

**3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**



**ACHARYA NARENDRA DEV COLLEGE**

UNIVERSITY OF DELHI

DBT STAR STATUS COLLEGE

All India NIRF 2022 Ranking-18, NAAC Score-3.31

Govindpuri, Kalkaji, New Delhi 110019

# ACHARYA NARENDRA DEV COLLEGE

*Preparing for the future...*



## आचार्य नरेंद्र देव कॉलेज तैयारी भविष्य की...

University of Delhi | NAAC accredited: A Grade  
दिल्ली विश्वविद्यालय | नैक मान्यता प्राप्त 'ए' ग्रेड



### Supporting Document for 3.5 Collaboration

3.5.1: Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

3.5.1	<b>Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.</b>
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Year	2021-22	2020-21	2019-20	2018-19	2017-18
No. of MoUs	10	9	9	12	4

Attached Documents are :

**1. Excel File**

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

**2. Table 1.**

E-copy and Copies of MOUs/ collaboration/ related documents indicating the nature of collaboration and activities year-wise.

**3. Table 2.**

List of activities conducted under each MoU along with dates of starting and completion year-wise signed by both parties.

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**Table 1.**

E-copy and Copies of MOUs/ collaboration/ related documents indicating the nature of collaboration and activities year-wise.

S.No.	Name of the MoU/ Collaboration/linkage	Year	Page No.
1.	Society of Photo-Optical Instrumentation Engineers (SPIE)	2010 - till date	1-2
2.	Science Setu (Thsti Department of Biotechnology)	2016 – 2019	3-12
3.	Creative Commons Affiliate	2013-2018	13-15
4.	Th!nk Lab– Collaboration with CUBE	2010-till date	16-17
5.	International Bacteriophage Research Consortium (Open Health System Laboratory, USA)	2018 – till date	18-20
6.	MOU between ANDC and The Azim Premji University	2018 – till date	21-24
7.	MOU between ANDC and PhiXGen Pvt. Ltd.	2019	25-28
8.	National Programme on Technology Enhanced Learning (A Joint venture of Indian Institutes of Technology and Indian Institute of Science)	2019 - till date	29-30
9.	MOU between Entrepreneurship Cell of Open Learning, University of Delhi and ANDC	2021	31-35
10.	MOU between Auburn University and ANDC	2021-2024	36-38
11.	MOU between Monster.com India Private Limited and ANDC	2022	39-44
12.	Science Setu (National Institute of Immunology)	2022-2025	45-49
13.	Collaboration with IIT, Delhi	2021	50-51
14.	Skill Hub Initiative Under PMKVY	2022	52-54

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**Table 2.**

List of activities conducted under each MoU along with dates of starting and completion year-wise signed by both parties.

S.No.	Name of the MoU/ Collaboration/linkage	Year	Page No.
1.	Society of Photo-Optical Instrumentation Engineers (SPIE)	2010 - till date	55-77
2.	Science Setu (Thsti Department of Biotechnology)	2016 – 2019	78-82
3.	Creative Commons Affiliate	2013-2018	83
4.	International Bacteriophage Research Consortium (Open Health System Laboratory, USA)	2018 – till date	85-95
5.	MOU between Auburn University and ANDC	2021-2024	96-97
6.	Collaboration with IIT, Delhi	2021	98-99
7.	Skill Hub Initiative Under PMKVY	2022	100-101

### Additional MoUs:

S.No.	Name of the MoU/ Collaboration/linkage	Year	Page No.
1.	MOU between AIF and JIMS, Kalkaji	2018	102-104
2.	Agreement between AIF and Incubatee Mega App Developers Pvt Ltd	2018	105-109
3.	Agreement between AIF and Incubatee Sponsorchampz Pvt Ltd	2018	110-114
4.	Agreement between AIF and Incubatee Metvy Net Pvt Ltd	2018	115-119

# ACHARYA NARENDRA DEV COLLEGE

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5.	MOU between AIF and JIMS, Kalkaji	2018	120-124
6.	MOU between AIF and NIESBUD, Noida	2018	125-129
7.	Agreement between AIF and Incubatee Techbeliever Technologies Pvt Ltd	2018	130-134
8.	MOU between AIF and Mergerdomo, Noida	2019	135-137
9.	Agreement between AIF and Incubatee Shop Mate Pvt Ltd	2019	138-142

Total No. of Research Linkages	Page No.
55	143-218

Dr. Sada Nand Prasad  
Convenor, NAAC  
Acharya Narendra Dev College

Prof. Ravi Toteja  
Officiating Principal  
Acharya Narendra Dev College

3.5.1. Number of MoUs, collaborations / linkages for Faculty exchange, Student exchange, internship, field trip, on-the-job training, research and other academic activities during the last five years

S. No.	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage	List the actual activities under each MOU and web -links year-wise	Link to the relevant document
<b>2017-18</b>						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	SPIE student members, Adarsh, Prsahant and Chiradeep participated in the 5th Annual Convention organized by Regional	<a href="#">Faculty Advisor: Prof. Amit Garg President: Rohit Saini Vice President: Chiradeep Das Secretary: Ritesh Raj.</a>
2	Science Setu	Thsti Department of Biotechnology	2016	3 Years	1. A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017). 2. Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members. Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.	<a href="https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf</a> <a href="https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf</a>
3	Creative Commons Affiliate	Creative Commons	2013	5 Years	The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.	<a href="https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf</a>
4	Thnk Lab– Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
<b>2018-19</b>						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	2018-2019	“Paradigm Shift in Physics Education through hands-on techniques in OPTICS” was organized in collaboration with “JOY OF LEARNING FOUNDATION, DELHI” on January 24, 2019 by University of Delhi at ANDC SPIE Student Chapter. The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) along with SPIE leadership workshop was held from April 21 to April 26, 2019 in Yokohama, Japan. Two days SPIE Induction Workshop-2018 on September 25-26, 2018 at Acharya Narendra Dev College. Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc(H) Electronics, Part III was awarded Officers’ Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He A two-day workshop on Internet of Things (IOT) was organized by i3india in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. THSTI sponsored the travel allowance of one of our student Ms. Akhila A. of B.Sc. (H) Biomedical Science II Year to attend the Indian International Science Festival, which was organised by the Ministry of Science and Technology, Ministry of Earth Sciences in association with Vijnana Bharati at Indra Gandhi Pratishtan, Lucknow: held from October 5-8, 2018.	<a href="https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf</a> <a href="https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf</a> <a href="https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf">https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf</a>
2	Science Setu	Thsti Department of Biotechnology	2016	3 years	1. Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India in collaboration with National Institute of Plant Genome Research organized an “Open Day @ THSTI” under the India International Science Festival 2018 on September 28, 2018 in the NCR Biotech Science Cluster.	

3	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	Dr. Urmi Bajpai has developed a web portal for "International Bacteriophage Research Consortium (IBRC)" in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.	<a href="https://phage.directory/capsid/first-ibrc-lecture">6 Teachers Dr Urmi Bajpai, Dr Abhishek Mehta, Dr Satendra Singh, Dr Namita Singh, Dr Rimpay Singh, Dr Prashant Pradhan Students: 3 UG (Ritam Das, Komal Kotra, Pulkit Singh, Research scholars: Ms Ritu Arora, Ms Saroj, Bajpai, U. (2019). A new phage consortium hosts its first public lecture. Capsid &amp; Tail, (55). Retrieved from https://phage.directory/capsid/first-ibrc-lecture</a>
4	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	To generate science education resources in Indian languages	
5	Thnk Lab- Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
<b>2019-20</b>						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	2019-2020	<p>ROBOTH'19 workshop mainly focused on the students eager to learn about Embedded Systems using 8051. Two of SPIE members, Mr Hardik Minocha and Mr Prahlad Prajapat attended workshop held on October 4, 2019 at IIT, Delhi.</p> <p>organized in four sessions each day for newly joined students of the college to learn about the activities of the SPIE Society by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20.</p> <p>Optical color mixing workshop cum introductory session with freshers was attended by 110 students. Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building</p> <p>Around 80 students of SPIE student chapter went on an excursion to the Nehru Planetarium. Date/Time/Location: August 29, 2019 from 10-5 pm at Nehru Planetarium, New Delhi</p> <p>14 Students attended a DST (Department of Science &amp; Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and</p> <p>A lab visit was organized at National Physical Laboratory (NPL) and Institute of Genomics and Integrative Biology (IGIB) under CSIR (Council of Scientific and Industrial Research). Students were divided on the basis of their interests and sent to the respective SPIE Chapter organized a talk by Professor Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico on October 15, 2019 at Acharya Narendra Dev College.</p> <p>Two students, Mr Devesh Yadav and Mr Avinash Kumar Lal were sent to attend Maker Faire Hyderabad event held from November 10-12, 2019 at Hyderabad.</p> <p>100 students attended a hands-on workshop on Arduino organized by SPIE in association with Elecbits. Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building</p> <p>SPIE Student Chapter ANDC in collaboration with ANDC InStart Foundation and STEAMEDU organized workshop 'Pyrobot (Code in Python to program EV3 robots)' at ANDC on February 11, 2020.</p> <p>DST (Department of Science &amp; Technology, Government of India) sponsored fourth lecture workshop on transdisciplinary areas of research and teaching was held on September 27 &amp; 28, 2019 at Deen Dayal Upadhyaya College, University of Delhi.</p>	<p>Faculty Advisor: Prof. Amit Garg President: Aman T Vani Vice President: Shruti Yadav Secretary: Prahlad Prajapat Treasurer: Phulender Singh Technical Officer: Yash Varshney Editorial Officer: Anurag Saxena Link for complete list of student members and activities:</p>

