

AMITY UNIVERSITY

RAJASTHAN

Best Practice 1 - Success Stories

S.No	Particular	Page No.
1	<u>Amity Institute of Microbial Technology</u>	2
2	<u>Amity Institute of Information Technology</u>	72
3	<u>Amity School of Architecture and Planning</u>	104
4	<u>Amity School of Hospitality</u>	119
5	<u>Amity Institute of Biotechnology</u>	145

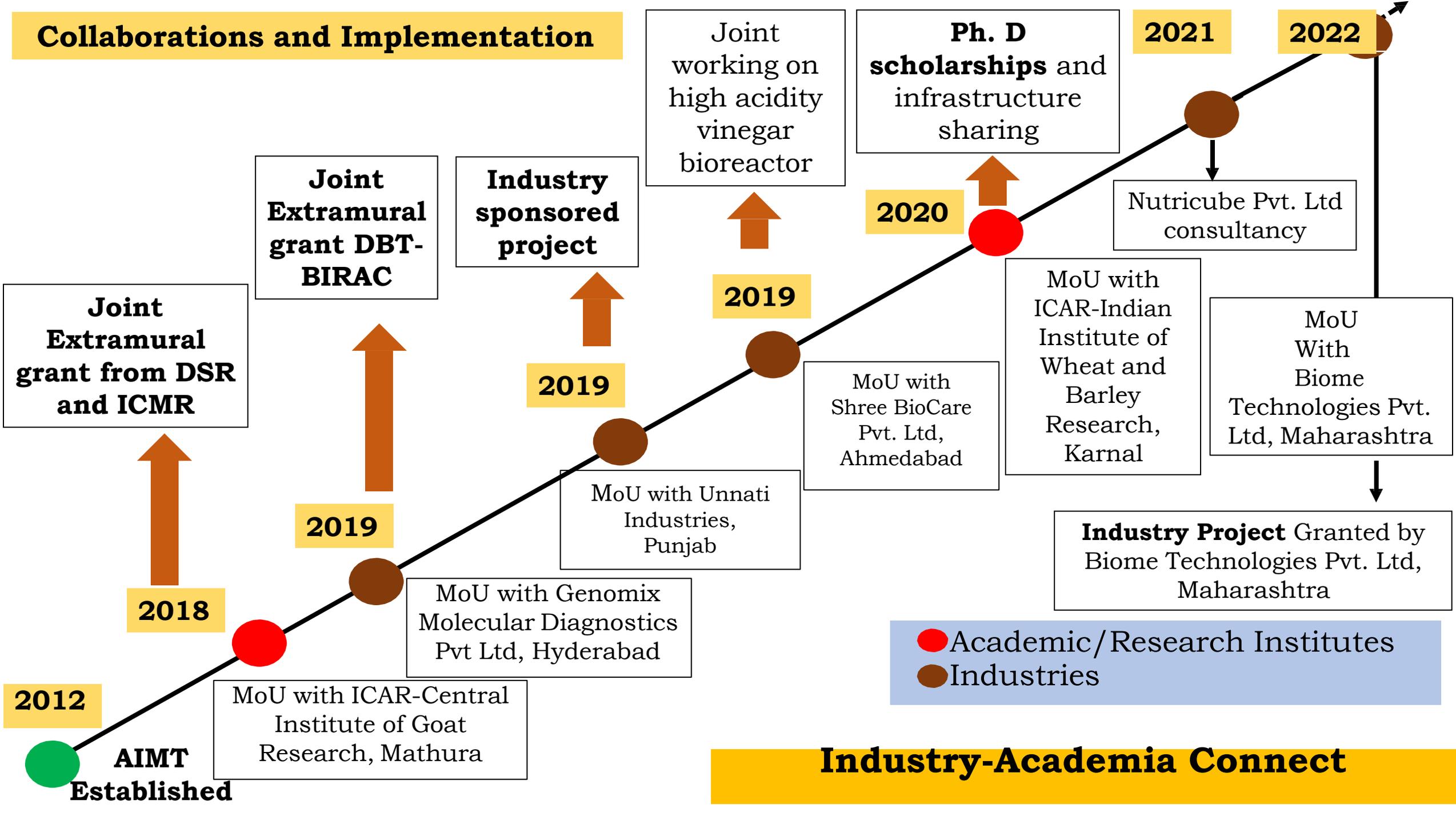


AMITY UNIVERSITY
RAJASTHAN

Best Practice 1 - Success Stories

Amity Institute of Microbial Technology

Collaborations and Implementation



2017

AIMT Signed MoU with Genomix Molecular Diagnostics Pvt Ltd, Hyderabad

2018

Joint Extramural grant **DBT-BIRAC** "PoC Diagnostics of Mycobacterium"

Ms. Mukta Jain (Ph.D Scholar-AIMT) was hired as SRF in Project

2018

Got Helping Hand Award at "International Association for Paratuberculosis, USA"

2021

Published joint **research findings in SCI indexed journals**

2020

Joint **PoC Diagnostic Kits** with Genomix Molecular Diagnostics Pvt Ltd, Hyderabad

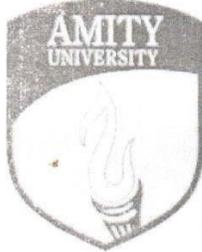
Patent Published

2021-22

Post-Doctoral Fellow

Kits are under commercialization license





Genomix Biotech



Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on (Aug. 15, 2017) between

PARTY 1: Amity University Rajasthan, 14-Gopal Bari, Ajmer Road, Jaipur, 302 001, Rajasthan, collectively called as "Amity".

PARTY 2: Genomix Molecular Diagnostics Pv. Ltd, 5-36/207 Prasanthinagar, Kukatpally, Hyderabad 500072, Telangana, collectively called as "Genomix"

Whereas, Amity has developed proof of concept with regard to "sero diagnostics, antigen based diagnostics, DTH tests and LAMP PCR using specific markers to detect paratuberculosis in domestic livestock species"

Whereas institute has identified Genomix to carry part of its study that will involve providing necessary services required for the testing of livestock by manufacturing ELISA/ Lateral Flow assay/ LAMP kits using their IP.

Whereas Genomix has agreed to perform such required service using their IP by manufacturing kits as per the schedule and terms agreed mutually. Now thereof the parties for valid consideration enter into this MOU:

1. OBJECTIVE:

- a) Production of candidate recombinant antigen under GLP/GMP Labs
- b) Manufacturing process development & Technology transfer
- c) Mass production of kits & on site LAMP PCR
- d) Supply third party validation of the kits

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2. **SCOPE OF WORK: The scope of work shall include:**

- a) Transfer of technology to industry
- b) Fabrication of technology in kit format
- c) Studies on the stability of the kits
- d) Validation of kits

3. **ROLES & RESPONSIBILITIES:**

A. Amity will provide the proof of concept and transfer the technologies to Genomix. Amity will do the in house validation of the kits and validation of the kits by national/ international reference labs.

B. Genomix will obtain the technology and required clones & primers and use them to kits for Paratuberculosis, will do the stabilization study of kits with Amity. Genomix will also facilitate to get these kits in-house validation and third party validation by national/ international reference labs.

4. **CONFIDENTIALITY:**

All information under the MOU shared between the parties shall be treated as confidential information and shall be subject to restrictions on disclosure other than for the purpose of this MOU. The confidentiality obligations shall survive even after the termination or expiration of this MOU. Confidential information shall not include:

- a. information that is available in public domain;
- b. information already known to the receiving party;
- c. information disclosed to the receiving party by a third party not under obligation of confidentiality;
- d. Information developed by the receiving party independent of the confidential information received under this MOU.

5. **PUBLICATION:**

Publications will be jointly done by Amity and Genomix.

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A circular purple stamp from Amity University Jaipur. The text inside the stamp reads "AMITY UNIVERSITY JAIPUR" around the perimeter and "JAIPUR" in the center.

6. **INTELLECTUAL PROPERTY RIGHTS :**

- a. "Intellectual Property" means the legal rights relating to inventions, patent applications, patents, copyrights, trademarks, mask works, trade secrets, and any other legally protectable information, including computer software, first made or generated by such investors .
- b. The "Intellectual Property Rights (IPR)" generated during the project will exclusively lie with Amity.
- c. Patent Prosecution and Expenses. The filing, prosecution, defense and maintenance of all Patents for the Inventions will be conducted and controlled individually in the name of Amity and Genomix, acting reasonably and in good faith.
- d. Background Intellectual Property: Any of the party possess rights in background intellectual property, that is, intellectual property not otherwise subjected to this MOU, which would be useful or essential to the practice or commercialization of the results of this MOU, should be disclosed. Except to the limited extent required to perform a party's obligations under this MOU, neither party receives any right, title, or interest in or to any Research Materials provided to it by the other party or any technology, works or inventions of the other party that are not Research Program Inventions, or any patent, copyright, trade secret or other proprietary rights in any of the foregoing.
- e. Maintaining the Laboratory Notes: Each party agrees that research efforts will be well documented in the form a laboratory notes with accurate data disclosed for each experiments performed therein, during the course of this MOU.
- f. In the event of commercialization of the technology Genomix will have the first right of refusal.

7. **TERM AND TERMINATION:** This MOU shall be valid for a period of **Three** years from the Effective Date and can be terminated by a notice of six months by either party. In case the MOU expires with in the duration of Project, both the parties (Amity and Genomix) will renew the same and submit the same to BIRAC. The termination of this MOU shall not affect any IP rights accrued and related obligations arising under this MOU. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable modifications.

Rattan
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8. **INDEMNIFICATION:** Neither party shall be held responsible for the indemnification of their respective obligations under this MOU due to the exigency of one or more of the force majeure events such as but not limited to acts of God, War, Flood, Earthquakes, Strikes, Lockouts beyond the control of the party claiming force majeure, Epidemics, Riots, Civil Commotions etc. provided on the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall jointly decide about the future course of action.

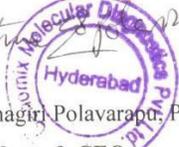
9. **DISPUTE RESOLUTION, GOVERNING LAW AND JURISDICTION:**

Any disputes between the parties shall be resolved by mutual discussions. Minor dispute during execution of the project shall be subjected to resolution out of this MOU. The MoU shall be considered, interpreted and governed by the laws of India and Courts at Jaipur or Hyderabad shall have exclusive jurisdiction in all such matters.

Party 1 : Applicant, Academia
For Amity University Rajasthan

Party 2: Collaborator, Industry
For Genomix Molecular Diagnostics Pvt Ltd

Signature :  
Name : *Dr. Vishwa Deepak Singh* (Rev)
Designation : REGISTRAR
Registrar
Amity University Rajasthan
Jaipur

Signature :  
Name : *13/08/2017* Rathnagiri Polavarapu, Ph.D.,
Designation : President & CEO

Dr. Jagdip Singh Sohal

Coordinator

Amity Centre for Mycobacterial Disease Research,

Amity University

14-Gopal Bari, Ajmer Road,

Jaipur -302001

Email: jssohal@jpr.amity.edu

Ref: CRS Project entitled “Shielding Livestock from Paratuberculosis using Point of Care Diagnostics PoCD”

Dear Dr. Sohal,

With reference to your above mentioned CRS Proposal, we are pleased to inform that your proposal has been approved by BIRAC at a total cost of **Rs. 79.66 Lakhs** (Rupees Seventy-Nine Lakhs and Sixty-Six Thousands only). The contribution of BIRAC is **Rs. 42.08 Lakhs** (Rupees Forty-Two Lakhs and Eight Thousands only) as Grant-in-aid to the **Amity Centre for Mycobacterial Disease Research, Jaipur** and **Rs. 37.58 Lakhs** (Rupees Thirty-Seven Lakhs and Fifty-Eight Thousands only) as Grant-in-aid to the **Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad** for a period of **36 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 four 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 Institute/Institutes and the Collaborator should affix the Official seal on the signature page to the GLA.
- **Letter of Authorisation** in case of Institute/Institutes in the prescribed format of BIRAC
- **Board resolution** from the Company in the prescribed format of BIRAC with satisfying one of the conditions listed:
 - i. *Common seal must be affixed*
 - ii. *Two directors signatures to be affixed*
 - iii. *Signatures of one Director and one CS*
- **No lien document** on the Bank's letter head to be submitted by the Company with regard to specific project account in the prescribed format of BIRAC. As per terms mentioned in Schedule 1 of the GLA the company shall keep the Grant-in-aid assistance in separate No-lien account. Hence company has to open a separate No-Lien account for BIRAC funding. (Template enclosed for reference).

The No-Lien account should be opened in the Bank that provides Cheque Book Facility. Copy of cancelled cheque may be provided along with GLA.

The Grant-in-Aid Letter agreement has been executed by BIRAC. Kindly take a colour printout of this GLA and the schedules (as many copies as the Parties- BIRAC, Institute/Institutes and Collaborator) and execute the same from your end, and then the collaborator (if any).

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.

Note: Non-conveyance of the acceptance within four weeks will render the present offer of funding support infructuous and the project will be treated as withdrawn.

For Biotechnology Industry Research Assistance Council

Sanjay Saxena
(Dr. Sanjay Saxena)
Head-Investment



Ref. No. BIRAC/BT/CRS0226/CRS -11/17

Dated : 5-12-2017

Sub: Funding of Project entitled "Shielding Livestock from Paratuberculosis using Point of Care Diagnostics PoCD "for funding under Contract Research Scheme-(CRS)

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 "Shielding Livestock from Paratuberculosis using Point of Care Diagnostics PoCD "

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

S. No.	Recipient(s)	Designated Project Investigator
1	Amity Center for Mycobacterial Disease Research, an Institute having its office at Amity University, 14- Gopal Bari, Ajmer Road, Jaipur-302001 Rajasthan, hereinafter referred to as the "Institute" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees).	Dr. Jagdip Singh Sohal Coordinator Amity Centre for Mycobacterial Disease Research, Amity University 14-Gopal Bari, Ajmer Road, Jaipur -302001 Email: jssohal@jpr.amity.edu
2	M/s Genomix Molecular Diagnostics Pvt. Ltd., a Company incorporated under the Companies Act, 2013 having its registered office at 5-36/207 , Prasanthi Nagar,, Kukatpally, Hyderabad Andhra Pradesh, 500072, 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. Rathnagiri Polavarapu President & CEO, Genomix Molecular Diagnostics Pvt. Ltd., 5-36/207 Prasanthnagar Kukatpally, Hyderabad -500072 Email: giri@genomixbiotech.com

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:

1. Production of candidate recombinant antigen under GLP/GMP Labs
2. Manufacturing process development & Technology transfer
3. Mass production of kits & on site LAMP PCR
4. Supply third party validation of the kits

Sanjay Saxena



3. **Project Duration:** The Recipients shall complete the Project within the stipulated period of **36 Months** from the date of acceptance of the GLA by all the recipients. In the event the Parties affix their signatures to this GLA on separate dates, the GLA shall be effective from the date on which the last set of signature is affixed thereto "**Effective Date**". Project Duration is subject to the Change order(s) issued by the BIRAC from time to time.

4. **Project Implementation Site:**

Amity Center for Mycobacterial Disease Research, Amity University, 14- Gopal Bari, Ajmer Road, Jaipur Rajasthan, 302001

&

Genomix Molecular Diagnostics Pvt. Ltd., 5-36/207 , Prasanthi Nagar,, Kukatpally, Hyderabad Andhra Pradesh, 500072

5. **Project Cost and Contribution:** The total estimated cost of the Project is **Rs. 79.66 Lakhs** (Rupees Seventy-Nine Lakhs and Sixty-Six Thousands only). The contribution of BIRAC is **Rs. 79.66 Lakhs** (Rupees Seventy-Nine Lakhs and Sixty-Six Thousands only) as Grant-in-aid towards the Project. The contribution of BIRAC is **Rs. 42.08 Lakhs** (Rupees Forty-Two Lakhs and Eight Thousands only) as Grant-in-aid to the **Amity Centre for Mycobacterial Disease Research**. The contribution of BIRAC is **Rs. 37.58 Lakhs** (Rupees Thirty-Seven Lakhs and Fifty-Eight Thousands only) as Grant-in-aid to the **Genomix Molecular Diagnostics Pvt. Ltd.** on the terms and conditions detailed in this GLA.

6. **BIRAC Budget break-up:**

Details	Support under CRS to		Total BIRAC Support
	Amity Centre for Mycobacterial Disease Research	Genomix Molecular Diagnostics Pvt. Ltd.	
			(Rs. in Lakhs)
Non-recurring	19.00 ✓	0.00 ✓	19.00 ✓
Recurring	23.08 ✓	37.58 ✓	60.66 ✓
Total	42.08 ✓	37.58 ✓	79.66 ✓

Budget Break-up Recurring (Rs. In Lakhs)			
Recurring items	Contribution by BIRAC to Amity Center for Mycobacterial Disease Research	Contribution by BIRAC to Genomix Molecular Diagnostics Pvt. Ltd.	Total
Manpower	10.08 ✓	10.08 ✓	20.16
Consumables	9.00 ✓	24.00 ✓	33.00
Travel	2.50 ✓	1.50 ✓	4.00
Outsourcing	0.00 ✓	0.00	0.00
Contingency	1.50 ✓	2.00 ✓	3.50
Total	23.08 ✓	37.58 ✓	60.66

Sajay Saxena



Details Of Equipment Proposed To Be Acquired Through BIRAC Contribution For Applicant Institute

S. No	Infrastructure/Equipment	Capacity	Quantity	Specific Requirement In The Project	Estimated Value (Rs.In Lakhs)
1	Deep Freezer, -80 degree	490	01	storage of clinical samples, antigens, reagents	6.00
2	BOD incubator	400	01	For culture of clinical samples	2.00
3	Refrigerated centrifuge	400	01	required for the preparation of antigens and other reagents and also for diagnostic testing	5.00
4	Sonicator	50	01	for making antigens	3.50
5	Biosafety cabinet	4	01	For handling the clinical materials and also for culturing of clinical materials	2.50
Total :					19.00
Accessories To Be Acquired (Rs. in Lakhs):					0.00

7. Milestones/Timelines

S.No.	Milestones	Month of end of activity	Required financial input (Rs. In Lakhs)
1	Acceptance of Undertaking under GLA <i>And</i> Fulfilment of fund release requirements	0	<u>23.898</u> (30% of CRS contribution)
2	Status report on (Characterization of each batch of candidate recombinant antigens 3 batches) <i>And</i> Submission of UC/SOE for the corresponding milestone certified by internal finance.	6	<u>15.932</u> (20% of CRS contribution)
3	Status report on (Establish all the diagnostic kits with desired specificity & sensitivity) <i>And</i> Submission of UC/SOE for the corresponding milestone certified by internal finance.	24	<u>15.932</u> (20% of CRS contribution)
4	Status report on (Third party validation of the kits) <i>And</i> Submission of UC/SOE for the corresponding milestone certified by internal finance.	35	<u>15.932</u> (20% of CRS contribution)
5	Submission of final completion report and consolidated Utilization Certificate (UC) and	36	<u>7.966</u> (10% of CRS contribution)

Sujay Saxena



Statement of Expenses (SOE) certified by internal finance.		contribution)
	TOTAL	79.66

Note: - Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a chartered accountant for the expenditure incurred towards the Project for every half year period, ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year should be submitted by the Institute and the Company till completion of Project Duration.

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

Instalment	Contribution by BIRAC under CRS to Amity Centre for Mycobacterial Disease Research	Contribution by BIRAC under CRS to Genomix Molecular Diagnostics Pvt. Ltd.	Total (Rs. in Lakhs)
First	12.624	11.274	23.898
Second	8.416	7.516	15.932
Third	8.416	7.516	15.932
Fourth	8.416	7.516	15.932
Fifth	4.208	3.758	7.966
Total	42.08	37.58	79.66

9. 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.

10. 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) - Memorandum of understanding between the Institute and the Company (Schedule 5)
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11. The Memorandum of Understanding between the Institute and the Company is independent of the GLA and in the case of any ambiguity or conflict or inconsistency between this GLA and Schedule 5, the provisions of GLA shall take precedence.

12. The Expenditure is debitable to B.04 - Head of Accounts for the financial year 2017-18.

13. This issue with the approval of competent authority vide BFD No.

BFD/A0/B.04/081/17-18 dated 05/12/17

14. The GLA has been noted at Serial No. _____ in the Register of Grants

Sanjay Saxena



This GLA is between **Biotechnology Industry Research Assistance Council ("BIRAC")**, **Amity Centre for Mycobacterial Disease Research, Jaipur** and **Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad**, and is effective as of the date of last signature. Each party to this GLA may be referred to individually as a "Party", Company and Institute together as "Fund Recipients" 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:

I) For and on behalf of BIRAC	
Signature	
Name	DR. SANJAY SAXENA
Designation	HEAD - INVESTMENT
Official Seal	

II) For and on behalf of **Amity Centre for Mycobacterial Disease Research, Jaipur, “the Institute”** duly authorized vide letter dated by its concerned authority.

Signature

Name

Designation

Institute Seal

Rajay Saxena



<p>III) For and on behalf of M/s Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad, “the Company” duly authorized vide Resolution No Dated of its Board of Directors.</p>			
Signature			
Name			
Designation			
Company Seal			

Sanjay Saxena



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

1. FUND DISBURSEMENT

- a. 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 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 Company and the Institute shall submit the Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a Chartered Accountant(CA) for the expenditure incurred towards the Project for every half year period, ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year, in the format provided by BIRAC. The CA shall also certify that there has been no change in the shareholding pattern and if there is any change, the particulars shall be specified.

b. The Institute and the Company shall submit UC and SOE duly certified by internal finance personnel to BIRAC in the format provided on the completion of the respective milestones

c. The Institute and the Company shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within seven months of the completion of the financial year ending 31st March till the completion of the Project Duration.

d. 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.

The Institute 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.

e. The Institute and the Company 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;

f. The Institute and the Company 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);

Sanjay Saxena



g. The Institute and the Company 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.

3. PROJECT MONITORING

A Project Monitoring Committee (PMC) comprising of eminent experts from the relevant field(s) will be constituted by BIRAC to monitor the progress of the objective(s) of the Project. BIRAC shall have at least one representative in the PMC.

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 Company 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.

4. INDEMNIFICATION

- a. The Institute and the Company 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 Institute and the Company 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-fulfilment of their respective obligations in

Saijay Saxena



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.

5. 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 Company 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 Company 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 Company and affecting the title to the properties of the Company or if a receiver is appointed of any of its properties or business or undertaking.
- c. The Company and the Institute 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.

6. FORECLOSURE AND TERMINATION

- i. In case, during the tenure of the Project, 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 Institute and the Company shall immediately refund any grant-in-aid unutilized out of BIRAC's disbursements, along with detailed accounts of funds received, utilized and unutilized. If the Institute and the Company like to continue the Project at its own cost, it would be able to do so without restrictions from BIRAC after complying with these provisions.
- ii. The Institute and the Company may, before the completion of the Project, terminate this Agreement by giving three months' notice in writing to BIRAC. BIRAC may also terminate this Agreement by written notice to "the Institute and the Company" committing breach of any term of this Agreement 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 Agreement, no further disbursement shall be made by BIRAC. The Institute and the Company shall be liable to return immediately the amount of grant-in-aid already availed of from BIRAC with simple interest at the rate of 12 (twelve) per cent per annum within 30 (thirty) days of termination of the Agreement. In case of failure to repay, without prejudice to any other rights under this Agreement, the amount can be recovered by initiating any procedure available in Law.

Sajjan Saxena



7. DISPUTE RESOLUTION AND ARBITRATION

In the event of any dispute or difference whatsoever arising between the Parties out of or relation to the construction, meaning, scope, operation or effect of this agreement or the validity the breach thereof shall be resolved amicably by mutual consultation or through the good offices of the Chairman, BIRAC.

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. 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.

8. EFFECT AND AMENDMENTS TO THE GLA

- i. GLA shall remain in force for whichever of these is the longest time unless suspended sooner:
 - a. For **36 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.
- ii. 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.

9. 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.

10. 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.

Sajay Saxena

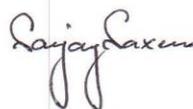


Acceptance & Undertaking

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

The Fund Recipients shall

1. Execute the activities as set out in the Project proposal and shall conform to the specified objectives, outputs, milestones, and targets therein as per Schedule 3
2. Submit periodic Progress report to BIRAC as per the Project milestones, details of activities involved in performing the Project activities, Utilization Certificate (UC) and Statements of Accounts Expenses (SOE) as per Schedule 1.
3. 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.
4. 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.
5. Subject themselves to Project monitoring of the Project Monitoring Committee (PMC).
6. 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.
7. The Institute shall verify the completion of the milestone and the utilization of the funds as stated by the partnering Company which will be a pre requisite for the next fund release.
8. Complete the Project within the stipulated period subject to the Change Order(s) issued by the BIRAC from time to time.
9. Not sub-delegate or outsource the obligations under this GLA without express permission of BIRAC except as provided for in the Project Document
10. 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.
11. 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.
12. Conform to the governing terms related to aspects of New IP, Technology transfer, licensing arrangements and/or profit sharing that shall be determined by the Institute and the Company and will be in the manner as set out in the Memorandum of Understanding (MoU), copy whereof



is attached as **Schedule 5**. Any amendment whatsoever to the above MoU shall be determined by the Institute and the Company after BIRAC approval during the Project Duration.

13. Acknowledge the assistance of BIRAC while publishing or presenting in any manner the details of the Project, its progress or its success or commercialization of the Product.

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

For and on behalf of Amity Centre for Mycobacterial Disease Research, Jaipur, "the Institute"	
Date and Place:	
Signature	
Name	
Designation	
Seal	
Witnesses	
Signature	
Name	
Address	

Sanjay Saxena



For and on behalf of **Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad, "the Company"** duly authorized vide Resolution No dated of its Board of Directors.

Date and Place:

Signature

Name

Designation

Company Common Seal or Signatures of Two Directors or One Director and Company Secretary

Witnesses

Signature

Name

Address

Sajay Saxena



Project Document:

OBJECTIVE AND TIMELINES
PROPOSAL OBJECTIVES & WORK PLAN
Objective1: Production of candidate recombinant antigen under GLP/GMP Labs
Methodology/Experimental Design To Accomplish The Stated Objective:
<ol style="list-style-type: none"> 1. Scale up of all the candidate antigens at fermentation scale 2. Characterization of each antigen batch including preparation of certificate of analysis CoA
Alternate Strategies: Care will be taken in expression of the recombinant protein and if needed the expression system will be changed to obtain better yields of recombinant protein
Objective2: Manufacturing process development & Technology transfer
Methodology/Experimental Design To Accomplish The Stated Objective:
<ol style="list-style-type: none"> 1. Procurement of raw material 2. Designing a protocol for an evaluation 3. Internal quality control IQC 4. External quality assessment EQA 5. SOPs 6. Develop in-process panel and product panel for the each product
Alternate Strategies: If needed the scale up will be carried out at the collaborators facility
Objective3: Mass production of kits & on site LAMP PCR
Methodology/Experimental Design To Accomplish The Stated Objective:
<ol style="list-style-type: none"> 1. Procurement of raw material in bulk 2. Making the final kit formulation 3. Diagnostic reagents and assay system 4. Manufacturing and assembly in bulk 5. Stability study 6. Getting License
Alternate Strategies: Genomix has a new facility at Pulivendula with state of the art technologies to manufacture bulk. This facility will be the ideal to scale up the production
Objective4: Supply third party validation of the kits
<ol style="list-style-type: none"> 1. Demonstrating the kit 2. Sending kits to reference labs 3. Comparative analysis of the kit with existing method 4. Supplying the kits to field veterinarians doctors for validation 5. Statistical analysis 6. Kit insert designing
Alternate Strategies: Not applicable

Sajay Saxena



TIME LINES			
Activities	Month Of Start Of Activity	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 1 : Production of candidate recombinant antigen under GLP/GMP Labs			
Production in Bioreactor	0	6	Optimized process for the bulk production of recombinant antigens
Characterization of each batch of antigens (3 batches)	0	6	Three batches of antigens of uniform quality
Characterization of each batch of candidate recombinant antigens 3 batches	0	6	Characterization of each batch of candidate recombinant antigens 3 batches
Activities	Month Of Start Of Activity	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 2 : Manufacturing process development & Technology transfer			
LFA Rapid kits, ELISA & to raise antibodies to develop antigen test	6	18	Kits to show good specificity and sensitivity
Establish D.T.H.	6	24	Test to show good specificity and sensitivity
Establishment of tests and technology transfer	6	24	Establishment of tests and technology transfer
Activities	Month Of Start Of Activity	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 3 : Mass production of kits & on site LAMP PCR			
Establish all the diagnostic kits as well as LAMP	14	24	Bulk production of kits
Establish LAMP coupled LFA for penside or POC diagnostic	18	24	Optimized LAMP coupled LFA and production of kits
Kits with desired specificity & sensitivity	14	35	Field testing results on sensitivity and specificity
Establish all the diagnostic kits with desired specificity & sensitivity	14	24	Establish all the diagnostic kits with desired specificity & sensitivity
Activities	Month Of Start Of Activity	Month Of End Of Activity	Indicators Of Progress

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OBJECTIVE 4 : Supply third party validation of the kits			
Identification of the reference	22	24	Getting approvals for testing of kits
Validation of products by reference labs	24	35	Getting the test results from validation labs
Third party validation of the kits	24	35	Third party validation of the kits

Sajay Saxena



INTELLECTUAL PROPERTY GOVERNING FRAMEWORK

a. Background IP Rights:

All rights, title and interest in or to any information, data, reports, documents, procedures, forecasts, technology, know-how, and inventions, including any patents, designs, copyrights, trademarks and any applications for patents, designs, copyrights or trademarks, in India and anywhere else in the world, that are owned by or vest in any Party before execution of this Agreement ("Background IP") shall remain the property of such Party.

b. New IP:

For the purpose of CRS, New IP means intellectual property generated during the conduct of the Project by the Institute and the Company excluding the intellectual property generated by the Institute before execution of this Agreement and any New IP generated by the Institute and the Company outside the scope of this Agreement even during the term of this Agreement. All rights, title and interest in New IP in India and anywhere else in the world, shall be owned by or vest in the applicant academia unless agreed otherwise between the parties.

The collaborating Company will have the first right of refusal with regard to the commercial exploitation of the New IP unless agreed otherwise between the parties. The Technology transfer and/or licensing arrangements proposed as per the Memorandum of Understanding signed between the Institute and the Company, copy thereof is attached as **Schedule 5**.

The fund recipients will not publish in any manner with regard to the results of the Project which will be in derogation to the creation and protection of IP and related rights as stated above.

NOTE: For the purpose of this GLA, New IP means intellectual property generated during the conduct of the Project by the Fund Recipient(s), but excluding the intellectual property generated by the Fund Recipient(s) 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;

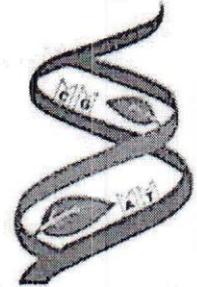
I.	Background IP of the Company
NA	
II.	Background IP of the Academic Institute/ University
IN201711016280: DIVA technology for para-tuberculosis vaccine Applicant: Amity University, Rajasthan	

Sanjay Saxena





Genomix Biotech



We care for healthcare

Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on (Aug 31, 2017) between

PARTY 1: Amity University Rajasthan, 14-Gopal Bari, Ajmer Raod, Jaipur, 302 001, Rajasthan, collectively called as "Amity".

