminate this GLA by giving three months' notice in writing to BIRAC. BIRAC may also terminate this GLA by written notice in the event of committing breach of any term of this GLA and either not rectifying it to the satisfaction of BIRAC or not satisfying BIRAC about its inevitability within a specified period. In the event of termination of the GLA, no further disbursement shall be made by BIRAC. The Company shall be liable to return immediately the amount of Grant-in-aid already availed of from BIRAC with additional simple interest at the rate of 12 (twelve) per cent per annum within 30 (thirty) days of termination of the GLA. Interest on the quantum of funding assistance shall accrue from the date of release of the grant in aid assistance. The Collaborators Institutes shall immediately refund any funds unutilized out of BIRAC's disbursements, to BIRAC, along with consolidated accounts of funds received, utilized and unutilized (UC&SOE). In case of failure to repay, without prejudice to any other rights under this GLA, the amount can be recovered by initiating any procedure available in Law.

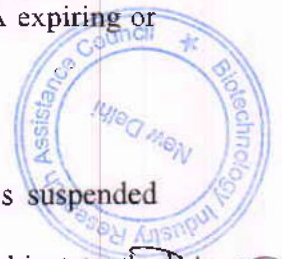
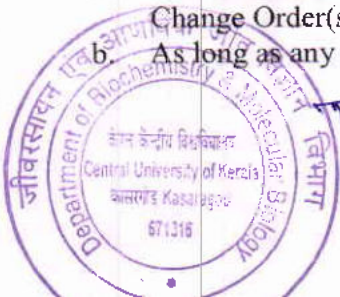
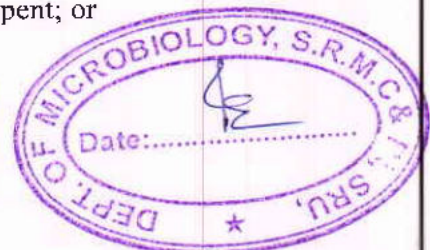
9. DISPUTE RESOLUTION AND ARBITRATION

In the event of any dispute or difference between the Parties hereto upon or in relation to or in connection with this GLA, such dispute or difference, shall be resolved amicably and in good faith by mutual consultation.

If such resolution is not possible, then the unresolved dispute or difference whatsoever arising between the Parties out of or relation to the construction, meaning, scope, operation or effect of this GLA or the validity the breach thereof or in respect of any defined legal relationship associated therewith or derived there from dispute shall be submitted for arbitration to International Center for Alternate Dispute Resolution (ICADR), an autonomous organization working under the aegis of the Ministry of Law & Justice, Department of Legal Affairs, Government of India. The Authority to appoint the arbitrator(s) shall be the ICADR. The Arbitration under this Clause and provision of administrative services by ICADR shall be in accordance with the ICADR Arbitration Rules, 1996 read with The New Delhi International Arbitration Centre Act 2019. The award made in pursuance thereof shall be binding on the Parties. The venue of arbitration shall be New Delhi and the arbitration proceedings shall be conducted in English Language. The provision of this Clause shall not become inoperative notwithstanding the GLA expiring or ceasing to exist or being terminated or foreclosed.

10. EFFECT AND AMENDMENTS TO THE GLA

- a. GLA shall remain in force for whichever of these is the longest time unless suspended sooner:
- a. For **08 Months** (Project duration) months from the above Effective Date subject to the Change Order(s) issued by the BIRAC from time to time
- b. As long as any part of the amount disbursed for the Project remains unspent; or



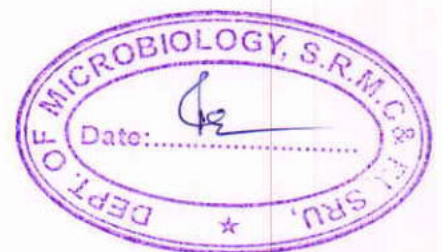
- c. For as long as any monitoring or recording or IP governance is required under any relevant laws and regulations.
- b. No amendment or modification of this GLA shall be valid unless the same is made in writing by the Parties or their authorized representatives specifically stating the same to be an amendment of this GLA. The modifications / changes shall be effective from the date on which they are made / executed unless otherwise agreed to.

11. SEVERABILITY

In case any one or more of the provisions or parts of a provision contained in this GLA shall, for any reason, be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision or part of a provision of this GLA; and this GLA shall, to the fullest extent lawful, be construed as if such invalid or illegal or unenforceable provision, or part of a provision, had never been contained herein.

12. GOVERNING LAW

This GLA and the associated undertaking shall be governed and interpreted in accordance with the laws of India subject to the exclusive jurisdiction of the Courts at New Delhi.



Acceptance & Undertaking

In consideration of the foregoing, the Company, intending to be admittedly bound by the terms set forth above, undertake as stated below;

The Fund Recipient shall;

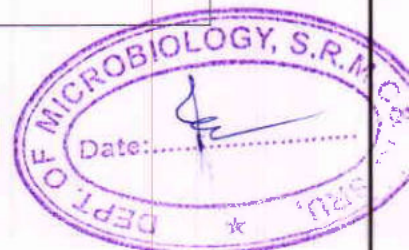
1. Execute the activities as set out in the Project document and shall conform to the specified objectives, outputs, milestones, and targets therein at **Schedule 3**.
2. Submit periodic Progress report to BIRAC as per the Project milestones, details of activities involved in performing the Project activities
3. Submit Utilization Certificate (UC) and Statements of Accounts Expenses (SOE) as per **Schedule 1**.
4. Comply with the fund utilization and accounting requirements as per Schedule 1.
5. Obtain all the necessary requisite approvals, clearance certificates, permissions and licenses from the Government/local authorities for conducting its activities/ operations in connection with the Project.
6. Abide by the decisions of BIRAC to modify the objectives, outputs, milestones, targets, Project Grant-in-aid as also the foreclosure of the Project or any of its components as may be arrived at after mutual discussion.
7. Subject itself to Project monitoring of the Project Monitoring Committee (PMC).
8. Maintain strict confidentiality and refrain from disclosure thereof, of all or any part of such information and data exchanged/generated from the Project which is not in the public domain by use and/or publication at the time of its disclosure except for purposes in accordance with this Project or is required by public authority, by law or decree.
9. Complete the Project within the stipulated period subject to the Change Order(s) issued by the BIRAC from time to time.
10. Not sub-delegate or outsource the obligations under this GLA without express permission of BIRAC except as provided for in the Project Document
11. Manage the Intellectual Property developed through the funding Assistance of BIRAC in a manner that ascertains Global Access, regardless of whether this GLA expires, foreclosed or terminated.
12. Adhere to this GLA and the Conditions of Grant, as, violation of any provision of which shall be the reason for suspension of the Grant.
13. Consider any changes to the provisions of this GLA when made in writing only and shall consider any notice duly served if the same shall have been delivered electronically through the official mail of the Project Coordinator or delivered by post at the addresses mentioned in the GLA.
14. **The Company shall** abide by the conditions related to Royalty Payment as per the terms of the corresponding "Royalty Agreement".
15. **The Institute shall** abide by the specific Institute disclosure obligations as per Schedule 1.
16. Acknowledge the assistance of BIRAC while publishing or presenting in any manner the details of the Project, its progress or its success or commercialization/licensing of the Project.


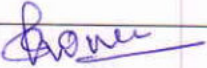
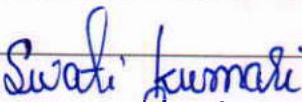


IN ACCEPTANCE WHEREOF the fund recipients hereto through their duly authorized representatives have signed this undertaking as set below:

For and on behalf of M/s MagGenome Technologies Pvt. Ltd. "the Company"	
Date and Place: 23-06-2020, Kochi For MagGenome Technologies Pvt. Ltd.	
Signature	<u>Balamani</u>
Name	M R Balamani Amma Director
Designation	Director
Company Common Seal or Signatures of Two Directors or One Director and Company Secretary	
Witnesses	
Signature	<u>Bibin</u>
Name	Mr. Bibin Kumar M C
Address	MagGenome Technologies Pvt.Ltd., Narayana Building, VII 431-C1, Thazhavaram Lane, Kakkanad, Ernakulam-682030

I)	For and on behalf of "Sri Ramachandra Institute of Higher Education and Research", "Institute 2"
Date and Place: 29.07.2020; CHENNAI	
Signature	<u>Dr. Padma Srikanth</u>
Name	DR. PADMA SRIKANTH



Designation	
Seal 	
Witnesses	
Signature 	Signature 
Name C. SIVASUBRAMANIAN.	Name Dr. Swati Kumari
Address MICROBIOLOGY DEPT. SRI RAMACHANDRA INSTITUTE OF HIGHER EDUCATION & RESEARCH	Address Dept. of Microbiology Sri Ramachandra Medical College Pondicherry, Chennai - 600116

I) For and on behalf of "Central University of Kerala", "Institute 1"

Date and Place:

Signature

Name

Designation

Seal

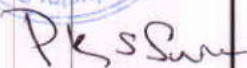
Witnesses

Signature	Signature
Name	Name
Address	Address

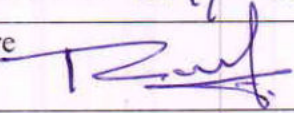




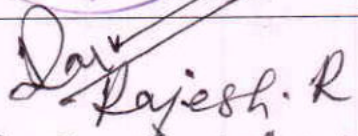


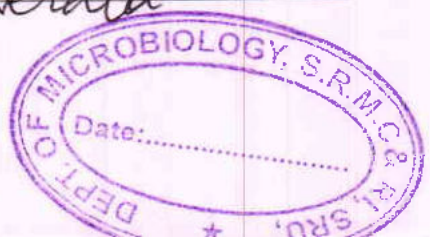




Designation	
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Signature	Signature
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Address	Address

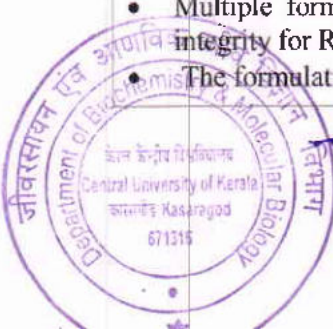
I) For and on behalf of "Central University of Kerala", "Institute 1"	
Date and Place: 29/06/2020 ; Ponje	
Signature	
Name	Dr. Rajendra Pilankatta
Designation	Associate professor & Head
Seal	<p>डॉ. राजेन्द्र पिलांकट्टा / Dr. Rajendra Pilankatta आचार्य / Associate Professor जैवरसायन एवं आणविक जीवविज्ञान विभाग Department of Biochemistry & Molecular Biology केरल केंद्रीय विश्वविद्यालय / Central University of Kerala कासरगोड / Kasaragod-671 320</p> 

Witnesses	
Signature	
Name	RETHEESH-U
Address	Lab Assistant Biochemistry & Mole. Biology Central University of Kerala
Signature	
Name	Rajesh R
Address	Technical Assistant Dept. of BEMB Central University of Kerala



Project Document:

PROPOSAL OBJECTIVES
Objective1: Optimization of viral RNA extraction protocol using influenza virus followed by SARS CoV-2 and kit development
Methodology/Experimental Design To Accomplish The Stated Objective:
<ul style="list-style-type: none"> • Institutional ethics committee approval • Preparation of the components of total RNA extraction kit and RNA extraction from normal saliva spiked with influenza viral particles. • Optimization of the protocol to improve the quality and quantity of RNA • RNA extraction from different amounts of influenza viral load per fixed volume of saliva and also from patient samples followed by Reverse Transcription, real time qPCR • Extraction of SARS CoV-2 RNA from normal saliva spiked with CoV-2 virus with the optimized protocol. Establish Limit of detection. • Extraction of SARS CoV-2 RNA from saliva, sputum, and nasopharyngeal or oropharyngeal swabs spiked with CoV-2 virus with the optimized protocol • Establish stability of kit components <p>Comparability of extraction of RNA from clinical samples saliva, sputum, and nasopharyngeal or oropharyngeal swabs with commercial RNA extraction kit and evaluating compatibility of extracted RNA with commercial real time RT-PCR based SARS COV-2 kits</p>
Alternate Strategies:
<ul style="list-style-type: none"> • The extraction protocol will be optimized at multiple steps before finalizing the optimum protocol. • Spiked samples as well as patient samples saliva, sputum and swabs will be tested for influenza and SARS CoV 2.
Process Indicators for Measuring Success:
<ol style="list-style-type: none"> 1. Expected yield and purity of RNA on Nanodrop 2. RIN value in the acceptable range 3. Intact RNA on gel 4. Ct value of Real time qPCR in acceptable range correlating to the viral concentration
Objective2: Optimization of sample collection solution
Methodology/Experimental Design To Accomplish The Stated Objective:
<ul style="list-style-type: none"> • Preparation of different formulations of collection solution • Determination of the stability of RNA from saliva, sputum and swabs in the best formulated buffer at 4Â°C and at Room temperature, RNA extraction and RT and real time PCR • Establish stability of sample collection solution • Comparison of sample collection solution with existing viral transport medium for viral RNA stability and recovery. Establishing compatibility of the stored RNA samples with commercial real time RT-PCR based SARS COV-2 kits.
Alternate Strategies:
<ul style="list-style-type: none"> • Multiple formulations will be tested for several days and the one which provides the best integrity for RNA will be selected. • The formulation will be tested for saliva, sputum and swabs.



Process Indicators for Measuring Success:

- Expected yield and purity of RNA on Nanodrop
- RIN value in the acceptable range
- Intact RNA on gel
- Ct value of Real time qPCR in acceptable range correlating to the viral concentration

Objective3: Optimization and inclusion of a real time RT PCR detection kit in the final product (complete kit) and Validation of kit by ICMR approved institute and commercialization

Methodology/Experimental Design To Accomplish The Stated Objective:

- Assembly of kits
- Regulatory approvals for pilot manufacturing of kits for testing
- Evaluation of complete kit at ICMR approved centre
- Manufacturing License from CDSCO and kit commercialization

Alternate Strategies:

Multiple steps in Real time PCR will be optimized in an efficient and cost effective manner before compiling the final kit.

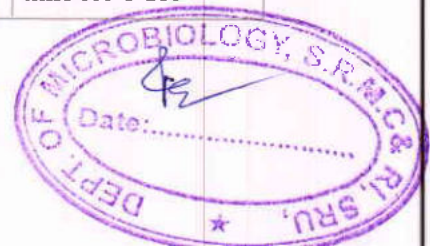
Process Indicators for Measuring Success:

Best performance of the kit will be ensured before applying for regulatory approvals

OBJECTIVE WISE ACTIVITIES & TIMELINES

Objective 1: Optimization of viral RNA extraction protocol using influenza virus followed by SARS CoV-2 and kit development

Activities	Month Of Start Of Activity	Month Of End Of Activity	Deliverables	Role of collaborators
Institutional ethics committee approval	0	1	Receipt of approval	Institutional ethics committee approval for SRIHER and CUK
Preparation of the components of total RNA extraction kit and RNA extraction from normal saliva spiked with influenza viral particles.	0	2	Extraction of good quality and quantity of RNA	Sample collection and RNA extraction from normal saliva spiked with influenza viral particles SRIHER
Optimization of the protocol to improve the quality and quantity of RNA	1	2	Optimization of protocol	Sample collection and assisting in real time RT PCR SRIHER
RNA extraction from different amounts of influenza viral load per	2	3	Completion of protocol for Influenza	Sample collection and assisting in real time RT PCR

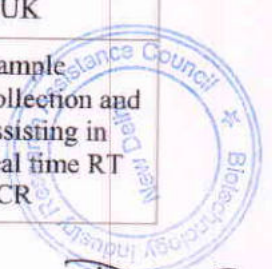
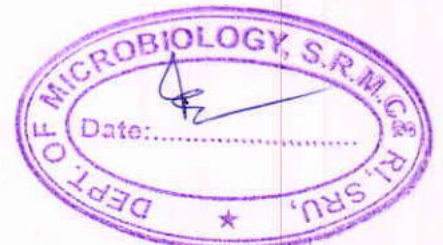


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fixed volume of saliva and also from patient samples followed by Reverse Transcription, real time qPCR					SRIHER
Extraction of SARS CoV-2 RNA from normal saliva spiked with CoV-2 virus with the optimized protocol. Establish Limit of detection.	1	2	Optimization of protocol	Sample collection and assisting in real time RT PCR CUK	
Extraction of SARS CoV-2 RNA from sputum, and nasopharyngeal or oropharyngeal swabs spiked with CoV-2 virus with the optimized protocol	2	3	Optimization of protocol	Sample collection and assisting in real time RT PCR CUK	
Establish stability of kit components	2	3			
Comparability of extraction of RNA from clinical samples (sputum, and nasopharyngeal or oropharyngeal swabs) with commercial RNA extraction kit and evaluating compatibility of extracted RNA with commercial real time RT-PCR based SARS COV-2 kits.	3	4	Completion of protocol for SARS CoV 2	Sample collection and assisting in real time RT PCR CUK	

Objective 2: Optimization of sample collection solution

Activities	Month Of Start Of Activity	Month Of End Of Activity	Deliverables	Role of collaborators
Preparation of different formulations of collection solution	5	6	Optimization of storage buffer	Sample collection and assisting in real time RT PCR SRIHER, CUK
Determination of the stability of RNA from sputum and swabs in the best formulated buffer at 4°C and at Room	5	6		Sample collection and assisting in real time RT PCR



PKS

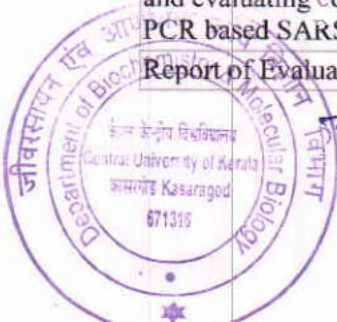
temperature, RNA extraction and RT and real time PCR				SRIHER, CUK
Establish stability of sample collection solution	5	6	Ensured stability	Sample collection and assisting in real time RT PCR SRIHER, CUK
Comparison of sample collection solution with existing viral transport medium for viral RNA stability and recovery. Establishing compatibility of the stored RNA samples with commercial real time RT-PCR based SARS COV-2 kits	6	7	Completion of sample collection kit	Sample collection and assisting in real time RT PCR CUK

Objective 3: Optimization and inclusion of a real time RT PCR detection kit in the final product (complete kit) and Validation of kit by ICMR approved institute and commercialization

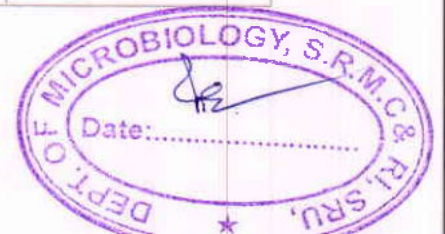
Activities	Month Of Start Of Activity	Month Of End Of Activity	Deliverables	Role of collaborators
Assembly of kits	7	8	Complete kit as final product	NA
Regulatory approvals for pilot manufacturing of kits for testing	8	8	Receipt of approval	NA
Evaluation of complete kit at ICMR approved centre	8	8	Receipt of approval	NA
Manufacturing License from CDSCO and kit commercialization	8	8	Receipt of license	NA

Milestones and Timelines:

Milestones	Month of End of Activity
Signing of GLA	0
Comparability of extraction of RNA from clinical samples (sputum, and nasopharyngeal or oropharyngeal swabs) with commercial RNA extraction kit and evaluating compatibility of extracted RNA with commercial real time RT-PCR based SARS COV-2 kits.	4
Report of Evaluation of complete kit at ICMR approved centre	8



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INTELLECTUAL PROPERTY GOVERNING FRAMEWORK**1. SCOPE OF IP GENERATED DURING THE CONDUCT OF THE PROJECT**

- a) The New Intellectual Property (IP) rights belong to fund recipients unless agreed otherwise.

Provided, this Project is not determined as a "Nationally Important Project" to be governed through specific 'Order of BIRAC'. Such cases of "Nationally Important Project" shall have specific terms of licensing, pricing or March-in-rights for the purposes of public interest/ demand of Government of India.

- b) It is the responsibility of the Fund Recipients to protect the New Intellectual Property (New IP). They shall bear the expenditure involved in protecting the New IP.

2. GLOBAL ACCESS

The Fund Recipient agree to conduct and manage the Project and the resulting products, services, processes, technologies, materials, software, data or other innovations (collectively, "Product") and any IP that arises (New IP) in the manner that ensures "Global Access."

Global Access requires that

- a) The knowledge and information gained from the Project be promptly and broadly disseminated or published.
- b) Project Developments and/or New IP are made available and accessible at an affordable price to people most in need within developing countries.
- c) In this regard, ensure Global Access in all present and future research and development agreements in a suitable form.

NOTE: For the purpose of this GLA, New IP means intellectual property generated during the conduct of the Project by the fund recipients, but excluding the intellectual property generated by the Fund Recipient before execution of this GLA and any IP generated outside the scope of this GLA even during the term of this GLA.

1. The background Intellectual Property (IP) generated by the Fund Recipient(s) before execution of this GLA are as provided hereunder:

I.	Background IP of the Company
	Indian Patent: IN 244248; Indian Patent Application: 202041027858
II	Background IP of the Institutes (SRIHER and CUK)
	Nil



Compendium Information for BIRAC 9th BIRAC Innovators Meet on 1st March - 3rd March, 2021

BIRAC <biracbig.dbt@nic.in>

Fri, Jan 29, 2021 at 6:12 PM

Reply-To: BIRAC <biracbig.dbt@nic.in>

To: aswati@cukerala.ac.in

Cc: ashukla.birac@nic.in, user2.birac@nic.in

Dear Innovator,

Greetings from BIRAC!

You will be pleased to know that BIRAC is organizing the **9th BIRAC Innovators Meet as part of the Global Bio India 2021 during 1st - 3rd March, 2021**. The Innovators Meet is an excellent platform for innovators to network with key stakeholders, peer group and showcase the innovations and achievements to them.

Like previous years, BIRAC would come up with different publications covering details of innovations supported under various schemes. One of these publications is the Compendium, which provides information about the ongoing and recently completed projects. All the publications have a wide circulation amongst mentors, investors, key opinion leaders and provide an excellent opportunity to innovators to showcase their innovative ideas to this rarely accessible group of experts. We have selected your innovation to be covered as part of our **Compendium 2021**.

Please provide required information by filing in the online questionnaire accessible through your Project Log In on the [BIRAC Portal](#)



केरल केंद्रीय विश्वविद्यालय

CENTRAL UNIVERSITY OF KERALA

संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

1981-5/11/69

14.09.2021

Prof.(Dr.) Govinda Rao
Chairman, MoU Committee
Central University of Kerala

Sub: Entering into MoUs with various firms/organizations – reg.
Ref: Academic Council Meeting Minutes held on 27.08.21.