2	Science Setu	Thsti Department of Biotechnology	2016	3 Years	The Science Setu program organized a interactive talk session on February 25, 2020 by the scientists from THSTI on the topic "Diagnostics Research". Dr Tarun Kumar Sharma, Senior Research Scientist presented "Innovations in Diagnostics" and Dr	
3	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	OHSL-IBRC colloquium, a public lecture delivered by Prof. Graham Hatfull, Professor in the department of Biological Sciences in the Kenneth P.Dietrich of Arts and Sciences at the University of Pittsburgh, USA on June 17, 2020.	
4	MOU between ANDC and PhiXGen Pvt. Ltd.	PhiXGen Pvt. Ltd.	2019	1 year	To advance research and improve bioinformatic skills	
5	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	-	
6	Thnk Lab- Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
<b>2020-21</b>						
1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	1. Chapter organized another training session. This time it was an online webinar session of 5 days about Hybrid Mobile App Development with Flutter which was conducted from July 13-17, 2020, via Google meet. 2. Conducted a 5-day workshop on on Data Science with Python on March 3, 2021.	<a href="https://www.andcollege.du.ac.in/ar_2021/mobile/">https://www.andcollege.du.ac.in/ar_2021/mobile/</a>
2	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	1. Prof. Yves Briens, Associate Professor at the Department of Biotechnology at Ghent University, Belgium on 'From discovery to 2. Prof. Paul Turner, Rachel Carson Professor of Ecology & Evolutionary Biology & Microbiology, Yale University; Faculty 3. IBRC-Phage Directory webinar series on 'Phage Bioinformatics':1. Dr Deborah Jacobs-Sera, Department of 4. Ms Katelyn McNair, University of California Irvine & San Diego State University, USA.Topic:Phage genome annotation: the right 5. IBRC-Phage Informatics Lecture series by Dr. Jason Gill on April 07, 2021. 6. Phage Bioinformatics Lecture Series Hosted by IBRC Phage directory on March 30, 2021 by Justin Clark.	6 Teachers <u>Dr Urmi Bajpai, Dr Abhishek Mehta, Dr. Satendra Singh, Dr Namita Singh, Dr Rimpay Singh, Dr.</u>
3	Science Setu	Department of Biotechnology	2016	3 Years	-	
4	MOU between ANDC and PhiXGen Pvt. Ltd.	PhiXGen Pvt. Ltd.	2019	1 year	-	
5	MOU between ANDC and The Azim Premji University	The Azim Premji University	2018	till date	-	
6	Thnk Lab- Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
7	National Programme on Technology Enhanced Learning	A Joint venture of Indian Institutes of Technology and Indian Institute of Science	2019	till date	-	
<b>2021-22</b>						
					a. The SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi partnered with Brain Mentors Pvt. Ltd to organize an online workshop (Full Stack Web Development Using Mern) focusing on Web Development using the latest industry-ready tools. On March 05, 2022.	

1	Society of Photo-Optical Instrumentation Engineers (SPIE)	SPIE USA	2010	till date	b. SPIE Student Chapter organized a one-day offline workshop on Holography, conducted by an esteemed faculty Dr Sanjay Kumar on 14th March 2021.	
					c. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College partnered with Touch Techno to bring a fun and informative physical hands-on one day workshop in the college on March 26, 2022.	
					d. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College organised webinar session on Career Opportunities in Public on February 4, 2022.	
2	International Bacteriophage Research Consortium	Open Health System Laboratory, USA	2018	till date	IBRC Symposium : Phage Lysins: Promising alternatives to antibiotics on July 09, 2021.	
3	MOU between Entrepreneurship Cell of Open Learning, University of Delhi and ANDC	Entrepreneurship Cell of Open Learning, University of Delhi	2021	1 Year	-	
4	MOU between Auburn University and ANDC	Auburn University, Montgomery, Alabama, USA	2021	3 years	ANDC signed a MoU with Auburn University at Montgomery, USA. They have organized a webinar on "Setting Up for Success for the Health Professions" on 12/10/2022.	
5	MOU between Monster.com India Private Limited and ANDC	Monster.com India Private Limited	2022	1 Year	employment opportunities and prepare them for the job market.	
6	Science Setu	National Institute of Immunology	2022	3 Years	-	
7	Collaboration with IIT, Delhi	IIT, Delhi	2021	3 months	Organized an online workshop on Initiating Virtual Labs in collaboration with IITD on August 24, 2021.	
8	Skill Hub Initiative Under PMKVY	Skill India	2022	till date	Acharya Narendra Dev Kaushal Kendra, Skill Hub @ ANDC is selected as a Training Provider for the two Courses – 400 hour <del>Work Based Learning Course and 200 hour Theory Based Course</del>	
9	Think Lab – Collaboration with CUBE	Homi Bhabha Centre for Science Education, TIFR, Mumbai	2010	till date	Under the network, students are connected with students, teachers and research scientists across the country and abroad to discuss and seek answers to various research questions.	
10	National Programme on Technology Enhanced Learning	A Joint venture of Indian Institutes of Technology and Indian Institute of Science	2019	till date	-	

# **SPIE 2010 – Till Date**



**SPIE**  
SOCIETY OF PHOTO OPTICAL  
INSTRUMENTATION ENGINEERS

*The Board of Directors of SPIE hereby awards this*

# **Certificate of Recognition**

*to the:*

***Acharya Narendra Dev College Chapter***

***Dr. Amit Garg, Faculty Advisor***

*Established in accordance with SPIE bylaws.*

*Approved August 2010*



**Ralph James**  
**2010 SPIE President**

**Science Setu Thsti  
2016-2019**



## ACHARYA NARENDRA DEV COLLEGE (UNIVERSITY OF DELHI)

Translational Health Science and Technology Institute (THSTI) is an autonomous institution of the Department of Biotechnology (DBT), Ministry of Science and Technology. The institution was established with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. THSTI has an array of niche centers of research in a number of interface areas relevant to human health. It aims to develop an eco-system for training and learning and work with the public sector institution and small and medium enterprises (SME) to translate innovative technologies into medical products for public good.

THSTI has approached Acharya Narendra Dev College vide letter no. Nil dated 13<sup>th</sup> May, 2016 (attached) to participate in the prestigious program **Science Setu** where Indian Scientists are to actively involve themselves in teaching in schools/colleges. Through this program, our college shall participate in the following scientific activities that shall be funded by THSTI:

- i) Lectures/interactive sessions by eminent faculty of the institute.
- ii) Visit of some selected college students to the institute to understand the setting of a research cum academic institution.
- iii) Facilitation of science exhibitions in the college and awarding the best performers.
- iv) Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

The aims/activities proposed under the scheme are in synchrony with the ongoing research and entrepreneurship initiatives in the college. It shall provide an excellent opportunity for students as well as to faculty to improve their scientific skills. The college needs to sign a **Memorandum of Understanding (MoU)** with THSTI in the presence of DBT Secretary on 18<sup>th</sup> July 2016 so as to be part of this **Science Setu** initiative. A draft of the MoU is attached for your kind perusal. You are requested to kindly give permission to the Principal to sign this MoU (attached) on behalf of the college.

Chairperson, Governing Body

Principal 7/16

13<sup>th</sup> May 2016

To,

Dr. Savithri Singh, Principal  
Acharya Narendra Dev College  
University of Delhi  
Govindpuri, Kalkaji  
New Delhi- 19.

**Subject:** Invitation for participation of your College in 'Science Setu' Program being organized at  
THSTI

Dear Dr. Singh,

This letter is being sent as a follow-up of the speech of our Hon'ble Prime Minister of India wherein he had called upon Indian Scientists to actively involve themselves in teaching in schools/colleges. This program is titled as 'Science Setu' program. It has been decided by our Governing Body to enter into a MoU with interested colleges for the fulfillment of the direction of our Hon'ble Prime Minister.

2. The following is a brief of our institution:

i) Translational Health Science and Technology Institute (THSTI), an autonomous institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India, came into existence on 15<sup>th</sup> July 2009, with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. The institution strives to effectively enhance the quality of human life by inculcating a culture of shared excellence through amalgamation of various disciplines. This institution is funded primarily by the Government of India.

ii) THSTI has an array of niche centers of research in a number of interface areas relevant to human health. The **Vaccine and Infectious Disease Research Centre (VIDRC)** is armed with the mission to study infectious diseases and pathogens and understand host-pathogen interactions at the molecular and cellular level with an aim to generate translational knowledge for developing normal novel prophylactic and therapeutic measures against diseases prevalent in India. The primary goal of the **Pediatric Biology Centre (PBC)** is to serve as an interdisciplinary research center where research on the biological basis of childhood health and disease leads to the creation of knowledge-driven interventions and technologies that can be sustainably implemented. The **Centre for Human Microbial Ecology (CHME)** investigates the outstanding association between the microorganisms and the human host and attempts to understand the role and effect of microorganisms in human health and disease. The **Centre for Bio-Design (CBD)** endeavors to transform the field by creating novel medical technology enterprise in India for affordable health care through a bio-design process. The **Drug Discovery Research Centre (DDRC)** works towards integrating basic and translational research in the field of drug discovery with a mission to combine multiple disciplines to generate a

robust and versatile pipeline for drug discovery research. The Policy Centre for Biomedical Research (PCBR) aims to bridge the huge gap that exists between health researchers and those who implement and are impacted by that research by providing technology analysis that could guide strategic planning to ensure the dual goal of meeting the local health needs and global supply of health technologies. Finally, the extramural unit of THSTI in the form of the **Clinical Development Services Agency (CDSA)** is created to facilitate development of affordable healthcare products for public health diseases. Registered as a not-for-profit research organization, it aims to develop an eco-system for training and learning and work with public sector institutions, and small and medium enterprises (SME) to translate innovative technologies into medical products for public good.

3. Under the 'Science Setu' program, following are some of the activities which will be funded by THSTI initially for your college:-

- i) Lectures by eminent faculty of this institute. Please visit our website [www.thsti.res.in](http://www.thsti.res.in) to see the exceptional credentials of our faculty.
- ii) Organizing visit of some selected students of your college to this Institute to understand the setting of a research cum academic institution.
- iii) Facilitating science exhibitions in your college and awarding the best performers. The best entries of your college may qualify for inter-collegiate competition with partner schools/colleges of THSTI which would be held in THSTI.
- iv) Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

4. The above activities are only suggestive and other activities may be considered in consultation with your college authorities. Since, we are planning for a ceremonious signing of MoU with your college on 15<sup>th</sup> July 2016, your reply as to whether your college is interested to partner with THSTI in the 'Science Setu' program may kindly be communicated to the undersigned on or before 30<sup>th</sup> May 2016.