PARTY 2: Genomix Molecular Diagnostics Pvt Ltd, 5-36/207 Prasanthinagar, Kukatpally, Hyderabad 500072, Telangana, collectively called as "Genomix"

Whereas, Amity has developed proof of concept with regard to "sero diagnostics, antigen based diagnostics, DTH tests and LAMP PCR using specific markers to detect paratuberculosis in domestic livestock species"

Whereas Amity has identified Genomix to carry part of its study that will involve providing necessary services required for the testing of livestock by manufacturing ELISA/ Lateral Flow assay/ LAMP kits using their IP.

Whereas Genomix has agreed to perform such required service using their IP by manufacturing kits as per the schedule and terms agreed mutually. Now thereof the parties for valid consideration enter into this MOU:

[Handwritten signature]



Rethna Zol Polamp



Sajjan Saxena



1. **OBJECTIVE:**

- a) Production of candidate recombinant antigen under GLP/GMP Labs
- b) Manufacturing process development & Technology transfer
- c) Mass production of kits & on site LAMP PCR
- d) Supply third party validation of the kits

2. **SCOPE OF WORK: The scope of work shall include:**

- a) Transfer of technology to industry
- b) Fabrication of technology in kit format
- c) Studies on the stability of the kits
- d) Validation of kits

3. **ROLES & RESPONSIBILITIES:**

A. Amity will provide the proof of concept and transfer the technologies to Genomix. Amity will do the in house validation of the kits and validation of the kits by national/ international reference labs.

B. Genomix will obtain the technology and required clones & primers and use them to kits for Paratuberculosis, will do the stabilization study of kits with Amity. Genomix will also facilitate to get these kits in-house validation and third party validation by national/ international reference labs.

4. **CONFIDENTIALITY:** All information under the MOU shared between the parties shall be treated as confidential information and shall be subject to restrictions on disclosure other than for the purpose of this MOU. The confidentiality obligations shall survive even after the termination or expiration of this MOU. Confidential information shall not include:

- a. information that is available in public domain;
- b. information already known to the receiving party;
- c. information disclosed to the receiving party by a third party not under obligation of confidentiality;
- d. Information developed by the receiving party independent of the confidential information received under this MOU.



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5. PUBLICATION:

Publications will be jointly done by Amity and Genomix.

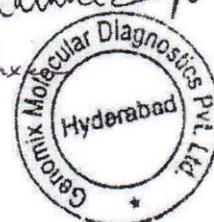
6. INTELLECTUAL PROPERTY RIGHTS :

- a. "Intellectual Property" means the legal rights relating to inventions, patent applications, patents, copyrights, trademarks, mask works, trade secrets, and any other legally protectable information, including computer software, first made or generated by such investors .
- b. The "Intellectual Property Rights (IPR)" generated during the project will exclusively lie with Amity.
- c. Patent Prosecution and Expenses. The filing, prosecution, defense and maintenance of all Patents for the Inventions will be conducted and controlled individually in the name of Amity and Genomix, acting reasonably and in good faith.
- d. Background Intellectual Property: Any of the party possess rights in background intellectual property, that is, intellectual property not otherwise subjected to this MOU, which would be useful or essential to the practice or commercialization of the results of this MOU, should be disclosed. Except to the limited extent required to perform a party's obligations under this MOU, neither party receives any right, title, or interest in or to any Research Materials provided to it by the other party or any technology, works or inventions of the other party that are not Research Program Inventions, or any patent, copyright, trade secret or other proprietary rights in any of the foregoing.
- e. Maintaining the Laboratory Notes: Each party agrees that research efforts will be well documented in the form a laboratory notes with accurate data disclosed for each experiments performed therein, during the course of this MOU.
- f. In the event of commercialization of the technology Genomix will have the first right of refusal.

- 7. TERM AND TERMINATION:** This MOU shall be valid for a period of **Three** years from the Effective Date and can be terminated by a notice of six months by either party. In case the MOU expires with in the duration of Project, both the parties (Amity and Genomix) will renew the same. The termination of this MOU shall not affect any IP rights accrued and



Page 21 of 22



related obligations arising under this MOU. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable modifications.

8. **INDEMNIFICATION:** Neither party shall be held responsible for the indemnification of their respective obligations under this MOU due to the exigency of one or more of the force majeure events such as but not limited to acts of God, War, Flood, Earthquakes, Strikes, Lockouts beyond the control of the party claiming force majeure, Epidemics, Riots, Civil Commotions etc. provided on the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall jointly decide about the future course of action.

9. **DISPUTE RESOLUTION, GOVERNING LAW AND JURISDICTION:**

Any disputes between the parties shall be resolved by mutual discussions. Minor dispute during execution of the project shall be subjected to resolution out of this MOU. The MoU shall be considered, interpreted and governed by the laws of India and Courts at Jaipur or Hyderabad shall have exclusive jurisdiction in all such matters.

Party 1 : *Amity University Rajasthan*

Party 2: *Genomix Molecular
Diagnostics Pvt. Ltd.*

Signature:



Signature:

Name: Cdr. Vishwadeepak Singh (Retd.)

Name: Dr Rathnagiri Polavarapu

Designation: Registrar

Registrar
Amity University Rajasthan
Jaipur

Designation: President & CEO

RATHNAGIRI POLAVARAPU

President & CEO
Genomix Molecular Diagnostics Pvt. Ltd
5-36/207, Prasanthi Nagar,
Kukatpally, Hyderabad-500 072



Page 22 of 22



Biotechnology Industry Research Assistance Council

(A Government of India Enterprise)

Dated: 25-6-2019

Dr. Jagdip Singh Sohal
Coordinator,
Amity Center for Mycobacterial Disease Research
Amity University,
44 Gopal Bari, Ajmer Road,
Jaipur - 302001
E-mail: jssohal@jpr.amity.edu

Copy to:
Dr. Rathnagiri Polavarapu
President & CEO,
Genomix Molecular Diagnostics Pvt. Ltd.,
5 No 20 Prashanthnagar,
Kukatpally,
Hyderabad -500072
E-mail: giri@genomixbiotech.com

Re: PAC F Project Title "Shielding the Livestock from Paratuberculosis using Vaccine: A Holistic Approach"

Dear Dr. Sohal,

In response to your above mentioned PAC F proposal, we are pleased to inform that your proposal has been approved by BIRAC at a total cost of Rs. 33.50 Lakhs (Rupees Thirty three Lakhs fifty thousand only). The contribution of BIRAC is Rs. 16.50 Lakhs (Rupees sixteen Lakhs fifty thousand only) as Grant in Aid to the Amity University, Jaipur. The contribution of BIRAC is Rs. 17.00 Lakhs (Rupees Seventeen Lakhs only) as Grant in Aid to the Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad for 18 Months. The terms of the Grant in Aid Letter Agreement (GIA) enclosed.

In your acceptance with the above funding support as mentioned in the GIA, the following documents should be submitted within a time period of **TWO WEEKS** from the date of issue of this communication:

- Grant in Aid Letter Agreement (GIA) including all the Schedules: All pages to be clearly initialed by the Local Partners.
- Consent Authorization from the Institute in the prescribed format of BIRAC
- Consent Authorization from the Company in the prescribed format of BIRAC
- Bank comment on the Bank's letter head to be submitted by the Company with regard to specific project account in the prescribed format of BIRAC (No Lien account should be opened in the Bank that provides Cheque Book Facility. A copy of cancelled cheque need to submit along with GIA)
- Bank Details of both Institute and Company

The Grant in Aid Letter agreement has been executed by BIRAC and kindly take a colour printout of GIA and the schedules (as many copies as the Parties- BIRAC, Institute and Company) and submit the same from your end, and then the collaborator.

Rathnagiri Polavarapu
Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad

K. Vijayalakshmi

[Signature]
AMITY UNIVERSITY
RAJASTHAN
JAIPUR

1st Floor, MTNL Building, 9, CGO Complex, Lodhi Road, New Delhi - 110003, India
Phone: +91-11-24389600 Fax: +91-11-24389611 Website: www.birac.nic.in E-mail: birac.dbt@nic.in
CIN No. : U73100DL2012NPL233152

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

Sanjay Saxena
Dr. Sanjay Saxena
(GM & Head - Investment)



Rathore
K. Vijay

A circular stamp with the text "Genovix Molecular Diagnostics Pvt. Ltd." around the perimeter and "Hyderabad" in the center. There is a signature over the stamp.

K

A circular stamp with the text "AMITY UNIVERSITY" around the perimeter and "JAIPUR" in the center. There is a signature over the stamp.



Biotechnology Industry Research Assistance Council

(A Government of India Enterprise)

Dated : 25-06-2019

Ref. No. BIRAC/BT/AIR0509/PACE-15/18

Sub: Funding of Project entitled "Shielding the Livestock from Paratuberculosis using Vaccine: A Holistic Approach" for funding under ACADEMIC INNOVATION RESEARCH (AIR) under Promoting Academic Research Conversion to Enterprise (PACE)

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 "Shielding the Livestock from Paratuberculosis using Vaccine: A Holistic Approach"

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

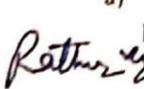
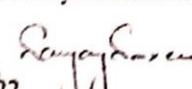
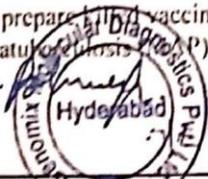
S. No.	Recipient(s)	Designated Project Investigator
1	Amity University, an Institute having its office at Amity University, 14- Gopal Bari, Ajmer Road, Jaipur, Rajasthan-302001, herein referred to as the "Institute" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees)	Dr. Jagdip Singh Sohal Coordinator, Amity Center for Mycobacterial Disease Research Amity University, 14-Gopal Bari, Ajmer Road, Jaipur -302001 Email: jssohal@jpr.amity.edu
2	M/s Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad, Company incorporated under the Companies Act, 2013 having its registered office at 5-36/207, Prasanthi Nagar, Kukatpally, Hyderabad, Andhra Pradesh-500072, 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. Rathnagiri Polavarapu President & CEO, Genomix Molecular Diagnostics Pvt. Ltd. 5-36/207, Prashanthnagar, Kukatpally, Hyderabad -500072 Email: giri@genomixbiotech.com

2. Aims & Objectives:

The detailed aims and the objectives 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:

- To prepare live vaccine using native isolate of Mycobacterium avium subspecies paratuberculosis (P)


Page 1 of 22

1st Floor, MTNL Building, 9, CGO Complex, Lodhi Road, New Delhi - 110003, India
 Phone: +91-11-24389600 Fax: +91-11-24389611 Website: www.birac.nic.in E-mail: birac.dbt@nic.in
 CIN No. : U73100DL2012NPL233152

- b) To prepare subunit vaccine for paratuberculosis using specific immuno-dominant recombinant antigens
- c) To setup vaccination trial of killed and subunit paratuberculosis vaccine in goat model
- d) To study the comparative efficacy of killed and subunit vaccine

3. **Project Duration:** The Recipients shall complete the Project within the stipulated period of **18 Months** from the date of acceptance of the GLA by all the recipients. In the event the Parties affix their signatures to this GLA on separate dates, the GLA shall be effective from the date on which the last set of signature is affixed thereto "Effective Date". Project Duration is subject to the Change order(s) issued by the BIRAC from time to time.

4. **Project Implementation Site:**

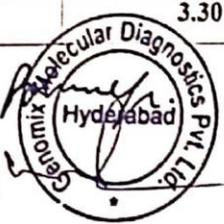
Amity University, 14-Gopal Bari, Ajmer Road, Jaipur -302001
 &
 Genomix Molecular Diagnostics Pvt. Ltd., 5-36/207, Prashanth Nagar, Kukatpally, Hyderabad - 500072

5. **Project Cost and Contribution:** The total estimated cost of the Project is **Rs. 33.50 Lakhs** (Rupees Thirty three Lakhs fifty thousand only). The contribution of BIRAC is **Rs. 16.50 Lakhs** (Rupees sixteen Lakhs fifty thousand only) as Grant-in-aid to the Amity University, Jaipur. The contribution of BIRAC is **Rs. 17.00 Lakhs** (Rupees Seventeen Lakhs only) as Grant-in-aid to the Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad on the terms and conditions detailed in this GLA.

6. **BIRAC Budget break-up:**

Details	Support under PACE to		Total BIRAC Support (Rs.in Lakhs)
	Amity University, Jaipur	Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad	
Non-recurring	3.30	0.00	3.30
Recurring	13.20	17.00	30.20
Total	16.50	17.00	33.50

Budget Head	BIRAC Contribution to Amity University, Jaipur	BIRAC Contribution to Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad	Total
Non-Recurring (A):			(Rs. in Lakhs)
a. Equipments	3.30	0.00	3.30
b. Accessories	0.00	0.00	0.00
Total (A)	3.30	0.00	3.30

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Recurring (B):			(Rs. in Lakhs)
a. Manpower	3.24 ✓	5.04 ✓	8.28 ✓
b. Consumables	8.00 ✓	10.00 ✓	18.00 ✓
c. Travel	1.50 ✓	1.00 ✓	2.50 ✓
d. Outsourcing	0.00 ✓	0.00 ✓	0.00 ✓
e. Contingency	0.46 ✓	0.96 ✓	1.42 ✓
Total(B)	13.20 ✓	17.00 ✓	30.20 ✓
Total (A+B)	16.50 ✓	17.00 ✓	33.50 ✓

Details Of Equipment Proposed To Be Acquired Through BIRAC Contribution For Applicant Institute

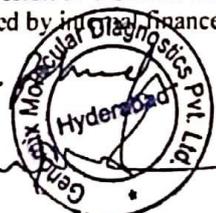
S.No	Infrastructure/Equipment	Capacity	Quantity	Specific Requirement In The Project	Estimated Value (Rs. In Lakhs)
1	Dry bath	1	1	Molecular work	0.50
2	Waterbath	1	1	Steam inactivation of culture	0.80
3	Ice maker	1	1	Various molecular assays of the project work	1.50
4	Centrifuge	1	1	Routine work	0.50
					Total :3.30 ✓

Accessories To Be Acquired (Rs in Lakhs): 0.00

7. Milestones/Timelines

S.No.	Milestones	Month of end of activity	Required financial input (Rs. In Lakhs)
1	Acceptance of Undertaking under CIA And Fulfilment of fund release requirements Status report on (Prepare killed vaccine using native isolate of MAP and subunit vaccine for paratuberculosis using specific immuno-dominant recombinant antigens)	0	10.05 ✓ (30% of PACE contribution)
2	And Submission of UC/SOI for the corresponding milestone certified by internal finance Status report on (To setup vaccination trial of killed and subunit paratuberculosis vaccine in goat model)	6	6.70 ✓ (20% of PACE contribution)
3	And Submission of UC/SOI for the corresponding milestone certified by internal finance	10	6.70 ✓ (20% of PACE contribution)

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Page 3 of 22

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4	Status report on (Establish comparative protective efficacy of killed and subunit vaccine) <i>And</i>	17	6.70 (20% of PACE contribution)
5	Submission of UC/SOE for the corresponding milestone certified by internal finance Submission of final completion report and consolidated Utilization Certificate (UC) and Statement of Expenses (SOE) certified by internal finance.	18	3.35 (10% of PACE contribution)
		Total	33.50

Note: - Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a chartered accountant for the expenditure incurred towards the Project for every half year period, ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year should be submitted by the Institutes till completion of Project Duration.

Regulatory Requirements : CPCSEA clearance within six months from start date of the project

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

Installment	Contribution by BIRAC under PACE to Amity University, Jaipur	Contribution by BIRAC under PACE to Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad	Total (Rs. in Lakhs)
First	4.95	5.10	10.05
Second	3.30	3.40	6.70
Third	3.30	3.40	6.70
Fourth	3.30	3.40	6.70
Fifth	1.65	1.70	3.35
Total	16.50	17.95	33.50

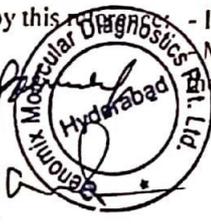
9. The recipient of the fund should accept to the terms and conditions of this GLA within four (4) weeks of the issue of GLA failing which the present offer of the funding support will be considered as infructuous and the project will be treated as withdrawn.

10. Inclusion by Reference:

- Terms and Conditions (Schedule 1)
- Acceptance and Undertaking (Schedule 2)
- Project document (Schedule 3)
- Intellectual Property Governing Framework (Schedule 4)
- Memorandum of understanding between the Institute and the Company (Schedule 5)

This GLA includes and incorporates by this reference

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K. Vijaya...

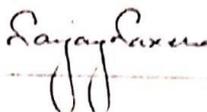
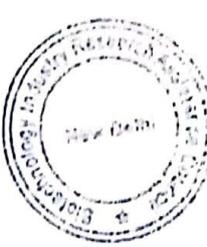


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11. The Memorandum of Understanding between the Institute and the Company is independent of the GLA and in the case of any ambiguity or conflict or inconsistency between this GLA and Schedule 5, the provisions of GLA shall take precedence.
12. The Expenditure is debitable to B.04 - Head of Accounts for the financial year 2019-20.
13. This issue with the approval of competent authority vide BFD No. BFD/BD/B-04/032 (20)A - 20 dated 25/06/2019
14. The GLA has been noted at Serial No. 09 in the Register of Grants.

This GLA is between Biotechnology Industry Research Assistance Council ("BIRAC"), Amity University, Jaipur and Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad and is effective as of the date of last signature. Each party to this GLA may be referred to individually as a "Party". Amity University, Jaipur as "Institute", Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad as "Company", Company and Institute together as "Fund Recipients" 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:

I)	For and on behalf of BIRAC
Signature 	
Name: Dr. Sanjay Saxena	
Designation : GM & Head - Investment	
Official Seal	
	
 	  

II) For and on behalf of Amity University, Jaipur, the Institute duly authorized vide letter dated by its concerned authority.

Signature




Name

Cdr. Vishwadeepak Singh (Retd.)

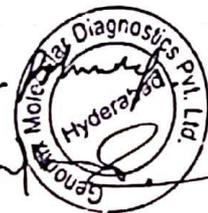
Designation

Registrar

Institute Seal



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12/11/2020



Page 6 of 22

Sayaj Saxena




III) For and on behalf of M/s Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad. "the Company" duly authorized vide Resolution No. 004/19-20 dated 02/07/19 of its Board of Directors.

Signature

Rathnagiri Polavarapu
K. Vijay Kumar



Name

Dr. Rathnagiri Polavarapu
Mr. Vijay Kumar K.

Designation

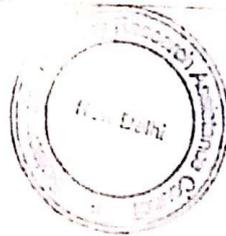
Dr. Rathnagiri Polavarapu, President & CEO
Mr. Vijay Kumar K., Director

Company Common Seal or Signatures of Two Directors or One Director and Company Secretary



Page 7 of 22

Sayaj Saxena



The terms and conditions for Project support under Grant-in-aid Letter Agreement (hereinafter called as "G.I.A") are as follows:

1. FUND DISBURSEMENT

- a. First installment of the Grant-in-aid will be released after issue of the G.I.A subject to fulfillment of the terms and conditions for such release 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 Company and the Institute shall submit the Utilization Certificate (UC) and Statements of Expenses (SOE) duly audited by a Chartered Accountant(CA) for the expenditure incurred towards the Project for every half year period, ending 30th September and 31st March, to BIRAC, within a month of closure of the accounts for the respective half year, in the format provided by BIRAC. The CA shall also certify that there has been no change in the shareholding pattern and if there is any change, the particulars shall be specified.
- b. The Institute and the Company shall submit UC and SOE duly certified by Internal finance personnel to BIRAC in the format provided on the completion of the respective milestones
- 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 Institute and the Company shall submit audited Annual reports along with the audited balance sheets and profit & loss accounts to BIRAC within seven months of the completion of the financial year ending 31st March till the completion of the Project Duration.
- e. 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.

The Institute 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.

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K. Vijay


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- f. The Institute and the Company 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 G.I.A. Re-appropriation of BIRAC funds from one budget head to another shall not be effected without the specific written approval of BIRAC;
- g. The Institute and the Company 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 & SOI);
- h. The Institute and the Company 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.

3. PROJECT MONITORING

A Project Monitoring Committee (PMC) comprising of eminent experts from the relevant field(s) will be constituted by BIRAC to monitor the progress of the objective(s) of the Project. BIRAC shall have at least one representative in the PMC.

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 G.I.A
- 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 & time-frame.
 - iv. inclusion of additional technical/institutional partner(s), if the Company 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.

4. INDEMNIFICATION

- a. The Institute and the Company 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 any act, omission or operation conducted by or on their behalf;

Page 9 of 22

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Hyderabad
 Geonix Molecular Diagnostics Pvt. Ltd.
 Hyderabad

Sanjay Saxena



- b. The Institute and the Company 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-fulfilment 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.

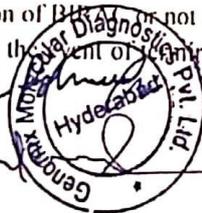
5. CHANGE OF CONTROL:

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 Company 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 Company 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 Company and affecting the title to the properties of the Company or if a receiver is appointed of any of its properties or business or undertaking.
- c. The Company and the Institute shall notify BIRAC of any material change in its entity status, shareholding pattern, 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.

6. FORECLOSURE AND TERMINATION

- i. In case, during the tenure of the Project, 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 Institute and the Company shall immediately refund any grant-in-aid until amount of BIRAC's disbursements, along with detailed accounts of funds received, utilized and unutilized. If the Institute and the Company like to continue the Project at its own cost, it would be able to do so without restrictions from BIRAC after complying with these provisions.
- ii. The Institute and the Company may, before the completion of the Project, terminate this Agreement by giving three months' notice in writing to BIRAC. BIRAC may also terminate this Agreement by written notice to "the Institute and the Company" committing breach of any term of this Agreement 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 Agreement, no further disbursement shall be



made by BIRAC. The Institute and the Company shall be liable to return immediately the amount of grant-in-aid already availed of from BIRAC with simple interest at the rate of 12 (twelve) per cent per annum within 30 (thirty) days of termination of the Agreement. In case of failure to repay, without prejudice to any other rights under this Agreement, the amount can be recovered by initiating any procedure available in Law.

7. DISPUTE RESOLUTION AND ARBITRATION

In the event of any dispute or difference whatsoever arising between the Parties out of or relation to the construction, meaning, scope, operation or effect of this agreement or the validity the breach thereof shall be resolved amicably by mutual consultation or through the good offices of the Chairman, BIRAC.

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. 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.

8. EFFECT AND AMENDMENTS TO THE GLA

- i. GLA shall remain in force for whichever of these is the longest time unless suspended sooner:
 - a. For 18 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.
- ii. 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.

9. 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.

10. 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,

Page 11 of 22

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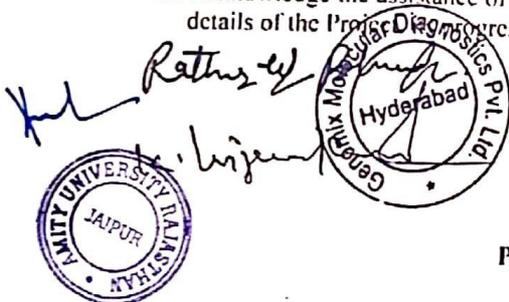


Acceptance & Undertaking

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

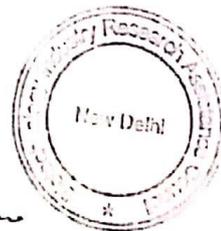
The Fund Recipients shall

1. Execute the activities as set out in the Project proposal and shall conform to the specified objectives, outputs, milestones, and targets therein as per Schedule 3
2. Submit periodic Progress report to BIRAC as per the Project milestones, details of activities involved in performing the Project activities, Utilization Certificate (UC) and Statements of Accounts Expenses (SOE) as per Schedule 1.
3. 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.
4. 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.
5. Subject themselves to Project monitoring of the Project Monitoring Committee (PMC).
6. 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.
7. The Institute shall verify the completion of the milestone and the utilization of the funds as stated by the partnering Company which will be a pre requisite for the next fund release.
8. Complete the Project within the stipulated period subject to the Change Order(s) issued by the BIRAC from time to time.
9. not sub-delegate or outsource the obligations under this GLA without express permission of BIRAC except as provided for in the Project Document
10. 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.
11. 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.
12. conform to the governing terms related to aspects of New IP, Technology transfer, licensing arrangements and/or profit sharing that shall be determined by the Institute and the Company and will be in the manner as set out in the Memorandum of Understanding(MoU), copy whereof is attached as Schedule 5. Any amendment whatsoever to the above MoU shall be determined by the Institute and the Company after BIRAC approval during the Project Duration.
13. Acknowledge the assistance of BIRAC while publishing or presenting in any manner the details of the Project progress or its success or commercialization of the Product.



Page 12 of 22

Sayaj Sankar



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

For and on behalf of Amity University, Jaipur. "the Institute" Date and Place:

Signature



Name

Cdr. Vishwadeepak Singh (Retd.)

Designation

Registrar

Seal

Witnesses



Signature

Name Prof G.K. Aseri

Address Provost
Amity University Rajasthan
Jaipur

Retn. of
12.12.19



Page 13 of 22



For and on behalf of Genomix Molecular Diagnostics Pvt. Ltd., Hyderabad, "the Company"
duly authorized vide Resolution No. 004/17-20 dated 02/07/19 of its Board of Directors.

Date and Place:

Signature

Rathnagiri
Vijay Kumar


Name ① Dr. Rathnagiri Polavarapu
② Mr. Vijay Kumar K.

Designation ① Dr. Rathnagiri Polavarapu, President & CEO
② Mr. Vijay Kumar K., Director

Company Common Seal or Signatures of Two Directors or One Director and Company Secretary



Witnesses

Signature

P.V. Reddy

Name

Dr. P. V. Janardhan Reddy

Address

Sr. Scientist
Genomix Molecular Diagnostics Pvt. Ltd.
Hyderabad.



Page 14 of 22

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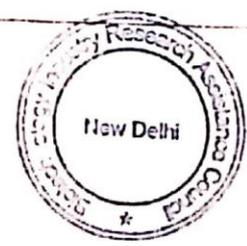
Project Document:

OBJECTIVE AND TIMELINES
PROPOSAL OBJECTIVES & WORK PLAN
Objective 1: To prepare killed vaccine using native isolate of Mycobacterium avium subspecies paratuberculosis (MAP)
Methodology/Experimental Design To Accomplish The Stated Objective: <i>Activities:</i> <ul style="list-style-type: none"> Genetic fingerprinting of isolates Formulation of vaccine using selected isolate and adjuvant Sterility & safety testing
Alternate Strategies: In case of the poor growth of isolate on liquid medium, solid media HEYM will be used to vaccine preparation
Objective 2: To prepare subunit vaccine for paratuberculosis using specific immuno-dominant recombinant antigens
Methodology/Experimental Design To Accomplish The Stated Objective: <i>Activities:</i> <ul style="list-style-type: none"> Bulk production of recombinant proteins (RPs) Production of subunit vaccine using RPs (0862, 2677, 3547, 4308) and adjuvant, stabilization of protein by threhalose Sterility & safety testing
Alternate Strategies: For the bulk production of recombinant proteins bioreactor will be used
Objective 3: To setup vaccination trial of killed and subunit paratuberculosis vaccine in goat model
Methodology/Experimental Design To Accomplish The Stated Objective: <i>Activities:</i> <ul style="list-style-type: none"> Selection of paratuberculosis free animals Setting up of vaccination using killed & subunit vaccine <p>Group A (killed vaccine) Group B (subunit vaccine) Group C (control)</p>
Alternate Strategies: Proper veterinary care of the vaccinated animals will be ensured
Objective 4: To study the comparative efficacy of killed and subunit vaccine
Methodology/Experimental Design To Accomplish The Stated Objective: <i>Activities:</i> <ul style="list-style-type: none"> Monitoring of vaccination trials (humoral, cellular, lymphocyte population, cytokine, histological, shedding, body scores, DIVA testing etc) Establish comparative protective efficacy of killed and subunit vaccine
Alternate Strategies: In case of any confusion/ misleads in findings sampling and analysis will be repeated

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K. Vijay



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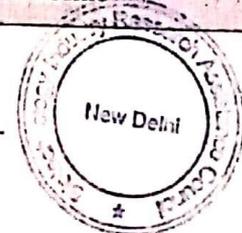


TIME LINES		
Activities	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 1: To prepare killed vaccine using native isolate of Mycobacterium avium subspecies paratuberculosis (MAP)		
Genetic fingerprinting of isolates	6	Selected MAP isolate for vaccine preparation
Formulation of vaccine using selected isolate and adjuvant	6	Prepared batch of killed vaccine
Sterility & safety testing	6	Established sterility & safety of vaccine lot
Activities	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 2 : To prepare subunit vaccine for paratuberculosis using specific immunodominant recombinant antigens		
Bulk production of recombinant proteins (RPs)	4	Bulk panel of recombinant proteins
Production of subunit vaccine using RPs (0862, 2677, 3547, 4308) and adjuvant, stabilization of protein by trehalose	6	Prepared batch of subunit vaccine
Sterility & safety testing	6	Established sterility & safety of subunit vaccine lot
Activities	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 3 : To setup vaccination trial of killed and subunit paratuberculosis vaccine in goat model		
Selection of paratuberculosis free animals	6	Identified paratuberculosis free animals
Setting up of vaccination using killed & subunit vaccine <ul style="list-style-type: none"> Group A (killed vaccine) Group B (subunit vaccine) Group C (control) 	17	Vaccination trial in three groups Group A killed vaccine , Group B subunit vaccine and Group C control
Activities	Month Of End Of Activity	Indicators Of Progress
OBJECTIVE 4 : To study the comparative efficacy of killed and subunit vaccine		

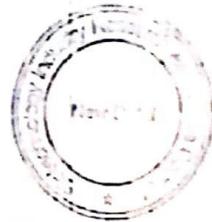
Ratna Lal Polam
K. Kishore



Sajjan



Monitoring of vaccination trials (humoral, cellular, lymphocyte population, cytokine, histological, shedding, body scores, DIVA testing etc)	17	Established data on humoral response, cellular response, cytokine profiles, lymphocyte sub-population, histopathological findings, physical parameters etc for vaccines
Establish comparative protective efficacy of killed and subunit vaccine	17	Established protective efficacy of vaccines



Signature

Rethur...
K. Vijan



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INTELLECTUAL PROPERTY GOVERNING FRAMEWORK

a. Background IP Rights:

All rights, title and interest in or to any information, data, reports, documents, procedures, forecasts, technology, know-how, and inventions, including any patents, designs, copyrights, trademarks and any applications for patents, designs, copyrights or trademarks, in India and anywhere else in the world, that are owned by or vest in any Party before execution of this Agreement ("Background IP") shall remain the property of such Party.

b. New IP:

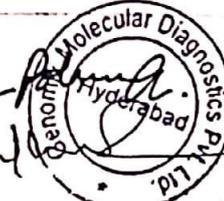
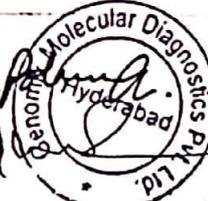
For the purpose of PACE, New IP means intellectual property generated during the conduct of the Project by the Fund Recipient excluding the intellectual property generated by the Institute before execution of this Agreement and any New IP generated by the Fund Recipient outside the scope of this Agreement even during the term of this Agreement. All rights, title and interest in New IP in India and anywhere else in the world, shall be owned by or vest in the applicant academia unless agreed otherwise between the parties.