Sir,

With reference to the subject and reference cited. The Academic Council vide Item No.AC:23:04 has approved all the MoUs listed below in principle subject to the final clearance from the Executive Council for their entering:

Sl.No	Name and Designation of the Faculty	MoU with
1.	Prof (Dr.) T Mallikarjunappa Department of Commerce and International Business	a) The North Malabar Chamber of Commerce (NMCC), Kannur 670 002 b) The Kanara Chamber of Commerce and Industry (KCCI),Bunder,Mangalore
2.	Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics	Petrozavodsk State University (PetrSU), Russia
3.	Dr. Pratheesh P Assistant Professor & Head (i/c) Dep. of Geology	National Institute of Disaster Management, India

Thanking you,

Yours faithfully,

सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल / TEJASWINI HILLS, PERIYE (P.O.)

KASARAGOD - 671 316, KERALA, दूरभाष/ Phone : 0467-2232403, 2232409,

वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in



केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

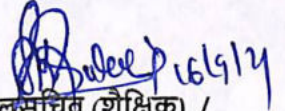
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No.CUK/ACA/F.1040/AC/2021

; of dated 14.09.2021

प्रतिलिपि / Copy to:

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2. Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics
3. Dr. Pratheesh P, Assistant Professor & Head (i/c), Dept. of Geology
4. Dr.P.M Aneesh, Convener, MoU Committee, Assistant Professor, Dept. of Physics
5. Office copy.


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MEMORANDUM OF UNDERSTANDING

Between

Kanara Chamber of Commerce & Industry, Mangaluru.

and

xxxxx College, Mangaluru.

This non-financial Memorandum of Understanding (MOU) is made on xxx of xxxxxxx 2021 (Friday) between The Kanara Chamber of Commerce & Industry, Mangaluru (herein referred as "KCCI") and The xxxxx College, Mangaluru.

The KCCI, Mangaluru is a not for profit Company and the apex body in the region which works along with the members, for the empowerment and betterment of the business community and strives for the development of trade, commerce and industry, entrepreneurs, and has rendered remarkable service to the economic progress of Dakshina Kannada. The KCCI is having its office at Bunder, Mangaluru, managed by the Board of members and represented by its President Sri Isaac Vas, hereinafter referred as the FIRST PARTY.

And

The xxxxx College, Mangaluru, affiliated to Mangalore University, located at _____, Mangaluru, and conducting varied undergraduate programmes like _____ and a Post Graduate programme _____, represented by its Principal _____, herein referred as SECOND PARTY.

SCOPE OF MOU

Whereas KCCI having various business firms ranging from small to very large enterprises as its members and whereas xxxxx College having various students who are undergoing educational training and whereas KCCI through its members will be able to enhance the confidence of the students, by nurturing young minds and help budding young talents.

This collaboration is between KCCI and xxxxxx College, with the objective of having industry-institute interface. The students of xxxxx College who seek a rewarding career in finance and management or to become entrepreneurs, shall get hands-on information and knowledge through this mutual understanding between the KCCI and the xxxxx College.

VISION and MISSION of KCCI

VISION

To evolve as a catalyst of growth for the area of Dakshina Kannada guided by the business ethics and traditions evolved in this region over the years and driven by the sustained enthusiasm of making the best use of the rich material and intellectual resources of this region.

MISSION

Mission of making Dakshina Kannada a favourable destination for investment and economic growth by:

- Promoting quality and best business practices amongst our members.
- Being proactive in partnering with the governmental agencies in formulating and implementing favourable business policies.
- Empowering the business, trade and industrial community with the best of business intelligence.
- Making the commercial establishments of this area globally competitive and giving them global recognition.
- Promoting responsible corporate citizenship among our members and facilitating social harmony and inclusive growth of all the sections of the society.

VISION and MISSION of _____ COLLEGE, MANGALURU.

VISION

_____ PLEASE INSERT THE VISION _____

MISSION

_____ PLEASE INSERT THE MISSION _____

ROLE OF KCCI

1. In collaboration with xxxxxx College or other colleges, KCCI shall conduct programmes relating to self-employment, deliberations on Entrepreneurship Development etc.
2. To the best of its ability, KCCI shall strive to provide opportunities for Internships to the students through the members of KCCI.
3. To direct its members to seek Consultation services from the faculty of XXXXX College.
4. Wherever possible, assist in arranging field visits to the industries for giving practical exposure to the students.
5. In collaboration with xxxxx College, arrange to conduct guest lectures by Micro, small and medium scale entrepreneurs to provide knowledge to the students and to help them to become industry-ready.
6. In collaboration with Institutions and Industry experts arrange to conduct short-term certificate courses, workshop, guest lectures and similar programs for faculty to up-grade existing skills of faculty.
7. Arrange periodic meetings by Industrial Officials with Departmental Faculty heads to assess and evaluate the need for employable graduates/postgraduates.
8. Encourage members of KCCI to access skilled candidates who have shown potential through Campus Recruitment.
9. Collaborate with other institutions to conduct Joint Community Development programmes with the students of the institutions in local areas to promote and accomplish joint community goals.

ROLE OF xxxxx COLLEGE

1. The xxxxx College shall strive to depute students and faculty to the workshops or programmes organised by KCCI.
2. The xxxxx College shall strive to participate and host Faculty Development Programmes in the institutions for faculty from affiliated institutions at a nominal fee. The xxxxxxxx College shall invite members of KCCI for such program.
3. The xxxxxx College shall collaborate with the KCCI in organising any programmes or workshops in the college.
4. The xxxxxx College shall assist the KCCI to organise guest lectures/workshops by the member industrialists in the College.

5. The xxxxxx College in collaboration with the KCCI, its members & industry connected institutions help in developing curricula keeping in mind the present and future industrial needs of the state and nation-wide needs.
6. The xxxxxx college, wherever necessary, shall conduct periodic evaluation of students undergoing Industrial Training with members of KCCI to ensure quality training and effective use of Industry resources.
7. The xxxxxx College shall strive to base student projects on current industrial problems and shall monitor the project diligently to jointly benefit Industry and Academic Institutions.
8. The xxxxxx College shall strive to assist their students in their future career planning through interaction the successful industrial entrepreneurs who are members of the KCCI.

RELATIONSHIP BETWEEN PARTIES

This MOU is not intended to be legally binding, but it expresses the intentions and understandings between both Parties.

NOTICES

Any communication made by one party to the other under this MOU shall be in writing in the English language and shall be addressed to the respective party's office as is designated in writing.

TERM

The Duration of this MOU is for a period of **_three_ years from the date** ___th _____ 2021 to ___th _____ 2024.

For Kanara Chamber of Commerce and Industry

For xxxx College

President

Principal



केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

1981-5/11/69

14.09.2021

Prof.(Dr.) Govinda Rao
Chairman, MoU Committee
Central University of Kerala

Sub: Entering into MoUs with various firms/organizations – reg.
Ref: Academic Council Meeting Minutes held on 27.08.21.

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3.	Dr. Pratheesh P Assistant Professor & Head (i/c) Dep. of Geology	National Institute of Disaster Management, India

Thanking you,

Yours faithfully,

सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल / TEJASWINI HILLS, PERIYE (P.O.)

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वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in



केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

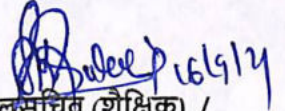
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No.CUK/ACA/F.1040/AC/2021

; of dated 14.09.2021

प्रतिलिपि / Copy to:

1. Prof (Dr.) T Mallikarjunappa , Head, Department of Commerce and International Business
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वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in

Memorandum of Understanding

between

Central University of Kerala (CUK)

and

The North Malabar Chamber of Commerce (NMCC)

Memorandum of Understanding between
Central University of Kerala (CUK)
and
The North Malabar Chamber of Commerce (NMCC)

This Memorandum of Understanding (herein after referred to as MoU) is made on the 10th September, 2021, between The Central University of Kerala (CUK), (hereinafter referred to as CUK), a Central Government Institution of Higher education established by The Central Universities Act, 2009, under **the ordinance** Section 6 (1) and Section 28 (1) (k) of the Act), having its headquarters at Tejaswini Hills, Periya PO, Kasaragod, Kerala - 671320 on one part

AND

The North Malabar Chamber of Commerce which is an association incorporated in 1952, registered at Registrar of Companies, Kannur, Kerala, India, with Identification Number as IN NO:U91110KL1952NPL001580, and registered address as No.MT81, Thayatheru- Kannur, Tellicherry Road, Kannur, Kerala (NMCC), (mentioned hereafter as “NMCC”), on the other part as partners for promoting research and application of the technological output, visits of members of both the CUK and NMCC, joint hosting of events of mutual interest and carry on the objectives of the MOU.

1. PARTNER BACKGROUND

Central University of Kerala: CUK a Central Government Institution of Higher education established by The Central Universities Act, 2009, under the ordinance Section 6 (1) and Section 28 (1) (k) of the act), having its headquarters at Tejaswini Hills, Periya PO, Kasaragod, Kerala, 671320.

CUK is founded on the noble vision of a ‘caring wisdom’ and is guided by the lofty ideals of academic and social commitment, moral steadfastness and intellectual and spiritual enlightenment, as reflected in its vision statement. Located in a region characterized by linguistic and ethnic diversity and cultural richness, the University seeks to harness the local resources – human, intellectual, social, artistic and cultural – while bringing in the best that is globally available, thus maintaining a fruitful, symbiotic relationship with a region that badly needs an educational uplift.

NMCC: In 1952 a group of nine prominent Traders and Industrialists of Kannur formed an Association for protecting and promoting the interests of the business community and registered it under the Indian Companies Act in the name and style of The North Malabar Chamber of Commerce. Over the years, the Chamber has evolved and redefined its role from

espousing the causes of traders and industrialists to becoming a prime mover for transforming the North Malabar region through developmental initiatives.

The Chamber's relentless focus on removing the backwardness of this region has culminated in many projects which have either been commissioned or are in different stages of completion. The Kannur International Airport, Azhikkal Port, Textile Centre at Nadukani, Inland Container Depot, NIFT Centre, GI Registration for Cannanore Home Furnishing Products are some of these. In addition, NMCC is actively following up the Kannur Power Project, Thalassery-Mysore Railway Link, National Highway Development, Bye-pass Roads, Express Highway, Agri Food Park, Tourism Development, Permanent Exhibition Centre for Handloom Products, Central University in Kasargod District etc. NMCC has played a key role in getting Kannur recognised as a "Town of Export Excellence" by the Union Ministry of Commerce.

2. COMMON OBJECTIVES

CUK and NMCC want to work jointly to facilitate industry, academia and research collaboration in the areas of mutual interest. Moreover, to increase the relevance of industry exposure to the students, researchers and faculty members of the CUK and to have continuous interaction by the members of NMCC with the CUK in areas of mutual interest, this MoU will be a facilitating mechanism. To collaborate, to share and exchange information between both parties for mutual benefit, knowledge enhancement and to facilitate visits from CUK to NMCC and NMCC to CUK. The aim of this MoU is also to enhance participation in and co-hosting of lectures, meetings, seminars, symposia and conferences, develop indigenous technologies, conduct trade fairs, exhibitions, industry products and services campaigns, exposure to start ups and new product developments and promotion.

3. SCOPE OF MOU

Within the scope of this MoU, CUK and NMCC agree to conduct the following activities. However, the terms and conditions for conducting these activities mentioned below will be agreed upon through separate and specific agreements.

- 3.1. Conducting career guidance seminars inviting prominent members from the industry.
- 3.2. Interactive sessions between Members of NMCC and various Departments of CUK for training and development of students.
- 3.3. Creating collaborative platforms for conducting Job fairs and Placement drives.
- 3.4. Creating intellectual properties which can be useful for the University departments as well as the Industry.