We hope that your institution will be interested in this program for the overall development of your students. We will be glad to meet you on a mutually convenient date, time and venue to discuss more about this program preferably in our campus which is among the greenery of the Aravalli hills. For any clarifications, please contact Mrs. Rajni Verma during office hours at 0129-2876405.

With Best Wishes

Yours Sincerely,



(Prof. Kanury V. S. Rao)  
THSTI- National Chair  
& Coordinator, Science Setu  
E-Mail: [kanury@thsti.res.in](mailto:kanury@thsti.res.in)

13<sup>th</sup> May 2016

To,

Dr. Savithri Singh, Principal  
Acharya Narendra Dev College  
University of Delhi  
Govindpuri, Kalkaji  
New Delhi- 19.

**Subject:** Invitation for participation of your College in 'Science Setu' Program being organized at  
THSTI

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2. The following is a brief of our institution:

i) Translational Health Science and Technology Institute (THSTI), an autonomous institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India, came into existence on 15<sup>th</sup> July 2009, with a mission to integrate the fields of Medicine, Science, Engineering and Technology into translational knowledge and make the resulting biomedical innovations accessible to human health. The institution strives to effectively enhance the quality of human life by inculcating a culture of shared excellence through amalgamation of various disciplines. This institution is funded primarily by the Government of India.

ii) THSTI has an array of niche centers of research in a number of interface areas relevant to human health. The **Vaccine and Infectious Disease Research Centre (VIDRC)** is armed with the mission to study infectious diseases and pathogens and understand host-pathogen interactions at the molecular and cellular level with an aim to generate translational knowledge for developing normal novel prophylactic and therapeutic measures against diseases prevalent in India. The primary goal of the **Pediatric Biology Centre (PBC)** is to serve as an interdisciplinary research center where research on the biological basis of childhood health and disease leads to the creation of knowledge-driven interventions and technologies that can be sustainably implemented. The **Centre for Human Microbial Ecology (CHME)** investigates the outstanding association between the microorganisms and the human host and attempts to understand the role and effect of microorganisms in human health and disease. The **Centre for Bio-Design (CBD)** endeavors to transform the field by creating novel medical technology enterprise in India for affordable health care through a bio-design process. The **Drug Discovery Research Centre (DDRC)** works towards integrating basic and translational research in the field of drug discovery with a mission to combine multiple disciplines to generate a

robust and versatile pipeline for drug discovery research. The **Policy Centre for Biomedical Research (PCBR)** aims to bridge the huge gap that exists between health researchers and those who implement and are impacted by that research by providing technology analysis that could guide strategic planning to ensure the dual goal of meeting the local health needs and global supply of health technologies. Finally, the extramural unit of THSTI in the form of the **Clinical Development Services Agency (CDSA)** is created to facilitate development of affordable healthcare products for public health diseases. Registered as a not-for-profit research organization, it aims to develop an eco-system for training and learning and work with public sector institutions, and small and medium enterprises (SME) to translate innovative technologies into medical products for public good.

3. Under the 'Science Setu' program, following are some of the activities which will be funded by THSTI initially for your college:-

- i) Lectures by eminent faculty of this institute. Please visit our website [www.thsti.res.in](http://www.thsti.res.in) to see the exceptional credentials of our faculty.
- ii) Organizing visit of some selected students of your college to this Institute to understand the setting of a research cum academic institution.
- iii) Facilitating science exhibitions in your college and awarding the best performers. The best entries of your college may qualify for inter-collegiate competition with partner schools/colleges of THSTI which would be held in THSTI.
- iv) Participation in inter-collegiate quiz / seminar competition among the partner schools / colleges of THSTI.

4. The above activities are only suggestive and other activities may be considered in consultation with your college authorities. Since, we are planning for a ceremonious signing of MoU with your college on 15<sup>th</sup> July 2016, your reply as to whether your college is interested to partner with THSTI in the 'Science Setu' program may kindly be communicated to the undersigned on or before 30<sup>th</sup> May 2016.

We hope that your institution will be interested in this program for the overall development of your students. We will be glad to meet you on a mutually convenient date, time and venue to discuss more about this program preferably in our campus which is among the greenery of the Aravalli hills. For any clarifications, please contact Mrs. Rajni Verma during office hours at 0129-2876405.

With Best Wishes

Yours Sincerely,



(Prof. Kanury V. S. Rao)  
THSTI- National Chair  
& Coordinator, Science Setu  
E-Mail: [kanury@thsti.res.in](mailto:kanury@thsti.res.in)

## MEMORANDUM OF UNDERSTANDING FOR IMPLEMENTING THE SCIENCE SETU PROGRAMME IN COLLEGES

This Memorandum of Understanding (MoU) between The TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE (THSTI), and ACHARYA NARENDRA DEV COLLEGE, hereinafter called parties of the first part and second part respectively.

2. WHEREAS THSTI located at NCR-Biotech Science Cluster, 3<sup>rd</sup> milestone, Faridabad-Gurgaon Expressway, Po box no. 04, Faridabad-121001 is an autonomous institute of the Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, registered under the Society Registration Act, 1860;

3. WHEREAS, ACHARYA NARENDRA DEV COLLEGE is located at GOVINDPURI, KALKAJI, NEW DELHI 110019;

4. WHEREAS, The *Science Setu* Programme approved by the Governing Body of the THSTI aims to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option,

5. WHEREAS, both parties of the first- and second part wish to come together in synergistic partnership to implement the above-said *Science Setu* Programme, this Memorandum of Understanding is being executed to clarify the intent and purpose and mode of implementation of the programme.

6. Now, the parties of this MoU mutually declare and agree to the following:

6.1 Name

The name of the programme will be **THSTI-ACHARYA NARENDRA DEV COLLEGE  
*Science Setu* Programme**

6.2 Goal

To contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option.

6.3 Objectives

- a) To address the changing needs of teaching, learning and research in biological sciences
- b) To link the Translational Health Science and Technology Institute (THSTI) in the spirit of "success through access" to undergraduate teaching in biological sciences
- c) To engage a talent pool of potential biology students in the delivery of innovation, research and continuous development
- d) To act, through all the above, as a catalyst of change

6.4 Mode of Implementation

- a) THSTI and ACHARYA NARENDRA DEV COLLEGE commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.
- b) Engagement with the ACHARYA NARENDRA DEV COLLEGE by THSTI would be on-site, and/or through *e-learning* approaches depending on feasibility.
- c) This commitment shall be treated as a national service intrinsic to the mandate of THSTI, and ACHARYA NARENDRA DEV COLLEGE and shall neither involve

remuneration/honoraria in any form, nor be treated as a cause for modification of any current institutional goals.

- d) Adequate flexibility would be built in to ensure that the programme adds value to undergraduate education
- e) The level of engagement and the best time to commence the same will be decided through mutual consultation.
- f) Programme of engagement could include one or more of the following depending on specific need and feasibility:
  - (i) Lectures/discussion
  - (ii) Laboratory exercises
  - (iii) Mentorship to student science projects
  - (iv) Mentorship to teacher science projects
  - (v) 'College Teacher Forums' to discuss broad issues on latest developments in science, career opportunities, innovative methodologies in teaching/research, science & technology policy issues, and other related areas.
  - (vi) Summer student/teacher internships
  - (vii) Any other as mutually agreed

#### 6.5 Role and Responsibilities of THSTI

- a) THSTI commits to designate a mutually agreed number of its scientists/faculty members toward this programme for at least 12 hours of engagements per year.
- b) This may be distributed flexibly by the designated scientist within each centre of THSTI.
- c) THSTI will take care of the logistics of conveyance of the scientist(s) to and from the College, whenever the interaction is on site or outside THSTI.
- d) Depending on feasibility, THSTI would make appropriate arrangements in consultation with ACHARYA NARENDRA DEV COLLEGE for e-learning at its end.
- e) Depending on feasibility, THSTI will also facilitate interaction on its premises.

#### 6.6 Role and Responsibilities of ACHARYA NARENDRA DEV COLLEGE

- a) ACHARYA NARENDRA DEV COLLEGE commits to receive and appropriately facilitate the interaction between the designated THSTI faculty / scientist (s), and its teachers/students so as to fulfil the goal and objectives of the programme.
- b) It will designate a nodal person to interact with the THSTI scientist (s).
- c) It will take care of the logistics of conveyance of its teachers/students whenever the interaction is outside its premises
- d) Depending on feasibility, ACHARYA NARENDRA DEV COLLEGE would make appropriate arrangements in consultation with THSTI for e-learning at its end.

#### 6.7 Budget for the Programme

The programme will be accommodated within the annual budget of each party.

#### 6.8 Programme Review

The Governing Body of THSTI shall review the programme for implementation at the end of one year for implementation and three years for performance.

#### 6.9 Termination

Either party to this MoU has the right to terminate the MoU upon serving a written notice of 30 days to the other party should the other party commit a breach of any of the provisions of this MoU.

6.10 Interpretation and Dispute Resolution

- a) If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.
- b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Executive Director, THSTI as a sole arbiter, whose decision will be binding on both the parties.

7. This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.

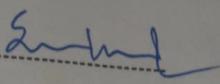
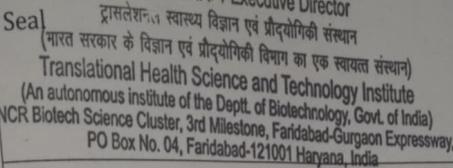
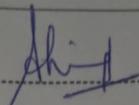
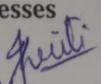
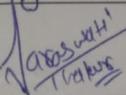
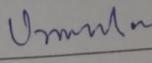
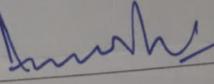
IN WITNESS WHEREOF THE PARTIES HERETO HAVE EXECUTED THIS MoU ON MONDAY, 18<sup>th</sup>, JULY 2016.

Signed----- For and on behalf of Translational Health Science and Technology Institute  Seal	Signed----- For and on behalf of ACHARYA NARENDRA DEV COLLEGE  Seal
<b>Witnesses</b>  1.  2.	<b>Witnesses</b>  1.  2.

b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Executive Director, THSTI as a sole arbiter, whose decision will be binding on both the parties.