The fund recipient will not publish in any manner with regard to the results of the Project which will be in derogation to the creation and protection of IP and related rights as stated above.

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

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

I.	Background IP of the Institute
NIL.	
II.	Background IP of the Company
NIL.	

Rethu Reddy
12.10.2020



[Signature]


[Signature]





Genomix Biotech



We care for healthcare

Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 07/02/2019 between
PARTY 1: Amity University Rajasthan, Amity House, C - 119, Lal Kothi Scheme, Behind Vidhan Sabha, JAIPUR - 302 015 (Rajasthan), collectively called as "Amity".

PARTY 2: Genomix Molecular Diagnostics (P) Ltd, 5-36/207 Prasanthnagar, Kukatpally, Hyderabad 500 072, (AP), collectively called as "Genomix"

Whereas, the institute has developed proof of concept with regard to Paratuberculosis Vaccine
Whereas institute has identified Genomix to carry part of its study that will involve providing necessary services required for the testing Paratuberculosis Vaccination studies.

Whereas Genomix has agreed to perform such required service which is testing Paratuberculosis Vaccine as per the schedule and terms agreed mutually. Now thereof the parties for valid consideration enter into this MOU:

1. OBJECTIVE:

- a) To prepare killed vaccine using native isolate of *Mycobacterium avium* subspecies *paratuberculosis* (MAP)
- b) To prepare subunit vaccine for paratuberculosis using specific immuno-dominant recombinant antigens
- c) To setup vaccination trial of killed and subunit paratuberculosis vaccine in goat model
- d) To study the comparative efficacy of killed and subunit vaccine

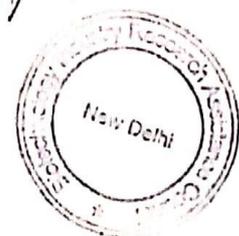
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2. **SCOPE OF WORK:** The scope of work shall include:

- a) Developing the killed and subunit paratuberculosis vaccine
- b) Setting up the comparative vaccination trials of killed and subunit paratuberculosis vaccine
- c) Establish the comparative protective efficacy of killed and subunit paratuberculosis vaccine

3. **ROLES & RESPONSIBILITIES:**

A. Amity University Rajasthan

- a) Genetic fingerprinting of MAP isolates
- b) Preparation of killed and subunit vaccine
- c) Transfer of the killed and subunit vaccine to Genomix
- d) Monitoring the vaccination trial (immunological profiling)
- e) Establishing the comparative efficacy of the vaccines

B. Genomix Molecular Diagnostics (P) Ltd

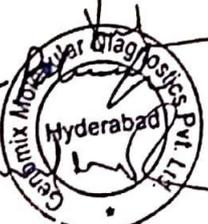
- a) Setting up the vaccination trial for killed and subunit vaccine in goat model
- b) Monitoring of the vaccination trial (immunological profiling and routing monitoring)
- c) Establishing the comparative efficacy of the vaccines

4. **CONFIDENTIALITY:** All information under the MOU shared between the parties shall be treated as confidential information and shall be subject to restrictions on disclosure other than for the purpose of this MOU. The confidentiality obligations shall survive even after the termination or expiration of this MOU. Confidential information shall not include:

- a. information that is available in public domain;
- b. information already known to the receiving party;
- c. information disclosed to the receiving party by a third party not under obligation of confidentiality;
- d. Information developed by the receiving party independent of the confidential information received under this MOU.

5. **PUBLICATION:**

Publications will be jointly done by Amity and Genomix.

Rethna Raj
S. Rajeev


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Rethna Raj
S. Rajeev


Page 20 of 22



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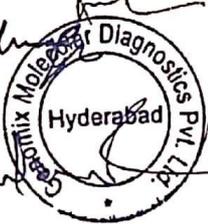
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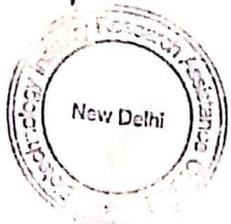
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6. INTELLECTUAL PROPERTY RIGHTS:

- a. "Intellectual Property" means the legal rights relating to inventions, patent applications; patents, copyrights, trademarks, mask works, trade secrets, and any other legally protectable information, including computer software, first made or generated by such investors .
- b. The "Intellectual Property Rights (IPR)" generated during the project will exclusively lie with the academia, Amity.
- c. Patent Prosecution and Expenses. The filing, prosecution, defense and maintenance of all Patents for the Inventions will be conducted and controlled individually in the name of Amity, acting reasonably and in good faith.
- d. Background Intellectual Property: Any of the party possess rights in background intellectual property, that is, intellectual property not otherwise subjected to this MOU , which would be useful or essential to the practice or commercialization of the results of this MOU, should be disclosed. Except to the limited extent required to perform a party's obligations under this MOU, neither party receives any right, title, or interest in or to any Research Materials provided to it by the other party or any technology, works or inventions of the other party that are not Research Program Inventions, or any patent, copyright, trade secret or other proprietary rights in any of the foregoing.
- e. Maintaining the Laboratory Notes: Each party agrees that research efforts will be well documented in the form a laboratory notes with accurate data disclosed for each experiments performed therein, during the course of this MOU.
- f. In the event of commercialization of the technology by Genomix will have the first right of refusal

7. TERM AND TERMINATION: This MOU shall be valid for a period of Three years from the Effective Date, if the project duration is more then 3 years then later on both the parties will have to renew the same. MOU can be terminated by a notice of six months by either party. The termination of this MOU shall not affect any IP rights accrued and related obligations arising under this MOU. As per the need the MOU will be revised for further duration with same terms and conditions or mutually agreeable modifications.

Rathin Raj Pal Singh
K. Vijay Kumar


Rathin Raj Pal Singh
K. Vijay Kumar


3

Page 21 of 22



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8. **INDEMNIFICATION:** Neither party shall be held responsible for the indemnification of their respective obligations under this MOU due to the exigency of one or more of the force majeure events such as but not limited to acts of God, War, Flood, Earthquakes, Strikes, Lockouts beyond the control of the party claiming force majeure, Epidemics, Riots, Civil Commotions etc. provided on the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall jointly decide about the future course of action.

9. **DISPUTE RESOLUTION, GOVERNING LAW AND JURISDICTION:**

Any disputes between the parties shall be resolved by mutual discussions. Minor dispute during execution of the project shall be subjected to resolution out of this MOU. The MoU shall be considered, interpreted and governed by the laws of India and Courts at Jaipur or Hyderabad shall have exclusive jurisdiction in all such matters.

Party 1 : Amity University Rajasthan

Party 2: Genomix Molecular Diagnostics (P) Ltd

Signature:

Name: Cdr. Vishwadeepak Singh (Retd)
Registrar
Amity University Jaipur

Designation: Registrar



Signature:

Name: Dr Rathnagiri Polavarapu

Designation: President & CEO



Rathnagiri Polavarapu
K. Chidambaram
Genomix Molecular Diagnostics (P) Ltd
Hyderabad

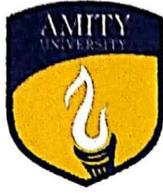


Page 22 of 22

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AMITY
UNIVERSITY
RAJASTHAN

&



MEMORANDUM OF UNDERSTANDING

AMITY UNIVERSITY RAJASTHAN (AUR), JAIPUR & SHREE BIOCARE SOLUTIONS PVT LTD, AHMEDABAD

In accordance with a desire to promote cooperation in areas of mutual interest for the benefits of both institutions, The **Amity University Rajasthan- Jaipur**, (State Private University) and **Shree Biocare Solutions Pvt Ltd, Ahmedabad**.

This MoU- hereinafter University refers to Amity University Rajasthan-Jaipur, established under Rajasthan State Act No. 08 of 2008 recognized by University Grants Commission (UGC) under section 2F of UGC Act of 1956 and Shree Biocare India, Ahmedabad. The scope of the MoU will be the academia industry cooperation's for industrial consultancy, mutually benefitted funding opportunities along with Master's and Bachelor's Training programs.

Amity University is the leading education group of India with over 1, 00,000 students studying 1,000 acres hi-tech campus and more than 6000 faculty members. Amity University (AUR), Rajasthan is one among the many reputed Educational and Research Institutions sponsored by Ritnand Balved Education Foundation (RBEF), the umbrella body of all Amity Institutions. AUR is established under Rajasthan State Act No. 08 of 2008 recognized by University Grants Commission (UGC) under section 2F of UGC Act of 1956. AUR is a leading research and innovation university under Amity Science, Technology and Innovation Foundation (ASTIF). ASTIF undertakes basic, strategic, applied and adaptive research in various disciplines of applied and social sciences.

[Handwritten signature]

ASTIF offers research fellowships for young, meritorious researchers and scientists in cutting edge areas of science and technology.

Shree Biocare Solutions Pvt. Ltd. is a leading Bio process solutions provider. Shree Biocare is established in 2004, ISO 9001:2008, CE, GMP Certified company & leading technology leader in field of Upstream Bioprocess for customer around globe. SHREE BIOCARE is 2nd Largest manufacturer of fermentor & Bioreactor including Data Acquisition Fermentor Software, Supervising Control Fermentor Software, Fermentor Refurnishing Services, Fermentor Project Management Solutions, Technology Transfer for Bio Fertilizer and Contract Manufacturing Services. Shree Biocare Solutions Pvt. Ltd. is exporting bioreactors to East Asia, Middle East, South East Asia, Indian Subcontinents and Africa. In India, Indian Farmers Fertilizer Co-Operative Ltd. (IFFCO), National Environmental Engineering Research Institute (NEERI) and Agriculture Research and Development Foundation are prominent clients.

Shree Biocare provides contract research and manufacturing fermenter process application support laboratory based at Ahmedabad equipped with fermentation services - 5 liters and industrial scale 50 liters fermenter with inoculation chambers, sterilizer, shaker, freezer and other instruments. Biocare always ready to increase facility to new project either research or manufacturing.

This MoU is made and entered into on 18 May 2019 between AUR and **Shree Biocare Solutions Pvt Ltd**, with following terms and conditions of MoU between both the parties:

1. Both the parties will work on mutually interesting research projects related to Bio process and other mutual interest.
2. Both parties can exchange research and industrial facilities to execute their research and development activities.
3. Both parties can access their research and resources (equipment's & places), reagents and consumables to execute the research.

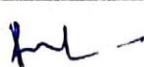
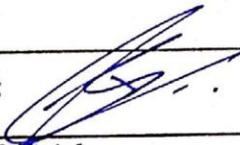
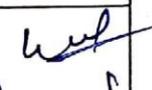
*U
D. Mill.*

4. Both parties will facilitate to write grants to obtain funds from national and international agencies related to mutually interested projects.
5. Any IPR issue emanated from joint research funding from any government agency under this MoU will be the joint property of the University and Institute. IPR issues will be "patented as joint patent". Benefits emanated from commercialization from developed technology under this MoU will be shared between University and Shree Biocare India. Investigator from Amity University Rajasthan can agree upon one-time fixed cost for the technology transfer to The Shree Biocare India.
6. In case of the consultancy & Research project funded and supported by **Shree Biocare Solutions Pvt Ltd**, all the IPR rights are reserved with **Shree Biocare Solutions Pvt Ltd, Ahmedabad**
7. Amity University, Rajasthan will facilitate **Shree Biocare Solutions Pvt Ltd**, to register their interested and sponsored employee for Master and Ph.D. degree for obtaining their degrees as per AUR norms.
8. **Shree Biocare Solutions Pvt Ltd**, will engage interested B. Sc. and M. Sc. students of Amity University, Rajasthan for industrial training and internship at their production site with bare minimum expenses.

.....X.....

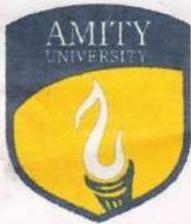


IN WITNESS WHEREOF, parties hereto set and subscribed their respective hands

Signature: 	Signature: 
Name of Official: Cdr. Vishwadeepak Singh (Retd.)	Name of Official: Mr. Bhadresh Pankhaniya
Designation: Registrar	Designation: Chief Executive Officer (CEO)
PARTY OF THE AUR, RAJASTHAN	PARTY OF SHREE BIOCARE SOLUTIONS PVT LTD, AHMEDABAD
Date: 18 th May 2019	Date: 18/05/2019
In Presence of:	In Presence of:
1.  2.  (Dr. Manish Verma)	1. Mr. Yogesh Kanchal  2. Mr. Tighar Patel 


Institutional Stamp
Amity University Rajasthan, Jaipur


Industrial Stamp
Shree Biocare Solutions Pvt Ltd, Ahmedabad



AMITY
UNIVERSITY
RAJASTHAN

&



Memorandum of Understanding
Between
Amity University Rajasthan (AUR), Jaipur
&

The Unati Cooperative Marketing-cum-Processing Society Ltd, Talwara, Punjab

In accordance with a desire to promote cooperation in areas of mutual interest for the benefits of both institutions, The **Amity University Rajasthan- Jaipur**, (State Private University) and **The Unati Cooperative Marketing-cum-Processing Society Ltd, Talwara Punjab**.

This MOU- hereinafter University refers to Amity University Rajasthan-Jaipur, established under Rajasthan State Act No. 08 of 2008 recognized by University Grants Commission (UGC) under section 2F of UGC Act of 1956 and The Unati Cooperative Marketing-cum-Processing Society Ltd. The scope of the MOU will be the academia industry cooperation's for industrial consultancy by research, product formulations, process development, and mutually benefitted funding opportunities along with Master's and Bachelors Training programs.

Amity University is the leading education group of India with over 1, 00,000 students studying 1,000 acres hi-tech campus and more than 6000 faculty members. Amity University (AUR), Rajasthan is one among the many reputed Educational and Research Institutions sponsored by Ritnand Balved Education Foundation (RBEF), the umbrella body of all Amity Institutions. AUR is established under Rajasthan State Act No. 08 of 2008 recognized by University Grants Commission (UGC) under section 2F of UGC Act



of 1956. AUR is a leading research and innovation university under Amity Science, Technology and Innovation Foundation (ASTIF). ASTIF undertakes basic, strategic, applied and adaptive research in various disciplines of applied and social sciences. ASTIF offers research fellowships for young, meritorious researchers and scientists in cutting edge areas of science and technology.

The Unati Co-operative Marketing-cum Processing Society Ltd. is established and supported by **Department of Biotechnology (DBT), Government of India** and **Punjab State Council for Science & Technology, Chandigarh** with a vision to explore herbal bio resources strength of lower Shiwalik belt of Punjab in terms of income generation of local community, women empowerment and to achieve the sustainable growth which will bring overall upliftment of the society in health, nutrition and economic prospects. Team Unati has core competency in management of herbal BioSource's of lower Himalayas as tool for income generation for local community and delivering best quality nutraceuticals products out of it. In our cooperative network of more than 400 members who pick best quality raw material from surrounding pristine Himalayas. The Unati is backed by capacious built infrastructural facility spread in 5 acres of land, which aids in fulfilling diverse customer's demand.

Society is supported by ardent professionals, who effectively make use of modern infrastructural requisite to offer product range as per the demands and specifications offered by the clients. The Unati is associated with various public funded research institute and universities such as Punjab State Council for Science and Technology, Chandigarh, Guru Angad Dev Veterinary and Animal Sciences University Ludhiana, Punjab Agriculture University, Ludhiana, Punjab Biotechnology Incubator, Mohali, Indian Institute of Sugarcane Research, Lucknow and Institute of Himalayan Bio-resources Technology, Palampur. The Unati adopted and commercialize various technologies (Apple cider, Vinegar production and traditional fermented ethnic beverages) from above mentioned institutes.



- 2 -



This MoU is made and entered into on 27 February 2019 between AUR and The Unati with following terms and conditions of MoU between **Amity University Rajasthan & The Unati Co-operative Marketing-cum Processing Society Ltd:**

1. Both the parties will work on mutually interesting consultancy research projects related to fermented food production, probiotic beverage formulations and other mutual interest.
2. The budget or consultancy amount will be decided on case to case basis in terms of work progress with mutual consent of both the parties.
3. Both parties can exchange research and industrial facilities to execute their research and development activities.
4. Both parties can access their research and resources (equipment's & places), reagents and consumables to execute the research.
5. Both parties will facilitate to write grants to obtain funds from national and international agencies related to mutually interested projects.
6. Any IPR issue emanated from joint research funding from any government agency under this MOU will be the joint property of the University and Institute. IPR issues will be "patented as joint patent". Benefits emanated from commercialization from developed technology under this MOU will be shared between University and Institute or else Amity University Rajasthan, Investigator from Amity University Rajasthan can agree upon one-time fixed cost for the technology transfer to The Unati for commercialization.
7. In case of the consultancy project funded and supported by The Unati, all the IPR rights are reserved with The Unati group.
8. Amity University, Rajasthan will facilitate The Unati to register their interested and sponsored employee for Master and Ph.D. degree for obtaining their degrees as per AUR norms.

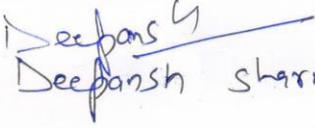
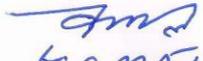
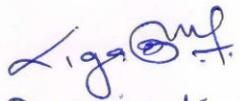


- 3 -



9. The Unati will engage interested B. Sc. and M. Sc. students of Amity University, Rajasthan for industrial training and internship at their production site with bare minimum expenses.

IN WITNESS WHEREOF, parties hereto set and subscribed their respective hands

Signature: 	Signature: 
Name of Official: Cdr. Vishwadeepak Singh (Retd.)	Name of Official: Mr. Jyooti Saroop
Designation: Registrar	Designation: General Manager
PARTY OF THE AUR, RAJASTHAN	PARTY OF THE UNATI CO-OPERATIVE MARKETING-CUM PROCESSING SOCIETY LTD
Date:	Date:
In Presence of:	In Presence of:
1.  Deepansh sharma	1.  KAMALIVETAR
2.  P.V.S. Raju.	2.  RAJEEV KUMAR



Institutional Stamp
Amity University Rajasthan, Jaipur



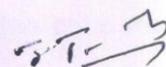
Industrial Stamp
The Unati Co-operative Marketing-cum Processing Society Ltd

- All the raw material such as plant juice, and other herbal content will be provided by the Industry for carrying out the project.
- Scientific analysis (whichever not possible at Amity University) will be sent to third party, after getting approvals from Unati.
- The funding will release in 4 installments as follows;

Approved Financial Budget:

Particular	1 st installment (0-3 months) June 2019	2 nd installment (3-06 months) September 2019	3 rd installment (6-09 months) Dec, 2019	4th installment (9-12 months) March 2020	Total Budget Required (Rs.)
Consumables (Includes laboratory reagents, glassware and travel expenses)	85, 000/-	85, 000/-	45, 000/-	45, 000/-	2, 60, 000/-
Minor equipment and Peripherals	40, 000/-	-	-	-	40, 000/-
Manpower (Ms. Mehak, Ph.D. Scholar) @ Rs. 5000/-per month	15, 000/-	15, 000/-	15, 000/-	15, 000/-	60, 000/-
Total Budget	1, 40, 000/-	1, 00, 000/-	60, 000/-	60, 000/-	3, 60, 000/-

- Out of budget for consumables Rs. 90, 000/- from 3 and 4 installment i.e. Rs. 90, 000/- will be released after 6 monthly project progress meetings respectively.
- Project review meetings will be held on every quarter of the project progress and budget release.
- That all trade secrets would be maintained while the product is being conceptualized.



Jyoti Saroop
General manager
Manager
The Unati Co-operative Marketing
Cum Processing Society Ltd.
Falwara



THE UNATI CO-OP. MARKETING-CUM-PROCESSING SOCIETY LTD.

GST NO.: 03AACAT8539N1Z0

Reg. No. 7
Dated 16-5-2003

Ref. No. UCS/19.20/52

Dated 11/07/2019

Dr. Deepansh Sharma
Assistant Professor
Amity Institute of Microbial Technology
Amity University Rajasthan

Subject: Sanction order for industry sponsored project entitled “High Acidity Vinegar Production and Optimization of Process”

Reference: Your project proposal June 15, 2019

Dear Sir

This is with the reference to above stated subject; we are delighted to share that the project for High Acidity Vinegar Production and Optimization of Process is through for further working at your end. The terms and conditions will be:

- The project will be completed within the schedule as mutually agreed.
- All the scientific claims will be published with Unati as a mutual partner in leading journals along with the project. PI from Amity University Rajasthan will prepare all the research papers and will publish them timely. If required, joint patents will be filled before publishing the data.
- All the project will be work out up to scale up of the technology at Unati site.
- All the work, study and information done and collected during the project will be 100 % property of Unati Co-operative marketing cum Processing Society Limited.
- Each stage of the project will be treated as “complete” only after acceptance from the Unati. In case of any change or required modification, it must be done within same stage till the output is accepted by Unati.
- That all the bills and intellectual property will be in name of Mr. Jyoti Saroop, Unati Co-Operative Marketing Cum Processing Society Limited.
- All the data, Annexures, SOPs, methodology will be shared to industry after completion of the project as a final report.

5 KM Talwara Milestone, Near Mukerian Hydel Powerhouse No.1 Talwara, Distt. Hoshiarpur, Punjab (India) -144 216.

Contact : +91 94642 39195

Email : info@unati.org, unatiamla@yahoo.co.in

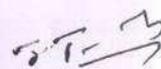
Website : www.unati.org, www.unatiamla.com

- All the raw material such as plant juice, and other herbal content will be provided by the Industry for carrying out the project.
- Scientific analysis (whichever not possible at Amity University) will be sent to third party, after getting approvals from Unati.
- The funding will release in 4 installments as follows;

Approved Financial Budget:

Particular	1 st installment (0-3 months) June 2019	2 nd installment (3-06 months) September 2019	3 rd installment (6-09 months) Dec, 2019	4 th installment (9-12 months) March 2020	Total Budget Required (Rs.)
Consumables (Includes laboratory reagents, glassware and travel expenses)	85, 000/-	85, 000/-	45, 000/-	45, 000/-	2, 60, 000/-
Minor equipment and Peripherals	40, 000/-	-	-	-	40, 000/-
Manpower (Ms. Mehak, Ph.D. Scholar) @ Rs. 5000/-per month	15, 000/-	15, 000/-	15, 000/-	15, 000/-	60, 000/-
Total Budget	1, 40, 000/-	1, 00, 000/-	60, 000/-	60, 000/-	3, 60, 000/-

- Out of budget for consumables Rs. 90, 000/- from 3 and 4 installment *i.e.* Rs. 90, 000/- will be released after 6 monthly project progress meetings respectively.
- Project review meetings will be held on every quarter of the project progress and budget release.
- That all trade secrets would be maintained while the product is being conceptualized.



Jyoti Saroop
General manager
Manager
The Unati Co-operative Marketing
Cum Processing Society Ltd.
Falwara

NUTRYQUBE FOOD PRODUCTS LLP

24, VINAYAK ENCLAVE, NAILA ROAD HEERAWALA, Jaipur, Rajasthan, 302021

Date: 29/07/2021

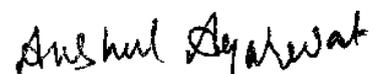
To
Dr. Deepansh Sharma
Assistant Professor
Amity Institute of Microbial Technology
Amity University Rajasthan, Jaipur

Subject: Sanction order consultancy project for Product development

Dear Sir

This is with the reference to above stated subject: we are delighted to share that the project for Product development (Mishri) is through for further working at your end. The terms and conditions will be:

1. Help Company in developing new products & standardization of company formulations (Mishri based preparations).
2. The company agrees to pay a total consultation fee of Rs. 1, 00000/-, in 2 installments (Rs. 50, 000/- each) to start the product research and testing.
3. All the raw materials for the new product developments will be provided by the company. Quality control and scientific analysis (whatever not possible at Amity University Rajasthan) will be sent to the third party, after mutual consent from the company.
4. All the consumables that will be used in the above-mentioned work will be funded by the company.
5. All the project work will be worked out up to scale-up of the product at the company production facility.
6. All the data, annexures, SOPs, and methodologies will be shared with the industry after completion of the consultancy work.
7. All the trade secret would be maintained while the product is being conceptualized.
8. As per the non-disclosure agreement, Nutryqube Food Products LLP India and Amity University signing the *agreement* agree that whatever trade secret, formulations, and testing procedures may obtain will not be made available to any other party.
9. The joint review meetings will be organized between consultant and company every 03 months for the next 3 years for technical progress and planning of future mutual works.



Nutryqube Food Products LLP

Memorandum of Understanding (MoU)

AMITY UNIVERSITY RAJASTHAN
JAIPUR (INDIA)

BIOME TECHNOLOGIES PVT
LTD, AHMEDNAGAR



&



Dated: 28.01.2022

In accordance with a desire to promote cooperation in areas of mutual interest for the benefits of both organizations, the Memorandum of Understanding is entered, on this January 28, 2022.

Between

Amity University Rajasthan, Jaipur (AUR) having its campus at Kant Kalwar, NH-11C, Jaipur - 303002 is one of the reputed Educational and Research Institutions sponsored by Ritnand Balved Education Foundation (RBEF), the umbrella body of all Amity Institutions. Amity University Rajasthan, Jaipur (AUR) was established in the State of Rajasthan, by an Act of the State Legislature in 2007 and is recognized by University Grants Commission (UGC) under UGC Act of 1956. AUR is a NAAC accredited and NIRF ranked leading research and innovation driven university. AUR, Jaipur is considered a pioneer in the field of higher learning and offers doctoral, postgraduate and undergraduate degrees in programmes ranging from Engineering, Biotechnology, Architecture, Management, Mass Communication, Law, Humanities, Psychology to unique programs in Microbial Technology, Bioinformatics, Clean Technology, Ocean Atmospheric Sciences and Converging Technologies, to name a few.

AND

Biome Technologies delivers technologies, products- processes development and turnkey projects in the Agri input and output sector. Biome Technologies Pvt Ltd also deliver services in the Agri biologicals, Food processing, Enzymes and Waste management through biotechnology-based approach. It has a client base of 150+ companies worldwide. Along with R&D and advisory, Biome Technologies is consistently engaged in the skill development programs to bridge the gap between industry- academia and farmer. Biome Technologies is actively engaged in skill development training to industry, government officials, NGOs, academia and farmers with a vast experience and network. Currently Biome Technologies Pvt Ltd is associated with 6 Universities and 17 colleges for the purpose of joint research activities and skill development initiative.

“AUR” and “**Biome Technologies**” shall hereinafter be referred to as individually as a “Party” and collectively as “Parties”.

WHEREAS The **Biome Technologies and AUR** recognizing the mutual interest in the field of research, development, education, and dissemination of knowledge on long term basis in the area of Biotechnology and other Sciences committed to promote joint research activities and faculty and students exchange programme/ activities. Both **Biome Technologies and AUR** are joining hands to play an effective role as committed to facilitate Industry-Academia Interaction activities by way of joint research projects, consultancy, contract research, internship/dissertation work/PhD studies, placement etc. in the area of their mutual interest and benefits.

NOW, this Memorandum of Understanding (to be hereinafter referred to as “MoU”) is executed to be in effect from the 28 day of January 2022 to establish Industry- Academia partnership and collaboration according to the terms and conditions set out in the articles in the area of biotechnology and its related fields between **AUR** and **Biome Technologies** incorporating the following mutual undertakings:

1. Both the parties will work on mutually interesting consultancy research projects related to Biotechnology.
2. Both parties can exchange research and industrial facilities to execute their research and development activities.
3. Both parties can access their research and resources (equipment's & places), reagents and consumables to execute the research.
4. Both parties will facilitate to write grants to obtain funds from national and international agencies related to mutually interested projects.
5. Any IPR issue emanated from joint research funding from any government agency under this MOU will be the joint property of the University and Company. IPR issues will be "patented as joint patent". Benefits emanated from commercialization from developed technology under this MOU will be shared between University and Company or else Amity University Rajasthan, Investigator from Amity University Rajasthan can agree upon one-time fixed cost for the technology transfer.
6. In case of the consultancy project funded and supported by The Biome Technologies Pvt Ltd, all the IPR rights are reserved with The Biome Technologies Pvt Ltd.
7. Amity University, Rajasthan will facilitate to register their interested and sponsored employee for Master and Ph.D. degree for obtaining their degrees as per AUR norms.
8. The industry will engage interested B. Sc. and M. Sc. students of Amity University, Rajasthan for industrial training and internship at their production site with bare minimum expenses.

1. Commencement and Tenure of MOU

This Memorandum of Understanding will take effect on the date of signature by both the parties herein. It shall remain in force initially for a period of five years and can be amended/ terminated on mutual written agreement between **Biome Technologies** and **AUR**.

2. The place of conciliation/arbitration proceedings shall be Jaipur.
3. For legal matters, the jurisdiction will be the courts at Jaipur.

In witness thereof the parties have caused their authorized representatives to sign this agreement on the date mentioned hereinabove.