- 3.5. Collaborating in the areas of carrying out market research and brand promotion for NMCC members with the help of various departments of the CUK.
- 3.6. Conduct Management Development program for the members of NMCC.
- 3.7. Collaborating in conducting trade fairs, business meets and other related activities.
- 3.8. Create collaborative platform for Student start ups, its incubation and funding.
- 3.9. Any other areas of collaboration mutually agreed between CUK and NMCC.

4. FINANCE

Regarding the financial arrangements during the Project implementation, CUK and NMCC further agree to:

- 4.1 Both the institutions will engage services of the existing employees for the Programme.
- 4.2 Financial arrangements for implementation of the MoU will be subject to mutually agreed terms to be specified in a separate terms of co-operation (ToC).

5. INTELLECTUAL PROPERTY RIGHTS

Any material developed through activities pursuant to this MoU will be the joint property of both CUK and NMCC. Any such material may be disseminated by a party only after obtaining prior written consent of the other party.

6. IMPLEMENTATION AND MONITORING

For implementing and monitoring of the programme, CUK and NMCC also agree that:

- 6.1 The interaction between **CUK and NMCC** will be implemented by creating a Coordination Committee with nominated Officials as its members from both **CUK and NMCC**
- 6.2 If the activities could result in the form of publication/patent then the Intellectual Property Rights (IPR) will be with both the institutes with due percentage share mutually agreed upon.

Notwithstanding this MoU, **CUK and NMCC** will sign separate agreement for specific projects.

7. CONFIDENTIALITY

- 7.1 Each party shall undertake to maintain the confidentiality of the documents, information and other data received from the other party during the period of implementation of this MoU or any other agreement made pursuant to this MoU.
- 7.2. Both parties agree that the confidentiality clause shall continue to be binding between the parties notwithstanding the termination of this Memorandum of Understanding.
- 7.3. This is exclusive of those cases in which disclosure of such confidential documents or information is mandatory under prevailing laws.

8. FORCE MAJEURE

In the event of either Party not being able, by reason of force majeure, to meet any of its obligations under this MoU, such obligation shall be suspended for as long as the inability

continues or any date mutually agreed between the Parties, provided that Party gives to the other Party written notice within fourteen (14) days after the occurrence of any such event.

8.1 Neither Party shall be liable to the other Party for any loss or damage sustained by the other Party arising from the occurrence of any such event.

8.2 The term 'force majeure' as employed herein shall mean an event not within the control of either Party which, by the exercise of due diligence, neither Party is able to overcome and this, includes any act of God, strike, lockout or other industrial disturbance, wars, insurrections or riots, civil disturbances as well as explosions.

9. LIABILITY

9.1. Both CUK and NMCC shall be solely responsible for any and all claims and/or damages in connection with the exercise of its objectives hereunder.

9.2. Both parties further agree that no employment relationship or partnership, express or implied, is created between them.

10. INDEMNITY

Both parties hereby indemnify and shall keep indemnified and protected the other party and their respective officers and employees from and against any claims or actions arising out of or in any way relating to the provision and implementation of the Programme as per this MoU.

11. DURATION OF MoU

The MOU would be effective for a period of 5 years from the date of signing it. It may be extended after expiry of such period and on such terms and conditions as may be mutually agreed upon.

12. CONFLICT OF INTEREST

Both Parties warrant that this MoU is not likely to have any conflict of interest with any of their organizational, financial, contractual or other interests relating to the activities under this MoU.

13. AMENDMENTS

13.1 Either Party may request in writing for a revision, amendment or modification of all or any part of this MoU.

13.2 Any revision, amendment or modification agreed to between the Parties shall be in writing and shall come into force on such date as determined by the Parties and shall form part of this MoU.

14. TERMINATION

14.1. Either Party may terminate this Memorandum of Understanding at any time by means of at least 90 calendar days written notice to the other Party.

14.2. The early termination of this Memorandum of Understanding will not affect the completion of any co-operation measures that were agreed under the annual work programmes whilst it was in force.

15. JURISDICTION

In the event of any dispute arising out of this MoU, the parties agree that the High court of Kerala alone will have the jurisdiction.

The two parties of this MoU agree to act in good faith and in a spirit of mutual understanding and accommodation to facilitate the achievement of goals set under the Programme.

IN WITNESS WHEREOF the parties here to have caused this MoU to be signed in their respective names as of the day and year.

Signatures and seals of the Parties:

Central University of Kerala

The North Malabar Chamber of

Registrar,

President,

Kannur University,

NMCC

Thavakkara, Civil Station P.O.

Chamber Junction

Kannur, Kerala Pin : 670 002

Kannur 670 002

Date:

Witnesses:

1. _____

1. _____

2. _____

2. _____

**MEMORANDUM OF AGREEMENT
BETWEEN
CENTRAL UNIVERSITY OF KERALA, PERIYE
AND
GOETHE ZENTRUM, THIRUVANANTHAPURAM**

This Memorandum of Agreement is entered on the 5th day of January 2019 by and between Central University of Kerala (hereinafter CUK) represented by its Registrar situated at Periyar, Kasaragod, Kerala, established under “The Central Universities Act, 2009 (Parliament Act No. 25 of 2009)”.

and

The Goethe-Zentrum is an autonomous body set-up by the world-wide organization named Goethe-Institut, under the auspices of the German Foreign Office to promote German language and intercultural and academic/scientific cooperation with Germany. The Goethe Zentrum in Trivandrum is managed by the Indo-German Language and Cultural Society registered under the Trancanore-Cochin Literary, Scientific and Charitable Societies Registration Act 1955.

The aforesaid institutions are hereinafter referred to individually as *University* and *Institute*.

Whereas the Institute has the competence to offer expertise and training in matters related to German Language, which could be made use of by the University through academic collaboration with Department of International Relations of the Central University of Kerala, at its Capital Centre, to facilitate academic linkage and interaction.

Whereas University is aspiring to establish collaboration with the Institute in areas that include Bachelor’s Programmes in International Relations, joint workshops, Faculty and Students exchange and sharing of data and library facilities on German language and related areas;

Therefore this MOA witnesseth as follows.

1. Objectives of the MOU

The Objectives of the MOU are:

- a) To launch training programs on German Language and culture for integrated BA/MA Programme for CUK students in areas where the institute has expertise in accordance with the University curriculum.
- b) To ensure Capacity building for CUK faculty/research scholars/PG/Graduate students on German language
- c) To facilitate the exchange programme between CUK and German universities/ institutes for various academic programs.

2. Terms and Conditions

The Institute will be providing facilities to integrated BA/MA students who are doing their undergraduate/ post-graduate studies in International Relations the University will be providing facilities to GZ faculty members to engage in lectures, joint research, and collaborative workshops and cultural programs at CUK.

3. Duration of MOA

The MOA shall come into force within 30 days from the date of signing the agreement. This MOA, unless extended by mutual written consent of both institutions, shall expire in FIVE years after the effective date specified in the opening paragraph. The MOA shall be reviewed after two years. It shall be open to both parties for extension by mutual consent as per the ordinance/rules of the university. Rs. 1000/- per hour will be paid for the lecture/ tuition to the faculty (hourly rate can be review every year on mutual understanding).

4. Intellectual Property Rights

The intellectual property rights (IPR) that arise as a result of joint research and collaborative activity under the agreement will be worked out on a case-to case basis and will be consistent with officially laid down IPR policies of the two institutions.

5. Signed on Duplicate

The MOU is executed in duplicate with each being an official version and having equal legal validity. By signing below, the institutions, acting by their duty authorized officer, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of

Central University of Kerala,
Periye.

On behalf of

Gethe-Zentrum
Thiruvananthapuram.

Dated

**MEMORANDUM OF AGREEMENT
BETWEEN
CENTRAL UNIVERSITY OF KERALA, PERIYE
AND
ALLIANCE FRANCAISE DE TRIVANDRUM, THIRUVANANTHAPURAM**

This Memorandum of Agreement is entered on the 20th day of March, 2018 by and between Central University of Kerala (hereinafter CUK) situated at Periye, Kasaragod, Kerala, established under “The Central Universities Act, 2009 (Parliament Act No. 25 of 2009)”.

and

Alliance Francaise de Trivandrum (hereinafter AF) situated at Sudharasana, Forest Lane Office, Vazhutacaud, Trivandrum, established in the year 1980.

The aforesaid institutions are hereinafter referred to individually as *University* and *Institute*.

Whereas the Institute has the competence to offer expertise and training in matters related to French Language, which could be made use of by the University through academic collaboration with the Department of International Relations of the Central University of Kerala, at its Capital Centre, to facilitate academic linkage and interaction.

Whereas University is aspiring to establish collaboration with the Institute in areas that include Bachelor’s / Master’s/ Programmes in International Relations, joint workshops, Faculty and Students exchange and sharing of data and library facilities on French language and related areas;

Therefore this MOA witnesseth as follows.

1. Objectives of the MOU

The Objectives of the MOU are:

- a) To launch training programmes on French Language and culture for integrated BA/MA Programme for CUK students in areas where the institute has expertise.
- b) To ensure Capacity building for CUK faculty/research scholars/PG/Graduate students on French language

- c) To facilitate the exchange programme between CUK and French universities/ institutes for various academic programmes.

2. Terms and Conditions

The Institute will be providing facilities to integrated B.A/M.A students who are doing their undergraduate/ post-graduate studies in International Relations the University will be providing facilities to AF faculty members to engage in lectures, joint research , and collaborative workshops and cultural programmes CUK

3. Durations of MOA

The MOA shall come in to force within 30 days from the date of signing the agreement. This MOA, unless extended by mutual written consent of both institutions, shall expire in FIVE after two years. It shall be open to both parties for extension by mutual consent as per the ordinance/rules of the university. Rs. 1000/- per hour will be paid for the lecture/tuition to the faculty (hourly rate can be review every year on mutual understanding).

4. Intellectual Property Rights

The intellectual property rights (IPR) that arise as a result of joint research and collaborative activity under the agreement will be worked out on a case-to caste basis and will be consistent with officially laid down IPR policies of the two institutions.

5. Signed on Duplicate

The MOU is executed in duplicate with each being an official version and having equal legal validity. By signing below, the institutions, acting by their duty authorized officer, have caused this Memorandum of Understanding to the executed, effective as of the day and year first above written.

On behalf of

On behalf of

Central University of Kerala,
Periye

Alliance Francaise
Thiruvananthapuram.

Dated :

DCKSGD/7697/19-A6

Collectorate, Kasargod
Date : 01/11/2019

From

The District Collector
Kasargod

To

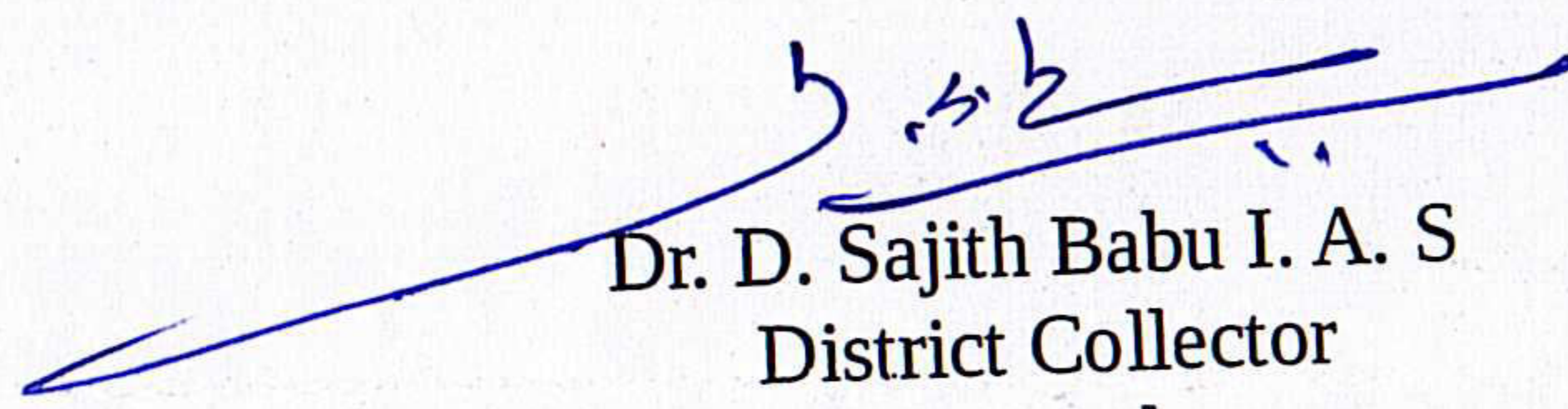
Dr. M.R Biju,
Head,
Dept. Of Public Administration and Policy Studies,
Central University Of Kerala,
Periye, kasargod.