7. This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE EXECUTED THIS MoU ON 18 (DAY), July (MONTH) 2016.

<p>Signed----- </p> <p>For and on behalf of Translational Health Science and Technology Institute कार्यकारी निदेशक / Executive Director Seal  द्रासलेक्षण-11 स्वास्थ्य विज्ञान एवं प्रौद्योगिकी संस्थान (भारत सरकार के विज्ञान एवं प्रौद्योगिकी विभाग का एक स्वायत्त संस्थान) Translational Health Science and Technology Institute (An autonomous institute of the Deptt. of Biotechnology, Govt. of India) NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway, PO Box No. 04, Faridabad-121001 Haryana, India</p>	<p>Signed----- </p> <p>For and on behalf of Acharya Narendra Dev College Seal  <b>Principal</b> Acharya Narendra Dev College (University of Delhi) Govindpuri, Kalkaji New Delhi-110019</p>
<p>Witnesses</p> <p>1.  (KRITI KOHLI)</p> <p>2.  (Ms. Saraswati Thakur)</p>	<p>Witnesses</p> <p>1.  Dr. Umi Bopra</p> <p>2.  (Dr. Amit Kaur)</p>

**Creative Commons  
Affiliate 2013-2018**



6 May 2018

Sarita Kumar  
Acharya Narendra Dev College, University of Delhi

*Re: Institutional Membership in the Creative Commons Global Network ("CCGN")*

Dear Sarita Kumar,

This letter confirms that your institution's application for membership in the CCGN has been approved. This letter is subject to your agreement with the terms and conditions of this letter. Please review carefully and return a countersigned copy to [legal@creativecommons.org](mailto:legal@creativecommons.org).

1. In light of the new structure of the Creative Commons Global Network, the Memorandum of Understanding dated 30 April 2013 between Creative Commons and Acharya Narendra Dev College, University of Delhi was terminated by CC as of 13 April 2018.
2. You confirm that Acharya Narendra Dev College, University of Delhi has not registered any trademarks incorporating the CC name, the double-c in a circle, or other trademarks of CC. Any ongoing use of Creative Commons trademarks in connection with your membership is governed by our trademark policy (<https://www.creativecommons.org/policies>).
3. You represent and warrant that you are an authorized representative of Acharya Narendra Dev College, University of Delhi and have all power and authority necessary to enter into this agreement on its behalf. By signing below, Acharya Narendra Dev College, University of Delhi's agrees to the CCGN Charter at [https://creativecommons.org/wp-content/uploads/2017/11/Global\\_Network\\_Membership\\_Charter.pdf](https://creativecommons.org/wp-content/uploads/2017/11/Global_Network_Membership_Charter.pdf) and is bound by its terms.

Please sign below to indicate Acharya Narendra Dev College, University of Delhi's agreement with the foregoing. Once returned, your Institutional Membership in the CCGN will become effective. Congratulations!

Very truly yours,



keybase.io/peterspdx  FC74 A941 A2FF 18B4

---

Diane M. Peters, General Counsel

SO ACKNOWLEDGED, ACCEPTED, AND AGREED

Acharya Narendra Dev College, University of Delhi



---

By: Sarita Kumar

Title: **Acharya Narendra Dev College**  
**(University of Delhi)**

Date: 6 May 2018 **Gobindpuri, Kalkaji**  
**New Delhi-110019**

**Th!nk                      Lab–  
Collaboration            with  
CUBE 2010-Till Date**



A metaStudio.org Initiative 

## COLLABORATIVELY UNDERSTANDING BIOLOGY EDUCATION (CUBE)

### CUBE Regional Resource Centre Award

CUBE Regional Resource Centre Award 2020 is conferred on the following CUBE Hubs for catering to Nodal Centres:

**Sree Narayana College, Nattika, Thrissur, Kerala**  
**Acharya Narendra Dev College, Govindpuri, New Delhi**

A handwritten signature in black ink, appearing to read 'M. C. Arunan'.

Prof. M. C. Arunan  
Coordinator, CUBE

A handwritten signature in black ink, appearing to read 'G. Nagarjuna G.'.

Prof. Nagarjuna G.  
Coordinator, metaStudio

Homi Bhabha Centre for Science Education  
Tata Institute of Fundamental Research

**International  
Bacteriophage  
Research  
Consortium  
2018-Till Date**



Open Health Systems Laboratory, San  
Jose, CA; Baltimore Maryland, USA  
[www.ohsl.us](http://www.ohsl.us)

Acharya Narendra Dev College  
(University of Delhi) Govindpuri,  
New Delhi, India  
<http://andcollege.du.ac.in>

### **Memorandum of Understanding**

Memorandum of Understanding between Acharya Narendra Dev College, University of Delhi (ANDC-DU), in the Republic of India and Open Health Systems Laboratory (OHSL), a social benefit corporation established under the laws of the State of California in the United States of America, covers primarily their collaboration to establish an International Bacteriophage Research Consortium (IBRC) and pursue further research.

The pioneering work of the Antimycobacterial Drug Discovery Laboratory of Dr. Urmi Bajpai of the Department of Biomedical Science provides the base for collaboration between the ANDC-DU and OHSL.

ANDC is a constituent college of University of Delhi, located in Govindpuri, New Delhi-19, India. OHSL has its offices in Silicon Valley (152 North Third Street, Suite 800, San Jose, CA 95112) and research facility in the University of Maryland BioPark, Lion Brother Building, 875 Hollins Street, Baltimore, Maryland 21201).

ANDC-DU and OHSL have already created a web portal for International Bacteriophage Research Consortium (IBRC) with the URL <http://bacteriophage.ohsl.us> and are pursuing with biomedical collaborations with several research institutes in India and abroad for their participation in a global research network. The collaborations will define the roadmap for research and scientific publications.

Further, ICTBioMed: International Consortium for Technology in Biomedicine (<https://nciphub.org/groups/ictbiomed>) led by OHSL, will provide the bioinformatics platform for bacteriophage research and analysis worldwide.

Working together ANDC-DU and OHSL will be developing funding proposals to support and equip research and research facilities at the Drug Discovery Laboratory of the Department of Biomedical Science and complementary facilities at the international research centre of Open

continued...

Health Systems Laboratory which will be established in Jhajjar, Haryana, in the Indian Institute of Technology Delhi Biotechnology Park alongside All India Institute of Medical Sciences National Cancer Institute. OHSL has existing research collaboration with both these institutes. The Drug Discovery Laboratory will include antimicrobial drug discovery research.

Signed this 2018 in Delhi on behalf of

**Acharya Narendra Dev College,  
University of Delhi**

**Open Health Systems Laboratory,  
USA**

Ravi Toteja, PhD



Officiating Principal  
Acting Principal  
Acharya Narendra Dev College  
(University of Delhi)  
Govindpuri, Kalkaji  
New Delhi-110019

Koninika Ray, PhD



**Director, Biomedical Research, OHSL**

Koninika Ray, Ph D.

Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9958284900

**MOU between  
ANDC and The Azim  
Premji University  
2018-Till Date**

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered into on this 26<sup>th</sup> Day of July Two Thousand and Eighteen between

Azim Premji University, a private University established under The Azim Premji University Act, 2010 (Karnataka Act No. 14 of 2010) with its principal place of operations at Pixel Park, B Block PES Institute of Engineering Campus, Electronics City, Hosur Road (Behind NICE Road) Bangalore - 560 100; and a division of Azim Premji Foundation for Development, a section 25 company registered under the companies act, 1956 and having its registered office at #134, Doddakanelli, Next to Wipro Corporate Office, Sarjapura Road, Bangalore- 560035, hereinafter referred to as "University" (which expression shall, unless repugnant to the context, include its successors in interest, administrators and assigns) of the One Part;

And Acharya Narendra Dev College (ANDC) (hereinafter referred to as "College") with its principal place of operations at Govindpuri, Kalkaji, New Delhi-110019 of the other Part.

And Whereas University and College shall be referred to individually as "Party" and jointly as "Parties".

### 1. SCOPE

- a. University is interested in generating science education resources in Indian languages. College is interested in expansion of sciences, mathematics and their education in general. Both Parties admit students to their undergraduate science programs many of whom are making a transition from education in their own languages to English as a medium of instruction. These interests provide a common ground for collaboration.
- b. Both Parties welcome collaboration between their members including faculty and students on projects related to resource generation for science and mathematics pedagogy.
- c. Parties will provide whatever facilities are possible to facilitate the collaborative projects from time to time.



- d. The individuals participating in the collaborative projects as well as work for the common goals of the organizations can receive remuneration for their work from either Party on individual basis.
- e. The modalities of these projects and their specific nature and details would be discussed and specific agreements about their functioning agreed to as and when the occasions arise.

## 2. TERM AND TERMINATION

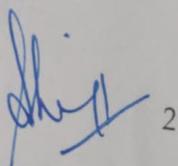
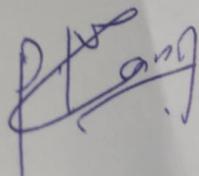
- a. This MOU shall commence from 1<sup>st</sup> August 2018 ("Effective Date") and shall remain effective till 31<sup>st</sup> July, 2023. The MOU maybe further extended based on mutual agreement
- b. Either Party may terminate this MOU for convenience by giving (thirty) 30 days' notice to the other of its intention to do so.

## 3. CONFIDENTIALITY

- a. Either Party shall hold in confidence all confidential information obtained, received from the other and shall not disclose the same to any third Party without prior written consent of the other, during the term of this MOU and for a period of 5 years from the date of termination of this MOU. Further, unless prior written consent of the either Party is obtained, the other Party shall not use the above mentioned information for any purpose other than the purpose contemplated under this MOU.
- b. "Confidential information" means all information, marked, designated as such by either Party in writing together with all such information which relates to the business affairs, products, developments, trade secrets, know-how, personnel, customers and suppliers of either Party, or which may be reasonably regarded as the Confidential Information of the disclosing Party. This Clause shall survive the expiration or termination of this MOU.

## 4. INTELLECTUAL PROPERTY

- a. Any material developed under the MOU would be subject to the copyright rules applicable to the material and both parties are responsible to follow it in letter and spirit. The name of the author/translator and of both the institutions will be acknowledged in the materials generated. It shall be a binding on both the parties under this MOU to follow the terms agreed to in the development of the materials, and if there are more conditions imposed by the copyright law.