Signed on this 28 day of January 2022

**For and on behalf of
Biome Technologies Pvt Ltd.**

**For and on behalf of
Amity University Rajasthan, Jaipur**

Name : **Dr. Prafful Gadge**
Designation : **CEO, Principal Scientist**
Seal :

Name : **Dr. Nitin Bhardwaj**
Designation : **Registrar**
Seal :

Witness :

Witness :

Name :
Designation :
Phone :
Email ID :

Name : **Dr. G K Aseri**
Designation : **Provost & Director-AIMT**
Phone : **+91- 9414412560**
Email ID : **gkaseri@jpr.amity.edu**
Amity University Rajasthan, Jaipur

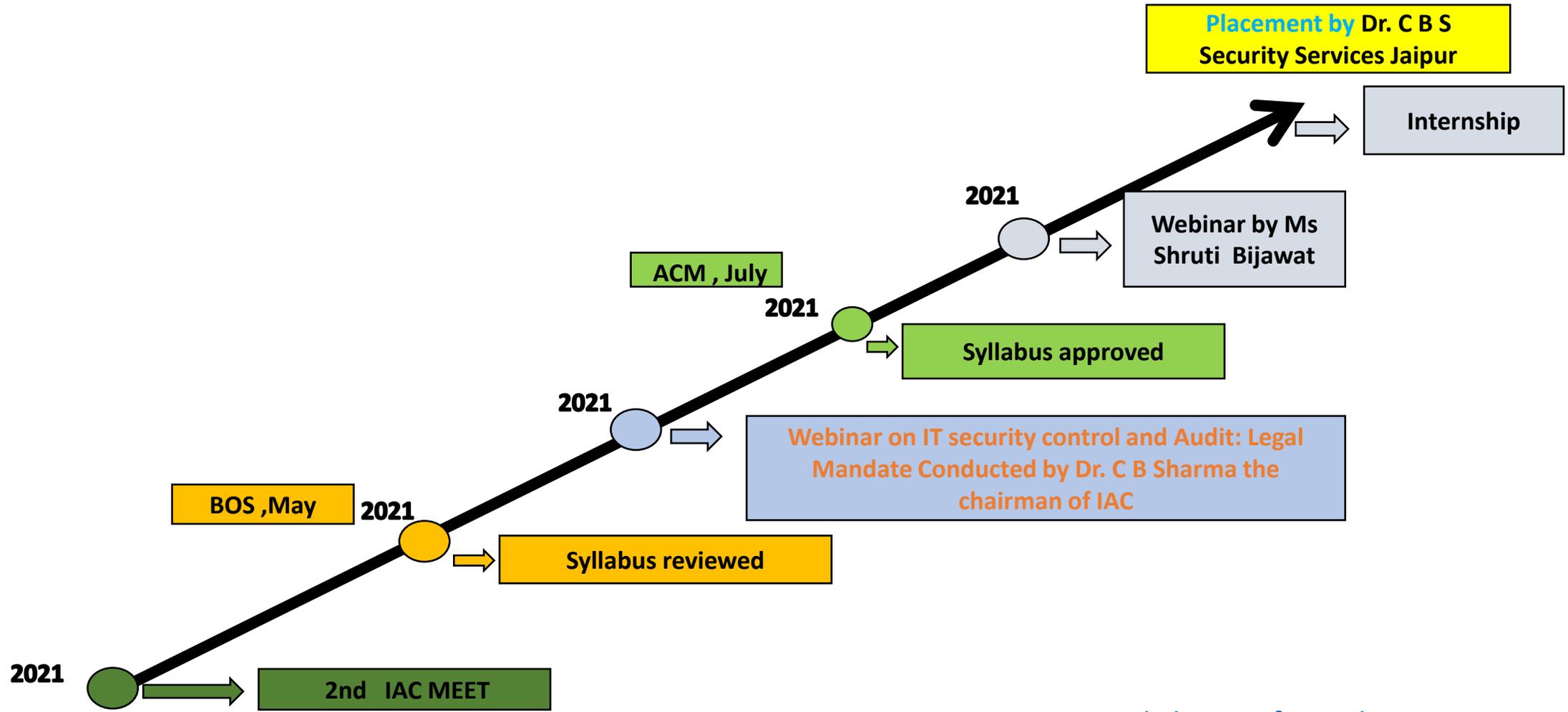


AMITY UNIVERSITY
RAJASTHAN

Best Practice 1 - Success Stories

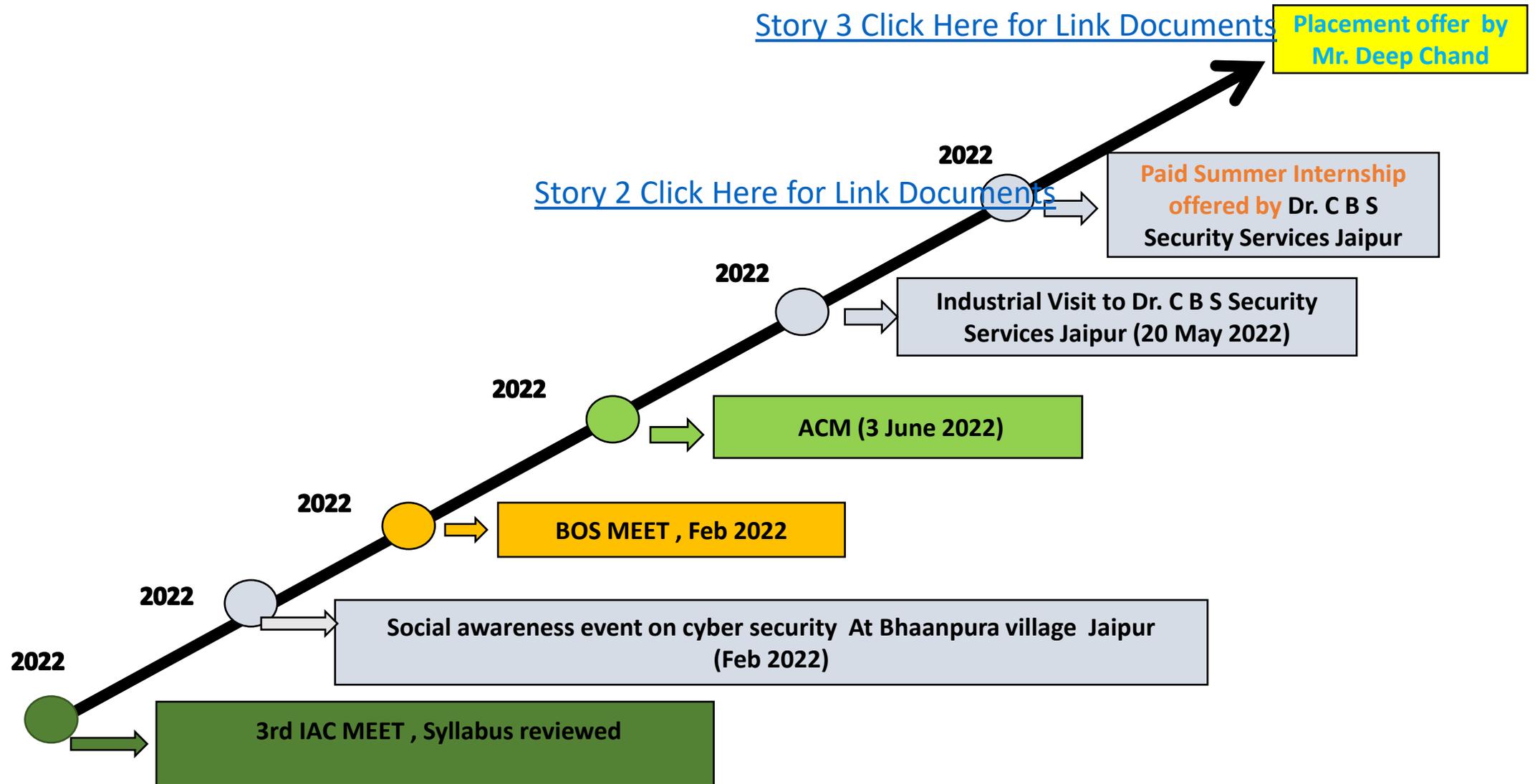
Amity Institute of Information Technology

IAC → BoS → Webinar → Internship → Placement



[Click Here for Link Documents](#)

IAC → BoS → Industrial Visit → Internship → Placement





AMITY UNIVERSITY

— RAJASTHAN —

Amity Institute of Information Technology (AIIT)

 **AMITY UNIVERSITY**
— RAJASTHAN —

Karl Folwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 31425-405678,
Fax: 31425-405679

No.: AUR/REG/5364 Date: 26/03/2021

Industry Advisory Council [IAC]
Amity Institute of Information Technology [AIIT]

The 'Industry Advisory Council [IAC]' is a working group of the concerned department/institute of Amity University Rajasthan, Jaipur. The aim of IAC is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

The 'Industry Advisory Council [IAC]' of Amity Institute of Information Technology (AIIT) is hereby constituted as under:

Chair

1.	Dr. C.B. Sharma	S. P. Jaipur City, IPS (Retd.), Rajasthan Police De CBS Cyber Security Services LLP, Jaipur Email ID - drcbsharma@gmail.com
----	-----------------	---

Co-Chair

2.	Prof. Swapnesh Taterh	Professor & Coordinator - AIIT
----	-----------------------	--------------------------------

Internal Members

3.	Dr. Chitresh Barotjee	Associate Professor - AIIT
4.	Dr. Manju Koushik	Associate Professor - AIIT
5.	Mr. Sameer Sowani	Assistant Professor - AIIT
6.	Ms. Anshu Hirawat	Assistant Professor - AIIT
7.	Mr. Arvind Kumarawat	Manager - CRC

Industry Experts

8.	Ms. Shruti Bijawat	Data Science Trainer, Seek.Ace Solutions, Jaipur Email ID - shruti@seekace.com
9.	Mr. Ajay Banerjee	State Head, Fullerton India Home Finance Co. Ltd., Jaipur Email ID - ajay.banerjee.jaipur@gmail.com
10.	Mr. Anil Sharma	Head-Learning & Development, Pratham Software™ (PSI), Jaipur Email ID - anil.sharma@psi.com
11.	Mr. Manish Chordia	CEO, Hascen Partners, Gurgaon Email ID - manish.chordia@hascenpartners.com

Page # 1 of 2

Amity City Office: Amity House, C-119, Lal Kothi Scheme, Behind Vidhan Sabha, Jaipur - 302 015, Telefax: 0141-2312489, 2318111



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Amity Institute of Information Technology (AIIT)



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— RAJASTHAN —

Kand Kales, M-11 C,
Jaipur (Rajasthan) 303002
Tel: 01426-400070,
Fax: 01426-400070

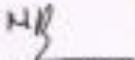
12. Mr. Karishk Chorraria CEO, Sysquare, Jaipur
Email ID - karishk@sysquare.com
13. Mr. Vaibhav Barga Technical Architect, Movenir Systems Pvt. Ltd., Gurgaon
Email ID - vaibhav.barga@movenir.com

Alumni

14. Mr. Arpit Bhardwaj MCA [Batch 2011-2013]
Associate Cyber Security, TCS
Email ID - arpitbhardwaj@gmail.com

Member Secretary

15. Dr. Girish Pallwal Assistant Professor - AIIT


Dr. Nitin Bhardwaj
Registrar



Page 2 of 2



AMITY UNIVERSITY

RAJASTHAN

Amity Institute of Information Technology (AIIT)

A Webinar on security audit conducted by **Dr. C.B. Sharma IPS (Retd.), CEO & Founder, Dr CBS Security Services, Jaipur. Organised Online on 25th October 2021 with 270 Participation.** Security

Audit is a systematic evaluation of the security of a company's information system by measuring how well it conforms to an established set of criteria. A thorough audit typically assesses the security of the system's physical configuration and environment, software, information handling processes and user practices. These audits are one of three main types of security diagnostics, along with vulnerability assessments and penetration testing. Security audits measure an information system's performance against a list of criteria. Security audits will help protect critical data, identify security loopholes, create new security policies and track the effectiveness of security strategies.

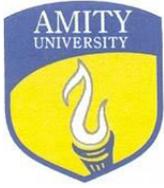
Glimpses of IT Act-2000
13 chapters
94 sections in original Act- 2000
31 sections added and 14 sections deleted in Amendment Act- 2008
One (1) section (66A) was struck down by the Hon'ble Supreme Court and after wards it is deleted
As on date total 110 sections
25 set of Rules made under various sections of the IT Act

Microsoft Teams interface showing a meeting with participants: +75, SR, DS, AS.

Need of Cyber Law:

- To provide legal recognition for transactions carried out by means of electronic data interchange.
- Filing of Electronic records in Government agencies.
- Recognition of information in electronic form in place of written/typed/printed documents.
- To provide a legal framework to prevent and mitigate cyber crime.
- To give effect to the resolution no. 162 dated 30.01.1997 of the General Assembly of United Nations to enact law in uniformity with Model Law on Electronics Commerce adopted by UN Commission on International Trade L

Microsoft Teams interface showing a meeting with participants: +73, SR, DS, AS. The user 'drcbsharmaips (Guest)' is visible in the bottom left.



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Amity Institute of Information Technology (AIIT)

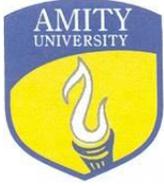
The screenshot shows a Microsoft Teams meeting interface. The main content is a presentation slide titled "Glimpses of IT Act-2000" with the following text:

- 13 chapters**
- 94 sections in original Act- 2000**
- 31 sections added and 14 sections deleted in Amendment Act- 2008**
- One (1) section (66A) was struck down by the Hon'ble Supreme Court and after wards it is deleted**
- As on date total 110 sections**
- 25 set of Rules made under various sections of the IT Act**

The slide also features a "CYBER" logo at the bottom. The meeting controls at the bottom of the slide show a timer at 53:44 and icons for mute, video, chat, and call. The "People" panel on the right lists participants:

- Presenters (3): Dr. Swapnesh Tateri, Amit Kumar Singh (Organizer), drcbsharmaips (Guest)
- Attendees (70): ABHISHEK BHARGAVA, ASUZER KHAN, AJEET CHOUDHARY, AKHILA S KUMAR

The Windows taskbar at the bottom shows the search bar, taskbar icons, system tray with 36°C Haze, and the date 10:47 26-04-2022.



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Amity Institute of Information Technology (AIIT)

Internship Completion Certificates of MSc(Cyber Security) two Students, Mr. Niladri Dalal and Mr. Chakradhar Singh.



DR CBS CYBER SECURITY SERVICES LLP

LLP Id No. AAK-4058

CERT-In Empanelled Information Security Auditing Organization (2020-2023)

Registered with **MSME** No.: UDYAM-RJ-17-0052608 &

Government e-Marketplace GeM Seller Id : IZ8O210002192567

Certificate of Recognition as #Startupindia No.: DIPP77174

Registered with iSTART Startup Rajasthan No. : 5F7054D

Member Data Security Council of India (**DSCI**): DSCI/AM/2018/03

14 June 2021

To whomsoever it may concern

This is certify that **CHAKRADHAR SINGH** S/O RADHESHYAM SINGH, M.Sc Cyber Security (Pursing), Amity University Jaipur, has successfully completed internship from 26 April 2021 to 14 June 2021.

Wishes him success in life.

Yours sincerely,



Authorised Signatory

Satyendra Singh

Assistant Cyber Security Analyst

DR CBS CYBER SECURITY SERVICES LLP



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DR CBS CYBER SECURITY SERVICES LLP

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Registered with iSTART Startup Rajasthan No. : 5F7054D

Member Data Security Council of India (DSCI): DSCI/AM/2018/03

14 June 2021

To whom so ever it may concern

This is certify that **NILADRI DALAL** S/O RAMAKANTA DALAL, M.Sc Cyber Security (Pursing), Amity University Jaipur, has successfully completed internship from 26 April 2021 to 14 June 2021.

Wishes him success in life.

Yours sincerely,

Authorised Signatory

Satyendra Singh

Assistant Cyber Security Analyst

DR CBS CYBER SECURITY SERVICES LLP





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Amity Institute of Information Technology (AIIT)

Placement Details of MSc(Cyber Security) student Mr. Niladri Dalal at Dr. CBS Cyber Security Services LLP , Jaipur Rajasthan.

Fwd: JOINING AS ASST. CYBER SECURITY ANALYST

Niladri Dalal <niladri.dalal98@gmail.com>

Wed 6/29/2022 1:05 PM

To:

- Girish Paliwal <gpaliwal@jpr.amity.edu>

----- Forwarded message -----

From: Niladri Dalal <niladri@drcbscyber.com>

Date: Wed, 29 Jun, 2022, 1:04 pm

Subject: Fwd: JOINING AS ASST. CYBER SECURITY ANALYST

To: niladri.dalal98@gmail.com <niladri.dalal98@gmail.com>

----- Forwarded message -----

From: Sachin Sharma <sachin@drcbscyber.com>

Date: Wed, 29 Jun, 2022, 12:47 pm

Subject: JOINING AS ASST. CYBER SECURITY ANALYST

To: <niladri@drcbscyber.com>

Dear Niladri Dalal,

After Successful completion of the Internship in the field of cyber security, We are pleased to offer you the full-time Assistant Cyber Security Analyst position at DR CBS

Cyber Security Services LLP from 1st January 2022. You will be reporting directly to the under signee at Jaipur. We believe your skills and experience are an excellent match for our company.

In this role, you will be required to do Web and Mobile Application Assessment with Network, End points Security and Source Code Analysis.

Your employment with DR CBS Cyber Security Services LLP will be on an at-will basis, which means you and the company are free to terminate the employment relationship at any time for any reason. This letter is not a contract or guarantee of employment for a definitive period of time.



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— R A J A S T H A N —

Amity Institute of Information Technology (AIIT)

We are excited to have you join our team! If you have any questions, please feel free to reach out at any time.

Sachin Kumar Sharma

Chief Cyber Security Analyst

Dr CBS Cyber Security Services LLP

(CERT- In Empanelled Information Security Auditing Organization)

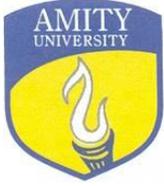
E: contact@drchbscyber.com

T: +91 141- 2229475, M: 9887533721

Address: 113, Civil Lines, Suraj Nagar East, Jaipur-302006, Rajasthan, India

www.drchbscyber.com

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From: **Sachin Sharma** <sachin@drcbscyber.com>
Date: Wed, 29 Jun, 2022, 12:47 pm
Subject: JOINING AS ASST. CYBER SECURITY ANALYST
To: <niladri@drcbscyber.com>

Dear Niladri Dalal,

After Successful completion of the Internship in the field of cyber security, We are pleased to offer you the full-time Assistant Cyber Security Analyst position at DR CBS Cyber Security Services LLP from 1st January 2022. You will be reporting directly to the under signee at Jaipur. We believe your skills and experience are an excellent match for our company.

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We are excited to have you join our team! If you have any questions, please feel free to reach out at any time.

Sachin Kumar Sharma
Chief Cyber Security Analyst
Dr CBS Cyber Security Services LLP
(CERT- In Empanelled Information Security Auditing Organization)
E: contact@drcbscyber.com
T: +91 141- 2229475, M: 9887533721
Address: 113, Civil Lines, Suraj Nagar East, Jaipur-302006, Rajasthan, India
www.drcbscyber.com

Disclaimer-This e-mail and any files transmitted with it are the property of Dr CBS Cyber Security Services LLP, Jaipur. It may be legally privileged and/or confidential and is intended only for the use of the addressee(s). This email and the information it contains are confidential and may be privileged. Dr CBS Cyber Security Services LLP does not accept legal responsibility for the contents of this message as it has been transmitted over a public network. you are hereby notified that any unauthorized disclosure, dissemination, distribution, copying or the taking of any action in reliance on the information herein is strictly prohibited. If you have received this communication in error, please immediately notify Dr CBS Cyber Security Services LLP and delete this message.



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Karl Kaiser, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-436676,
Fax: 01426-436679

No. : AUR/REG/6134

Date : 24/02/2022

Industry Advisory Council [IAC] Amity Institute of Information Technology (AIIT)

The Industry Advisory Council [IAC] is a working group of the concerned department/institute of Amity University Rajasthan, Jaipur. The aim of IAC is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

The Industry Advisory Council [IAC] of Amity Institute of Information Technology (AIIT) is hereby re-constituted as under :

Chair

1. **Dr. C.H. Sharma** IPS (Retd.), Rajasthan Police
Founder & CEO Dr. CBS Cyber Security Services LLP, Jaipur
Email ID - drsharma@rediffmail.com

Co-Chair

2. **Prof. Swapresh Taterh** Professor & Coordinator - AIIT

Internal Members

3. **Prof. Taran Kumar Sharma** Professor - AIIT
4. **Dr. Chitresh Bararjee** Associate Professor - AIIT
5. **Dr. Manja Kaushik** Associate Professor - AIIT
6. **Mr. Sameer Saxena** Assistant Professor - AIIT

Industry Experts

7. **Ms. Shruti Bijawat** Data Science Trainer, Seek/Act Solutions, Jaipur
Email ID - shruti@seekact.com
8. **Mr. Ajay Bararjee** State Head, Fullerton India Home Finance Co. Ltd., Jaipur
Email ID - ajay.bararjee@fullerton.com
9. **Mr. Anil Sharma** Director - Training & Business Development,
Profibus Software™ (PSI), Jaipur
Email ID - anilsharma@psi.com
10. **Mr. Manish Chordia** CEO & Vice President, Bascom Partners, Gurgaon
Email ID - manish.chordia@bascompartners.com
11. **Mr. Karishk Chavris** CEO, Synspace, Jaipur
Email ID - chavriskarishk@gmail.com
12. **Mr. Deep Chanda** Asstt. Vice President (Compliance & Audit), NII Consulting, Bangalore
Email ID - deep.chanda@niiconsulting.com

Page 2.1 of 2



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— RAJASTHAN —

Kant Kuber, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-408878,
Fax: 01426-408879

Alumni

13. Ms. Pratyusha Chakraborty	MCA [Batch 2017-2020] AWS Data Engineering, and Scientist, Thomson Digital India Ltd. [Email] - pratyushachakraborty@gmail.com
14. Ms. Rohini Malhotra	M.Sc. (Cyber Security) [Batch 2019-2021] Associate Consultant, EY India. [Email] - rohini.malhotra@ey.com

Corporate Resource Center (CRC) - Representative

15. Mr. Vinod Tejwari	Director - CRC
-----------------------	----------------

Member Secretary

16. Dr. Gresh Palwal	Assistant Professor - AIIT
----------------------	----------------------------


Dr. Nitin Bhardwaj
Registrar



Page # 2 of 3

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Amity Institute of Information Technology (AIIT)



AMITY UNIVERSITY

— R A J A S T H A N —

Amity Institute of Information Technology (AIIT)

1. Name of the Institute: Amity Institute of Information Technology
2. Event Category: Industrial Visit
3. Name of the Event: Industrial Visit to Dr CBD Cyber Security Services LLP, Jaipur.
4. Venue of the Event: Dr CBD Cyber Security Services LLP, 113, Civil Lines, Suraj Nagar, Civil Lines, Jaipur, Rajasthan, Jaipur, Rajasthan 302006
5. Attended by No. of Students/No. of Faculty/No. of Guests/Parents/Students of other colleges Students : 27 Faculty: 02
6. Details of the Events: Practical exposure of students to understand how VAPT and security audit done by the expert without compromising the availability of the resources. A security audit is a systematic evaluation of the security of a company's information system by measuring how well it conforms to an established set of criteria. A thorough audit typically assesses the security of the system's physical configuration and environment, software, information handling processes and user practices. These audits are one of three main types of security diagnostics, along with vulnerability assessments and penetration testing. Security audits measure an information system's performance against a list of criteria. Security audits will help protect critical data, identify security loopholes, create new security policies and track the effectiveness of security strategies. Regular audits can help ensure employees stick to security practices and can catch new vulnerabilities. Students can make their career in this field, the best people to guide them are experts in those domains because they can share their years of experience and help students decide and address their doubts, if any. It helped in basic level of understanding of security audit.
7. Date & Time of start and end of the event: 20 th May 2020, 10:00 AM to 4:00PM.
8. Name of the Chief Guest(s) with designation, if any. NIL



AMITY UNIVERSITY

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Amity Institute of Information Technology (AIIT)

9. Name of the Resource Person(s)/ Speaker(s)/ Guest(s)/ Celebrity(s)

Dr. C.B. Sharma IPS (Retd.), CEO & Founder of Dr CBS Security Services, Jaipur

10. Name of the Coordinator/ Facilitator of the Programme

Mr. Amit Kumar Singh and Dr. Uddalak Mitra.

11. Further Scope of the event (i.e., Collaboration etc.) HOI planned to send few students for the industry internship program through the speakers.

12. Image: Image must be of better quality. Images are mandatory with Caption. It is requested to follow the format of the event details & pixels of photographs (984px X 452px).





AMITY UNIVERSITY

— R A J A S T H A N —

Amity Institute of Information Technology (AIIT)

Communication Shortlisted candidates for Cyber Security Intern at Dr. CBS Cyber Security LLP, Jaipur Rajasthan.

From: DR CBS CYBER SECURITY SERVICES <contact@drcbscyber.com>
Sent: Thursday, June 16, 2022 12:55 PM
To: Amit Kumar Singh <aksingh1@jpr.amity.edu>
Cc: swati@drcbscyber.com <swati@drcbscyber.com>; Satyendra Singh <satyendra@drcbscyber.com>
Subject: SHORTLISTED CANDIDATES FOR CYBER SECURITY INTERN

Dear Amit Sir,

Greetings of the day!

As per the online test conducted of your students on 8 June 2022, find attached herewith the list of shortlisted candidates (Green highlighted) for the next interview round.

Kindly inform all these students and cooperate us for the next round of online interview for paid Internship.

|

Thanks & Regards,

Dr CBS Cyber Security Services LLP

(CERT- In Empanelled Information Security Auditing Organization)

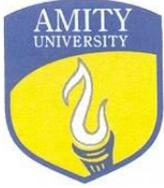
E: contact@drcbscyber.com

T: +91 141- 2229475

M: +91 9828877777, 9887533721

Address: 113, Civil Lines, Suraj Nagar East, Jaipur-302006, Rajasthan, India

www.drcbscyber.com



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Amity Institute of Information Technology (AIIT)

Meeting now

01:00:10

People Chat Reactions Rooms More Camera Mic Share Leave

Partic Unmute (Ctrl+Shift+M)

Type a name

Share invite

Waiting in lobby (1)

- GT GOPIKA TF

In this meeting (4)

- AS Amit Kumar Singh Organizer
- DS DR CBS CYBER SECURITY SERVL... External
- DV Dr Swati Vashisth (Guest) Meeting guest
- NP NIKITA PATI

Others invited (1)

- DS DNYANESH CHANDRAKANT SONA...

Activate Windows. Go to Settings to activate Windows.

Suggestions (5) as to activate Windows.

NIKITA PATI

AS

Type here to search

11:57 AM 6/30/2022



AMITY UNIVERSITY

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Amity Institute of Information Technology (AIIT)

Fwd: **STUDENTS SELECTED FOR THE INTERNSHIP**

Amit Kumar Singh <aksingh1@jpr.amity.edu>

Thu 6/30/2022 4:26 PM

To:

- Girish Paliwal <gpaliwal@jpr.amity.edu>

1 attachments (69 KB)

WC2021-CBS-001.pdf;

Dear Sir,

Find the attached data related to internship.

Thanks & Regards

Amit Kumar Singh

----- Forwarded message -----

From: DR CBS CYBER SECURITY SERVICES <contact@drcbscyber.com>

Date: 30 Jun 2022 4:24 pm

Subject: **STUDENTS SELECTED FOR THE INTERNSHIP**

To: Amit Kumar Singh <aksingh1@jpr.amity.edu>

Cc: "Dr. Swapnesh Taterh" <staterh@jpr.amity.edu>

Dear Tater Sir & Amit Sir,

Greetings of the day!

As per the interview conducted today of the shortlisted candidates in the online examination dated 08 June 2022, the following students from your university are finalized. The honorarium is Rs. 5000/- for the 45 days of internship for each student.

1. Tanishq Hatwar

2. Chaithanya K S

3. Jeff Chandy



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4. Nikita Pati
5. Anshika Katiyar
6. Rohan Sharma
7. Likshit Matwani
8. Dnyanesh Sonawane
9. Gopika TF

The internship will start on **Monday, 04 July 2022**. Kindly inform all these students and inform us as soon as possible.

Thanks & Regards

Dr CBS Cyber Security Services LLP

(CERT- In Empanelled Information Security Auditing Organization)

E: contact@drcbscyber.com

T: +91 141- 2229475

M: +91 9828877777, 9887533721

Address: 113, Civil Lines, Suraj Nagar East, Jaipur-302006, Rajasthan, India

www.drcbscyber.com

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Website Uploading Format

1. Name of the Institute :	Amity Institute of Information Technology - AIIT
2. Event Category : Workshop, Seminar, Guest Lecture, Cultural Event etc..	Industry Visit
3. Name of the Event :	Industry Visit to Dr CBD Cyber Security Services LLP
4. Venue of the Event:	Dr CBD Cyber Security Services LLP, 113, Civil Lines, Suraj Nagar, Civil Lines, Jaipur, Rajasthan, Jaipur, Rajasthan 302006
5. Attended by No. of Students/No. of Faculty/No. of Guests/Parents/Students of other colleges	Students- 27 (~) Faculty - 02 (~)
6. Details of the Events:	<p>Practical exposure of students to understand how VAPT and security audit done by the expert without compromising the availability of the resources. A security audit is a systematic evaluation of the security of a company's information system by measuring how well it conforms to an established set of criteria. A thorough audit typically assesses the security of the system's physical configuration and environment, software, information handling processes and user practices. These audits are one of three main types of security diagnostics, along with vulnerability assessments and penetration testing. Security audits measure an information system's performance against a list of criteria. Security audits will help protect critical data, identify security loopholes, create new security policies and track the effectiveness of security strategies. Regular audits can help ensure employees stick to security practices and can catch new vulnerabilities. Students can make their career in this field, the best people to</p>

	guide them are experts in those domains because they can share their years of experience and help students decide and address their doubts, if any. It helped in basic level of understanding of security audit.
7. Date & Time of start and end of the event :	20 th May 2022, 10:00 AM to 04:00 PM
8. Name of the Chief Guest(s) with designation, if any.	N/A
9. Name of the Resource Person(s)/ Speaker(s)/ Guest(s)/ Celebrity(s)	Dr. C.B. Sharma IPS (Retd.) CEO & Founder Dr CBS Security Services, Jaipur
10. Name of the Coordinator/ Facilitator of the Program	Mr. Amit Kumar Singh, Asst. Professor, AIT, Dr. Uddalak Mitra
11. Further Scope of the event (i.e. Collaboration etc.):	HOI, AIT, AUR planned to send few students for the industry internship program through the speakers.
12. Image: Image must be of better quality. Images are mandatory with Caption. It is requested to follow the format of the event details & pixels of photographs (984px X 452px).	Attached herewith
13. It is also requested to identify at least two best Images with appropriate caption for Website Home Page required for approval by Hon'ble Chancellor Sir before uploading.	N/A







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Karl Kaber, NH-15-C,
Jaipur (Rajasthan) 303002
Tel: 01425-435576,
Fax: 01425-435579

No. : AUR/REG/6134

Date : 24/02/2022

Industry Advisory Council [IAC] Amity Institute of Information Technology (AIIT)

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IPS (Retd.), Rajasthan Police
Founder & CBO Dr. CBS Cyber Security Services LLP, Jaipur
Email ID - drchsharmaq@gmail.com

Co-Chair

2. Prof. Swapresh Taneja
Professor & Coordinator - AIIT

Internal Members

3. Prof. Taran Kumar Sharma
Professor - AIIT
4. Dr. Chitresh Bararjee
Associate Professor - AIIT
5. Dr. Manja Kaushik
Associate Professor - AIIT
6. Mr. Sameer Saxena
Assistant Professor - AIIT

Industry Experts

7. Ms. Shruti Bijawat
Data Science Trainer, Seek/Act Solutions, Jaipur
Email ID - shruti@seekact.com
8. Mr. Ajay Bararjee
State Head, Fullerton India Home Finance Co. Ltd., Jaipur
Email ID - ajay.bararjee@fullerton.com
9. Mr. Anil Sharma
Director - Training & Business Development,
Profibus Software™ (PSI), Jaipur
Email ID - anilsharma@psi.com
10. Mr. Manish Chordia
CEO & Vice President, Bascom Partners, Gurgaon
Email ID - manish.chordia@bascompartners.com
11. Mr. Karishk Chavaria
CEO, Synsquare, Jaipur
Email ID - chavariakarishk@gmail.com
12. Mr. Deep Chanda
Asstt. Vice President (Compliance & Audit), NII Consulting, Bangalore
Email ID - deep.chanda@niiconsulting.com

Page 2.1 of 2



AMITY UNIVERSITY

— RAJASTHAN —

Amity Institute of Information Technology (AIIT)

 **AMITY UNIVERSITY**
— RAJASTHAN —

Kant Kuber, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-408878,
Fax: 01426-408819

Alumni

13. Ms. Pratyusha Chakraborty	MCA [Batch 2017-2020] AWS Data Engineering, and Scientist, Thomson Digital India Ltd. [Email] - pratyushachakraborty@gmail.com
14. Ms. Rohini Malhotra	M.Sc. (Cyber Security) [Batch 2019-2021] Associate Consultant, EY India. [Email] - rohini.malhotra@ey.com

Corporate Resource Center (CRC) - Representative

15. Mr. Vinod Tejwari	Director - CRC
-----------------------	----------------

Member Secretary

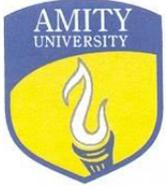
16. Dr. Girish Palwal	Assistant Professor - AIIT
-----------------------	----------------------------


Dr. Nitin Bhardwaj
Registrar



Page # 2 of 3

Amity City Office: Amity House, C-119, Lal Kothi Scheme, Behind Vidhan Sabha, Jaipur - 302 015, Telefax- 0141-2372488, 2374111



AMITY UNIVERSITY

— RAJASTHAN —

Amity Institute of Information Technology (AIIT)

Placement offer Letter given by Mr. Deep Chanda Asst VP, NII Bangalore to 09 students of MSc-Cyber Security and he is also a Member of Industry Advisory Council . The list is as follows:

Sr. No.	Student Name
1	Vidit Kesarwani
2	Mayank Raikwar
3	Riddhi Dave
4	Nikita Pati
5	Muskan Jindal
6	Mitalee Wahane
7	Shaik Nayeem Sharafat
8	CHAITHANYA K S
9	Eshwari Sunil Jagtap



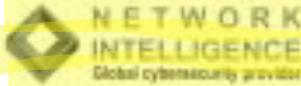
Placement offer to Ms. Chaithanya K S, MSc(CS) Students by NII Bangalore



AMITY UNIVERSITY

RAJASTHAN

Amity Institute of Information Technology (AIIT)



7th April 2022

Vidit Kesarwani
I-2/10 W. Block Usmanpur Jaha Colony,
Kanpur Nagar, Uttar Pradesh – 208014.