Sir,

Sub : District Collector's Internship Programme-reg
Ref : Your letter dated 27.09.2019.

As per the reference cited above the students who have undergone the one month's internship programme during the period from 20.09.2019 to 20.10.2019 , have completed it successfully. Their marklists are attached herewith.

Yours faithfully,


Dr. D. Sajith Babu I. A. S
District Collector
Kasargod

Attacehd enclosures
1. Mark list.



DISTRICT COLLECTOR'S INTERNSHIP PROGRAMME 2019

Group Subject	Name	Content (50 Marks)			Style of Presentation (10 Marks)			Participation in the Group (20 Marks)			Knowledge about the Project (20 Marks)			Total (100 Marks)	Remarks
		DC	DPO	Average	DC	DPO	Average	DC	DPO	Average	DC	DPO	Average	Grand Total	
I. KSTP Road Beautification	1) Anamika.M	15	20	17.5	5	6	5.5	15	10	12.5	10	10	10	45.5	Passed
	2) Fathimath Tamsheera. A.P	15	20	17.5	5	3	4	15	4	9.5	9	10	9.5	40.5	Passed
	3) Ayshath Munasifa P.M	15	20	17.5	5	5	5	15	16	15.5	10	16	13	51	Passed
	4) Shibla Anjoom.K	15	20	17.5	4	7	5.5	15	18	16.5	9	17	13	52.5	Passed
II. 100% Insured Agriculture	1) Joice Joseph	18	21	19.5	4	8	6	12	15	13.5	8	18	13	52	Passed
	2) S Gopal	18	21	19.5	5	5	5	13	10	11.5	9	16	12.5	48.5	Passed
	3) Samalla Ramakanth	18	21	19.5	3	5	4	11	10	10.5	6	14	10	44	Passed
	4) Boddeemolla Lingappa	18	21	19.5	7	5	6	15	8	11.5	12	8	10	47	Passed
III. Theam Beach	1) Anisha U	35	40	37.5	8	8	8	16	18	17	16	18	17	79.5	Passed
	2) Ashin paul	35	40	37.5	8	8	8	19	18	18.5	16	18	17	81	Topper

IV. Cable Car Project (Kottenchery- Ranipuram)	1) Aiwan Jose Kurian	28	30	29	5	7	6	14	17	15.5	8	17	12.5	63	Passed
	2) Apu.S.Raj	28	30	29	5	7	6	15	16	15.5	9	16	12.5	63	Passed
V.City Beautification	1) Suchithra.K	16	15	15.5	3	7	5	9	16	12.5	4	13	8.5	41.5	Passed
	2) Sukanya.P	16	15	15.5	3	7	5	9	14	11.5	4	13	8.5	40.5	Passed
	3) Nethravathi K.P	16	15	15.5	3	6	4.5	9	14	11.5	5	12	8.5	40	Passed
VI. Kasarod Cafe	1) Devanand Kodoth	23	40	31.5	7	7	7	11	15	13	3	17	10	61.5	Passed
	2) Aboobecker Niyahul Hannas	23	40	31.5	6	8	7	11	15	13	3	17	10	61.5	Passed
VII. Boat Circuit (Chandragiri-Nellikunnu)	1) Kannan Nalakath Fayas	32	30	31	7	6	6.5	14	12	13	14	14	14	64.5	Passed
	2) Geo Christy Thomas	32	30	31	6	5	5.5	14	12	13	14	12	13	62.5	Passed
VIII. F M Radio	1) Maneesha.A	41	40	40.5	7	7	7	13	16	14.5	12	16	14	76	Passed
	2) Jasmine Basheer K	41	40	40.5	8	7	7.5	12	16	14	14	16	15	77	Passed
	3) Haritha.T	41	40	40.5	6	7	6.5	12	16	14	12	16	14	75	Passed
	4) Umaimath.K.M	41	40	40.5	5	7	6	12	15	13.5	12	15	13.5	73.5	Passed

IX. Mussels Processing Unit	1) Sangeetha P.V	40	38	39	7	8	7.5	14	16	15	16	17	16.5	78	Passed
	2) Remya Mohan T.V	40	38	39	7	8	7.5	14	17	15.5	16	17	16.5	78.5	Passed
X. Industrial Cluster (Cashew & Arecanut)	1) Athira K	23	20	21.5	5	4	4.5	8	6	7	12	8	10	43	Passed
	2) Shijina B	23	20	21.5	5	4	4.5	8	6	7	12	8	10	43	Passed
XI. Bird Sanctuary Kidhoor	1) Rhethuparnan. V.T	30	35	32.5	7	8	7.5	14	17	15.5	13	16	14.5	70	Passed
	2) Jishnu K	30	35	32.5	7	8	7.5	14	17	15.5	13	16	14.5	70	Passed
	3) Pranav. K	30	35	32.5	7	7	7	14	16	15	13	16	14.5	69	Passed
XII. Koraga Brand Pullanji Cultivation	1) Sivajith Sasi	40	37	38.5	7	8	7.5	13	17	15	14	17	15.5	76.5	Passed
	2) Meenapally Prabhakar	40	37	38.5	8	6	7	16	13	14.5	15	14	14.5	74.5	Passed
	3) Joms Litson	40	37	38.5	7	7	7	15	18	16.5	14	14	14	76	Passed

D.S.B
Dr. D. SAJITH BABU IAS
DISTRICT COLLECTOR
KASARAGOD



केरल केंद्रीय विश्वविद्यालय

CENTRAL UNIVERSITY OF KERALA

संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

1981-5/11/69

14.09.2021

Prof.(Dr.) Govinda Rao
Chairman, MoU Committee
Central University of Kerala

Sub: Entering into MoUs with various firms/organizations – reg.
Ref: Academic Council Meeting Minutes held on 27.08.21.

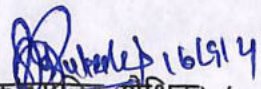
Sir,

With reference to the subject and reference cited. The Academic Council vide Item No.AC:23:04 has approved all the MoUs listed below in principle subject to the final clearance from the Executive Council for their entering:

Sl.No	Name and Designation of the Faculty	MoU with
1.	Prof (Dr.) T Mallikarjunappa Department of Commerce and International Business	a) The North Malabar Chamber of Commerce (NMCC), Kannur 670 002 b) The Kanara Chamber of Commerce and Industry (KCCI),Bunder,Mangalore
2.	Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics	Petrozavodsk State University (PetrSU), Russia
3.	Dr. Pratheesh P Assistant Professor & Head (i/c) Dep. of Geology	National Institute of Disaster Management, India

Thanking you,

Yours faithfully,


सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल / TEJASWINI HILLS, PERIYE (P.O.)

KASARAGOD - 671 316, KERALA, दूरभाष/ Phone : 0467-2232403, 2232409,

वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in



केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

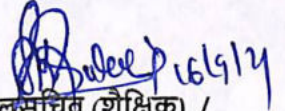
संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

; of dated 14.09.2021

प्रतिलिपि / Copy to:

1. Prof (Dr.) T Mallikarjunappa , Head, Department of Commerce and International Business
2. Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics
3. Dr. Pratheesh P, Assistant Professor & Head (i/c), Dept. of Geology
4. Dr.P.M Aneesh, Convener, MoU Committee, Assistant Professor, Dept. of Physics
5. Office copy.


सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल/ TEJASWINI HILLS, PERIYE (P.O.)

KASARAGOD - 671 316, KERALA, दूरभाष/ Phone : 0467-2232403, 2232409,

वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in

MEMORANDUM OF UNDERSTANDING

Between

National Institute of Disaster Management, India

&

Central University of Kerala

Whereas the National Institute of Disaster Management is a statutory organization under the Ministry of Home Affairs, Government of India, mandated under the Disaster Management Act 2005 to be the apex institution with a vision to play the role of a premier institute in India and the region for capacity building, training, research, documentation and policy advocacy on all areas of disaster management in India. The efforts in this direction that began with the formation of the National Centre for Disaster Management (NCDM) in 1995 gained impetus with its re-designation as the National Institute of Disaster Management (NIDM) for training and capacity development. Under the Disaster Management Act 2005, NIDM has been assigned nodal responsibilities for human resource development, capacity building, training, research, documentation and policy advocacy in the field of disaster management. NIDM has established networking with a large number of scientific, technical, academic, training and practicing organizations within and outside the governments at the local, provincial, national, regional and international levels for effective implementation of its mandate. The institute works through strategic partnerships with various ministries and departments of the central, state and local governments, academic, research and technical organizations in India and abroad and other bi-lateral and multi-lateral international agencies.

The Institute provides training in face-to-face, on-line and self-learning mode as well as satellite based training. In-house and off-campus face-to-face training to the officials of the state governments is provided free of charge including boarding and lodging facilities.

WHEREAS, it is the statutory object of the Central University of Kerala to disseminate and advance knowledge by providing instructional, research and extension facilities in such branches of learning as it may deem fit and shall endeavor to provide to students and teachers the necessary atmosphere and facilities for the promotion of:-

- (a) Innovations in education leading to re-structuring of courses, new methods of teaching and learning and integral development of personality.
- (b) Studies in various disciplines
- (c) Inter disciplinary studies
- (d) National Integration, secularism and international understanding.
- (e) Research, Seminars, Workshops and standardization of curriculum on Disaster Risk

Reduction under IUIN-DRR

Whereas both NIDM and Central University of Kerala have common overall objectives, and similar scope of activities with potentially complementary methodologies. Therefore

NATIONAL INSTITUTE OF DISASTER MANAGEMENT,
(Ministry of Home Affairs, Government of India), Plot no. 15,
Pocket-3, Block-B, Sector-29, Rohini, Delhi -110085.
(herein after referred to as "NIDM")

and

Central University of Kerala,
Tejaswini Hills, Periyar (PO),
Kasaragod (DT), Kerala-671316
INDIA
(here in after referred to as "
Central University of Kerala")
on.....