 2

a. **If to University:** Azim Premji University, # 134, Doddakannelli, Next to Wipro Corporate Office, Sarjapura Road, Bangalore- 560 035

b. **If to College:** Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi-110019

b. *Applicable Law.* This MOU shall be governed by the Laws in India and each of the Parties submit to the jurisdiction of the courts of Bangalore.

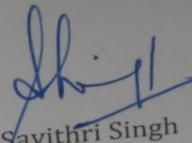
**IN WITNESS WHEREOF** the Parties hereto have duly caused these presents to the executed on the day, month and year first above written.

By:



Name: Manoj P  
Registrar,  
Azim Premji University,  
Date:

By:



Name: Savithri Singh  
Principal,  
Acharya Narendra Dev College,  
Date:

**MOU                      between  
ANDC and PhiXGen  
Pvt. Ltd. 2019 (For  
one Year)**



## MEMORANDUM OF UNDERSTANDING Between

Acharya Narendra Dev College, University of Delhi  
Govindpuri, Kalkaji - 110019



And

**PhiXgen Pvt. Ltd.**

(FLAT NO. 101, Sector 47, GH-11 ATLANTIS CGHS LTD. GURUGRAM Gurgaon HR IN 122001)

### Background

#### I. About PhiXGen Pvt. Ltd.

PhiXGen is committed to delivering quality services with unmatched quality. It was established on January 30, 2018. The major focus of the firm is to work towards innovation, development, deployment, and commercialization of products and services. The work mandate includes providing technical services to beginners who are facing difficulties in their projects. This primarily includes support for Next Generation Sequencing projects for Genomics, Transcriptomics and Proteomics studies. We purpose to serve various national and international government and private sector agencies like industries/universities/colleges/autonomous body/Department etc. The wide scope of the firm also includes the onsite/offsite/online training courses for graduates/post-graduates and corporates professionals.

#### II. About Acharya Narendra Dev College (ANDC)

Acharya Narendra Dev College was established in 1991 as a constituent college of University of Delhi and is fully funded by Government of NCT, Delhi. The college is named after the great educationist and reformist of modern India, Acharya Narendra Deva. Over the years, the college has acquired reputation for the quality of education imparted to the students, the discipline and dedication of the students and the faculty, the exposure and opportunities available for overall development of both faculty and students and the sense of social responsibility within its walls. Extra curricular activities like sports, theatre, debates, music, eco-club, NSS etc engage students when they are not in class. To create an education and research-oriented hub of eminence in India with international standards. We envisage proffering quality education to our students while emboldening them with diverse exposure and hands-on research. We adhere to the ideology of 'Preparing for the future' by exploring and innovating 'Beyond the classroom'

### Mission

1. Empower students by giving them exposure to cutting-edge areas of education and research by promoting inter-disciplinary studies and learning beyond the shackles of textbook knowledge.
2. To impart functional knowledge which not only motivates students towards academic excellence but also preparing them for giving back to society in economic, social, cultural and intellectual dimensions.
3. To generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued both for their ability to work in collaborative spaces using their specialized knowledge, and for their ability to pursue research, communicate and solve real-life problems.
4. To remain competitive and relevant in international sense by offering high quality academic programmes and research activities focusing on niche areas.
5. Encourage skilled manpower training by producing more high quality researchers, entrepreneurs and graduates to ensure that country reaps the returns from its investments in higher education and in turn help economic growth of the country.

### III. Joint Activities

PhiXGen Pvt. Ltd. and ANDC will work together to explore activities of mutual interest that endeavour to advance research and improving bioinformatic skills and its responsible application worldwide. Specific activities will be outlined in a separate PhiXGen-ANDC Work plan for individual events.

### IV. Funding

PhiXGen Pvt. Ltd. and ANDC acknowledge that this MOU is a reflection of the goodwill and mutual interest that exist between the two partners. It represents the desire to develop and expand collaborative activities. **No financial commitment is implied by this MOU.** Each individual activity initiated as outcome of this MOU will specify the roles and responsibilities of each society, the duration of the activity, and the source of funding.

### V. Effective Date and Duration

This agreement will take effect upon its signing by the representatives/authorised signatory of **PhiXGen Pvt. Ltd. and ANDC** and shall remain in effect for a period of one year.

**IN WITNESS WHEREOF PARTIES UNDERSIGNED HAVE ENTERED INTO THIS AGREEMENT WITH EFFECT FROM 01/10/2019.**

For PhiXGen Pvt. Ltd.

*Rup Lal*  
Prof. Rup Lal 01/10/2019  
Managing Director

*Vipin Gupta*  
11/10/19  
Dr. Vipin Gupta  
Director

*Utkarsh Sood*  
01/10/19  
Dr. Utkarsh Sood  
Director

For Acharya Narendra Dev College

*Ravi Toteja*  
01/10/19  
Dr. Ravi Toteja  
Acting Principal

*Yasheshwar*  
01/10/2019  
Dr. Yasheshwar  
Coordinator, IQAC

*Seema Makhija*  
11/10/19  
Dr. Seema Makhija  
Coordinator



**National Programme  
on Technology  
Enhanced Learning  
(2019-Till Date)**



2019-10-03

To  
The Principal  
ACHARYA NARENDRA DEV COLLEGE, UNIVERSITY OF DELHI  
GOVINDPURI, KALKAJI, NEW DELHI-110019

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

**Name of SPOC: DR. GAGAN DHAWAN**  
**Designation: ASSOCIATE PROFESSOR**  
**Department: BIOMEDICAL SCIENCE**  
**Contact No(s): 9891086006**  
**E-mail id: gagandhawan@ande.du.ac.in**

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (<http://archive.nptel.ac.in/LocalChapter>)

Thanking you.

Sincerely

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT MADRAS

**MOU between  
Entrepreneurship  
Cell of Open  
Learning, University  
of Delhi and ANDC  
2021 (For one Year)**



# ACHARYA NARENDRA DEV COLLEGE

*Preparing for the future...*

## आचार्य नरेंद्र देव कॉलेज

तैयारी भविष्य की...

University of Delhi दिल्ली विश्वविद्यालय | NAAC accredited: A Grade एन.ए. ए.सी मान्यता प्राप्त: 'ए' ग्रेड

Ref./ संदर्भ: ANDC

Dated/ दिनांक:

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding has been made and executed at Delhi on September 09, 2021

BETWEEN

Entrepreneurship Cell School of Open Learning (herein after referred to as "Entrepreneurship Cell, School Of Open Learning , University Of Delhi"), University of Delhi, represented by Mr. Anurag Mittal, engaged in facilitating Skill Development and Entrepreneurship ecosystem through different interventions of training, research, mentoring, business and career coaching, vocational programs etc. with its campus at 1<sup>st</sup> Floor, School of Open Learning, 5 Cavalry Lines, University of Delhi-110007, North Campus for cooperation on providing Entrepreneurial services through Entrepreneurship Cell (hereafter called the Party of the First Part or the First Party);

AND

Acharya Narendra Dev College, University Of Delhi represented by Prof. Ravi Toteja (hereinafter referred to as "ANDC", which expression shall, unless it be repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) of the Second Part; (thereafter called the Party of the Second Part or the Second Party) having its registered office at Govindpuri, Kalkaji, New Delhi- 110019.

**Anurag Mittal**  
Incharge - E Cell SOL DU  
Entrepreneurship Facilitation Center  
Room no.118, 1st Floor, 5 Cavalry Lines  
North Campus, University of Delhi - 110007

Address: Govindpuri, Kalkaji, New Delhi 110019 URL: <http://andcollege.du.ac.in>

पता : गोविंदपुरी कालकाजी नई दिल्ली 110019 | E-mail: principal@andcollege.du.ac.in

## 1. AGREEMENT

The present agreement supersedes all prior understandings, communications and representations concerning the subject matter between the Parties.

## 2. LEGAL STATUS OF THE PARTIES

- 2.1. The School of Open Learning a part of the Campus of Open Learning] formerly known as The School of Correspondence Courses and Continuing Education, established under the University of Delhi in 1962, is a pioneer Institution in the field of Distance Education in India. In December 2018 to facilitate Skill Development and Entrepreneurship amongst Youth, SOL has set up Department of Entrepreneurship Cell at SOL, North Campus, University of Delhi.
- 2.2 Acharya Narendra Dev College was established in 1991 as a constituent college of the University of Delhi. College believes in unfolding the enormous potentialities of the students, empowering them to meet the future challenges and promoting education beyond the classroom wherein innovative teaching methods become harbingers of quality education. Within this short span of journey, the college has received one of the best infrastructures, a NAAC score of 3.31 and 18th NIRF-2020 ranking. The college works on the ideology that education is the most powerful weapon which you can use to change the world.
- 2.3 ANDC which offers skill-oriented Certificate Courses to their students to achieve vocational qualifications besides their Undergraduate degree courses. In this regard "ANDC" desires to offer the Certificate Programme in Entrepreneurship and Start-Up for duration of 6 months under UGC scheme of 'National Skills Qualifications Framework' (NSQF) to their students for 30 credits after 10+2.
- 2.4. Nothing contained in or relating to this Agreement will be construed to create a legal relationship between the Parties, and the officials, representatives, employees, or sub-contractors of either Party will not be considered in any respect as being the employees or agents of the other Party.

**Anurag Mittal**  
Incharge - E Cell SOL DU.  
Entrepreneurship Facilitation Center  
Room no.118, 1st Floor, 5 Cavalry lines  
North Campus, University of Delhi



3. WHEREAS, the First Party will provide ANDC and incubatee companies under incubation at ANDC with

3.1. Assistance in facilitating and availing of Entrepreneurship schemes by Central and various State governments, International Development Institutions by existing and potential entrepreneurs, including students, alumni, faculty, staff and general public.