OFFER LETTER

Dear Vidit,

On behalf of Network Intelligence Pvt. Ltd., we are pleased to offer you the position of "Cybersecurity Analyst" in the Compliance and Audit, based at Bangalore. We extend this offer and the opportunity it represents with great confidence in your abilities. We are excited about your joining with us starting on 15th June 2022. Your roles and responsibilities are outlined in "Annexure - C".

While in the service of the company, you shall devote the whole of your time to the business of the company to the best of your ability and you shall not either directly or indirectly be connected with, concerned in, or employed in any other business whatsoever. Six days working if required as per client contract.

Your Annual Gross Compensation salary will be subject to statutory and other deductions as per company policies and practices. The details of your compensation break-up are provided in the attached "Annexure - A".

In addition, you will also be eligible to participate in a Variable Compensation Program. Payout of the variable incentive component will be based on your performance rating which is assessed after completion of each year of service at the Company. You will also be entitled to additional benefits as are generally accorded to the employees of Network Intelligence subject to Company policy. You will also be governed by any rules, regulations, policies and practices that may change from time to time. Your compensation details are confidential, and you may discuss it only with the HR Department or the undersigned in case of any clarification. It is our hope that your acceptance of our offer will be just the beginning of a mutually beneficial relationship with our Company. At the time of joining, it is mandatory for you to submit the documents mentioned as per "Annexure - B".

As a token of your acceptance of our offer and the terms of this letter, please sign in the space provided below indicating your acceptance of our offer and mail the duplicate copy of the duly signed offer letter to us at the mentioned address within seven days of receipt of this letter, after which this offer shall lapse automatically.

By accepting this offer, you hereby acknowledge and agree that the provisions herein are contingent on the successful completion of the background verification proceedings which may include the use of an external agency to check your prior employment, education, and criminal records. These proceedings will not be conducted without your formal and written consent (an authorization form will be sent to your attention should it be required). If any of the statements you provided during the course of your interview, in the details of your resume, or any other documents you provided are found to be inaccurate or false, it may result in nullification of this offer and corresponding termination of your employment with the firm. If you decide to leave the company within a period of less than two years, the Company reserves the right not to issue a relieving/experience letter and not to clear the background verifications.

The terms and compensation data of this offer are strictly confidential between you and the Company, and any breach of confidentiality may result in withdrawal of this offer or termination of your employment at a later stage.

The detailed break-up of the terms and conditions of your employment will be issued to you on your date of joining. We look forward to you joining our team. If you wish to discuss any detail of this offer, please feel free to contact us.

Sincerely,

For Network Intelligence Pvt. Ltd.

K. K. Mookhey
Founder & CEO

www.networking.com

Network Intelligence India Pvt Ltd.
304 Ecospace IT Park, Off Old Nagarkot Road, Noida (N), Haridwar-201301, India

T +91 22 49711575, +91 2200912678, +91 2200919300

022786 - 21AARCN1000120

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AMITY UNIVERSITY

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Amity Institute of Information Technology (AIIT)



"Annexure - A"

Financial Year	2021-2022		2022-2023		2023-2024	
	Per month	Per Annum	Per month	Per Annum	Per month	Per Annum
Gross salary - (A)						
Basic	11349	136188	15884	190608	24924	299148
HRA	5675	68100	7942	95304	12477	149724
Conveyance	1600	19200	1600	19200	1600	19200
Medical Allowance	1250	15000	1250	15000	1250	15000
Leave Travel Allowance	2500	30000	2500	30000	2500	30000
Other Allowance	5999	71988	10534	126414	14004	168048
Total - (A)	28373	340479	39710	476226	62385	748618
Statutory Payments - (B)						
PF Contribution from Nil to PF (Employer's contribution)	1800	21600	1800	21600	1800	21600
ESIC (Employer's contribution)	0	0	0	0	0	0
Gratuity (accrual only)		6548		9164		14397
Total - (B)		28148		30764		35997
Performance Bonus - (C)						
Total - (C)		28373		39710		62385
Other Benefits - (D)						
Medical Insurance		2000		2000		2000
Accident Insurance		1000		1000		1000
Total - (D)		3000		3000		3000
CPC (A) + (B) + (C) + (D)		400000		550000		850000
Loyalty Bonus - (E)						
On completion of year of service		100000		150000		200000

Notes:

- *Your compensation will be subject to any deduction including without limitation the usual deductions of applicable taxes and statutory deductions provided by applicable laws from time to time.
- **Performance Bonus would be based on the company performance and on your performance and as per the grading given by your reporting manager.
- ***You will be eligible for appraisal once in a year i.e., either in April or in October cycle.
- ****Medical Insurance coverage of Rs.3 lakhs for self.
- *****Gratuity is eligible only if the employee completes 5 years within the organization.
- *****If you have completed 3 or more years in the Company, you will also be eligible for Employee Stock Options.
- *****INR 1,00,000/- Loyalty bonus would be paid along with salary after completion of 1 year.
- INR 1,50,000/- Loyalty bonus would be paid along with salary after completion of 2 year.
- INR 2,00,000/- Loyalty bonus would be paid along with salary after completion of 3 year.
- *****The salary structure mentioned above are base hikes; salary and performance appraisals will happen after you have completed 1 year of full-time employment at Network Intelligence and appraisals would be provided above the mentioned break-up.

Sincerely,
For Network Intelligence Pvt. Ltd.

K. K. Mookhey
Founder & CEO

www.nicconsulting.com

Network Intelligence India Pvt. Ltd.
304 Economic IT Park, Old Nagdevda Road, Andheri (E), Mumbai 400068, India
T: +91 22 49711579, +91 2260962628, +91 2260309350
@NIN - 21AAS8098102P-123

Corporate ID No. U72300MR2007PTC132883 | info@nicconsulting.com



AMITY UNIVERSITY

— RAJASTHAN —

Amity Institute of Information Technology (AIIT)



Acceptance

I hereby accept the position and terms and conditions of employment offered. The following documents have been attached for your records or shall be provided to the company on _____ and I will join the company on _____.

"Annexure - B"

Documents required on joining.

1. Passport Copy 2. Copy of Educational Certificates. 3. PAN Card 4. Aadhaar Card 5. Three color passport photographs. 6. Copy of salary slips of past 3 months. 7. Relieving letter from previous company

"Annexure - C"

Your main job responsibilities as "Cybersecurity Analyst" will be as below:

- To deliver PCI DSS, PA DSS consulting services to new and existing clients.
- Performing onsite PCI DSS implementation for various industry verticals
- Assisting PCI QSAs in PCI DSS validation and deliverable preparation
- To deliver governance, risk and compliance consulting services to new and existing clients
- Team collaboration and where necessary mentoring to other consultants
- Writing reports to a high standard, and provide technical QA for the work of other

NOTE - "You shall be expected to carry out tasks, from time to time, commensurate with your skills and experience as directed by the management or their deputed executives."

Accepted

Date

www.nicconsulting.com

Network Intelligence India Pvt Ltd.
304 Ecospace IT Park, Off Old Nagarkot Road, Acharya (E), Marwar-302006, India
T: +91 22 49711575, +91 2200926275, +91 2200949300
@2018 - 21AAAC291100F12B

Certificate ID No. UT2802M02021FFC122583 | info@nicconsulting.com



AMITY UNIVERSITY

RAJASTHAN

Best Practice 1 - Success Stories

Amity School of Architecture and Planning

Collaborations and Implementation

ACHIEVEMENTS

Govind Gopal Nair
ARCASIA Awards the thesis of Amity Jaipur student amongst the best 3 in the Country
Peeyush Jain, Govind Gopal Nair & Bhupesh N. Choudhary
Ethos India's Awards the North Zone 1st Winner for Transparence 14.0 was 'RAILPORT'

Student Participation & Activities

design competitions in 2020-21: 6
- International: 1 (1 shortlisted from India amongst best 3)
- National : 2 (1 first prizes, 1 stood first at a Zonal level)
- State level: 3

intra-institute sports in 2020-21 : 1
(1 student won 2 gold medals)

2022

2021

SPATE

(International Conference) 2nd Edition: 31st Jan - 1st Feb 2019

MoU with ISRO
Indian Institute of Remote Sensing
,AICTE (All India Council of Technical Education)
,CCPS

MoU with Dronah Foundation

2019

MoU with IGBC
Indian Green Building Council

2018

MoU with IIID
Institute of Indian Interior Designers

COA
Affiliation

2017

MoU with IIA
The Indian Institute of Architects

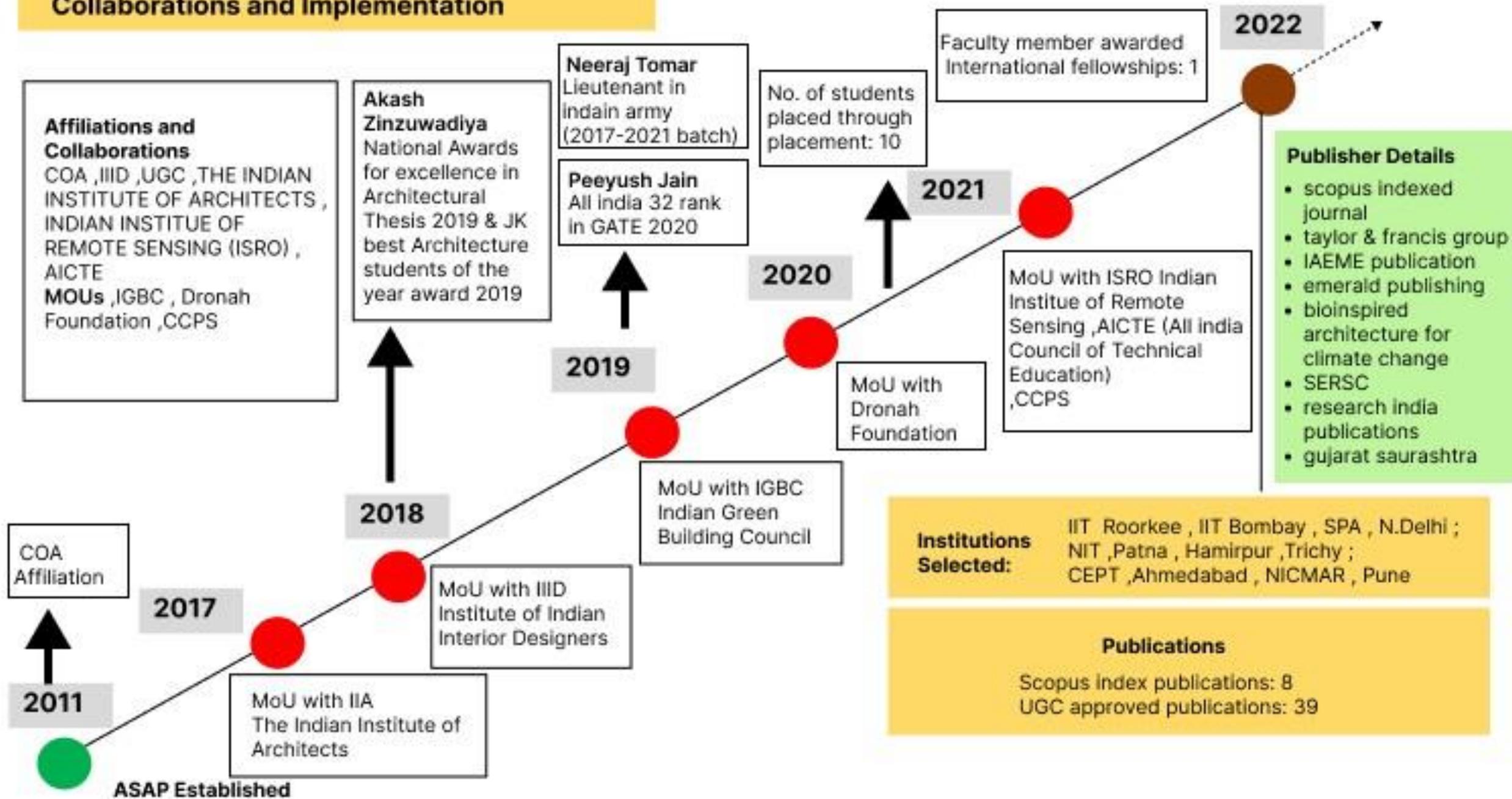
2011

ASAP Established

WORKSHOPS/ CONFERENCES

International Conference
- Organized - 1
- Attended - 7
National Conference
- Attended - 4
- Organized - 1
Faculty Development Programs
- FDP Attended - 14
Workshop/ Guest Lectures/ Seminars/ Webinars
- Organized - 49
Attended - 27

Collaborations and Implementation



ASAP AUR CRITERION VII BEST PRACTICES

Formation of Industry Advisory Council (IAC)

First Industry Advisory Council (IAC)

1. Chairperson

Ar Balbir Verma-Former President IIA and Practicing Architect, New Delhi-
(9810017333)

2. Members from Industry

1. Ar Biswajit Sen Gupta, Advisor, Ashiana Group, Bhiwadi (9887488263)
2. Ar Alok Mehta, Vice President, Vatika Group, Gurgaon (9871196545)
3. Ar Mukul Goel-Practicing Architect Jaipur-(9829064045)
4. Ar Rajinder Puri-President IID, Jaipur-(9799900400)

3. ASAP Faculty

1. Ar Abhishek Sharma- Professor
2. Ar Prashant Vijayvargi, Associate Prof
3. Ar Nishant Saxena, Associate Prof

4. Alumini

1. Ar Sambhav Mehta (9166340052)
2. Ar Shreya Agrawal (8875346663)

5. Ex-officio Members

- Director, ASAP (Secretary to the Board).
- The Dean, Academics
- The Dean, Research
- Director, CRC



ASAP 1st Industry Advisory Council held on 11th May , 2019

Key Decisions/Concluding Remarks of 1st IAC

- Curriculum must be industry oriented to prepare industry ready graduates.
- Increase in inviting manufacturers and material suppliers to School for product presentations – Experts assured to extend their support.
- CRC to play key role in Internship placement and need to be planned in advance.
- Emphasize on Experiential Learning
- Joint “Model Project Development” by ASAP, ASSET & ABS (all stake holders of a project) to experience their relative roles
- External Mentors may be appointed in Project Thesis conducted in Final Year of B. Arch and B.ID
- More visits to construction sites to showcase the different stages of construction.
- Experts agreed to provide some real time smaller projects to school for getting design proposals from students.
- New/latest Software to be introduced for student’s training as per the trend in industry.

Best practice:

1. Suggestion and recommendation of 1st IAC has been presented in 11th B.O.S.' Meeting: ASAP Program Date 29th May 2020 and well incorporated in new syllabus.
2. Student were taken case study.



Dressing Room



Detail of Wardrobe shutters



Detail of Kitchen Counter



Detail & Design of King Size bed

Case Study, Bungalow at Jaipur

3. Student were taken for study tour.



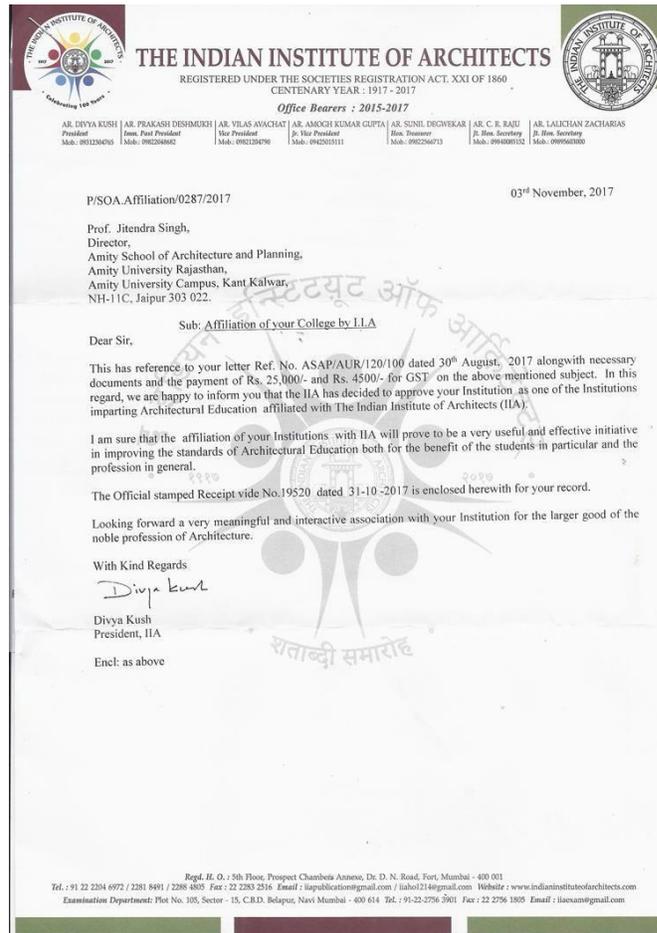
10 days study tour to Bhopal, Panchmarhi and Indore from
8th Jan to 17th Jan' 2020

4. Student were taken workshop.



Workshop at VGU, ENCODE 12th January 2019

5. MOU with Indian Institute of Architects in November 2017



6. ASAP, AUR conducted Second International conference on ‘Sustainability in Planning, Architecture, Technology & Engineering’ on 31st January & 1st February, 2019 in collaboration with IIA having 160 participation.



SPATE 2019

7. IIA medal to best outgoing student presented to Vedant Nagar.

THE INDIAN INSTITUTE OF ARCHITECTS



IIA Medal for Best Outgoing Student 2021

Presented to

Vedant Nagar

of

*Amity School Of Architecture & Planning
JAIPUR, RAJASTHAN*

President - IIA

Chairperson - Chapter

Chairperson - IASA

Formation of second Industry Advisory Council (IAC)

Second Industry Advisory Council (IAC)



AMITY UNIVERSITY

RAJASTHAN

Kant Kalwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-405678,
Fax: 01426-405679

No. : AUR/REG/5325

Date : 18/03/2021

Industry Advisory Council [IAC] Amity School of Architecture & Planning (ASAP)

The 'Industry Advisory Council [IAC]' is a working group of the concerned department/institute of Amity University Rajasthan, Jaipur. The aim of IAC is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

The 'Industry Advisory Council [IAC]' of Amity School of Architecture & Planning (ASAP) is hereby constituted as under :

Chair

1. Mr. Ashutosh Agarwal Honorary positions in IIA and
Member of COA (representing AICTE), Jaipur
Email ID - ar.ashutoshagarwal@gmail.com

Co-Chair

2. Prof. Anurag Varma Director - ASAP

Internal Members

3. Mr. Vinod Tejawani Director - CRC
4. Mr. Prashant Vijayvargiya Associate Professor - ASAP
5. Dr. Pratheek Sudhakaran Associate Professor - ASAP

Industry Experts

6. Mr. Amit Khullar Founder and Managing Partner, ENAR Consultants, New Delhi
Email ID - amit@enar.co.in
7. Mr. Deepak Ghalowt Director, Xebec Design, New Delhi
Email ID - deepak@xebecdesign.com
8. Mr. Tushar Sogani Architect & Project Developer (Vice Chairman IIA), Jaipur
Email ID - tushar@tdpsarch.com
9. Mr. Ankur Mathur Founder & CEO, SANRACHNA BIM, Virtual Construction Technology,
Global Workshare Support, New Delhi
Email ID - ankur@sanrachna.com
10. Mr. Dhruv Gupta Partner, Vastuankh, Jaipur
Email ID - dhruv@svvitch.com

Page # 1 of 2

Amity City Office: Amity House, C-119, Lal Kothi Scheme, Behind Vidhan Sabha, Jaipur - 302 015, Telefax- 0141-2372489, 2374111

Key discussion points:

- Practice ready professionals through industry responsive modules
- Local and regional engagement
- Developing resources for participatory academia-profession engagement
- New educational program
- Developing Continuing Education Program for industry practitioners.
- Innovation, Entrepreneurship and Incubation possibilities
- National/ International Outreach, MoUs and Collaborations
- Internships and Placements of students

Best practice:

1. Suggestion and recommendation of 2nd IAC has been presented in 13th B.O.S.' Meeting: ASAP Program: Date 19th May 2021 and well incorporated in new syllabus.
2. MOU with Indian Institute of Interior designer (IIID): Date 12/04/2018



3. Seminar, guest lecture and workshop with IIID.



 **AMITY SCHOOL OF ARCHITECTURE & PLANNING**

 **AMITY UNIVERSITY JAIPUR**

ONLINE PRESENTATION & PANEL DISCUSSION ON
INTERIOR DESIGN: PROGRAM TO PRACTICE

23 JULY 2021 | 2:15 PM - 3:15 PM

SPEAKERS:



Ar. VYOM SINHA
Principal Architect,
New Designer WEB Pvt. Ltd., Chennai, TN



Ar. ANSHUMAN SHARMA
Principal Architect,
Design Inc., Jaipur

MODERATOR:



Ar. PRASHANT VIJAYVARGIYA
Associate Professor, Amity School of Architecture & Planning, Amity University Rajasthan

HOST:



Dr. ANURAG VARMA
Director Amity School of Architecture & Planning, Amity University Rajasthan

[REGISTER NOW](#)

4. Webinar with IAC board members

AMITY SCHOOL OF ARCHITECTURE AND PLANNING

AMITY UNIVERSITY JAIPUR

WORLD ARCHITECTURE DAY 2021 CELEBRATION

Special Lecture on
CLEAN ENVIRONMENT FOR A HEALTHY WORLD

06/10/2021 | 11:00 AM - 12:00 PM **REGISTER NOW**

SPEAKER
Ar. Tushar Sogani
Chairperson IIA, Rajasthan; Chairman, GEM ASSOCHAM, Rajasthan; Dy Chairman ACGSA

HOST
Ar. Prashant Vijayvargiya
Associate Professor, Amity School of Architecture and Planning, Amity University Rajasthan

MODERATOR
Dr. Anurag Varma
Director, Amity School of Architecture and Planning, Amity University Rajasthan

The Pedagogy & Research Forum (PRF)

AMITY SCHOOL OF ARCHITECTURE & PLANNING
JAIPUR

IN COLLABORATION WITH

The Indian Institute of Architects
Rajasthan Chapter

LECTURE SERIES 2020

TECHNOLOGY FRONTIERS 2.0

LEVERAGING TECHNOLOGY IN ARCHITECTURE FOR BETTER BUILT ENVIRONMENTS

Friday, 7th August, 2020 | 4:00 PM - 5:00 PM

OPENING REMARKS **TALK BY** **MODERATED BY**

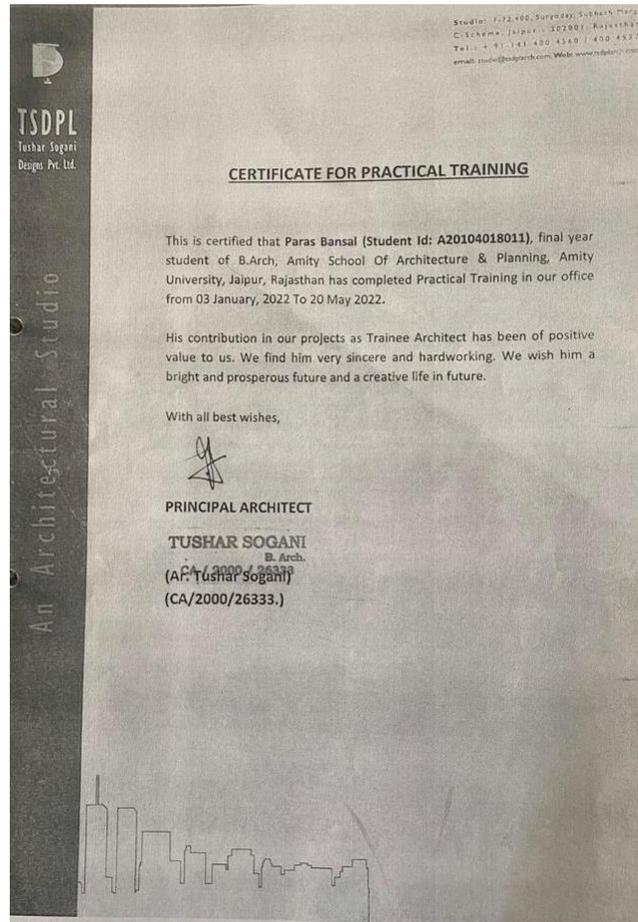
Ar. TUSHAR SOGANI
Founder & Managing Director
Tushar Sogani Designs Pvt.Ltd

Ar. ANKUR MATHUR
Founder & CEO
SANRACHNA: BIM & Virtual Building Consultants

Ar. NISHANT SAXENA
Associate Professor, Amity School of Architecture & Planning, Jaipur

REGISTER NOW!

5. Paras Bansal done his internship under our IAC member Tushar Sogani.



6. various workshops and webinars with Ar. Amit Khular

AMITY UNIVERSITY JAIPUR

WEBINAR ON

**PREFABRICATED CONSTRUCTION:
ITS APPLICATION & FUTURE AS TECHNOLOGY
FOR BUILDINGS CONSTRUCTION IN INDIA**

13th MAY, 2020 | 11:30 AM - 12:30 PM

SPEAKER:
Ar. Amit Khullar
Founder Member and Partner,
Enar Consultants, New Delhi

MODERATOR:
Dr. Anurag Varma
Director, Amity School of
Architecture & Planning

REGISTER NOW!

7. MOU with DRONAH Date 12/04/2018





AMITY UNIVERSITY

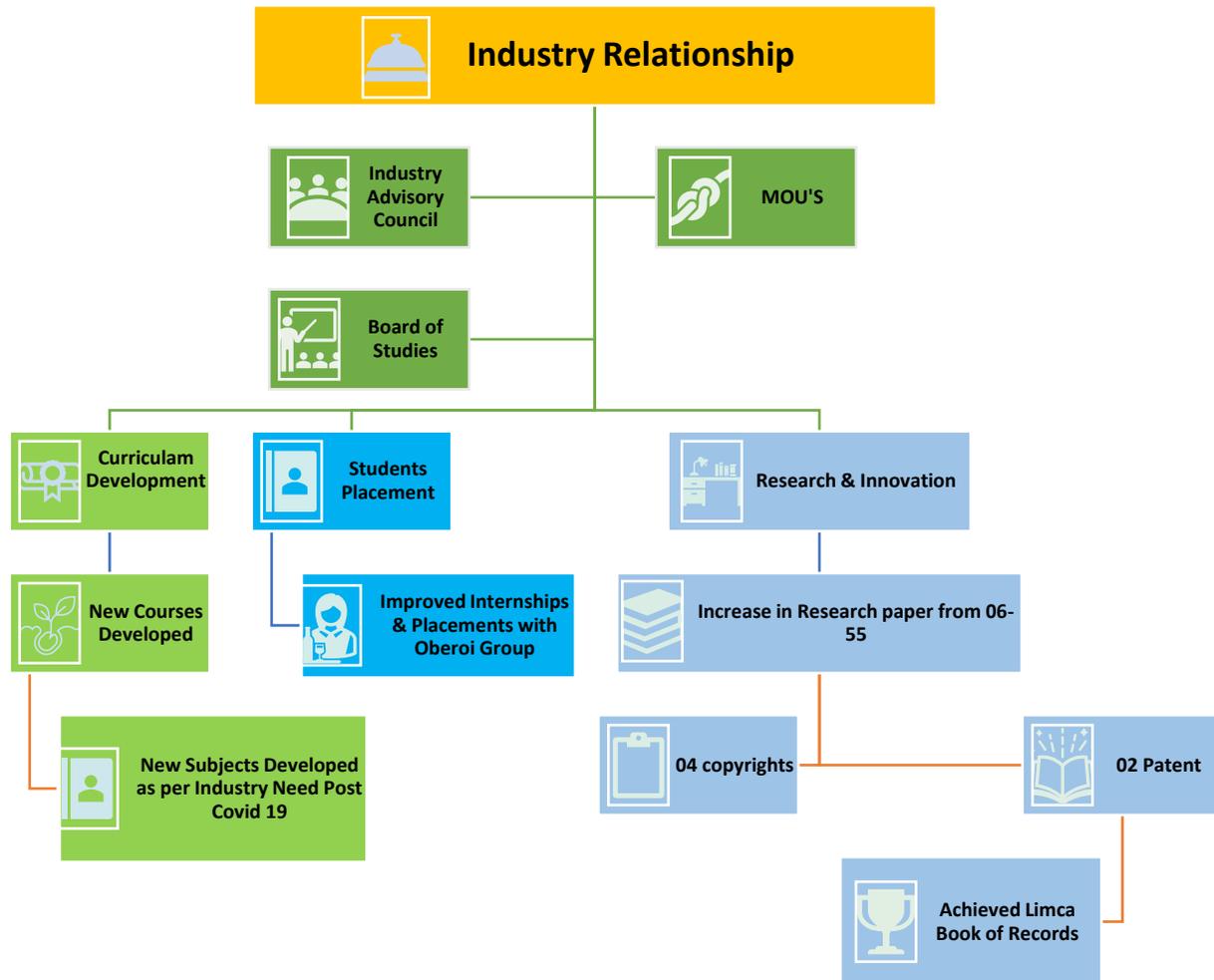
RAJASTHAN

Best Practice 1 - Success Stories

Amity School of Hospitality



Amity School of Hospitality (ASH) Success Story (Industry Relationship)



After the Inclusion of **General Manager Oberois & other Industry Members**, in our Board of Studies/Industry Advisory Council, we have been getting guidance on **Curriculum Development** as well as **Career Opportunities** with Oberois. We have done several Webinars along with one from Chef Bali – Corporate Chef of Oberoi Centre of Learning & Development which resulted in **increased placements/Internships** with Oberois. The industry-Academic Councils resulted in an understanding of the need for **research** in Indian Food & Tourism, which resulted in the **increased publication** of Faculty Members from **06 Publication to 55 publications, 4 copyrights & 1 patent**. The need for Research on **Indian Food** was always stressed upon by the industry, which resulted in creation of **LIMCA BOOK OF RECORDS for maximum numbers of BASUNDI (515 Varieties)**.