Agree to collaborate on the following issues in the field of Disaster Management & Mitigation:

SCOPE AND AIM OF COOPERATION

Considering the direction of Hon'ble Prime Minister of India's 10 point and 6 agenda, Global issues on Climate Change Adaptation (CCA), Sendai Framework for Disaster Risk Reduction (2015-2030), and Sustainable Development Goals (SDG) it's become important to partnering with Higher Education Institutions (HEI), Universities and other science and technology communities which have been envisioned for promoting innovative technology and research, facilitate capacity development, and contribute to decision-making for addressing local risks and the needs of the most vulnerable. To address important issues there is need to work together for the two organizations in the following broad goals:

1. Central University of Kerala will collaborate in IUIN-DRR activities with NIDM in southern region of India.
2. Awarding/ organizing academic & professional training, seminars, workshops related ON/OFFline jointly

Both parties have further identified the following concrete areas of cooperation that can be taken up starting from the financial year 2021-22:

1. Capacity building activities for mainstreaming disaster risk reduction as part of training courses.
2. Development and strengthen the course curriculum on Disaster Risk Management at University/college level.
3. Undertaking case studies of disasters/events with respect to response, relief, rehabilitation, recovery on field investigation.
4. To collaborate for documentation / evaluation studies for various thematic areas jointly.
5. Undertaking research projects of mutual interest to both institutions.

6. Faculty exchange programme to strengthen the programme for DRR.
7. Logistics & Human resource support for organizing seminar, research, training programme ON/OFF line jointly

Status of the Agreement

1. The provision of this MoU may be amended at any time with the mutual consent of the parties in writing.
2. The amendment, termination and expiration of this MoU will not affect the Terms of activities ongoing formal project agreements at the time of amendment, termination and expiration unless otherwise agreed between the parties.
3. The Agreement between the two parties, viz. NIDM and Central University of Kerala has no legal binding and financial commitments on any of the parties. The Agreement is for general purpose on the above mentioned scope of areas of cooperation.

This MoU is prepared in two identical copies. Each party holds one original copy duly signed by the NIDM and Central University of Kerala.

IN WITNESS WHERE OF the Parties here to acting through their duty authorized representatives have executed this Memorandum in their respective names on dates herein after mentioned.

Agreed and Signed for and on behalf of

National Institute of Disaster Management

Central University of Kerala

Name: **Major General Manoj Kumar Bindal**

Designation: Executive Director

Date:

Place: New Delhi



Thennarasu S <thennarasu@cukerala.ac.in>

collaboration with University of Rochester -reg.

Grimm, Scott <scott.grimm@rochester.edu>

Fri, Jun 11, 2021 at 9:39 PM

To: "Grimm, Nadine" <nadine.grimm@rochester.edu>, "thennarasu@cukerala.ac.in" <thennarasu@cukerala.ac.in>

Dear Dr. Thennarasu,

Please accept my greetings. I am writing to you in my capacity as the chair of department of Linguistics at the University of Rochester. Nadine informed me about the generous invitation for us to collaborate on a departmental level. We would be very enthusiastic about such a possibility.

I have reviewed the MoU and I would suggest that we begin with a much more informal set of discussions, see if we can find common ground and work towards what arrangements might be beneficial to both of our departments. (To proceed with any sort of legal document, which the MoU is, requires a lot of people at our university to look at it and approve it.)

Nadine and I have some travel coming up in the next weeks, and I wonder if mid-July would be soon enough to have this discussion?

In the meantime, we hope all is well.

Best,

Scott

From: Grimm, Nadine <nadine.grimm@rochester.edu>**Sent:** Wednesday, June 9, 2021 8:53 AM**To:** Grimm, Scott <scott.grimm@rochester.edu>**Subject:** Fw: [EXT] collaboration with University of Rochester -reg.-----
Nadine Grimm

Assistant Professor

Director of Language Documentation and Description Program

Department of Linguistics

509 Lattimore Hall

Rochester, NY 14627-0096

(585) 273 2366

From: Thennarasu S <thennarasu@cukerala.ac.in>**Sent:** Wednesday, June 9, 2021 2:02 AM**To:** Grimm, Nadine <nadine.grimm@rochester.edu>

[Quoted text hidden]

[Quoted text hidden]



Thennarasu S <thennarasu@cukerala.ac.in>

collaboration with University of Rochester -reg.

Grimm, Scott <scott.grimm@rochester.edu>
To: Thennarasu S <thennarasu@cukerala.ac.in>
Cc: "Grimm, Nadine" <nadine.grimm@rochester.edu>

Mon, Sep 13, 2021 at 6:57 PM

Dear Dr. Thennarasu,

I apologize for taking so long to get back to you. This is solely my fault---I have been unfortunately stretched thin with too many tasks, and although Nadine provided several helpful reminders for me to take up our conversation again, I have not had much of a chance to initiate new activities until now.

In any case, we definitely would like to begin talking with you! I think our mornings, at least Monday-Thursday, as of 9AM EST (6:30PM your time) should be widely available, but that may be too late for you. Please let me know what possible times might be and we can take it from there.

We look forward to talking with you and I hope we find some grounds for future interaction!

Best,

Scott

From: Thennarasu S <thennarasu@cukerala.ac.in>
Sent: Friday, June 11, 2021 11:52 PM
To: Grimm, Scott <scott.grimm@rochester.edu>
Cc: Grimm, Nadine <nadine.grimm@rochester.edu>

[Quoted text hidden]

[Quoted text hidden]



Thennarasu S <thennarasu@cukerala.ac.in>

collaboration with University of Rochester -reg.

Thennarasu S <thennarasu@cukerala.ac.in>
To: "Grimm, Scott" <scott.grimm@rochester.edu>
Cc: "Grimm, Nadine" <nadine.grimm@rochester.edu>

Thu, Sep 23, 2021 at 12:51 PM

Dear Dr. Nadine Grimm and Dr. Scott Grimm,

Greetings!

Please accept my apology too for taking so long due to winding up of our 2nd semester results. We, the faculty members of the department of Linguistics and Dean, School of Language and Comparative Literature (SLCL) agreed to begin a talk with you all on Monday, September 27, 2021 at 6:30PM in IST (9AM EST your time). Please let us know if that is fine with you.

I also have attached a draft of forthcoming international webinar on "The Place of Language Documentation in Linguistics" flyer for your perusal. Please go through it and give me your feedback so that we can finalize it at the earliest. I will be sending you an official email regarding the webinar once everything is fine. We are looking forward to talking with you soon.

Please find the flyer in the attachment.

Thank you

Sincerely

Dr. Thennarasu, S.
Head i/c,
Department of Linguistics
&
Coordinator
Centre for Endangered Languages
Central University of Kerala
Brahmaputra Building Room#211,
Tejaswini Hills, Periyar (PO),
Kasaragod (District), Kerala - 671230
INDIA
<http://www.cukerala.ac.in>

[Quoted text hidden]

International webinar on 7th Oct 2021.pdf
316K



Thennarasu S <thennarasu@cukerala.ac.in>

collaboration with University of Rochester -reg.

Grimm, Nadine <nadine.grimm@rochester.edu>

Thu, Sep 23, 2021 at 7:35 PM

To: Thennarasu S <thennarasu@cukerala.ac.in>, "Grimm, Scott" <scott.grimm@rochester.edu>

Dear Dr. Thennarasu,

Thank you so much! We gladly accept your invitation to talk on the proposed date. Please let me know if we should set up a Zoom link or if you would like to do that.

The flyer looks very nice. Please let me know if there is anything else you need from me before the talk.

Best,
Nadine

Nadine Grimm[Zoom link](#)

Assistant Professor

Director of Language Documentation and Description Program

Department of Linguistics

509 Lattimore Hall

Rochester, NY 14627-0096

(585) 273 2366

From: Thennarasu S <thennarasu@cukerala.ac.in>**Sent:** Thursday, September 23, 2021 3:21 AM**To:** Grimm, Scott <scott.grimm@rochester.edu>

[Quoted text hidden]

[Quoted text hidden]



Thennarasu S <thennarasu@cukerala.ac.in>

collaboration with University of Rochester -reg.

Thennarasu S <thennarasu@cukerala.ac.in>
To: "Grimm, Nadine" <nadine.grimm@rochester.edu>
Cc: "Grimm, Scott" <scott.grimm@rochester.edu>

Thu, Sep 23, 2021 at 9:45 PM

Dear Dr. Nadine,

Thank you so much for your prompt reply! It will be great if you could set up a Zoom link and share it with us. We hope everything goes well for the signing of MoU between our Universities for the benefit of all the faculties and students especially in the area of documentation of endangered languages.

Thank you once again! Looking forward to seeing you on Monday!

Best regard,

Dr. Thennarasu, S.
Head i/c,
Department of Linguistics
&
Coordinator
Centre for Endangered Languages
Central University of Kerala
Brahmaputra Building Room#211,
Tejaswini Hills, Periyar (PO),
Kasaragod (District), Kerala - 671230
INDIA
<http://www.cukerala.ac.in>

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Thennarasu S <thennarasu@cukerala.ac.in>

MOU with Kerala/CoRSAL

Chelliah, Shobhana <Shobhana.Chelliah@unt.edu>

Thu, Jul 29, 2021 at 9:46 PM

To: "Burke, Mary" <MaryBurke@my.unt.edu>, Thennarasu S <thennarasu@cukerala.ac.in>

Dear Dr. Thennarasu,

Mary Burke will be working with us for the MOU finalization. Sorry for the delay. I hope all is well and you are safe and healthy.

Best,

Shobhana

Shobhana L Chelliah | Distinguished Research Professor, Department of Linguistics

Associate Dean for Research and Development | CoRSAL Director | College of Information | University of North Texas

Ph: 940.565.3851 | shobhana.chelliah@unt.edu | Discovery Park, suite E290G
1155 Union Circle, Box 311068 | Denton, TX 76203-5017



Thennarasu S <thennarasu@cukerala.ac.in>

MOU with Kerala/CoRSAL

Thennarasu S <thennarasu@cukerala.ac.in>
To: "Chelliah, Shobhana" <Shobhana.Chelliah@unt.edu>
Cc: "Burke, Mary" <MaryBurke@my.unt.edu>

Thu, Jul 29, 2021 at 10:06 PM

Dear Professor Shobhana ji,

Thank you for your message. We, the Central University of Kerala, are eagerly waiting for the MoU finalization between the Universities.

I am glad to know that Mary Burke is working with us for the MOU finalization and hoping to have it at the earliest. The entire University is preparing for the NAAC and many MoUs from different departments have to be rooted through Executive Committee etc.

I am sure that our MoU will make a difference in the entire University and we together can do a lot of things for the benefit of the documentation of endangered languages in the near future.

Thank you,

Best Wishes

Dr. Thennarasu, S.
Head i/c,
Department of Linguistics
&
Coordinator
Centre for Endangered Languages
Central University of Kerala
Brahmaputra Building Room#211,
Tejaswini Hills, Periyar (PO),
Kasaragod (District), Kerala - 671230
INDIA
<http://www.cukerala.ac.in>

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केरल केंद्रीय विश्वविद्यालय CENTRAL UNIVERSITY OF KERALA

संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

1981-5/11/69

14.09.2021

Prof.(Dr.) Govinda Rao
Chairman, MoU Committee
Central University of Kerala

Sub: Entering into MoUs with various firms/organizations – reg.
Ref: Academic Council Meeting Minutes held on 27.08.21.

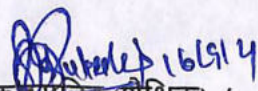
Sir,

With reference to the subject and reference cited. The Academic Council vide Item No.AC:23:04 has approved all the MoUs listed below in principle subject to the final clearance from the Executive Council for their entering:

Sl.No	Name and Designation of the Faculty	MoU with
1.	Prof (Dr.) T Mallikarjunappa Department of Commerce and International Business	a) The North Malabar Chamber of Commerce (NMCC), Kannur 670 002 b) The Kanara Chamber of Commerce and Industry (KCCI),Bunder,Mangalore
2.	Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics	Petrozavodsk State University (PetrSU), Russia
3.	Dr. Pratheesh P Assistant Professor & Head (i/c) Dep. of Geology	National Institute of Disaster Management, India

Thanking you,

Yours faithfully,


सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल / TEJASWINI HILLS, PERIYE (P.O.)