3.2. Any other schemes or programmes mutually agreed from time to time.

3.3 Engaging expert/trainer from the industry partners as per UGC guidelines of contractual appointments.

3.4 The workshops and field visits may be organized in collaboration with the industry partner.

4. Entrepreneurship Cell, School Of Open Learning, University Of Delhi will nominate its Nodal Officer for implementation of providing Entrepreneurship

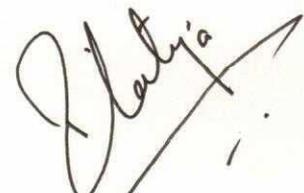
5. The Second Party shall provide Entrepreneurship Cell, School Of Open Learning , University of Delhi with:

5.1. ANDC will provide Honorarium per UGC guidelines and Training Infrastructure and other assistance to Entrepreneurship Cell, School Of Open Learning, University Of Delhi for implementation of the Scope of work as mutually agreed in alignment with Para Nos.2&3 above as per UGC norms.

5.2. Necessary infrastructure / facilities at its premises to enable Entrepreneurship Cell, School Of Open Learning , University Of Delhi to provide knowledge and support to start-ups/ existing and new entrepreneurs and incubatee projects under ANDC

6. The terms of provisions of this MOU may be modified, amended, supplemented, waived, or discharged only in writing signed by the parties hereto.

Anurag Mittal  
Incharge - E Cell SOL DU.  
Entrepreneurship Facilitation Center  
Room no.118, 1st Floor, 5 Cavalry Lines  
North Campus, University of Delhi - 110007



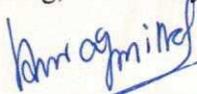
7. The MoU will be valid for a period of one year from the effective date. It can be terminated by one month's notice in writing from either of the parties.

8. All the remittances / payments for out of pocket expenses, honorarium will be made by ANDC after receiving relevant invoices from Entrepreneurship Cell, School Of Open Learning , University Of Delhi on the services rendered by E Cell SOL DU, and such payments will be made within 15 days of receiving the invoices.

9. In case of any dispute, this MoU shall be under jurisdiction of Delhi Mediation and Conciliation Rules 2004.

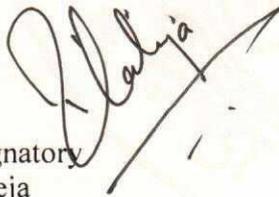
Signed at Delhi by:

For Entrepreneurship Cell School of Open Learning, University Of Delhi (Entrepreneurship Cell, School Of Open Learning, University Of Delhi)



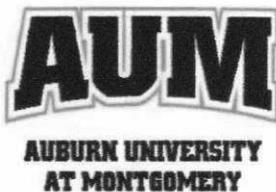
**Anurag Mittal**  
**Incharge - E Cell SOL DU**  
**Entrepreneurship Facilitation Center**  
**Room no.118, 1st Floor, 5 Cavalry Lines**  
**North Campus, University of Delhi - 110007**

Mr. Anurag Mittal  
Incharge Entrepreneurship Cell  
School of Open Learning, University of Delhi, MHRD Govt of India  
For Sri Aurobindo College (SAC)



Authorised Signatory  
Prof. Ravi Toteja  
Principal  
Acharya Narendra Dev College

**MOU                      between  
Auburn              University  
and ANDC 2021 (For  
3 Years)**



## MEMORANDUM OF UNDERSTANDING ON ACADEMIC CO-OPERATION

Between

**Auburn University at Montgomery**



And

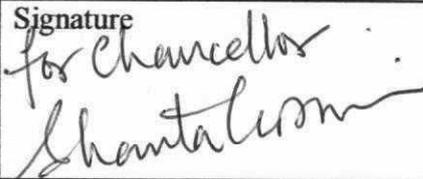
**Acharya Narendra Dev College, University of Delhi,  
New Delhi, India**

Auburn University of Montgomery, Alabama, USA and Acharya Narendra Dev College (ANDC), University of Delhi, Govindpuri, Kalkaji, New Delhi, 110019, India recognising the benefits to their respective institutions desire to form a Memorandum of Understanding (MoU) to promote friendship and to co-operate in a mutually beneficial association, have agreed that:

- 1 The two institutions shall develop academic and educational partnership to enhance student & faculty learning opportunities between them.
- 2 This MoU signifies a statement of Intent to collaborate but is not a legally binding document.
- 3 The two institutions agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.
- 4 Cooperative exchange programs between the two universities shall cover the following:
  - Promoting student exchange at all levels of study
  - Academic articulation agreements for different programs
  - Encourage international credit transfer and progression arrangements
  - Exchange of research and academic materials that are of mutual interest
  - Collaborative and foster research activities and projects
  - Exchange of teaching expertise
  - Develop e-learning training and application of distance-learning technologies
  - Short duration student exchange and study abroad programs
  - Develop collaborative lectures series, conference and workshops and joint events on mutually agreed topics
  - Cultural immersion programs
  - Any other co-operation in areas of mutual interest.
- 5 The development and implementation of specific activities based on this MoU will be separately negotiated and agreed between the two institutions, which carry out the specific projects. Both institutions agree to carry out these activities in accordance with the laws and regulations of the respective countries after full consultation and approval.
- 6 ANDC & AUM recognize the value of this Memorandum of Understanding to each other in promoting their programmes and activities, but any promotional material / activity which includes reference to concerned countries must be sent to and be approved by the person authorized by both the Institutions before use and print.

- 7 It is understood that the implementation of any of the types of co-operation stated shall depend upon the availability of resources and financial support at the institutions concerned.
- 8 Should the collaborative research activities under the MoU result in any potential for intellectual property, both institutions shall seek an equitable and fair understanding as to ownership and other property interests that may arise.
- 9 This MoU may be amended or modified by a written agreement signed by the representatives of both institutions.
- 10 The MoU will be for 3 years in the first instance and will be reviewed thereafter. Each party has the right to discontinue the arrangement subject to a period of 12 months' notice being given. The Understanding may also be terminated at any time by mutual consent of all the parties.
- 11 In any case of discontinuance, the parties will honor agreed commitments either via the accepted arrangement or suitable alternative negotiated at that point.
- 12 The Memorandum of Understanding is to take effect from the date that both institutions sign the agreement.

**Signatures to the Understanding**

For: Auburn University at Montgomery, Alabama, USA	For: Acharya Narendra Dev College, University of Delhi, Delhi, India
Signature 	Signature 
Name: Dr. Carl A. Stockton	Name: Prof. (Dr.) Ravi Toteja
Designation: Chancellor	Designation: Officiating Principal
Date: 6 December, 2021	Date: 6 December, 2021

कार्यवाहक प्राचार्य / Officiating Principal  
आचार्य नरेन्द्र देव कॉलेज / Acharya Narendra Dev College  
(दिल्ली विश्वविद्यालय) / (University of Delhi)  
गोविंदपुरी, कालकाजी, नई दिल्ली-110019  
Govindpuri, Kalkaji, New Delhi-110019

**MOU between  
Monster.com India  
Private Limited and  
ANDC 2022 (For one  
Years)**

## Memorandum of Understanding

This MEMORANDUM OF UNDERSTANDING, herein after referred to as "MOU" is a mutual understanding made at Delhi on the 3.02.2022 by and between Monster.com India Private Limited, a company incorporated under the Indian Companies Act, 1956, having its registered office at 7-1-79,79/5,6,7 & 7-1-80, 1st Floor, Capital Building, Ameerpet, Hyderabad-500016, Telangana, India (hereinafter referred to as 'Monster', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and assigns) of the FIRST PART;

AND

Acharya Narendra Dev College organized under the Indian Laws having its principal place of business Govindpuri, Kalkaji, Delhi represented by Prof. Ravi Toteja its authorized signatory (hereinafter referred to as 'Institute', which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART. (Monster and Institute are hereinafter collectively referred to as "the Parties" and severally as "Party")

WHEREAS Monster is inter alia in the business of e-recruitment solutions and is responsible for the functioning of its websites www.monsterindia.com and Monster First Job webpage and Institute is in the business of 'Education Provider' and is desirous of taking service from Monster as described hereunder to facilitate Monster's online recruitment solution for opportunity to registered users ("users") at Monster First Job Program, on the terms agreed and contained herein;

NOW, it is agreed between the parties hereto as follows:

### 1. Responsibilities of Monster

Monster shall provide to Institute post 60% registration of total student strength:

- (a) Recruiter attention on the Monster website to students registering on Monster India portal.
- (b) Invitation to 'Open to all' Virtual Career Fairs (VCF), Webinars, and any other events organized by Monster India
- (c) Internship/ Live Projects/ Final placement opportunities from and at Monster India portal
- (d) Fresher job alert mailers to registered students throughout the process
- (e) Launch, manage and promote the College Ambassador programme
- (f) Webinar of 1.5 hours on one topic related to 'Becoming Corporate Job ready' by Industry Experts
- (g) Discounted paid career services, assessment tests and external training, if any, as per college requirement will be charged on mutually agreed rates as per the deal under Monster First Job Program
- (h) Institute shall provide the details of its authorised representative ("SPOC"/"TPO") to Monster for the Service operation. Monster will provide the details to SPOC after execution of this Agreement. SPOC shall be responsible for providing the Institute's Candidates / Students information to Monster.
- (i) The Service provided for the period mentioned above is currently without any financial consideration to the Institute except for a paid career services and other paid services as per sub para g) above.

Any additional services involving financial consideration during the above period shall be undertaken with mutual consent of both parties. The Institute has the sole responsibility to obtain

**a. Monster's Obligation:**

- (a) To assist Institute for online recruitment solution of registered users along with any required training session as per Service subscribed. Enhance visibility of the Institute as a brand on Monster platform and marketing communication including online display of Institute's profile to attract companies, as may be feasible; and providing access to its website as stated above and other Monster websites as per between the Parties.
- b) Monster will provide a unique link to Institute for registration of its students on Monster portal. The tracking will happen through this link. Registered students need to complete their profile by regularly updating all relevant details (i.e. Upload Resume, Educational Qualifications, Skills etc.) required during the registration process to enhance visibility on the Monster portal and among recruiters.
- c) Monster will provide communication to Institute for circulation among registered users to create awareness and prevent fraudulent calls/ emails from any third party. Monster does not charge candidates in cash or kind for job placements, attending Virtual Career Fair, Webinars or arranging job interviews. Monster will not be responsible for any monetary transactions done by the students to recruiters to get placement. The Institute is responsible to communicate the provisions of this sub clause to its students to avoid any online fraud to its students.
- d) Provide informative articles and content delivered through platform and to improve chances of user's employability.
- e) Monster does not guarantee or offer any warranty for any response from any employer or recruitment consultants to Institute after the Services commenced by Monster under this Agreement. Monster neither guarantees nor offers any warranty about the credentials of the prospective employer/organisation, which would receive the information and subsequently contact the Institute and/or candidates. Monster reserves its right to reject any insertion or information/data provided by the Institute in the Monster First Job webpage without assigning any reason, Breach any provision of this Agreement by the Institute may lead to discontinuance of subscribed service by Monster and /or pursue all other available remedies under applicable laws.