AMITY UNIVERSITY

RAJASTHAN

No. : AUR/REG/BOS/So 18

Dated : 15/12/2020

Board of Studies [BOS]
Amity School of Hospitality (ASH)
Bachelor of Hotel Management

For structuring, revision and updating of Academic Programmes, viz. framing of Curriculum, Syllabi and Scheme of Evaluation etc. the Board of Studies of Amity School of Hospitality (ASH) - Bachelor of Hotel Management is re-constituted as under :

1. Prof. Sanjeeb Pal Director - ASH : Convener

Internal Subject Expert

2. Dr. Sushil Kumar Assistant Professor - ASH : Secretary
3. Dr. Saurabh Sharma Associate Professor - ASH : Member

External Subject Experts

4. Mr. K. S. Narayan Principal : Member
IHMCT & AN, Jaipur

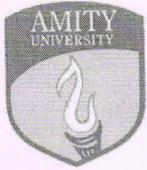
Industry Expert

5. Mr. Ankush Mahajan General Manager : Member
The Oberoi Rajvilas, Jaipur

NR



Dr. Nitin Bhardwaj
Registrar



AMITY UNIVERSITY

RAJASTHAN

Kant Kalwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-405678,
Fax: 01426-405679

No. : AUR/REG/5322

Date : 18/03/2021

Industry Advisory Council [IAC]
Amity School of Hospitality (ASH)

The 'Industry Advisory Council [IAC]' is a working group of the concerned department/institute of Amity University Rajasthan, Jaipur. The aim of Industry Advisory Council [IAC] is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

The 'Industry Advisory Council [IAC]' of Amity School of Hospitality (ASH) is hereby constituted as under :

Chair

1. Mr. Lovkesh Srivastava Corporate General Manager & CEO Projects & Planning
Ananta Hotels & Resorts, Jaipur
Email ID - srilovkesh@gmail.com

Co-Chair

2. Prof. Sanjeeb Pal Director - ASH

Internal Members

3. Dr. Saurabh Sharma Associate Professor - ASH
4. Dr. Jai Sonkar Assistant Professor - ASH
5. Mr. Arvind Kumawat Manager - CRC

Industry Experts

6. Mr. Surya Pal Negi Operation Manager, Radisson Hotels & Resorts, New Delhi
Email ID - suryapalnegi@yahoo.com
7. Mr. Vikram Singh Head Retail, Thomas Cook, Jaipur
Email ID - vikram.rathore@thomascook.in
8. Mr. Manikandan K L&D Head, Fairmount Hotel, Jaipur
Email ID - manikanta.koppu@fairmount.com

Alumni

9. Mr. Deepam Yadav Ex-student, M.A. (Travel & Tourism Mgmt.) [Batch 2014-2016]
Travel Executive, Cox & Kings, Jaipur
Email ID - yadavdeepam@gmail.com

Member Secretary

10. Dr. Sushil Kumar Assistant Professor - ASH


Dr. Nitin Bhardwaj
Registrar





AMITY UNIVERSITY
RAJASTHAN

Activities Conducted with Oberoi's Group

AMITY UNIVERSITY
JAIPUR

WEBINAR ON
F&B INDUSTRY IN THE ERA OF NEW NORMAL

19th August, 2020 | 3:00 PM - 4:00 PM

SPEAKERS

Mr. NILESH JAIN
F&B Manager, The Oberoi Cecil, Shimla

Dr. SUSHIL KUMAR
Asst. Professor, Amity School of Hospitality

MODERATOR

Dr. YASHWANT SINGH RAWAL
Asst. Professor, Amity School of Hospitality

REGISTER NOW!

Webinar

with F&B Manager – Oberoi Shimla & Corporate Chef, Oberoi Centre of Learning & Development.

WEBINAR ON
**INDIAN CUISINE AND COVID-19:
THE FUTURE TRENDS**

14th May 2020 | 11:30 AM - 12:30 PM

AMITY UNIVERSITY
JAIPUR

Speaker:
Chef Parvinder Singh Bali
Corporate Chef, Learning and Development,
Oberoi Hotels and Resorts

March 07, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Kirtan Patel**, a student of Amity University, Jaipur has completed his industrial training with Trident Udaipur from 3rd January, 2022 to 25th February, 2022.

Mr. Patel has trained in the below mentioned department.

- Housekeeping
- F&B Service

His attendance was 21/53 days.

We wish him a bright and successful future.

Thank you.



Shruti Kapoor
Deputy Manager- Human Resources
Trident Udaipur

Ref.

Date :

Date :- 05/04/2022

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. Kirtan Patel student of Amity University underwent internship training in the Front Office and F&B Production departments from 08/03/2022 to 04/04/2022 .

This training was provided in part fulfillment of educational course/curriculum requirements .

During his training we found him to be sincere & hardworking .

We wish him best for his future endeavors .

For Casaya Inn


05/04/22

Rakesh Kumar

(General Manager)



TRIDENT
Udaipur

1st November, 2021

To,
Mr. Atharva Hemant Ranade,
Amity University, Jaipur

Dear Kirtan,

We would like to confirm your industrial training for 3 months starting from 3rd January till 3rd April 2022 in all core departments at Trident Udaipur.

You must report at 0930 hours in your college uniform. Further to this you are advised to carry following mentioned documents at the time of joining:-

A. The personal information sheet contains :

1. Name and address
2. Name of the institute / college
3. Academic qualifications
4. Self-declaration regarding information provided being factually correct / 02 Passport size Photographs

B. No-objection certificate from the institute / college.

C. A copy of college identity card (for identification purpose).

D. A copy of personal identity card.

E. A copy of 10th & 12th mark sheet.

F. The trainee gives an undertaking in writing stating that he/she would follow all the guidelines for Trainees as defined by the Hotel.

G. Medical Fitness Certificate

H. Police Verification Certificate

I. 1st dose of covid-19 vaccine certificate

For Trident, Udaipur

Shruti Kapoor
Deputy Manager - Human Resources

6th December, 2021

Dear Khushal,

Congratulations! It is with great pleasure that we inform you of your selection as a Guest Service Associate in Food & Beverage Service department at The Oberoi Udaivilas, Udaipur.

You have successfully completed the selection process. This is a commendable achievement, as The Oberoi Group is known for its exacting selection standards.

You are requested to report on December 15, 2021 at 10:00 hrs. A detailed induction has been planned for you on your arrival, which will give you an understanding of the Oberoi Group and The Oberoi Udaivilas operating philosophy.

Please bring the following documents with you.

- Xth class mark sheet & certificate indicating your birth date.
- XIIth class mark sheet & certificate.
- Graduation / Diploma certificate.
- Character certificate from college / previous employer.
- Address proof - Pan Card & Adhar Card (Mandatory)
- Other relevant educational documents if any.
- Any one address proof (viz. passport, license, Pan Card Etc).
- Certificates for extra-curricular activities.
- Eight color passport size photographs, two stamp size photograph
- Police Verification

Please note that your appointment is subject to a medical examination and certification by the Company Doctor and reference check from your previous employer.

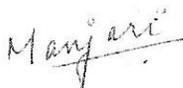
The gross compensation package has been discussed with you. This compensation package is enclosed. You will also be eligible to other applicable benefits. Your detailed appointment letter and other terms and conditions will be given to you when you join.

Should you have any questions prior to joining, please do not hesitate to contact me.

We look forward to welcoming you to The Oberoi Family.

Thank you,

Yours sincerely,



Manjari Sharma
Head-Human Resource

ANNEXURE: A

Salary Details

S.No.	Description	Amount
1	Basic	5800
2	Special Allowance	4700
3	HRA	4500
	Gross Salary - A	15000
1	Performance Award (On Target Rating)	1250
2	Mediclaim & Personal Accident Insurance	565
3	Gratuity	278
4	Company Contribution towards PF	1260
5	Company Contribution towards ESIC	488
6	Bonus	1400
	Other Benefits - B	5241
1	Employee Contribution towards PF	1260
2	Employee Contribution towards ESIC	113
3	Cafeteria Deduction	150
	Deductions - C	1523
	Net Salary A-C	13477
	Total Cost to the Company (CTC) A+B	20241

Note:-

- * **Performance** Award will be subjective to the meeting of desired performance targets.
- Provident Fund will be deducted @ 12% of the Basic and Special Allowance.
- There will be nominal charges deducted from the salary for the accommodation (in case you wish to avail the accommodation facility) and the cafeteria facility.

6th December, 2021

Dear Sanjay,

Congratulations! It is with great pleasure that we inform you of your selection as a Guest Service Associate in Food & Beverage Service department at The Oberoi Udaivilas, Udaipur.

You have successfully completed the selection process. This is a commendable achievement, as The Oberoi Group is known for its exacting selection standards.

You are requested to report on December 15, 2021 at 10:00 hrs. A detailed induction has been planned for you on your arrival, which will give you an understanding of the Oberoi Group and The Oberoi Udaivilas operating philosophy.

Please bring the following documents with you.

- Xth class mark sheet & certificate indicating your birth date.
- XIIth class mark sheet & certificate.
- Graduation / Diploma certificate.
- Character certificate from college / previous employer.
- Address proof - Pan Card & Adhar Card (Mandatory)
- Other relevant educational documents if any.
- Any one address proof (viz. passport, license, Pan Card Etc).
- Certificates for extra-curricular activities.
- Eight color passport size photographs, two stamp size photograph
- Police Verification

Please note that your appointment is subject to a medical examination and certification by the Company Doctor and reference check from your previous employer.

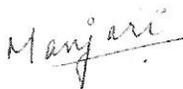
The gross compensation package has been discussed with you. This compensation package is enclosed. You will also be eligible to other applicable benefits. Your detailed appointment letter and other terms and conditions will be given to you when you join.

Should you have any questions prior to joining, please do not hesitate to contact me.

We look forward to welcoming you to The Oberoi Family.

Thank you,

Yours sincerely,



Manjari Sharma
Head-Human Resource

ANNEXURE: A

Salary Details

S.No.	Description	Amount
1	Basic	5800
2	Special Allowance	4700
3	HRA	4500
	Gross Salary - A	15000
1	Performance Award (On Target Rating)	1250
2	Mediclaime & Personal Accident Insurance	565
3	Gratuity	278
4	Company Contribution towards PF	1260
5	Company Contribution towards ESIC	488
6	Bonus	1400
	Other Benefits - B	5241
1	Employee Contribution towards PF	1260
2	Employee Contribution towards ESIC	113
3	Cafeteria Deduction	150
	Deductions - C	1523
	Net Salary A-C	13477
	Total Cost to the Company (CTC) A+B	20241

Note:-

- * **Performance** Award will be subjective to the meeting of desired performance targets.
- Provident Fund will be deducted @ 12% of the Basic and Special Allowance.
- There will be nominal charges deducted from the salary for the accommodation (in case you wish to avail the accommodation facility) and the cafeteria facility.

Name: **Mr. Karni Singh Solanki**

Dear Karni,

Congratulations!

It gives us great pleasure in selecting you as **F&B Service Assistant** in the F&B Service department for **The Oberoi Udaivilas, Udaipur** and we welcome you to The Oberoi family.

You have successfully completed the selection process. This is a commendable - achievement; as the Oberoi group is known for its exacting selection standards.

Your exact date of joining at The Oberoi Udaivilas, Udaipur will be conveyed to you later. A detail induction will be planned for you on your arrival, which will give an understanding of the Oberoi group and Udaivilas operating philosophy. Please bring the following documents with you:

1. 10 & 10+2 class certificate indicating your age
2. Graduation/IHM Diploma
3. Ten color passport size photographs
4. Pan Card.
5. Experience Certificate (s), if any.
6. Police Verification Certificate
7. Permanent Address Proof & ID Proof.

Please note that your appointment is subject to medical examination and certification by the Company Doctor.

Your compensation package and other benefits will be as agreed with you. Your appointment letter with details on the terms and conditions will be given to you when you join us.

May we suggest that you arrive at The Oberoi Udaivilas a few days prior to the date of joining. Accommodation will be arranged for you for ten days after your arrival. We will assist you in making your own accommodation arrangements thereafter.

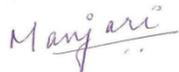
Should you have any questions, please do not hesitate to contact me.

We welcome you to The Oberoi Family and look forward to having you in our team at Udaivilas, Udaipur.

Thanking you.

Yours sincerely,

For The Oberoi Udaivilas



Manjari Sharma

Head- Human Resources

Compensation of <i>Mr. Karni Singh Solanki</i>		
RL 9		
S. No.	Description	
	Earnings	
1	Basic	5800
2	House Rent Allowance	4500
3	Conveyance Allowance	4700
	Gross Salary – A	15000
5	Company Contribution towards PF	696
6	Performance Award	1500
7	Company contribution to Mediclaim & Personal Accident policy	438.6
8	Gratuity	278
9	Bonus	1400
	Other Earnings - B	4312.6
	Total Cost to the Company (CTC) A +B	19312.6

Benefits:-

- 1. Uniform are provided by the company.***
- 2. The employee dining room deduction includes all duty meals.***

Notes:-

- The “Performance Award” is based on base ratings.***
- Gratuity will be payable as per Payment of Gratuity Act, 1972***
- All gross salary on or below Rs. 21000 are subjected to ESIC deduction.***
- Centralized Tips as per the company policy***

Name: **Mr. Ricky Gupta**

Dear Ricky,

Congratulations!

It gives us great pleasure in selecting you as **Commis** in the Kitchen department for **The Oberoi Udaivilas, Udaipur** and we welcome you to The Oberoi family.

You have successfully completed the selection process. This is a commendable - achievement; as the Oberoi group is known for its exacting selection standards.

Your exact date of joining at The Oberoi Udaivilas, Udaipur will be conveyed to you later. A detail induction will be planned for you on your arrival, which will give an understanding of the Oberoi group and Udaivilas operating philosophy. Please bring the following documents with you:

1. 10 & 10+2 class certificate indicating your age
2. Graduation/IHM Diploma
3. Ten color passport size photographs
4. Pan Card.
5. Experience Certificate (s), if any.
6. Police Verification Certificate
7. Permanent Address Proof & ID Proof.

Please note that your appointment is subject to medical examination and certification by the Company Doctor.

Your compensation package and other benefits will be as agreed with you. Your appointment letter with details on the terms and conditions will be given to you when you join us.

May we suggest that you arrive at The Oberoi Udaivilas a few days prior to the date of joining. Accommodation will be arranged for you for ten days after your arrival. We will assist you in making your own accommodation arrangements thereafter.

Should you have any questions, please do not hesitate to contact me.

We welcome you to The Oberoi Family and look forward to having you in our team at Udaivilas, Udaipur.

Thanking you.

Yours sincerely,

For The Oberoi Udaivilas



Manjari Sharma

Head- Human Resources

Compensation of Mr. Tapan Pathak		
RL 9		
S. No.	Description	
	Earnings	
1	Basic	5800
2	House Rent Allowance	4500
3	Conveyance Allowance	4700
	Gross Salary – A	15000
5	Company Contribution towards PF	696
6	Performance Award	1500
7	Company contribution to Mediclaim & Personal Accident policy	438.6
8	Gratuity	278
9	Bonus	1400
	Other Earnings - B	4312.6
	Total Cost to the Company (CTC) A +B	19312.6

Benefits:-

- 1. Uniform are provided by the company.***
- 2. The employee dining room deduction includes all duty meals.***

Notes:-

- The “Performance Award” is based on base ratings.***
- Gratuity will be payable as per Payment of Gratuity Act, 1972***
- All gross salary on or below Rs. 21000 are subjected to ESIC deduction.***
- Centralized Tips as per the company policy***

Name: **Mr. Tapan Pathak**

Dear Tapan,

Congratulations!

It gives us great pleasure in selecting you as **Housekeeping Assistant** in the Housekeeping department for **The Oberoi Udaivilas, Udaipur** and we welcome you to The Oberoi family.

You have successfully completed the selection process. This is a commendable - achievement; as the Oberoi group is known for its exacting selection standards.

Your exact date of joining at The Oberoi Udaivilas, Udaipur will be conveyed to you later. A detail induction will be planned for you on your arrival, which will give an understanding of the Oberoi group and Udaivilas operating philosophy. Please bring the following documents with you:

1. 10 & 10+2 class certificate indicating your age
2. Graduation/IHM Diploma
3. Ten color passport size photographs
4. Pan Card.
5. Experience Certificate (s), if any.
6. Police Verification Certificate
7. Permanent Address Proof & ID Proof.

Please note that your appointment is subject to medical examination and certification by the Company Doctor.

Your compensation package and other benefits will be as agreed with you. Your appointment letter with details on the terms and conditions will be given to you when you join us.

May we suggest that you arrive at The Oberoi Udaivilas a few days prior to the date of joining. Accommodation will be arranged for you for ten days after your arrival. We will assist you in making your own accommodation arrangements thereafter.

Should you have any questions, please do not hesitate to contact me.

We welcome you to The Oberoi Family and look forward to having you in our team at Udaivilas, Udaipur.

Thanking you.

Yours sincerely,

For **The Oberoi Udaivilas**



Manjari Sharma

Head- Human Resources

Compensation of Mr. Tapan Pathak		
RL 9		
S. No.	Description	
	Earnings	
1	Basic	5800
2	House Rent Allowance	4500
3	Conveyance Allowance	4700
	Gross Salary – A	15000
5	Company Contribution towards PF	696
6	Performance Award	1500
7	Company contribution to Medclaim & Personal Accident policy	438.6
8	Gratuity	278
9	Bonus	1400
	Other Earnings - B	4312.6
	Total Cost to the Company (CTC) A +B	19312.6

Benefits:-

- 1. Uniform are provided by the company.***
- 2. The employee dining room deduction includes all duty meals.***

Notes:-

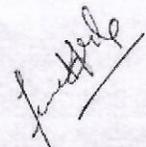
- The “Performance Award” is based on base ratings.***
- Gratuity will be payable as per Payment of Gratuity Act, 1972***
- All gross salary on or below Rs. 21000 are subjected to ESIC deduction.***
- Centralized Tips as per the company policy***



Dated : 31/03/2022

1. Registration Number : **L-113852/2022**
 2. Name, address and nationality of the applicant : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 3. Nature of the applicant's interest in the copyright of the work : OWNER
 4. Class and description of the work : LITERARY/ DRAMATIC WORK I AM A CHEF, I HAVE
CREATED MY OWN RECIPE PHOGLE KE GATTA CURRY.
THIS RECIPE IS MY ORIGINAL WORK, WHICH HAS NOT
BEEN PUBLISHED ANYWHERE.
 5. Title of the work : PHOGLE KE GATTA CURRY
 6. Language of the work : ENGLISH, HINDI
 7. Name, address and nationality of the author and if the author is
deceased, date of his decease : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 8. Whether the work is published or unpublished : UNPUBLISHED
 9. Year and country of first publication and name, address and
nationality of the publisher : N.A.
 10. Years and countries of subsequent publications, if any, and names,
addresses and nationalities of the publishers : N.A.
 11. Names, addresses and nationalities of the owners of various rights
comprising the copyright in the work and the extent of rights held
by each, together with particulars of assignments and licences, if
any : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 12. Names, addresses and nationalities of other persons, if any,
authorised to assign or licence of rights comprising the copyright : N.A.
 13. If the work is an 'Artistic work', the location of the original work,
including name, address and nationality of the person in possession
of the work. (In the case of an architectural work, the year of
completion of the work should also be shown). : N.A.
 14. If the work is an 'Artistic work' which is used or capable of being
used in relation to any goods or services, the application should
include a certification from the Registrar of Trade Marks in terms of
the provision to Sub-Section (i) of Section 45 of the Copyright Act,
1957. : N.A.
 15. If the work is an 'Artistic work', whether it is registered under the
Designs Act 2000 if yes give details. : N.A.
 16. If the work is an 'Artistic work', capable of being registered as a
design under the Designs Act 2000, whether it has been applied to an
article though an industrial process and, if yes, the number of times
it is reproduced. : N.A.
 17. Remarks, if any :
- Diary Number : 2424/2022-CO/L
Date of Application : 03/02/2022
Date of Receipt : 03/02/2022



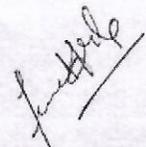

DEPUTY REGISTRAR OF COPYRIGHTS



Dated : 31/03/2022

1. Registration Number : **L-113852/2022**
 2. Name, address and nationality of the applicant : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 3. Nature of the applicant's interest in the copyright of the work : OWNER
 4. Class and description of the work : LITERARY/ DRAMATIC WORK I AM A CHEF, I HAVE
CREATED MY OWN RECIPE PHOGLE KE GATTA CURRY.
THIS RECIPE IS MY ORIGINAL WORK, WHICH HAS NOT
BEEN PUBLISHED ANYWHERE.
 5. Title of the work : PHOGLE KE GATTA CURRY
 6. Language of the work : ENGLISH, HINDI
 7. Name, address and nationality of the author and if the author is
deceased, date of his decease : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 8. Whether the work is published or unpublished : UNPUBLISHED
 9. Year and country of first publication and name, address and
nationality of the publisher : N.A.
 10. Years and countries of subsequent publications, if any, and names,
addresses and nationalities of the publishers : N.A.
 11. Names, addresses and nationalities of the owners of various rights
comprising the copyright in the work and the extent of rights held
by each, together with particulars of assignments and licences, if
any : DR. SAURABH SHARMA , AMITY UNIVERSITY
RAJASTHAN-302006
INDIAN
 12. Names, addresses and nationalities of other persons, if any,
authorised to assign or licence of rights comprising the copyright : N.A.
 13. If the work is an 'Artistic work', the location of the original work,
including name, address and nationality of the person in possession
of the work. (In the case of an architectural work, the year of
completion of the work should also be shown). : N.A.
 14. If the work is an 'Artistic work' which is used or capable of being
used in relation to any goods or services, the application should
include a certification from the Registrar of Trade Marks in terms of
the provision to Sub-Section (i) of Section 45 of the Copyright Act,
1957. : N.A.
 15. If the work is an 'Artistic work', whether it is registered under the
Designs Act 2000 if yes give details. : N.A.
 16. If the work is an 'Artistic work', capable of being registered as a
design under the Designs Act 2000, whether it has been applied to an
article though an industrial process and, if yes, the number of times
it is reproduced. : N.A.
 17. Remarks, if any :
- Diary Number : 2424/2022-CO/L
Date of Application : 03/02/2022
Date of Receipt : 03/02/2022



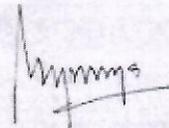

DEPUTY REGISTRAR OF COPYRIGHTS



Dated : 25/01/2022

1. Registration Number : **L-111112/2022**
2. Name, address and nationality of the applicant : SAURABH SHARMA , F1/124 SANSKAR VIHAR,
MEENAWALA SIRSI ROAD-302034
INDIAN
3. Nature of the applicant's interest in the copyright of the work : OWNER
4. Class and description of the work : LITERARY/ DRAMATIC WORK
5. Title of the work : NOOR KI NAZAKAT
6. Language of the work : ENGLISH
7. Name, address and nationality of the author and if the author is deceased, date of his decease : SAURABH SHARMA , F1/124 SANSKAR VIHAR,
MEENAWALA SIRSI ROAD-302034
INDIAN
8. Whether the work is published or unpublished : UNPUBLISHED
9. Year and country of first publication and name, address and nationality of the publisher : N.A.
10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers : N.A.
11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any : SAURABH SHARMA , F1/124 SANSKAR VIHAR,
MEENAWALA SIRSI ROAD-302034
INDIAN
12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright : N.A.
13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown). : N.A.
14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957. : N.A.
15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000, whether it has been applied to an article though an industrial process and, if yes, the number of times it is reproduced. : N.A.
17. Remarks, if any :
Diary Number : 26098/2021-CO/L
Date of Application : 27/10/2021
Date of Receipt : 27/10/2021





DEPUTY REGISTRAR OF COPYRIGHTS

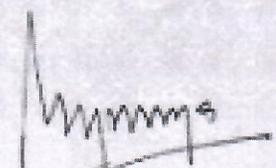


Dated : 05/05/2022

1. Registration Number : **L-115263/2022**
2. Name, address and nationality of the applicant : DR. SAURABH SHARMA , F-1/124 SANSKAR APARTMENT,
SANSKAR VIHAR, MEENAWALA, SIRSI ROAD, JAIPUR-
302012
INDIAN
3. Nature of the applicant's interest in the copyright of the work : AUTHOR
4. Class and description of the work : LITERARY/ DRAMATIC WORK I AM A CHEF, I HAVE
CREATED THIS RECIPE BY MY OWN. MORINGA FLOWER
& PEARL MILLET SOUP IS MY ORIGINAL WORK & IT HAS
NOT BEEN PUBLISHED ANY WHERE YET.
5. Title of the work : **MORINGA FLOWER & PEARL MILLET SOUP**
6. Language of the work : ENGLISH, HINDI
7. Name, address and nationality of the author and if the author is
deceased, date of his decease : DR. SAURABH SHARMA , F-1/124 SANSKAR APARTMENT,
SANSKAR VIHAR, MEENAWALA, SIRSI ROAD, JAIPUR-
302012
INDIAN
8. Whether the work is published or unpublished : UNPUBLISHED
9. Year and country of first publication and name, address and
nationality of the publisher : N.A.
10. Years and countries of subsequent publications, if any, and names,
addresses and nationalities of the publishers : N.A.
11. Names, addresses and nationalities of the owners of various rights
comprising the copyright in the work and the extent of rights held
by each, together with particulars of assignments and licences, if
any : DR. SAURABH SHARMA . F-1/124 SANSKAR APARTMENT,
SANSKAR VIHAR, MEENAWALA, SIRSI ROAD, JAIPUR-
302012
INDIAN
12. Names, addresses and nationalities of other persons, if any,
authorised to assign or licence of rights comprising the copyright : DR. SAURABH SHARMA . F-1/124 SANSKAR APARTMENT,
SANSKAR VIHAR, MEENAWALA, SIRSI ROAD, JAIPUR-
302012
INDIAN
13. If the work is an 'Artistic work', the location of the original work,
including name, address and nationality of the person in possession
of the work. (In the case of an architectural work, the year of
completion of the work should also be shown). : N.A.
14. If the work is an 'Artistic work' which is used or capable of being
used in relation to any goods or services, the application should
include a certification from the Registrar of Trade Marks in terms of
the provision to Sub-Section (i) of Section 45 of the Copyright Act,
1957. : N.A.
15. If the work is an 'Artistic work', whether it is registered under the
Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a
design under the Designs Act 2000, whether it has been applied to an
article though an industrial process and if yes, the number of times
it is reproduced. : N.A.
17. Remarks, if any :

Diary Number : 3401/2022-CO/L
Date : 16/02/2022
16/02/2022




Deputy Registrar of Copyrights



Dated : 02/05/2022

1. Registration Number : **L-115145/2022**
2. Name, address and nationality of the applicant : **DR.SUSHIL KUMAR , 106/78 VIJAYPATH, MANSAROVAR , JAIPUR, RAJSTHAN -302020 INDIAN**
3. Nature of the applicant's interest in the copyright of the work : OWNER
4. Class and description of the work : LITERARY/ DRAMATIC WORK I AM A HOSPITALITY TRAINER FOR FOOD & BEVERAGE SERVICE AT AMITY UNIVERSITY , RAJASTHAN. I CREATE THE RECIPE OF NOOR E GULAB . THIS IS MY ORIGINAL WORK .
5. Title of the work : NOOR-E-GULAB
6. Language of the work : ENGLISH
7. Name, address and nationality of the author and if the author is deceased, date of his decease : **DR.SUSHIL KUMAR , 106/78 VIJAYPATH, MANSAROVAR , JAIPUR, RAJSTHAN -302020 INDIAN**
8. Whether the work is published or unpublished : UNPUBLISHED
9. Year and country of first publication and name, address and nationality of the publisher : N.A.
10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers : N.A.
11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any : **DR.SUSHIL KUMAR , 106/78 VIJAYPATH, MANSAROVAR , JAIPUR, RAJSTHAN -302020 INDIAN**
12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright : N.A.
13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown). : N.A.
14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957. : N.A.
15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000, whether it has been applied to an article though an industrial process and, if yes, the number of times it is reproduced. : N.A.
17. Remarks, if any :
Diary Number : 2554/2022-CO/L
Date of Application : 04/02/2022
Date of Receipt : 04/02/2022





Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202211030511
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/05/2022
APPLICANT NAME	1 . Nirmal Vasanth 2 . Dr. Jai Sonker 3 . Chef Pawan Ailawadi 4 . Abhishek Dixit 5 . Chef (Dr.) Saurabh Sharma 6 . Bakul Govil 7 . Dr. Aravind Kumar Rai 8 . Kanchan Aich 9 . Atanu Bhattacharya 10 . Sumit Rohilla 11 . Vikas Sharma 12 . Dr. Alok Kumar 13 . Dr. Mukesh Shekhar 14 . Dr. Sushil Kumar
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE-BASED SYSTEM AND METHOD FOR MODELING ENDORSEMENT OF SKILLS OF AN INDIVIDUAL IN A SKILLS MAP
FIELD OF INVENTION	COMPUTER SCIENCE



Register information Utility model

DE file number : 20 2022 102 736.6 (Status: pending/in force, Status on: June 22, 2022)

Please note: This English version is a non-binding translation of the German register excerpt. Only the German version of the register excerpt is legally binding.