KASARAGOD - 671 316, KERALA, दूरभाष/ Phone : 0467-2232403, 2232409,

वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in



केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

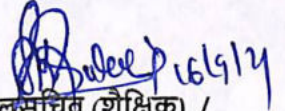
संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/F.1040/AC/2021

; of dated 14.09.2021

प्रतिलिपि / Copy to:

1. Prof (Dr.) T Mallikarjunappa , Head, Department of Commerce and International Business
2. Dr.Manikandan Rangaswamy, Assistant Professor, Dept. of Mathematics
3. Dr. Pratheesh P, Assistant Professor & Head (i/c), Dept. of Geology
4. Dr.P.M Aneesh, Convener, MoU Committee, Assistant Professor, Dept. of Physics
5. Office copy.


सहायक कुलसचिव (शैक्षिक) /
ASST. REGISTRAR (ACADEMIC)

तेजस्विनी हिल्स, पेरिया/ डाक, कासरगोड-671316, केरल/ TEJASWINI HILLS, PERIYE (P.O.)

KASARAGOD - 671 316, KERALA, दूरभाष/ Phone : 0467-2232403, 2232409,

वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@cukerala.ac.in

Memorandum of Understanding

between

**Central University of Kerala
(CUK)**

and

**Petrozavodsk State University
(PetrSU)**

Memorandum of Understanding between
Central University of Kerala
and
Petrozavodsk State University

This Memorandum of Understanding (herein after referred to as MoU) is made on the 10 June, 2021, between The Central University of Kerala, (hereinafter referred to as **FIRST PARTY**) a Central Government Institution of Higher education established by The Central Universities Act, 2009, under the ordinance Section 6 (1) and Section 28 (1) (k) of the act, having its headquarters at Tejaswini Hills, Periya PO, Kasaragod, Kerala, 671320 on one part and The Petrozavodsk State University, (mentioned hereafter as **SECOND PARTY**), on the other part as partners for promoting, research and application of the technological output.

WHEREAS both **FIRST PARTY** and **SECOND PARTY** desire to engage in activities for promoting **research, academic collaboration and exchange**, herein referred to as "Programme", jointly with the diligence and efficiency as desired within this MoU in conformity with appropriate administrative, financial and educational practices of the parties and shall invoke such plans and activities and reforms as required for the Programme.

WHEREAS the **FIRST PARTY** and **SECOND PARTY** agree to enter into 'R&D Interactive programs' and both the parties agree to enter into an MoU with the terms as follows.

1. OBJECTIVES

Both parties hereby agree to associate with each other with the following major objectives:

- 1.1. To facilitate academic and research collaboration in the areas of mutual interest.
- 1.2. To increase the relevance of the academic research and consultancy in the research and product development initiatives.
- 1.3. Collaborate to share and exchange information between both parties for mutual benefit and knowledge enhancement.
- 1.4. Exchange of students and faculties.
- 1.5. To allow the use of research facilities including laboratories, library, CLIF/CIF, animal house and hostel/guest house facilities for the visiting students and faculties at the rate similar to that is available to the students and faculties of the respective host institutions.
- 1.6. To conduct joint/collaborative research and consultancy programs to develop indigenous technologies.
- 1.7. Participation in and co-hosting of lectures, meetings, seminars, symposia and conferences.

2. IMPLEMENTATION

- 2.1. The programs listed above are to be carried out after mutual consultation.
- 2.2. The parties may enter into specific additional written MoU hereunder to clarify and define the nature, extent and terms of operation for the proposed collaborations, including intellectual property ownership and funding issues.
- 2.3. Prior to entering into any such MoUs, these MoUs will require the approval from the authorities concerned of respective institutions.
- 2.4. For agreed-upon activities, both institutions will make available their facilities and staff as further defined in such MoUs.

3. TERMS OF AGREEMENT

- 3.1. **Student Exchange:** Pursuant to the agreement for academic exchange, **FIRST PARTY** and **SECOND PARTY** will exchange students according to the terms mentioned in Annexure-I. It is desired by both parties that there will be a significant flow of students in both directions.
- 3.2. **Research Collaboration:** Faculty from both institutions will collaborate in the supervision of exchange students and in joint research disciplines of mutual interest. All such joint research activities will be governed by the terms mentioned in Annexure-II

4. IMPLEMENTATION AND MONITORING

For implementing and monitoring of the Programme, **FIRST PARTY** and **SECOND PARTY** also agree that:

- 4.1. The interaction between **FIRST PARTY** and **SECOND PARTY** will be implemented by creating a Coordination Committee with nominated Officials as its members from both **FIRST PARTY** and **SECOND PARTY**.
- 4.2. If the activities could result in the form of publication/patent then the Intellectual Property Rights (IPR) will be with both the institutes with due percentage share mutually agreed upon.
- 4.3. Notwithstanding this MoU, **FIRST PARTY** and **SECOND PARTY** will sign separate agreement for specific projects.

5. NON-DISCLOSURE OF CONFIDENTIAL INFORMATION

FIRST PARTY and **SECOND PARTY** also agree that they will abide by the non-disclosure of any confidential information exchanged during the Programme.

6. FINANCE

Regarding the financial arrangements during the Project implementation, **FIRST PARTY** and **SECOND PARTY** further agree to:

- 6.1. Both the institutions will engage services of the existing employees for the Programme.

6.2. Financial arrangements for implementation of the MoU will be subject to mutually agreed terms to be specified in a separate terms of co-operation (ToC).

7. INDEMNITY

Both parties hereby indemnify and shall keep indemnified and protected the other party and their respective officers and employees from and against any claims or actions arising out of or in any way relating to the provision and implementation of the Programme as per this MoU.

8. DURATION

This MoU will be effective from 10 June 2021 for a period of five years as per mutually agreed terms. It will be extended for further period by mutual consent.

9. TERMINATION

Either party has the right to terminate this MoU by giving ninety days written notice to the other party on the recommendations of the members of the coordinating committee of either party as applicable.

10. JURISDICTION

In the event of any dispute arising out of this MoU, the parties agree that the High court of Kerala alone will have the jurisdiction.

The two parties of this MoU agree to act in good faith and in a spirit of mutual understanding and accommodation to facilitate the achievement of goals set under the Programme.

IN WITNESS WHEREOF the parties here to have caused this MoU to be signed in their respective names as of the day and year.

For & Behalf of Central University of Kerala:

Registrar,
Central University of Kerala,
Tejaswini Hills, Periya PO, Kasaragod,
Kerala, India, 671320

In the presence of (WITNESS):

1.

2.

For & Behalf of Petrozavodsk State University:

Rector, DSc. Prof. _____

Anatoly V. Voronin

Petrozavodsk State University,
33 Lenina pr., Petrozavodsk,
Republic of Karelia, Russian Federation, 185910



In the presence of (WITNESS):

1. Cand.Sc. Marina S. Gvozdeva
2. Ekaterina S. Ivanova

ANNEXURE-I

1. Students under the student exchange programme will be permitted to participate in research activities/project work.
2. The consent of the faculty/project supervisors/ research supervisors is required.
3. The Host Institution of students enrolled in this exchange programme shall not levy tuition fees. Parent Institution may continue to levy fees as applicable.
4. Participants will be subjected to the rules and regulations of the host institution, in addition to specific rules and regulations, if any, of the host country regarding foreign students studying in the host country.
5. Students will be given opportunity to participate in the job fairs and campus selection programmes organized by the **SECOND PARTY**.

Selection and Nomination

The selection and nomination of the students is open throughout the academic year. The student nomination should be accompanied by

- Curriculum vitae
- Recommendation from a member of the student's Institute/Faculty
- A specific outline of the programme of study at the host institution and a statement of objectives of the student

When a nomination is forwarded by the parent institution, it is presumed that the student is suitable for the proposed programme and consents to send the student if selected by the host institution.

The host institution will evaluate the nomination and determine their suitability for the selection under Student Exchange Programme.

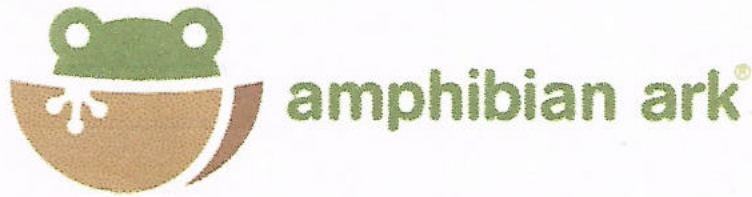
Where the student entering into such an exchange programme is pursuing a research project as part of the degree programme (Under Graduate/Post graduate/ equivalent), the host institution will provide a suitable faculty member to jointly assist the exchange student. In such cases of joint supervision under exchange programme, the faculty from the parent institution shall be the supervisor and the faculty from the host institution shall be the co-supervisor.

Based on the availability, Hostel facilities for the visiting student may be provided at the rate similar to that is available to the students of the respective host institutions.

The host institution will inform the parent institution of any academic or other problems that may arise during the period of student's stay in the host institution. The host institution will take necessary action under its established policy and procedures, in consultation with the parent institution to deal with such problems.

ANNEXURE-II

1. The proposals for collaborative research works under this MoU will be submitted with the prior approval of the Head of each institution.
2. The progress of the work of any individual program will be reviewed and approved by designated authorities of both institutions.
3. The final approval of any project will depend on the availability of guaranteed support funds.
4. Guest house facilities for the visiting faculties at the rate similar to that is available to the faculties of the respective host institutions.
5. Neither **FIRST PARTY** nor **SECOND PARTY** will be held responsible for any liability to the other party and neither party shall be required to purchase any insurance against loss or damage to any property due to activities to which this agreement relates.



Memorandum of Understanding

between

The Amphibian Ark

and

Central University of Kerala

This Memorandum of Understanding (MOU) sets the terms and understanding between the Amphibian Ark, hereinafter referred to as the AArk, and the Central University of Kerala, hereinafter referred to as the "Grant recipient".

Purpose

The AArk agrees to provide a grant to Dr Ramachandran Kotharambath to support the project "Developing *ex situ* facilities for the conservation of the Indian caecilian *Gegeneophis tejaswini*" and principal investigator. The funds are provided on the understanding that they will be used at the Central University of Kerala for the development of a new *ex situ* facility, and field work associated with this project.

The funds can only be used for the specific purposes described above and in the project proposal. The funds cannot be used for other purposes unless AArk explicitly approves those purposes in writing in advance of the planned use.

Grant amount

The grant awarded is for US\$5,000.

The Grant recipient will ensure, to the best of their abilities, that additional funding is sought to further support and expand the program, so it can achieve its full potential.

Duration

This MOU will apply from July 1, 2020 to July 1, 2021. It is expected that the funds will be used for the purposes described within the agreed timeframe. If the funds have not been used by the end of the timeframe, AArk reserves the right to request that the funds be returned.

Provision of funds

The Grant recipient agrees to provide the following banking details to AArk for the transfer of funds:

Bank name and address: CANARA BANK, PERIYE, KASARAGOD, KERALA, PIN-671320
Name on account: CENTRAL UNIVERSITY OF KERALA
Account No./IBAN: 42042200069750
Swift code: SYNBINBB030
ABA No. (American banks only):
CLABE No. (Mexican banks only):
BSB No. (Australian banks only):

The bank account must be held by an institution and cannot be a personal bank account. Funds will be transferred to the nominated bank account within two weeks of the signing of this MOU.

Reporting

Start-up grants

The Grant recipient agrees to provide a minimum of two photos of the focal species via email, which can be used by AArk to announce the grant winners on its web site and in its Newsletter. Photos must be provided within two weeks of the signing of this MOU.