**2. Institute's Obligation:**

- a. Institute shall provide Monster the name of its authorized representative (SPOC) who shall serve as single point of contact with Monster and ensure submission of Candidates / users' data within the agreed timelines.
- b. Verification of the users' data by SPOC of Institute. Users' data shall include name, education qualification, branch, year and contact details. Inability of Institute to register and verify the users' data shall not entitle the users in availing the services under this Agreement. Institute shall be solely responsible for the submission of any wrong, incomplete or incorrect users' data or profile in the Monster India portal/Monster First Job webpage and the authorized representative of Institute shall be responsible for incorporating the users' data on the Monster website and make changes from time to time in the event of any change in the users data and profile
- c. The Institute shall be responsible for appropriate use of the Services subscribed under this Agreement

- d. Institute shall be solely responsible for the Monster First Job Program Services appropriated by it under this Agreement to users and / or candidates. Institute further undertakes that the Services subscribed by it under this Agreement is solely for the purpose of its proper appropriation to the users and/or candidates and not for its commercial use / purpose.
- e. By posting user data ("User Content") to any Monster Site, User / Candidate and Institute automatically grant, and represent and warrant that they have the right to grant, to Monster an irrevocable, perpetual, non-exclusive, fully paid, worldwide license to use, copy, perform, display, and distribute such User Content and to prepare derivative works of, or incorporate into other works, such User Content, and to grant and authorize sublicenses thereof.
- f. No unauthorised / fraudulent use of user content: Institute shall ensure the usage of content for lawful purposes and only for the purposes as permitted under the scope of this Agreement. Promotion of any illegal activity or marketing of products and other service purposes or spamming of the content by it except for the facilitation of services under this Agreement are also prohibited. Monster shall have the sole right to decide as to what constitute as a breach of these requirements by Institute.
- g. Institute undertakes and warrants that the Mobile No./Email id of the candidates provided/uploaded either by Candidate/Institute/Monster to Monster's website for communicating them for the career/tests related information/communication is verified by Institute candidate before submission and is correct and Institute further warrants that the candidates have consented to use their Mobile No./ Email id provided/uploaded by it to Monster's website for communicating them through SMS by Monster and/or its service providers for the provision of the Services agreed between the Parties. In the event of any complaint at the end of candidates with respect to DND and other issues, Institute shall provide all the relevant details desired by Monster for resolving any such issues.

### 3. TERMS OF AGREEMENT:

This Agreement is between your Institution or company or organization ("You") and Monster.com India Pvt. Ltd. ("Monster") and governs use of the Monster website or websites in which services are subscribed under this Agreement (each a "Site" and, together, the "Sites"). This agreement shall continue and be effective till the validity period of the product and services subscribed by you. If you breach any provision of this Agreement, Monster may (i) discontinue Your service and/or (ii) pursue all other available remedies to protect it. Any extension of services covered under the scope of the Agreement shall be at the discretion of Monster.

You agree to comply with all the applicable laws, including but not limited to the laws relating to contracts, labour and employment laws, data privacy laws, cyber laws and laws relating to intellectual property.

Navigation/Search Engines: Notwithstanding anything to the contrary contained herein, You shall not use or attempt to use, and shall cause each party under your control not to use or attempt to use, any engine, software, tool, agent or other device or mechanism (including without limitation browsers, spiders, avatars or intelligent agents) to navigate or search any Site other than the search engine and search agents available on such Site. The contents of the website (including without limitation all job postings and all resumes), and all elements, which are a part of the foregoing, and all intellectual and other proprietary rights therein, are the property of Monster.

Neither you nor any of your employees shall do anything, which would in any way damage, injure or impair the validity of Monster's rights in the contents of the web Site. To the extent permitted by law Monster makes no warranties, express or implied, including the warranties of merchantability, fitness for a particular purpose, or non-infringement with respect to its services or any site, or results of use thereof and all warranties and conditions, express or implied are hereby excluded.

You agree to indemnify Monster, its officers, directors, employees and agents, from and against any claims, actions or demands, arising or resulting from Your breach of this Agreement or from Your provision of any material to any Site, including but not limited to claims of breach of third party intellectual property rights. Neither party will be liable to the other party (nor to any person claiming rights derived from the other party's rights) for incidental, indirect, consequential, special, punitive or exemplary damages of any kind - including lost revenues or profits, loss of business or loss of data - arising out of this agreement, regardless of whether the party liable or allegedly liable was advised, had other reason to know, or in fact knew of the possibility thereof. Your use of the Monster First Job program webpage / site is subject to the Terms of Use, and / or Terms and Conditions of the website available from such web Site's homepage as may be amended from time to time.

This Agreement (i) constitutes the entire Agreement between the parties with respect to the subject matter hereof and supersedes any previous oral or written arrangements or understandings relating thereto as well as any purchase orders not supplied by Monster that have been or may from time to time be submitted by you, (ii) may be signed in counterparts, (iii) shall be governed by the laws of India (iv) may not be amended, terminated or waived orally, and (v) may not be assigned, in whole or in part, directly or indirectly, by operation law or otherwise, by you and only comes into existence when signed by You and Monster. Monster will be entitled to assign all or any of its rights and obligations hereunder. Any terms of this Agreement that may be invalid shall not affect the validity of enforcement of the remaining valid terms of this Agreement. The terms and conditions of this Agreement may not be amended without the affirmative written consent of Monster.com India Pvt. Ltd. This MOU will automatically renew on annual basis unless either party gives a 30 days prior notice for its termination before the annual renewal. Monster reserves the right to terminate this MOU immediately in the event any material breach of the terms of this MOU by the Institute including but not limited to breach / infringement of Monster intellectual property rights or any third party rights or breach of any provisions of the MOU. Every Dispute, difference or question which may at any time arise between the parties hereto or any person claiming under them, touching or arising out of or in respect of this agreement or the subject matter thereof shall be referred to the Sole Arbitrator nominated by the First Part, the award passed by the Arbitrator shall be final and binding on the parties hereto. The venue of Arbitration shall be Hyderabad. All and any disputes shall be subject to the exclusive jurisdiction of the Courts at Hyderabad, India.

#### 4. TERM AND TERMINATION

This MOU shall be effective from the date hereof and shall continue to be in full force and effect unless terminated earlier by either party with a One Month notice. Thereafter, this MOU may be renewed for further periods by mutual agreement between both the parties.

HEREOF, the Parties have caused this Agreement to be executed by their duly authorised representatives in one or more counterparts, each of which shall constitute an original effective as of the day and year set forth above.

The persons signing this Agreement on behalf of the parties hereto certify that they are duly authorized by their respective entities to sign and execute this Agreement for and on behalf of their entities/organizations by said signatures that they are duly authorized to sign this Agreement on behalf of said parties and that this Agreement has been authorized by said parties.

**SIGNED ON BEHALF OF MONSTER:**

Name : Sangeetha Shyam Sundar

Designation: Manager – Special Initiatives

Email: sangeetha.sundar@monsterindia.com

Phone: +91 9820124916

*Sangeetha*



**SIGNED BY AUTHORISED REPRESENTATIVE OF MEMBER:**

Name : Prof. Ravi Toteja

Designation: Principal

Email: principal@andc.du.ac.in

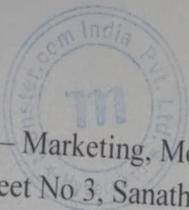
Phone: 011-26294542

*Ravi Toteja*

**Witness:**

1. *G. Shanmukh Sai*

(Garapati Shanmukh Sai, Asst. Manager – Marketing, Monster  
Address: Flat No 304, Lakshmi Apts, Street No 3, Sanath Nagar, Hyderabad - 500018)



2.

*Sanjay Vohra*  
Sanjay Vohra, Placement Officer  
51-D, Pocket-B, Vikaspuri Extension, New Delhi-110018.

**Science Setu**  
**(National Institute of**  
**Immunology)**

**From 2022 - till date**



सत्यमेव जयते

## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

#### e-Stamp

Certificate No.	: IN-DL19098820737397T
Certificate Issued Date	: 04-Sep-2021 11:05 AM
Account Reference	: IMPACC (IV)/ dl847003/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL84700333930168571561T
Purchased by	: ACHARYA NARENDRA DEV COLLEGE
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: NATIONAL INSTITUTE OF IMMUNOLOGY
Second Party	: ACHARYA NARENDRA DEV COLLEGE
Stamp Duty Paid By	: ACHARYA NARENDRA DEV COLLEGE
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



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*(Handwritten Signature)*

Statutory Alert:

**MEMORANDUM OF UNDERSTANDING FOR IMPLEMENTING THE  
SCIENCE SETU PROGRAMME IN COLLEGES**

This Memorandum of Understanding (MoU) between The NATIONAL INSTITUTE OF IMMUNOLOGY (NII), and Acharya Narendra Dev College , University of Delhi hereinafter called parties of the first part and second part respectively.

2. WHEREAS NII located at Aruna Asaf Ali Marg, New Delhi 110067 is an autonomous institute of the Department of Biotechnology (DBT), Government of India, registered under the Society Registration Act, 1860;
3. WHEREAS, Acharya Narendra Dev College , University of Delhi is located in Govindpuri Kalka ji, New Delhi-19. It is a constituent public college of the University of Delhi that offers undergraduate courses in various disciplines of sciences and applied sciences.
4. WHEREAS, The *Science Setu* Programme approved by the Governing Body of the NII aims to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option,
5. WHEREAS, both parties of the first- and second part wish to come together in synergistic partnership to implement the above-said *Science Setu* Programme, this Memorandum of Understanding is being executed to clarify the intent and purpose and mode of implementation of the programme.