MASTER DATA

INID	Criterion	Field	Contents
	Type of IP right	SART	Utility model
21	Status DE file number	ST DAKZ	Pending/in force 20 2022 102 736.6
54	Designation/title	TI	Ein wärmeisoliertes, energiesparendes Kochgerät
51	IPC main class	ICM (ICMV)	A47J 36/34 (2006.01)
51	IPC secondary class(es)	ICS (ICSV)	A47J 36/36 (2006.01) , A47J 27/00 (2006.01)
22	DE application date	DAT	May 18, 2022
47	Date of registration	ET	Jun 21, 2022
71/73	Applicant/owner	INH	Bandyopadhyay, Rumki, Dr., Hooghly, West Bengal, IN; Gupta, Nimit, Dr., Rohini, Delhi, IN; Gupta, Renu, Dr., Rohini, Delhi, IN; Joshi, Saurabh Pradeep, Buldana, Maharashtra, IN; Kumar, Sushil, Jaipur, Rajasthan, IN; Nayak, Papari, Dr., Goalpara, Assam, IN; Panda, Ramesh Chandra, Prof., Cuttack, Odisha, IN; Rroy, Aruna Dev, Dr., Guwahati, Assam, IN; Sagi, Srilalitha, Dr., Visakhapatnam, IN; Sharma, Saurabh, Dr., Jaipur, Rajasthan, IN; Stanley, Shirmila, Dr., Chennai, Tamil Nadu, IN; Waghole, Dnyaneshwar Ramchandra, Dr., Pune, Maharashtra, IN; Yadav, Suresh Kumar, Dr., Jaipur, Rajasthan, IN
74	Representative	VTR	Hohendorf Kierdorf Patentanwälte PartGmbH, 50672 Köln, DE
	Address for service		Hohendorf Kierdorf Patentanwälte PartGmbH, 50672 Köln, DE
	Due date	FT	May 31, 2025
74	Representative	VTR	Hohendorf Kierdorf Patentanwälte PartGmbH, 50672 Köln, DE
	Address for service		Hohendorf Kierdorf Patentanwälte PartGmbH, 50672 Köln, DE
	Due date	FT FG	May 31, 2025 Maintenance fee for the 4th to 6th year
43	Date of first publication	PUB	Jun 21, 2022
	Date of the first transfer into DPMAregister	EREGT	Jun 21, 2022
	Date of the (most recent) update in DPMAregister	REGT	Jun 21, 2022 (Show all update days)

PROCEDURAL DATA

No.	Type of procedure	Legal/procedural status	Date of legal/procedural status ▲	Publication date	Show all details
1	Pre-registration procedure	The application is under preliminary examination	May 18, 2022		Display detail
2	Utility model procedure	Registration of utility model	Jun 21, 2022		Display detail

एमटी यूनिवर्सिटी जयपुर में तैयार की गई 515 तरह की बासुंदी लिम्का बुक ऑफ रिकॉर्ड्स के लिए दावेदारी प्रस्तुत की



जयपुर, (उदय टुडे)। एमटी यूनिवर्सिटी राजस्थान, जयपुर के एमटी स्कूल ऑफ हॉस्पिटैलिटी डिपार्टमेंट द्वारा लिम्का बुक ऑफ रिकॉर्ड्स में अपना दावा दर्ज कराने के लिए तीन घंटे 29 मिनट में 515 तरह की बासुंदी तैयार की गई। विगत कई दिनों से चल रही इस तैयारी के लिए एमटी स्कूल ऑफ हॉस्पिटैलिटी के 20 से अधिक छात्रों एवं शिक्षकगणों ने मेहनत की इस अवसर पर जानकारी देते हुए विभागाध्यक्ष प्रोफेसर (डॉ.) संजीव पाल ने बताया कि लिम्का बुक ऑफ रिकॉर्ड्स का दावा राजपत्रित अधिकारियों और हॉस्पिटैलिटी के क्षेत्र की प्रसिद्ध हस्तियों के सामने प्रस्तुत किया गया। प्रक्रिया के अंत में भौतिक सत्यापन कर दावे पर मुहर लगाई गई। आयोजन का मुख्य उद्देश्य भारतीय व्यंजनों की स्थिरता को बनाए रखने के साथ-साथ छात्रों में रिसर्च एनवायरनमेंट को बढ़ावा देना था। इसके अलावा पूरी कार्यक्रम योजना का सफल संचालन शेफ (डॉ.) सौरभ शर्मा के मार्गदर्शन में शेफ अदिति के सहयोग से किया गया। कार्यक्रम में एमटी स्कूल ऑफ हॉस्पिटैलिटी के विद्यार्थियों ने भी बड़-चड़कर भाग लिया। डॉ. पाल ने जानकारी देते हुए बताया कि यह आयोजन न केवल खाद्य में अनुसंधान की संस्कृति बनाने में मदद करेगा बल्कि उभरते होटल व्यावसायियों को भारतीय खाद्य पदार्थों से नए स्वादों का पता लगाने और बनाने में मदद करेगा। प्रो वाइस चांसलर प्रोफेसर (डॉ.) अमित जैन ने भी विभाग द्वारा इस प्रकार की गतिविधियों को प्रोत्साहित करने वाला बताया जो बच्चों के बीच रिसर्च कौशल को विकसित करने में मदद मिलेगी। वाइस चांसलर प्रोफेसर (डॉ.) राकेश भटनागर ने इस ऐतिहासिक उपलब्धि के लिए पूरी टीम को बधाई दी और कहा कि एमटी की संस्कृति नवाचार और रचनात्मक को बढ़ावा देने वाली है और हमेशा से ऐसी गतिविधियों का प्रतिनिधित्व किया जाता आ रहा है।

Amity University Rajasthan's School of Hospitality has been nominated to register itself in Limca Book of records for their recipe. The school claims to prepare 515 different recipes of 'Basundi'. The event will be graced by the presence of prominent experts of the field, It will also have participation of students. The event will take place on 25th May 2022

बासुंदी एट लिम्का | दावा गजेटेड ऑफिसर और हॉस्पिटैलिटी क्षेत्र की हस्तियों के सामने प्रस्तुत किया

20 से ज्यादा छात्रों ने 3.29 घंटे में 515 तरह की बासुंदी बनाई; लिम्का बुक के लिए दावा

सिटी रिपोर्टर | जयपुर

महाराष्ट्र के नरसोबावाड़ी और सांगली के आसपास दूध का उत्पादन खपत से ज्यादा हुआ तो दूध बर्बाद रिकॉर्ड्स के लिए वहां के लोगों ने इस बासुंदी बनाने की शुरुआत की। इसमें जहां दूध की मात्रा को आधा करने तक उवाला जाता है और मिठास के लिए चीनी का उपयोग होता है।

यह डिश अब गुजरात, महाराष्ट्र, आंध्र प्रदेश, तेलंगाना आदि राज्यों में बनाई जाती है। लेकिन बुधवार को बासुंदी को नए प्रकार व नए स्वाद के साथ प्रस्तुत किया गया। मौका था एमटी यूनिवर्सिटी राजस्थान के स्कूल ऑफ हॉस्पिटैलिटी डिपार्टमेंट की ओर से आयोजित कार्यक्रम का। जहां तीन घंटे 29 मिनट में 515 तरह की बासुंदी तैयार की गई। जिसने लिम्का बुक ऑफ रिकॉर्ड्स में अपना दावा दर्ज कराया। इसके लिए डिपार्टमेंट के 20 से अधिक छात्रों का योगदान रहा।



सर्दिग की मात्रा : 70 ग्राम

कुल कैलोरी : 148

दूध की मात्रा : 90%

अन्य सामग्री : 10%

45 दिनों से इंग्रीडिएंट्स के प्रोफाइल पर हो रहा था काम

कार्यक्रम में विभागाध्यक्ष प्रोफेसर डॉ. संजीव पाल ने बताया कि लिम्का बुक ऑफ रिकॉर्ड्स का दावा राजपत्रित अधिकारियों और हॉस्पिटैलिटी के क्षेत्र की प्रसिद्ध हस्तियों के सामने प्रस्तुत किया गया। शेफ सौरभ शर्मा ने बताया कि करीब 45 दिन से इंग्रीडिएंट्स के प्रोफाइल पर काम हो रहा था। हम वो इंग्रीडिएंट्स लेना चाह रहे थे जो दूध के साथ रिफ्लैक्ट ना करें और न ही बासुंदी का स्वाद खराब हो। हेल्दी बनाने के लिए सफेद चीनी की जगह मिश्री का इस्तेमाल किया गया है। साथ ही बाजरा, रागी, ज्वार, दालों का भी उपयोग हुआ है।

एमटी यूनिवर्सिटी में तैयार की गई 515 बासुंदी

लिम्का बुक ऑफ रिकॉर्ड्स के लिए जताई दावेदारी

जयपुर (सीमा सन्देश)।

एमटी यूनिवर्सिटी, जयपुर के एमटी स्कूल ऑफ हॉस्पिटैलिटी डिपार्टमेंट द्वारा लिम्का बुक ऑफ रिकॉर्ड्स में अपना दावा दर्ज करवाने के लिए 3 घंटे 29 मिनट में 515 तरह की बासुंदी तैयारी की गई। इसमें स्कूल के 20 से अधिक छात्रों व शिक्षकगणों ने मेहनत की। विभागाध्यक्ष प्रो. (डॉ.) संजीवपाल ने बताया कि लिम्का बुक ऑफ रिकॉर्ड्स का दावा राजपत्रित अधिकारियों और हॉस्पिटैलिटी के क्षेत्र की प्रसिद्ध हस्तियों के सामने प्रस्तुत किया गया। भौतिक सत्यापन कर दावे पर मोहर लगाई गई।

आयोजन का मुख्य उद्देश्य भारतीय व्यंजनों की स्थिरता को बनाए रखने के साथ-साथ छात्रों में रिसर्च एनवायरनमेंट को बढ़ावा देना था। कार्यक्रम संचालन शेफ (डॉ.) सौरभ शर्मा के मार्गदर्शन में शेफ अदिति के सहयोग से किया गया।



डॉ. पाल ने बताया कि यह आयोजन न केवल खाद्य में अनुसंधान की संस्कृति बनाने में मदद करेगा बल्कि उभरते होटल व्यावसायियों को भारतीय खाद्य पदार्थों से नये स्वादों का पता लगाने और बनाने में मदद करेगा। प्रो. वाइस चांसलर डॉ. अमित जैन ने भी विभाग द्वारा इस प्रकार की गतिविधियों

को प्रोत्साहित करने वाला बताया जो बच्चों के बीच रिसर्च कौशल को विकसित करने में मदद मिलेगी। वाइस चांसलर प्रो. (डॉ.) राकेश भटनागर ने कहा कि एमटी की संस्कृति नवाचार और रचनात्मक को बढ़ावा देने वाली है और हमेशा से ऐसी गतिविधियों का प्रतिनिधित्व किया जाता रहा है।



एमटी यूनिवर्सिटी जयपुर में तैयार की गई 515 तरह की बासुंदी

लिम्का बुक ऑफ रिकॉर्ड्स के लिए दावेदारी प्रस्तुत की

न्यूज ज्योति

जयपुर। एमटी यूनिवर्सिटी राजस्थान, जयपुर के एमटी स्कूल ऑफ हॉस्पिटैलिटी डिपार्टमेंट द्वारा लिम्का बुक ऑफ रिकॉर्ड्स में अपना दावा दर्ज कराने के लिए तीन घंटे 29 मिनट में 515 तरह की बासुंदी तैयार की गई। विगत कई दिनों से चल रही इस तैयारी के लिए एमटी स्कूल ऑफ हॉस्पिटैलिटी के 20 से अधिक छात्रों एवं शिक्षकगणों ने मेहनत की। इस अवसर पर जानकारी देते हुए विभागाध्यक्ष प्रोफेसर (डॉ.) संजीव पाल ने बताया कि लिम्का बुक ऑफ रिकॉर्ड्स का दावा राजपत्रित अधिकारियों और हॉस्पिटैलिटी के क्षेत्र की प्रसिद्ध हस्तियों के सामने प्रस्तुत किया गया। प्रक्रिया के अंत में भौतिक सत्यापन कर दावे पर मुहर लगाई गई। आयोजन का मुख्य उद्देश्य भारतीय व्यंजनों की स्थिरता को बनाए रखने के साथ-साथ छात्रों में रिसर्च एनवायरनमेंट को बढ़ावा देना था। इसके अलावा पूरी कार्यक्रम योजना का सफल संचालन शेफ (डॉ.) सौरभ शर्मा के मार्गदर्शन में शेफ अदिति के सहयोग से किया गया। कार्यक्रम में एमटी स्कूल ऑफ हॉस्पिटैलिटी के विद्यार्थियों ने भी बड़-चड़कर भाग लिया। डॉ. पाल ने जानकारी देते हुए बताया कि यह आयोजन न केवल खाद्य में अनुसंधान की संस्कृति बनाने में मदद करेगा बल्कि उभरते होटल व्यावसायियों को भारतीय खाद्य पदार्थों से नए स्वादों का पता लगाने और बनाने में मदद करेगा। प्रो वाइस चांसलर प्रोफेसर (डॉ.) अमित जैन ने भी विभाग द्वारा इस प्रकार की गतिविधियों को प्रोत्साहित करने वाला बताया जो बच्चों के बीच रिसर्च कौशल को विकसित करने में मदद मिलेगी। वाइस चांसलर प्रोफेसर (डॉ.) राकेश भटनागर ने इस ऐतिहासिक उपलब्धि के लिए पूरी टीम को बधाई दी और कहा कि एमटी की संस्कृति नवाचार और रचनात्मक को बढ़ावा देने वाली है और हमेशा से ऐसी गतिविधियों का प्रतिनिधित्व किया जाता आ रहा है।



AMITY UNIVERSITY
— R A J A S T H A N —

Best Practice 1 - Success Stories

Amity Institute of Biotechnology

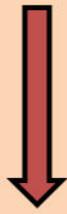


RESOURCE PERSON
WORKSHOP

IAC
↓
MOU

THESIS
EVALUATION
EXTERNAL
EXPERT, PhD
VIVA

PROJECT
SUBMISSIONS

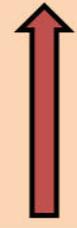


MENTORSHIP
IN BIG BIRAC
PROJECT

PATENT



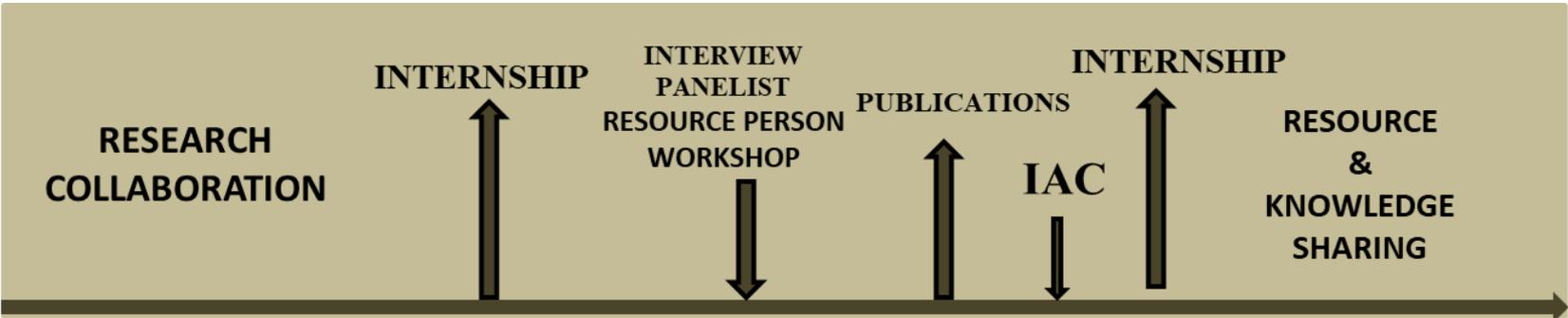
DIAGNOSTIC
DEVELOPMENT



INDUSTRY
EMPLOYED
PHD
SCHOLAR



**ALUMNI
PLACEMENT**



Industry doctoral program
Varsha Biosciences
PM fellowship-2015-17

2017

INTERNSHIP
2018

PINE BIOTECH, USA
SARAS DAIRY

INTERNSHIP

2019

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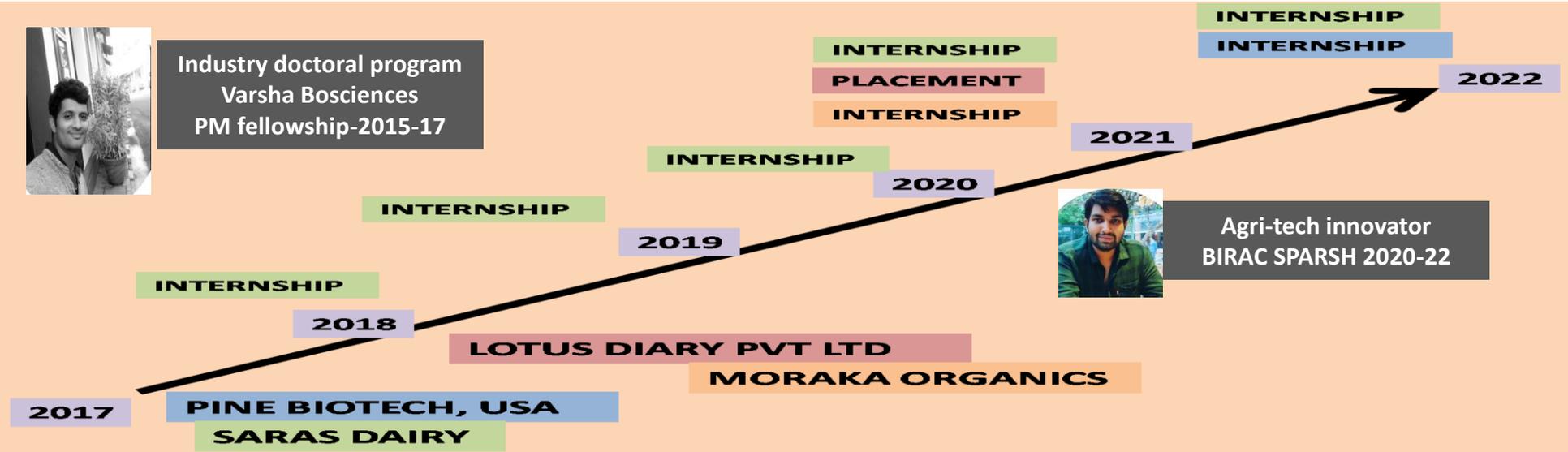


Agri-tech innovator
BIRAC SPARSH 2020-22

2021

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2022



AMITY INSTITUTE OF BIOTECHNOLOGY



Dr Satya Tapas
 Founder and Director
 Scidogma Res. Pvt. Ltd

Dr Satya Tapas as external expert for PhD viva presentation, 2018



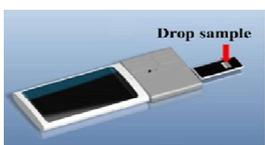
NON INVASIVE CHRONIC KIDNEY DISEASE NANOSENSOR FOR POINT-OF-CARE DIAGNOSIS

PI: **Dr. Manali Datta**
 Project Duration: 18 months + 6 months + 3 months
 Date of start of the Project: 10-1-2020
 Scheduled date of end of the Project: 31-03-2022

Approved Cost: 45.8 Lakhs



THE SENSOR ENVISIONED



THE ACTUAL MODEL

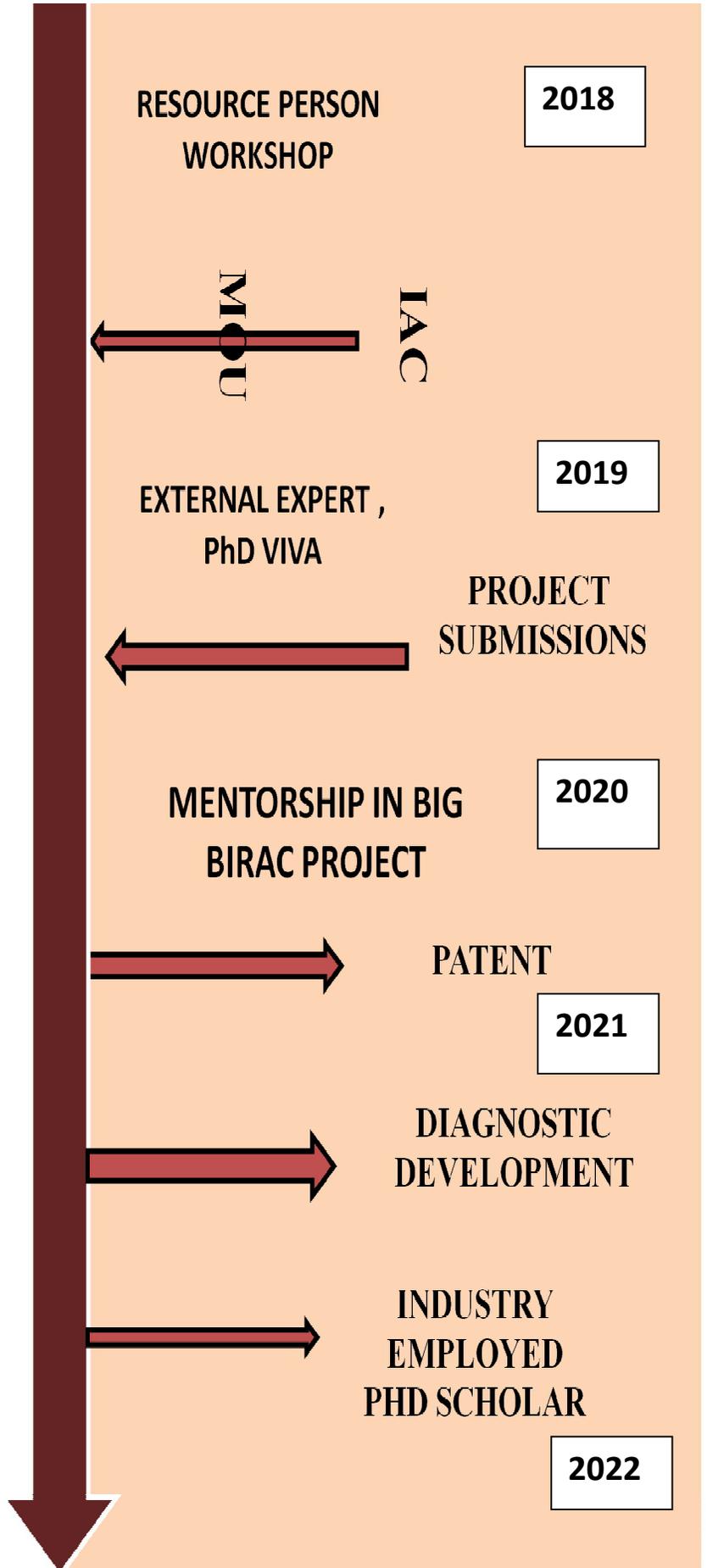


Outcome of the project



Dr. Dignya Desai 1st
 Scientist II-Analytical Research Development

Novelstar Pharmaceuticals Inc.



Dear Sir/ Madam,

Greetings!

A Lecture cum Interaction with **Dr Satya Tapas, Founder & Director – SciDogma Research (P) Ltd. Bangalore** under the aegis of Amity Institute of Biotechnology (AIB) is scheduled as per the following details:

Day & Date	Time	Venue	Topic
Tuesday 10/04/2018	11:15 AM	Seminar Room (ASCO) 2nd Floor Academic Block – D	“Entrepreneurship in Biotechnology”

All Students (UG&PG) of Food Technology/Nanotechnology/Biotechnology/Converging Technology and Ph.D. Scholars are requested to attend the event. All the Faculties of AIB are requested to attend the event.

Attendance of the above will be taken during the lecture in Seminar Room (ASCO). Programme Coordinators may please ensure the same. Faculty from other departments taking classes of above programmes may please be informed and attendance of students provided to them by programme coordinators.

Overall Coordinator : Dr Manali Datta, Assistant Professor – AIB will be the Overall Coordinators of the event.

Still Photography : Mr. Somnath Sahu, Assistant Professor- ASCo is requested to arrange for Still Photography of the event and to forward best 5 photographs to the office of undersigned.

Administrative Arrangements : Dy. Director Administration is requested to ensure all the administrative arrangements at the venue.

Setting up IT peripherals : Mr. R. K. Pachauri, Manager IT is requested to ensure setting up of IT peripherals at the venue.

Publication of the event on : Mr. R. P. Singh, Assistant Professor –ACEL; is

Lecture on “Entrepreneurship in Biotechnology ” by Dr. Satya Tapas, SciDogma research Pvt Ltd.

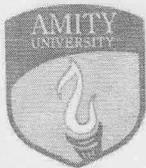
1. **Name of the Institute:** Amity Institute of Biotechnology
2. **Event Category:** Lecture.
3. **Name of the Event:** Guest Lecture cum interaction
4. **Venue of the Event:** ASCO seminar hall
5. **Attended by no. of Students/No. of the Faculty:** Students: 150; Faculty: 25
6. **Details of the Events:**

The talk was initiated with a revelation of the “Futurising of microscope”. After a design of compound microscope in 1914, no attempt had been made to discover or upgrade the microscope. Dr. Tapas elaborated on the discovery of a handy, portable microscope which had an interface with artificial interface. The CNS microscope had features of “Smartscope” along with “Cloudscope”. With this successful invention, he explained how he applied for funding and how a simple lab discovery resulted in a CNC microscope which may be handled by even children.

The second part of lecture was entitled “When, where and how to initiate a start-up” and encapsulated the story of becoming an entrepreneur and details about the funding agencies available for such innovations.

7. **Date and Time of the Start & End of the Event:** April 10th, 11.15 -12.30 pm
8. **Name of the Chief Guest(s) with designation if any:** NA
9. **Name of the Resource Person(s):** Dr. Satya Tapas, Director, SciDogma Research Pvt Ltd.
10. **Name of the Coordinator/Facilitator of the Program:** Dr. Manali Datta, AIB
11. **Further Scope of the event (i.e. Collaboration etc.):**
 - The MoU of collaboration has already been submitted for approval on Mar 28th, 2018
 - Talks are in progress for collaborative development of prototype for diagnostics.
12. **Image:**





AMITY UNIVERSITY

RAJASTHAN

Kant Kalwar, NH-11-C,
Jaipur (Rajasthan) 303002
Tel: 01426-405678,
Fax: 01426-405679

No. : AUR/REG/5953

Date : 03/03/2021

Industry Advisory Board [IAB] Amity Institute of Biotechnology (AIB)

The 'Industry Advisory Board (IAB)' is a working group of the concerned department/institute of Amity University Rajasthan, Jaipur. The aim of Industry Advisory Board (IAB) is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

The 'Industry Advisory Board (IAB)' of Amity Institute of Biotechnology (AIB) is hereby constituted as under :

Chair

- | | | |
|----|-------------------|--|
| 1. | Dr. Anupama Singh | Director & CEO - Sequoia Insilico Pvt. Ltd., New Delhi
Email ID - anupama.bic@gmail.com |
|----|-------------------|--|

Co-Chair

- | | | |
|----|--------------------|--------------------------------|
| 2. | Prof. Vinay Sharma | Dean Research & Director - AIB |
|----|--------------------|--------------------------------|

Member Secretary

- | | | |
|----|-------------------|-----------------|
| 3. | Prof. Neelam Jain | Professor - AIB |
|----|-------------------|-----------------|

Internal Members

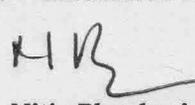
- | | | |
|----|-----------------------|---------------------------|
| 4. | Dr. Manali Datta | Associate Professor - AIB |
| 5. | Dr. Desh Deepak Singh | Associate Professor - AIB |
| 6. | Mr. Arvind Kumawat | Manager - CRC |

Industry Experts

- | | | |
|-----|-------------------|--|
| 7. | Mr. Mukesh Gupta | CEO - M.R. Morarka GDC, Rural Research Foundation, Jaipur
Email ID - mukesh@morarka123.com |
| 8. | Dr. Satya Tapas | Founder - Sci Dogma Research Pvt. Ltd., Bangalore
Email ID - satyatapas.dahp@gmail.com |
| 9. | Dr. R. P. Singh | MD - BL Agro Industry Ltd., Bareilly
Email ID - rps52hbt@gmail.com |
| 10. | Dr. B. Lal Gupta | Director - B. Lal Clinical Laboratory, Malviya Industrial Area, Jaipur
Email ID - blalgupta@blallab.com |
| 11. | Mr. Rakesh Sharma | Head Operation - Amul, Punjab & North India
Email ID - rakeshkumarsharma122@gmail.com |
| 12. | Mr. Anirudh Bose | Global Product Manager, Merck Life Science, Bangalore
Email ID - aniruddha.bose@merckgroup.com |

Alumni

- | | | |
|-----|----------------------|--|
| 13. | Ms. Preeti Pushkarna | B.Tech. (Biotech) [2012-2016]
Email ID - pushkarna.preeti@gmail.com |
| 14. | Ms. Kavita Mishra | M.Sc. (Biotech) [2014-2016]
Email ID - kavitamishra19@gmail.com |
| 15. | Mr. Sumeet Sharma | B.Tech. (Biotech) [2010-2014]
Email ID - sumeetthewarrior@gmail.com |
| 16. | Mr. Anirudh Tripathi | B.Tech. (Bioinformatics) [2008-2012]
Email ID - tripanirudh@gmail.com |


Dr. Nitin Bhardwaj
Registrar



Invitation to take Ph. D. Viva Voce Examination
directorphdaur <directorphdaur@jpr.amity.edu>
Tue 12/11/2018 2:12 PM

To:

- Satya Tapas <satyatapas1983@gmail.com>

Cc:

- Manali Datta <mdatta@jpr.amity.edu>

Dear Sir,

Thank you very much for evaluating and submitting the report of evaluation of the Ph. D. thesis of Ms. Dignya Desai.

As per confirmation by Dr. Manali Datta, the supervisor of Ms. Dignya Desai, I request you to kindly accept our invitation for taking viva-voce examination as an external examiner on 20th December, 2018 of Ms. Dignya Desai.

T.A. & D.A will be given as per University norms.

With Kind Regards,

Prof. Jagdish Prasad
Director - Ph. D. Programme

Congratulations for BIG 14 selection

Inbox



Dr. Viswanadham D <viswanadham@ikpknowledgepark.com>
to me, Ravindra

Sat, Jul 27, 2019, 12:01 AM

Dear BIG 14 applicant,

Greetings from IKP Knowledge Park.
Welcome you to the IKP Group of BIG Innovators.

You have been selected for the BIG Award subjected to the submission of required Due Dlligence Documents.
The date for the DD Visit will be informed shortly.
Mr. Ravi will share the list of required documents.

Please note the comments from the selection committee.

S. No.	Proposal Ref. No.	Applicant Name	PI Name	Title of the project	Research Area	ESC Recommendations	IP Comments	Status
14	BIRAC/IKP0876/ BIG-14/19	Dr. Manali Datta	Dr. Manali Datta	Non Invasive chronic kidney disease nanosensor for point-of-care diagnosis	Healthcare-Devices and Diagnostics	The committee recommended the proposal for nanosensor based point of care diagnosis too for detection of chronic kidney disease. Objective: • Mass scale production of diagnostic platforms for detection of CKD [batches of 50] • Quality assurance of the platform developed • [Biophysical and electrochemical testing of random strips with standard samples] • Collection of clinical samples [Jaipur and Jodhpur] with questionnaires • Testing of diseased and control samples • Statistical validation • Development of the prototype Milestone Mass scale production of diagnostic platforms for detection of CKD [batches of 50] : 6 Months Ethical Committee clearance and Collection of clinical samples (400) [Jaipur and Jodhpur] : 12 Months Development of the fully functional clinically validated prototype : 18 Months	The background patent is assigned to Amity University. The applicant must obtain a NoC/license to use the same.	Recommended

Best regards

Visu

Dr. Viswanadham D
Chief Manager - Innovation and Grant Management
IKP Knowledge Park, Hyderabad, +917989646563

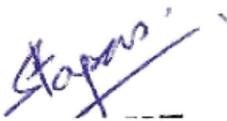
Date: 21/12/20

Scidogma Research Pvt Ltd.,
#42, Mathura Manor, S.N. Layout, Tata Nagar,
Shahakar Nagar Post, Bangalore, 560092.
CIN: U73100KA2015PTC082171
GSTN: 29AAWCS1264R1Z7
PAN: AAWCS1264R

To,
Name: Dr Manali Datta
Place: Amity Institute of Biotechnology (AIB)
Kant Kalwar, NH-11C, Jaipur, Rajasthan-303002.
Phone: +91 91459 77569
Email: mdatta@jpr.amity.edu, manali.datta@gmail.com

I hereby agree to become a mentor for the project funded by DBT-BIRAC under the BIG scheme.