The Grant recipient agrees to provide at least two progress reports – one six months after the funds are received, and a second one twelve months after the funds are received – along with several photos of the project. A reporting template is available at www.amphibianark.org/grants/AArk-Grant-Reporting-Template.docx.

If a species action plan was not submitted with the grant application, the Grant recipient agrees to provide a draft or completed species action plan within six months after the funds are received. A species action plan template is available in [English](#) or [Spanish](#) as a guide.

The Grant recipient agrees to produce husbandry guidelines within six months of acquiring animals (using the Amphibian Husbandry Guidelines template in [English](#) or [Spanish](#)).

AArk will provide a reporting template four to six weeks in advance of the deadline for progress reporting.

Acknowledgements

The Amphibian Ark (AArk) should be acknowledged in all publications, media releases, presentations and in social media, as a partner and supporter of this project, using the AArk logo whenever possible.

Use of reports and photos

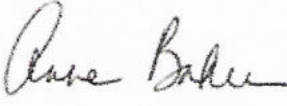

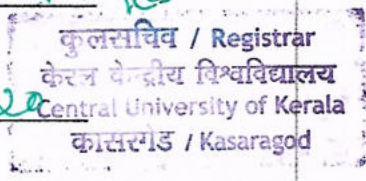
Information from progress reports, and photos supplied by the Grant recipient will be used by AArk to promote the amphibian conservation program, via our Newsletter, web site, social media and in other publications.

Species action plans and husbandry guidelines produced by the Grant recipient will be made available to the amphibian conservation community on the Husbandry Documents page of the AArk web site, www.amphibianark.org/husbandry-documents/.

AArk will provide the current version of its logo for use on web sites and in acknowledgements. These can be downloaded from www.amphibianark.org/logos/.

Signatures

By signing this MOU, AArk and the director of the Grant recipient's institution agree to abide by its contents. If AArk does not receive signed copies of this grant agreement by June 26, 2020, this grant may be revoked.

<p>Dr. Anne Baker Amphibian Ark c/o CPSG 12101 Johnny Cake Ridge Road, Apple Valley, MN 55124-8151 USA</p> <p>Phone: +1 952 997 9800 Email: grants@amphibianark.org</p> <p> _____ (Signature)</p> <p>Date: 11 June, 2020</p>	<p>[Director of recipient institution's details]</p> <p>Phone: 0467-2232403 Email: registrar@cukerala.ac.in</p> <p> _____ (Signature)</p> <p>Date: <u>26/06/2020</u></p> <p></p>
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Amphibian Ark is bound by U.S. laws and regulations that prohibit having transactions with and providing material support or resources to individuals or groups that engage in or support acts of terror. The Grant recipient agrees that by becoming a grantee under this agreement, you represent and certify that you do not engage in or support, directly or indirectly, acts of terror.



കേരളം കേരल KERALA

CX 213237

Memorandum of Understanding

Between

Central University of Kerala
(CUK)
and

Central Institute of Brackishwater Aquaculture (CIBA)

This Memorandum of Understanding (herein after referred to as MoU) is made on the ^{MAY} 22nd 2021, between The **Central University of Kerala**, (hereinafter referred to as CUK) Central Government Institution of Higher education established by The Central Universities Act, 2009, under the ordinance Section 6 (1) and Section 28 (1) (k) of the act), having its headquarters at Tejaswini Hills, Periya PO, Kasaragod, Kerala, 671320 on one part and **Central Institute of Brackishwater Aquaculture**, an Institute of Indian Council of Agricultural Research (ICAR), having its office at 75-Santhome High Road, MRC Nagar, R.A.Puram, Chennai - 600 028, represented by the Director, (mentioned hereafter as CIBA) on the other part as partners for promoting, research and application of the technology and its output.

both CUK and CIBA, (herein after called 'Parties') desires to engage in activities for promoting research, academic collaboration and exchange, herein referred to as "Programme", jointly with the diligence and efficiency as desired within this MoU in conformity with appropriate administrative, financial and educational practices of the Parties and shall invoke such plans and activities and reforms as required for the Programme.

Signature

കേന്ദ്രീയ ഖരാ ജലവിദ്യ കലന സൗര
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
75, Santhome High Road, R.A. Puram, Chennai - 600 028.

നമ്പർ 3171 ൨൧൪൧൧
നവീകൃത കേന്ദ്ര ഹർദ്ദകലാല.
11/05/2021 ന്നു തിരുത്തി വില 100/- ക
പന്തു നൂർ സ. റ. അ. അ.
വേണ്ടർ ടി. കെ. രേഖ പ്രേമചന്ദ്രൻ

SUB TREASURY
22 APR 2021
KASARAGOD

കുലസചിവ / Registrar
കേരള കേന്ദ്രീയ വിശ്വവിദ്യാലയ
Central University of Kerala
കാസർഗോട് / Kasaragod

WHEREAS the CUK and CIBA agree to enter into 'R&D Interactive programs' and both the parties agree to enter into an MoU with the terms as follows (all or any of the following).

1. OBJECTIVES

The major objectives for which the parties associate with each other are:

- a. To facilitate academic and research collaboration in the areas of mutual interest (initiate and develop innovative brackishwater farming practices relevant to Kerala).
- b. Increase the relevance of the academic research and consultancy in the research and product development initiatives (Augmenting the scientific brackishwater farming of Pearlsport and Asian Seabass).
- c. Collaborate to share and exchange information between both parties for mutual benefit and knowledge enhancement. WHEREAS the CUK herein shall share the Aqualab facilities and experimental set up to initiate and establish innovative brackishwater farming. AND WHEREAS CIBA shall share selectively bred seed, formulated feed and training for nursery rearing and grow-out culture of the potential brackishwater species farming models relevant for Kerala technical expertise.
- d. Exchange of students and faculties: WHEREAS the CUK herein shall share the personnels with advanced scientific qualifications and skills (Faculty, Post-Doctoral and Senior research scholars) to initiate and establish innovative brackishwater farming. AND WHEREAS CIBA shall share expert Scientists in the field of brackishwater fish farming, seed production and nutrition & health management.
- e. To allow the use of facilities including laboratories, CLIF/CIF, animal house and hostel/ guest house facilities for the visiting students and faculties at the rate similar to that is available to the students and faculties of the respective host institutions.


निदेशक
DIRECTOR
केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
75, सन्थोम हाई रोड, आर. ए. पुरम, चेन्नई - 600 028.
Santhome High Road, R. A. Puram, Chennai - 600 028.


कुलसचिव / Registrar
केरल केन्द्रीय विश्वविद्यालय
Central University of Kerala
05/05/2021

f. Research instrumentation, infrastructure and library facilities available at both the party's workplace shall be made available to the faculty, research scholar and students of the parties as per the existing internal charges of the respective parties.

g. To conduct joint/collaborative research and consultancy programs to develop indigenous technologies. (Development of nursery rearing and growout farming for economically important fish species such as pearl spot (*Etroplus suratensis*), Asian seabass (*Lates calcarifer*) and other potential brackishwater species cultured in Kerala).

1.1. Participation in and co-hosting of lectures, meetings, seminars, symposia and conferences.

b. IMPLEMENTATION

2.1 The programs listed above are to be carried out after mutual consultation.

2.2 The parties may enter into specific additional written MoU hereunder (Annexure-A) to clarify and define the nature, extent and terms of operation for the proposed collaborations, including intellectual property ownership and funding issues.

2.3 Prior to entering into any such MoUs, these MoUs will require the approval of appropriate officers from each institution.

2.4 For agreed-upon activities, both institutions will make available their facilities and staff as further defined in such MoUs.

c. TERMS OF AGREEMENT

3.1 Student Exchange: Pursuant to the agreement for academic exchange, CUK and CIBA will exchange students according to the terms mentioned in Annexure-I. It is desired by both parties that there will be a significant flow of students in both directions.

3.2 Research Collaboration: Faculty from both institutions will collaborate in the supervision of exchange students and in joint research disciplines of mutual interest. All such joint research activities will be governed by the terms mentioned in Annexure-II

4. IMPLEMENTATION AND MONITORING


निदेशक
DIRECTOR
केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
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कुलसचिव / Registrar
केरल केन्द्रीय विश्वविद्यालय
Central University of Kerala
कासरगोड / Kasaragod
2021

For implementing and monitoring of the programme, CUK and CIBA also agree that:

- 4.1 The interaction between CUK and CIBA will be implemented by creating a Coordination Committee with nominated Officials as its members from both CUK and CIBA.
- 4.2 If the activities could result in the form of publication/patent then the Intellectual Property Rights (IPR) will be with both the institutes with due percentage share mutually agreed upon.
- 4.3 Notwithstanding this MoU, CUK and CIBA will sign separate agreement for specific projects.

5. NON-DISCLOSURE OF CONFIDENTIAL INFORMATION

CUK and CIBA also agree that they will abide by the non-disclosure of any confidential information exchanged during the Programme.

6 FINANCE

Regarding the financial arrangements during the Project implementation, CUK and CIBA further agree to:

- 6.1 Both the institutions will engage services of the existing employees for the Programme and no additional staff will be provided.
- 6.2 All expenses in connection with implementation and monitoring such as TA/DA, and conveyance of members will be borne by the respective parent parties.
- 6.3 The revenue from the net profit of farming will be equally shared between CUK and CIBA.

7 INDEMNITY

Both parties hereby indemnify and shall keep indemnified and protected the other party and their respective officers and employees from and against any claims or actions arising out of or in any way relating to the provision and implementation of the Programme as per this MoU.

8 DURATION

This MoU will be active for a period of five years from the date of the MoU is agreed upon.. It will be extended for further period by mutual consent.


निदेशक
DIRECTOR
केन्द्रीय खारा जलजीव पालन अनुसंधान संस्थान
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
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कुलसचिव / Registrar
केरल केन्द्रीय विश्वविद्यालय
Central University of Kerala
कासरगोड / Kasaragod
5.2021

9 TERMINATION

Either party has the right to terminate this MoU by giving ninety days written notice to the other party on the recommendations of the members of the coordinating committee of either party as applicable.

10 JURISDICTION

In the event of any dispute arising out of this MoU, the parties agree that the High court of Kerala alone will have the jurisdiction.

The two parties of this MoU agree to act in good faith and in a spirit of mutual understanding and accommodation to facilitate the achievement of goals set under the Programme.

IN WITNESS WHEREOF the parties here to have caused this MoU to be signed in their respective names as of the day and year.

For & Behalf of Central University of Kerala:

Registrar, i/c



Central University of Kerala,

Tejaswini Hills, Periya PO, Kasaragod,

Kerala -671320


कुलसचिव / Registrar
केरल केन्द्रीय विश्वविद्यालय
Central University of Kerala
कासरगोड / Kasaragod


In the presence of (WITNESS):

1. SURESHAN KANDATHIL, Asst Registrar, Academic 
2. SREELES H-V, System Analyst 

For & Behalf of


Registrar,


.....


निदेशक
DIRECTOR
केन्द्रीय आर जलजीव पालन अनुसंधान संस्थान
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
75, सन्थोम हाई रोड, आर. ए. पुरम, चेन्नई - 600 028.
Santhome High Road, R. A. Puram, Chennai - 600 028.

निदेशक
DIRECTOR
कृषि और जल जैव पालन अनुसंधान संस्थान
CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE
75, सन्थोम हाई रोड, आर. ए. पुरम, चेन्नई - 600 028.
75, Santhome High Road, R. A. Puram, Chennai - 600 028.

In the presence of (WITNESS):

1. 
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