I look forward to a fruitful association and hope to bring out a successful innovation



Dr Satya Tapas



Office of the Controller General of Patents, Designs & Trade Marks
 Department of Industrial Policy & Promotion,
 Ministry of Commerce & Industry,
 Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

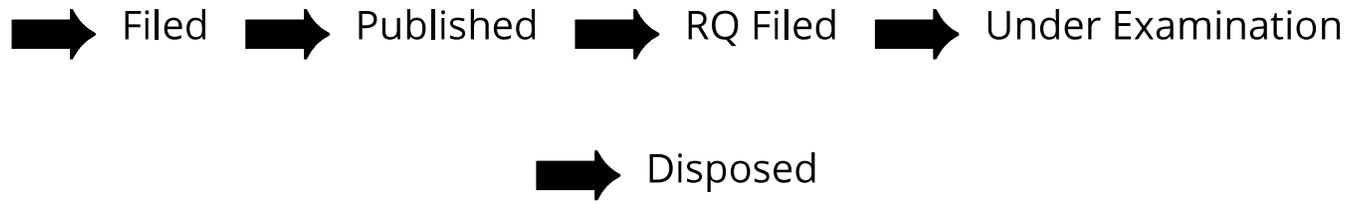
Application Details

APPLICATION NUMBER	201911011650
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/03/2019
APPLICANT NAME	AMITY UNIVERSITY
TITLE OF INVENTION	POINT OF CARE DIAGNOSTIC CHIP FOR KIDNEY DISORDER DETECTION USING MULTIWALLED CARBON NANOTUBE
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	passali@amity.edu
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/10/2020

Application Status

APPLICATION STATUS	Awaiting Request for Examination
--------------------	---

[View Documents](#)



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in



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Messaging



Notifications 40



Me



Dr. Dignya Desai · 1st
Scientist II-Analytical Research Development



- Novelstar Pharmaceuticals Inc.
Iselin, New Jersey, United States · [Contact info](#)

125 connections



30 mutual connections: Gajender Kumar Aseri, Neelam Jain, and 28 others

Message

More

Highlights



You both worked at Amity University Jaipur
You both worked at Amity University Jaipur from January 2015 to December 2018

Message



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Experience



Scientist II-Analytical Development

Novelstar Pharmaceuticals Inc. · Full-time

Jun 2022 - Present · 1 mo

Cranbury, New Jersey, United States

QC Analytical Development

Appco Pharma LLC · Full-time

Sep 2021 - Jan 2022 · 5 mos

United States

- GLP laboratory practice
- Maintain a clean & safe work environment

Project Engineer

DBT-BIRAC Project · Full-time

Apr 2019 - Jan 2021 · 1 yr 10 mos

Jaipur, Rajasthan

- Enzyme immobilization
- Protein-Protein interaction

...see



Ph.D

Amity University Jaipur

2015 - 2018 · 3 yrs

Rajasthan, India

PHD Work

Institute of genomics and integrative biology (CSIR)

Jun 2016 - Jan 2017 · 8 mos

New Delhi Area, India



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Me ▾



Shruti Dhingra · 1st

Assistant Professor at Dr B.Lal Institute of Biotechnology

- Dr B.Lal Institute of Biotechnology
- Amity University Jaipur

Jaipur, Rajasthan, India · [Contact info](#)

[72 connections](#)



14 mutual connections: Praveen Khare, AMRENDRA NATH PATHAK, and 12 others

Message

More

About

Gold medalist in M tech Biotechnology with an objective to be an efficient professional utilizing my skills and knowledge of biotechnology and computers for



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Me

Activity

74 followers

✓ Following

Shruti hasn't posted lately

Shruti's recent posts and comments will be displayed here.

Show all activity →

Experience

Assistant Professor

Dr B.Lal Institute of Biotechnology

Aug 2014 - Present · 8 yrs



Biotech Colleges In Jaipur Rajasthan India,
Biotechnology Colleges In Jaipur Rajasthan India
Dr. B. Lal Institute of Biotechnology Colleges jaipur find complete information about Biotech colleges in Jaipur,...

Assistant Professor

Jagannath University

Jul 2012 - Jun 2014 · 2 yrs

I believe that my greatest teaching strength is my ability to understand each students unique requirements and assisting them to achieve as much as

Education



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Me

Grade: Gold medalist



Amity University

Bachelor of Technology (B.Tech.), Biotechnology

2006 - 2010

St Anslems pink city

Skills

Molecular Biology



Endorsed by Praveen Khare and 1 other mutual connection



8 endorsements

Endorse

Biotechnology



Endorsed by Patrali Bhattacharya and 1 other mutual connection



8 endorsements

Endorse

Life Sciences



Endorsed by Patrali Bhattacharya and 1 other mutual connection



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Messaging



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Me ▼

[Endorse](#)[Show all 17 skills →](#)

Projects

Amol Pharmaceuticals Pvt Ltd , Jaipur

Amol Pharmaceuticals Pvt. Ltd. (APPL) is a leading manufacturer of pharmaceuticals, herbals, minerals, vitamins, amino acids, specialty dietary supplements in the form of

Dr B Lal Path Labs

[Show project ↗](#)

Established in 1991, Dr.B.Lal Clinical Laboratory is a center for advanced research, particularly in the field of Microbiology and Immunology. B.Lal labs is one of the most

Jaipur Saras Dairy

[Show project ↗](#)

Saras dairy is one of the most profitable Dairy Federation of the country contributing to the White Revolution of India. During this period I got the basic knowledge of a

[Show all 4 projects →](#)

Honors & awards

Gold medalist

Issued by Amity University · May 2013



Amity University Rajasthan
Jaipur

To,

The Head / Director
Amity Institute of Biotechnology
Amity University Rajasthan

From,

The Office of Dean Academics
Amity University Rajasthan

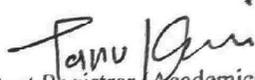
NO.PH.D.RS/RL/219

Dated: 05/07/2017

Ph.D. Registration Letter

Dear Sir/Madam,

With reference to your endorsement on the application of **Ms. Ena Gupta** for the registration as a research scholar to supplicate for the Ph.D. Degree of the University, you have been permitted by the Vice-Chancellor on behalf of the Academic Council to carry on the research on the subject "**Studies on biochemical and molecular tools for early diagnosis of sepsis targeting both pathogens and host factors**" Under the supervision of **Dr. Anupam Jyoti**, of your Institution/ School. The date of commencement of research work will be the date on which SRDC approved your synopsis or the date of your enrollment for Ph.D. Degree.


Assistant Registrar (Academics)

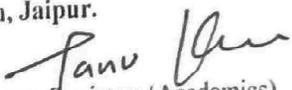
- Note: -
1. The candidate will start his/her research work from the date when he/she deposit the fee.
 2. The candidate will have to make presentation of the progress of his research work in every semester (six monthly) in the department. The candidate will also submit six monthly progress / presentation report through supervisor and HOI.
 3. When the thesis is likely to be submitted within the next few months, the candidate should submit a brief summary of the thesis on receipt of which action will be taken for appointment of examiners.
 4. The candidate will submit four spiral bound copies of the thesis for evaluation.
 5. The language, used in the thesis should be English except in the case of subject connected with an original language, where the thesis may, at the option of the candidate be presented in that language. The thesis shall comply with the following conditions: -

It must be a piece of original research work characterized either by the discovery of new facts or by a fresh approach towards interpretation of facts or theories. In either case, it should prove the candidate's capacity for critical examination and sound judgement. It shall also be satisfactory in respect of its literary presentation.

6. After the report of the evaluation of the thesis has been communicated by all the examiners, the guide will ensure that all corrections, modifications suggested by the examiner(s) have been incorporated in the five hard bound final copies of the thesis to be submitted by the candidate to this office before the Ph.D. Viva- Voce examination is held.

Copy forwarded to:-

1. Supervisor: - **Dr. Anupam Jyoti**, AIB, Amity University Rajasthan, Jaipur.
2. Co-Supervisor: - **Dr. Yogesh Singh**, Head, Dr. B. Lal Clinical Lab. Pvt. Ltd. Jaipur .
3. Candidate: - **Ms. Ena Gupta**, Amity University Rajasthan, Jaipur.
4. Personal file.


Assistant Registrar (Academics)

Original Paper

Identification of Potential Vaccine Candidates Against SARS-CoV-2 to Fight COVID-19: Reverse Vaccinology Approach

Ekta Gupta¹, MSc; Rupesh Kumar Mishra², PhD; Ravi Ranjan Kumar Niraj², PhD

¹Dr. B. Lal Institute of Biotechnology, Jaipur, India

²Amity University Rajasthan, Jaipur, India

Corresponding Author:

Ravi Ranjan Kumar Niraj, PhD

Amity University Rajasthan

SP-1, Kant Kalwar

RIICO Industrial Area

Jaipur, 303002

India

Phone: 91 9729559580

Email: rrkniraj@gmail.com

Abstract

Background: The recent emergence of COVID-19 has caused an immense global public health crisis. The etiological agent of COVID-19 is the novel coronavirus SARS-CoV-2. More research in the field of developing effective vaccines against this emergent viral disease is indeed a need of the hour.

Objective: The aim of this study was to identify effective vaccine candidates that can offer a new milestone in the battle against COVID-19.

Methods: We used a reverse vaccinology approach to explore the SARS-CoV-2 genome among strains prominent in India. Epitopes were predicted and then molecular docking and simulation were used to verify the molecular interaction of the candidate antigenic peptide with corresponding amino acid residues of the host protein.

Results: A promising antigenic peptide, GVVFASTK, from the surface glycoprotein of SARS-CoV-2 (protein accession number QIA98583.1) was predicted to interact with the human major histocompatibility complex (MHC) class I human leukocyte antigen (HLA)-A*11-01 allele, showing up to 90% conservancy and a high antigenicity value. After vigorous analysis, this peptide was predicted to be a suitable epitope capable of inducing a strong cell-mediated immune response against SARS-CoV-2.

Conclusions: These results could facilitate selecting SARS-CoV-2 epitopes for vaccine production pipelines in the immediate future. This novel research will certainly pave the way for a fast, reliable, and effective platform to provide a timely countermeasure against this dangerous virus responsible for the COVID-19 pandemic.

(*JMIR Bioinform Biotech* 2022;3(1):e32401) doi: [10.2196/32401](https://doi.org/10.2196/32401)

KEYWORDS

COVID-19; SARS-CoV-2; reverse vaccinology; molecular docking; molecular dynamics simulation; vaccine candidates; vaccine; simulation; virus; peptide; antigen; immunology; biochemistry; genetics

Introduction

COVID-19 began in December 2019 with an outbreak of a novel virus in Wuhan city of China [1]. The disease gained a rapid foothold worldwide, resulting in the World Health Organization (WHO) declaring it a global pandemic by March 2020. As of March 10, 2021, there has been a worldwide total of 118,159,602 cases and 2,622,101 deaths due to COVID-19 reported by the WHO. The virus causing COVID-19, SARS-CoV-2, spreads primarily through saliva, droplets, or

discharges from the nose of an infected person after coughing or sneezing. Coronaviruses are enveloped RNA viruses with the largest genome among all RNA viruses [2]. As continuous transmission of the virus across borders increases, imposing a major health burden on the global scale, more studies are urgently required to understand SARS-CoV-2. Moreover, in the absence of effective cures and drugs, vaccination or immunization therapy is imperative to target the entire population. In particular, immunoinformatics tools have proven to be crucial to move the vaccine development pipeline forward



In-Silico Repurposing of Anticancer Drug (5-FU) as an Antimicrobial Agent Against Methicillin-Resistant *Staphylococcus aureus* (MRSA)

Amey Sharma¹ · Avani Sharma² · Apoorva Rana¹ · Ravi Ranjan Kumar Niraj³ Accepted: 28 December 2019
© Springer Nature B.V. 2020

Abstract

The Centers for Disease Control and Prevention (CDC) reported earlier that more than 11,000 people died from a methicillin-resistant *Staphylococcus aureus* (MRSA)-related infection in the United States; this figure represents nearly half of all fatalities caused by antibiotic-resistant bacteria. Undoubtedly, novel antimicrobials drugs and novel approaches to developing them are essential; though the developing new antimicrobials are ever more complicated and are at present incapable to keep pace with the emergence of drug-resistant bacteria. The drug repurposing approach to finding a new use, slightly different to the extent of their native medical indication is in recent times gathering great attention and has achieved successes in many more of therapeutic areas. In the present study, we repurpose an anti-cancer drug (5-FU) as an antibacterial agent, for this purpose the 3D structure of thymidylate synthase of MRSA was generated by homology modelling and validated predicted structure using various in-silico approaches. Also, the binding pattern of 5-FU with respective target protein (thymidylate synthase) was studied using molecular docking and molecular dynamic simulation. Our study will provide good insight into the drug repurposing approach to meet the gap between the development and demand of new antimicrobial drugs.

Keywords MRSA · In-silico · Drug repurposing · 5-FU

Abbreviations

ps Picoseconds
ns Nanoseconds
3D 3-Dimensional

Introduction

The Centers for Disease Control and Prevention (CDC) reported in the year of 2013 that greater than 11,000 people died from an infection caused by MRSA in the United States; this number represents about half of all fatalities caused by antibiotic-resistant bacteria. Along with a high

mortality rate, *S. aureus* is also a common pathogen that causes soft tissue infections and skin infection in humans (Forcade et al. 2011; Skiest and Cooper 2007). On the other hand, the occurrence of multidrug-resistant *S. aureus* strains became more challenging; to treat these stains will become a new challenge. Undoubtedly, novel antimicrobials drugs and novel approaches to developing them are essential; though the developing new antimicrobials agents are ever more complicated and are at present incapable to maintain pace with the emergence of drug-resistant bacteria (Odell 2010). The drug repurposing approach to finding a new use, slightly different to the extent of their native medical indication is in recent times gathering great attention and has achieved successes in many more therapeutic areas (Chong and Sullivan 2007; Thangamani et al. 2015). The repurposing of known drugs with known drug-ability and toxicity significantly reduces the time, expenditure and threat associated with antibiotic innovations; another hand, de novo drug development is time taking and costly (Ashburn and Thor 2004). As the cancer cells and pathogenic bacterial cells are approximately similar in nature and so it is expected that few anti-neoplastic agents would be also able to work as an anti-microbial agent. In fact, some of the anticancer drugs like daunorubicin and doxorubicin were

Amey Sharma and Avani Sharma have contributed equally to this work.

✉ Ravi Ranjan Kumar Niraj
rrkniraj@gmail.com

¹ Dr. B. Lal Institute of Biotechnology, Jaipur 302017, India

² Department of Computer Science, Malviya National Institute of Technology, Jaipur 302017, India

³ Amity Institute of Biotechnology, Amity University of Rajasthan, Jaipur 303002, India

RESEARCH ARTICLE

Comparative Proteome Analysis of *Mycobacterium tuberculosis* Strains - H37Ra, H37Rv, CCDC5180, and CAS/NITR204: A Step Forward to Identify Novel Drug Targets

Shradheya R.R. Gupta¹, Ekta Gupta¹, Avnam Ohri¹, Sandeep Kumar Shrivastava¹, Sunita Kachhwaha², Vinay Sharma³, Rupesh Kumar Mishra³ and Ravi Ranjan Kumar Niraj^{3,*}

¹Dr. B. Lal Institute of Biotechnology Jaipur, India; ²Department of Botany, University of Rajasthan, Jaipur, India; ³Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur, India

Abstract: Background: *Mycobacterium tuberculosis* is a causative agent of tuberculosis. It is a non-motile, acid-fast, obligatory aerobic bacterium. Finding novel drug targets in *Mycobacterium tuberculosis* has become extremely important as the bacterium is evolving into a more dangerous multi-drug resistant pathogen. The predominant strains in India belong to the Central-Asian, East-African Indian, and Beijing clade. For the same reason, the whole proteomes of a non-virulent strain (H37Ra), a virulent (H37Rv) and two clinical strains, a Central-Asian clade (CAS/NITR204) and a Beijing clade (CCDC5180) have been selected for comparative study. Selecting a phylogenetically close and majorly studied non-virulent strain is helpful in removing the common and undesired proteins from the study.

Objective: The study compares the whole proteome of non-virulent strain with the other three virulent strains to find a unique protein responsible for virulence in virulent strains. It is expected that the drugs developed against identified targets will be specific to the virulent strains. Additionally, to assure minimal toxicity to the host, we also screened the human proteome.

Methods: Comparative proteome analysis was used for target identification and In-silico validation of identified target protein Rv2466c, identification of the respective ligand of the identified target protein and binding interaction study using Molecular docking and Molecular Dynamic Simulation study were used in this study.

Result: Finally, eleven proteins were found to be unique in virulent strain only and out of which, Rv2466c (PDB-ID: 4ZIL) was found to be an essential protein and identified as a putative drug target protein for further study. The compound glutathione was found to be a suitable inhibitor for Rv2466c. In this study, we used a comparative proteomics approach to identify novel target proteins.

Conclusion: This study is unique as we are assured that the study will move forward the research in a new direction to cure the deadly disease (tuberculosis) caused by *Mycobacterium tuberculosis*. Rv2466c was identified as a novel drug target and glutathione as a respective ligand of Rv2466c. Discovery of the novel drug target as well as the drug will provide a solution to drug resistance as well as the infection caused by *Mycobacterium tuberculosis*.

Keywords: Multi-drug resistance, mycobacterium tuberculosis, comparative proteomic study, molecular docking, molecular dynamic simulation.

1. INTRODUCTION

Mycobacterium tuberculosis is the causative agent of tuberculosis. It is a non-motile, acid-fast, obligatory aerobic bacterium. Additionally, its cell wall is unique, has a great

percentage of mycolic acid. The presence of acid, made its cell wall highly resistant towards lysosomal attack, drying and chemicals [1]. *Mycobacterium tuberculosis* causing metabolic syndromes, autoimmune and pulmonary complications in human beings is common for this bacterium. Tuberculosis treatment covers a broad range of antibiotics, but the emergence of resistance has made it a detrimental universal health problem [2, 3]. In 2016, there were still ~10.4 million

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Memorandum of Understanding (MoU)

**AMITY UNIVERSITY RAJASTHAN
JAIPUR (INDIA)**

**PINE BIOTECH INC
USA**



&



Dated 04/10/ 2021

In accordance with a desire to promote cooperation in areas of mutual interest for the benefits of both organizations, the Memorandum of Understanding is entered into, on this 04th day of October, 2021.

BETWEEN

Amity University Rajasthan, Jaipur (AUR) having its campus at Kant Kalwar, NH-11C, Jaipur - 303002 is one of the reputed Educational and Research Institutions sponsored by Ritnand Balved Education Foundation (RBEF), the umbrella body of all Amity Institutions. Amity University Rajasthan, Jaipur (AUR) was established in the State of Rajasthan, by an Act of the State Legislature in 2007 and is recognized by University Grants Commission (UGC) under UGC Act of 1956. AUR is a NAAC accredited and NIRF ranked leading research and innovation driven university. AUR, Jaipur is considered a pioneer in the field of higher learning and offers doctoral, postgraduate and undergraduate degrees in programmes ranging from Engineering, Biotechnology, Architecture, Management, Mass Communication, Law, Humanities, Psychology to unique programs in Microbial Technology, Bioinformatics, Clean Technology, Ocean Atmospheric Sciences and Converging Technologies, to name a few.

AND

Pine Biotech, Inc. is a US-based company, situated at 1441 Canal St. Suite 411, New Orleans, LA 70112, USA, that provides resources, solutions, and training for research and education in biomedical informatics. Since 2017, they have been developing an innovative approach to incorporate bioinformatics training, educational materials, and biomedical specializations into high school, undergraduate, and graduate degrees around the world. Pine Biotech see a common mission to be a catalyst in developing a new generation of computational biologists across India. Together, they will be working to engage educators, researchers (biologists, clinicians, and bioinformaticians) and students to increase the awareness of biology as data science.

“**AUR**” and “**Pine Biotech Inc**” shall hereinafter be referred to as individually as a “Party” and collectively as “Parties”.

WHEREAS The **Pine Biotech Inc and AUR** recognizing the mutual interest in the field of research, development, education, and dissemination of knowledge on long term basis in the area of Biotechnology and other Sciences committed to promote joint research activities and faculty and students exchange programme/ activities. Both **Pine Biotech Inc. and AUR** are joining hands to play



an effective role as committed to establish certain exchange programs beneficial to the respective educational Institutions and to promote the development of joint studies, research and training activities, and other educational exchanges of mutual interest and benefits.

NOW, this Memorandum of Understanding (to be hereinafter referred to as “MoU”) is executed to be in effect from the 04th day of October 2021 to collaborate according to the terms and conditions set out in the articles in the area of biotechnology and its related fields between **AUR** and **Pine Biotech Inc.** incorporating the following mutual undertakings:

Article 1

1. Both Parties are pleased to enter upon an agreement to promote academic cooperation, mutual understanding and identify areas where staff and students of both parties can work together to promote international excellence in research and teaching in higher education.
2. The Parties’ cooperation may consist of the following activities:
 - a) Exchange of Research Scholars
 - b) Exchange of Students
 - c) Internships for Students
 - d) India Immersion program
 - e) Joint Supervision of PhD scholars
 - f) Joint Research Project.
 - g) Co-hosting and participating in International Conferences, Symposia and Seminars.
 - h) Any other activity that is mutually agreed upon and is beneficial to both parties.

Article 2

1. Both parties will actively seek to promote mutual faculty and students exchange for mutual agreed periods.
2. Such exchange may assume various forms, such as individual short-time and long-term visits of faculties, joint research and development projects etc.
3. Faculty could be a co-guide for PhD candidates in both the institutions based on mutual consent.
4. Encouragement of the academic faculty to co-author publications, joint research activities and joint project possibilities is in subject to applicable copyright and/or other laws of each country, as well as rules and regulations of the respective universities.
5. Any publication created would be published in the department journal of both parties.

Article 3

1. The MOU does not imply any financial obligations or legal binding on either party.
2. Financial obligations with regard to any programs and exchanges shall be discussed and acted upon by the parties through separate Annexes to this MOU in writing, signed by both Parties.

Article 4

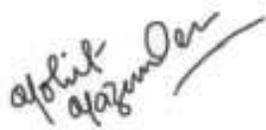
1. The MOU shall come into effect from the date of signing and shall remain valid for a period of three (03) years and will be automatically renewed unless terminated by either of the parties and prior to termination both parties should ensure that the obligations outlines in this MoU are fully executed.
2. Amendments and additions may be made to the MOU subject to the written consent of both the parties.
3. MOU can be terminated by either party with minimum 90 days' prior notice in writing to the other party.

In witness thereof the parties have caused their authorized representatives to sign this agreement on the date mentioned hereinabove.

Signed on this 04th day of October 2021.

**For and on behalf of
Pine Biotech, Inc., USA**

**For and on behalf of
Amity University Rajasthan, Jaipur**



Name : **Dr. Mohit Mazumder**
Designation : **Director of Business
Development**

Name : **Dr. Nitin Bhardwaj**
Designation : **Registrar**



Seal :

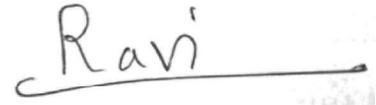


Seal :



Witness :

Name : Sonalika Ray
Designation : Community Manager
Phone : +91-9569563322
Email ID : marketing@pine.bio
Pine Biotech, Inc., USA



Witness :

Name : Dr. Ravi Ranjan Kumar Niraj
Designation : Assistant Professor- AIB
Phone : +91-9729559580
Email ID : rrkniraj@jpr.amity.edu
Amity University Rajasthan, Jaipur



AMITY UNIVERSITY

RAJASTHAN

AIB/AUR/IAC-AIB/0001

Date: 27/11/2018

The Industry Advisory Council (IAC) as under is hereby recommended for your kind approval:

Industry Advisory Council (IAC) – Amity Institute of Biotechnology (AIB)

Overview

Industry Advisory Council is an active working group of the AIB department of Amity University Rajasthan, Jaipur. The aim of IAC is to develop strong industry engagement, strengthen the existing relationship and to provide a focal point for industry, faculty and students interface in the department.

Chair

Dr Anupama Singh, Director & CEO, Sequoia Insilico Private Limited, New Delhi

Co-Chair

Prof Vinay Sharma, Dean Academics & Director –AIB

Secretary

Dr Neelam Jain, Associate Professor - AIB

Industry Experts

Dr Sreasha P Srinivasa, Vice President and Head – Translation Research, Biocon Ltd., Bangalore, India
Mr Surojit Bose, CEO, Cofounder & Director, LeadInvent Pharma Inc., New Delhi
Dr T S R Murli, Founder CEO at Urjita food Business, Gurgaon, Haryana
Mr Mukesh Agarwal, Director - Ayushraj Enterprises Pvt Limited, Jaipur
Mr Mukesh Gupta, CEO-M.R. Morarka GDC Rural Research Foundation, Jaipur
Dr Satya Tapas, Founder- SciDogma Research (P) Ltd., Bangalore.

CRC Expert

Mr Arvind Kumawat, Manager - Corporate Resource Center (CRC), AUR

Alumini

Mr Ayush Garg, B.Tech. (Biotechnology) 2010-2014

Mr Chaudhary Jignesh Kumar S, M.Tech. (Biotech) 2012 – 2014

Prof Vinay Sharma
Director – AIB & Dean Academics

Registrar 4/12/18

Pro-President

President 5/12



**Annexure 5: BENEFITS TO AMITY INSTITUTE OF BIOTECHNOLOGY POST
AIB-IAC**

Sr. No.	Benefit obtained	Industry Name & Details
1	Placement Offered (Placement of Mr. Divyansh Sharma)	Lotus Dairy Products, Pvt. Ltd., Jaipur
2	Internship Offered (Two students Ms. Kavya Singh and Ms. Kratika Mehta)	Morarka Organic Foods Limited, Jaipur
3	Event Organized (Webinar on Sustainable Entrepreneurship in Environmental Biotechnology)	Dr B. Lal Institute of Biotechnology, Jaipur
4	Collaborative Research (Co- Guide of Ms. Ena Gupta (Research Scholar AIB) from B. Lal Institute)	Dr B. Lal Institute of Biotechnology, Jaipur



Lotus Dairy Products Pvt. Ltd.



FROM NATURE, FOR NATURE, BY LOTUS

Dated: 15/02/2021

Mr. Divyansh Sharma,
Firozabad,
Uttar Pradesh.

Sub: Offer for Employment
Position: Technical Officer (Production)

Dear Mr. Divyansh,

1. This refers to your application and the discussions held with you over the last few days.
2. We are pleased to offer you the position of "Technical Officer (Production)" on the following terms and conditions.
 - (a) Your Head Quarter will be Manda. However the job is transferable and you may be transferred to any other office/ plant at the sole discretion of the management.
 - (b) You will get a remuneration of Rs. 2.64 Lakh gross per annum which will be inclusive of Basic Pay, HRA, Conveyance Allowance, Medical Allowance, Special Allowance or any other allowance.
 - (c) A letter of appointment specifying the detailed break-up of your remuneration will be handed over once you report for duty at our office. The employment is subject to the verifications of your credentials.
 - (d) You will report to the official of the company as may be communicated to you from time to time.
 - (e) You will be on probation for the period of 6 months, which may be extended at the discretion of the management for such period or periods as may be deemed necessary.
 - (f) You shall be responsible for safe custody of documents, material, property and equipment of the company entrusted to you or which may be in your use, custody or charge.
 - (g) E-Mail Messages: Lotus Dairy encourages the use of e-mail for business purpose. The messages generated or received via e-mail including the backup copies are company property. Though the company does not recommend the use of e-mail for personal use, it may be used provided it does not use more than a trivial amount of resources. The company has the right to retrieve and review any messages composed or received through the company's e-mail system.



Morarka Organic Foods Limited

Postal Address- Post Box No. : 226 Jaipur
SP 2034-2035, Ramchandrapura Industrial Area, Sitapura, Jaipur 302 905, Rajasthan, India,
Tel. 91-141-3176520, E-mail: info@morarkaorganic.com, Website : www.morarkaorganic.in

Ref: MOFL/2021-22/

Dated : 26.11.2021

To Whom So It May Concern

This is to certify that Ms. Kayya Singh has done her internship in Quality & Assurance Department at Morarka Organic Foods Limited, Jaipur, from 26 October 2021 to 26 November - 2021.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for her upcoming career.

For: Morarka Organic Foods Limited.

Authorized Signatory



Morarka Organic Foods Limited

Postal Address: Post Box No. 226 Jaipur
SF 2034-2035, Ramchandrapura Industrial Area, Sitapura, Jaipur 303 905, Rajasthan, India.
Tel: 91-141-2176520, E-mail: info@mailmorarka.com, Website: www.morarkaorganic.in

Ref: MOFL/2021-22/

Dated : 26.11.2021

To Whom So It May Concern

This is to certify that Ms. Kratika Mehta has done her internship in Quality & Assurance Department at Morarka Organic Foods Limited, Jaipur, from 26 October 2021 to 26 November - 2021.

During her internship she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and she was able to complete the project on time.

We wish her all the best for her upcoming career.

For: Morarka Organic Foods Limited.


Authorized Signatory



Home



My Network



Jobs



Messaging



Notifications 40



Me



Dr.Sankepally Samara Shekar Reddy · 2nd

Assistant Manager Quality Assurance at Hetero Biopharma Limited



• Hetero Biopharma

• amity university rajsathan

Hyderabad, Telangana, India · [Contact info](#)

320 connections



12 mutual connections: Vigi Chaudhary, Dr Vikram Yadav, and 10 others

Connect

Message

More

About

Experienced Assistant Manager with a demonstrated history of working in the biotechnology industry. Skilled in Research, English, Microsoft Excel, Microsoft Word and Microsoft PowerPoint. Strong administrative professional with a Doctor of Philosophy - PhD focused in Biotechnology from amity university rajsathan.



Messaging





Home



My Network



Jobs

Activity

318 followers

[+ Follow](#)

Dr.Sankepally Samara hasn't posted lately

Dr.Sankepally Samara's recent posts and comments will be displayed here.

[Show all activity →](#)

Experience



Assistant Manager

Hetero Biopharma

May 2020 - Present · 2 yrs 2 mos



Assistant Manager

Prathista Industries Limited

Mar 2017 - Mar 2020 · 3 yrs 1 mo

Head Of Research

ELAINE CROP CARE

Jan 2017 - Feb 2018 · 1 yr 2 mos



Research scholar in R&D department

Varsha Bioscience and Technology Private Limited

Jan 2015 - Jan 2017 · 2 yrs 1 mo

Hyderabad Area, India



Messaging





CERTIFICATE OF COMPLETION

This Certificate is presented to Sparsh Fellow

Akash Sharma

on successfully completing the BIRAC's Social Innovation Immersion Program
on theme Agri Tech implemented by
Sparsh Centre IIM Calcutta Innovation Park and Tata Institute of Social Sciences,
Mumbai as the Sparsh Knowledge Partner.

Sanjay Saxena

Dr. Sanjay Saxena

General Manager and Head (Investment)
Biotechnology Industry Research Assistance Council

Subhra Chakrabarti

Dr. Subhra R. Chakrabarti

Director (Operations)
Biotechnology Industry Research Assistance Council