6. Now, the parties of this MoU mutually declare and agree to the following:

6.1 Name

The name of the programme will be *NII- Acharya Narendra Dev College Science Setu Programme*

6.2 Goal

To contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option

6.3 Objectives

- a) To address the changing needs of teaching, learning and research in biological sciences
- b) To link the National Institute of Immunology (NII) in the spirit of "success through access" to undergraduate teaching in biological sciences
- c) To engage a talent pool of potential biology students in the delivery of innovation, research and continuous development
- d) To act, through all the above, as a catalyst of change

6.4 Mode of Implementation

- a) NII and Acharya Narendra Dev College commit themselves to interact through mutual consultation and formal partnership towards meeting the goal and objectives of the programme.
- b) Engagement with the Acharya Narendra Dev College by NII would be on-site, and/or through *e-learning* approaches depending on feasibility.
- c) This commitment shall be treated as a national service intrinsic to the mandate of NII, and Acharya Narendra Dev College and shall neither involve remuneration/honoraria in any form, nor be treated as a cause for modification of any current institutional goals.
- d) Enough flexibility would be built in to ensure that the programme adds value to undergraduate education.
- e) The level of engagement and the best time to commence the same will be decided through mutual consultation.



Two handwritten signatures in blue ink are present at the bottom right of the page, overlapping the notary seal.

- f) Programme of engagement could include one or more of the following depending on specific need and feasibility:
- (i) Lectures/discussion
  - (ii) Laboratory exercises
  - (iii) Mentorship to student science projects
  - (iv) Mentorship to teacher science projects
  - (v) 'College Teacher Forums' to discuss broad issues on latest developments in science, career opportunities, innovative methodologies in teaching/research, science & technology policy issues, and other related areas.
  - (vi) Summer student/teacher internships
  - (vii) Any other as mutually agreed

6.5 Role and Responsibilities of NII

- a) NII commits to designate a mutually agreed number of its scientists/faculty members toward this programme for at least 12 hours of engagements per year.
- b) This may be distributed flexibly by the designated scientist within one or more academic institutions
- c) NII will take care of the logistics of conveyance of the scientist(s) to and from the College, whenever the interaction is on site or outside NII.
- d) Depending on feasibility, NII would make appropriate arrangements in consultation with Acharya Narendra Dev College for e-learning at its end.
- e) Depending on feasibility, NII will also facilitate interaction on its premises.

6.6 Role and Responsibilities of the college

- a) The Acharya Narendra Dev College commits to receive and appropriately facilitate the interaction between the designated NII scientist (s), and its teachers/students so as to fulfil the goal and objectives of the programme.
- b) It will designate a nodal person to interact with the NII scientist (s).
- c) It will take care of the logistics of conveyance of its teachers/students whenever the interaction is outside its premises
- d) Depending on feasibility, Acharya Narendra Dev College would make appropriate arrangements in consultation with NII for e-learning at its end.

6.7 Budget for the Programme

The programme will be accommodated within the annual budget of each party.

6.8 Programme Review

The Governing Body of NII shall review the programme for implementation at the end of one year for implementation and three years for performance.

6.9 Termination

Either party to this MoU has the right to terminate the MoU upon serving a written notice of 30 days to the other party should the other party commit a breach of any of the provisions of this MoU.

6.10 Interpretation and Dispute Resolution



Two handwritten signatures in blue ink, one above the other, positioned to the right of the notary stamp.

- a) If any dispute arises between the parties hereto arising out of or in connection with the interpretation or implementation or alleged breach of any provision of this MoU, the parties hereto shall endeavour to settle such breach amicably.
- b) In case the dispute cannot be resolved after reasonable attempts within 5 days, one of the parties shall give a written notice to the other to this effect. In such a case the matter shall be referred to the Director NII as a sole arbiter, whose decision will be binding on both the parties.

7. This MoU is valid for three years from the date of signing. It can be extended further through mutual agreement.

IN WITNESS WHERE OF THE PARTIES HERE TO HAVE EXECUTED THIS MoU ON .....(DAY), .....(DATE), .....(MONTH) 2019.

<p>Signed-----          For and on behalf of the National Institute of Immunology</p> <p>Seal</p>	<p>Signed-----          For and on behalf of Acharya Narendra Dev College</p> <p>Seal</p>
<p>Witnesses</p> <p>1. <i>Anil Kumar</i></p>	<p>Witnesses</p> <p>1. <i>Dr. Anshu (AKDC)</i></p>
<p>2. <i>Jyoti Singh</i></p>	<p>2. <i>Prof. Suresh Kumar (Kc)</i></p>



**ATTESTED**  
*AS*  
**NOTARY DELHI**

**04 SEP 2021**

**Collaboration with  
IIT, Delhi 2021(For 3  
Months)**



# Virtual Labs

An initiative of Ministry of Education  
under the National Mission on Education through ICT



Wireless Research Lab, Bharti School of Telecom  
Indian Institute of Technology Delhi, Hauz Khas, New Delhi-11 0016. Tel: 011-26582050

[www.vlab.co.in](http://www.vlab.co.in)

Ref. No.: **VLABS/IITD/NCS**

Date: **13-09-2021**

To,  
The Principal,  
Acharya Narendra Dev College,  
Kalkaji, New Delhi

**Sub: Virtual Labs Nodal Center**

With reference to your Expression of Interest for Virtual Labs, it gives me immense pleasure to designate your Institute as a Nodal Center for Virtual Labs. As nominated by you, **Dr. Sumit Sahni** has been accepted to act as the Nodal Coordinator from your Institute. This approval is valid up to 31<sup>st</sup> December 2021. Subject to the following Terms and Conditions and any subsequent directives as issued by MoE from time to time:

1. Approved status of AICTE/STEB/UGC is mandatory for your college.
2. The necessary infrastructure (dedicated space having personal computers with 1Mbps broadband internet connectivity) to be maintained at your own cost for Virtual Labs.
3. Nodal centers will get operational technical support.
4. Students are not to be charged any extra fee for providing Virtual Labs facility for their usage.
5. Nodal Coordinator should attend the meeting held at IIT Delhi as per schedule and a semester wise report of V Labs usage and feedbacks by the faculty members and students should be submitted.
6. Strict adherence to the standard lab procedures and cyber security laws needs to be followed.
7. Any violation or the above will result in automatic cancellation of Nodal Center status for your college without giving any notice.

**Kindly acknowledge the receipt of this letter and the acceptance of the Terms & Conditions mentioned above.**

We thank you again for your interest in the Virtual Labs project and appreciate your endeavor in the service of the student community.

Wish you all the best!

Thank You,

Sincerely,

**Prof. Suresh Bhalla**

Project Virtual Labs

IIT Delhi

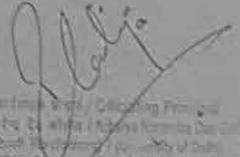
[sbhalla@civil.iitd.ac.in](mailto:sbhalla@civil.iitd.ac.in)

**Skill Hub Initiative  
Under PMKVY 2022  
(Till Date)**

## Acharya Narendra Dev College, Govindpuri, Kalkaji

### Web Developer Course Attendance

S.No	Attendance Id	Name	Users Designation	Total Days 16/3 to 10/5	Attendance 16/3 to 10/5	Total Days 13/5 to 9/6	Attendance 13/5 to 9/6	Total Days 13/6 to 6/9	Attendance 13/6 to 6/9	Total (Days)	Total (Attendance)
1	61313383	Abhishek Gusain	Trainee	37	32	25	24	39	21	101	77
2	6274755	Ajay Yadav	Trainee	37	37	25	23	39	36	101	96
3	90930638	Anisha Sharma	Trainee	37	29	25	24	39	26	101	79
4	79516083	Ankit Kumar	Trainee	37	37	25	24	39	35	101	96
5	43723001	Arpit Talan	Trainee	37	28	25	7	39	0	101	35
6	35055970	Ayushi Aggarwal	Trainee	37	22	25	7	39	0	101	29
7	66059832	Deepak Bharti	Trainee	37	24	25	25	39	31	101	80
8	8530583	Durgesh	Trainee	37	35	25	24	39	31	101	90
9	61883954	Hanshika Shukla	Trainee	37	26	25	21	39	4	101	51
10	64425204	Himani Rawat	Trainee	37	31	25	25	39	24	101	80
11	33060004	Jatin Kumar	Trainee	37	25	25	23	39	30	101	78
12	41679806	Kirti Rawat	Trainee	37	20	25	24	39	11	101	55
13	85378039	Manu	Trainee	37	30	25	24	39	32	101	86
14	17376403	Naman Kumar	Trainee	37	25	25	24	39	30	101	79
15	70209620	Nitin Singh Gusain	Trainee	37	28	25	23	39	33	101	84
16	32986281	Rashmi	Trainee	37	30	25	25	39	35	101	90
17	21013596	Shakti Dwivedi	Trainee	37	28	25	23	39	30	101	81
18	13153663	Shubham Pratap Singh	Trainee	37	28	25	21	39	31	101	80
19	83402199	Vikas Kumar	Trainee	37	31	25	25	39	37	101	93

  
 Acharya Narendra Dev College, Govindpuri, Kalkaji  
 (West Delhi) - 110019  
 New Delhi - 110019



Dr. Pooja Bhagat &lt;poojabhagat@andc.du.ac.in&gt;

---

**Fwd: Skill Hub Initiative Under PMKVY - Login Credentials**

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>

Fri, Feb 25, 2022 at 2:57 PM

To: "Dr. Pooja Bhagat" &lt;poojabhagat@andc.du.ac.in&gt;, "Ashutosh ." &lt;ashutosh@andc.du.ac.in&gt;

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

From: &lt;sdmssupport@nsdcindia.org&gt;

Date: Tue, Feb 1, 2022 at 12:51 AM

Subject: Skill Hub Initiative Under PMKVY - Login Credentials

To: &lt;saritakumar@andc.du.ac.in&gt;

Dear Training Provider (TP),

This is with regards to Skill Hub Initiative(SHI) under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 for which your Registration on Skill India Portal (SIP) has been completed successfully.

Your login credentials for TP and Training Centre (TC) are appended below. You are requested to log on to <https://skillindia.gov.in> and fill in your Bank details in the requisite section.

TP ID: TP104735

Password: ekaushal

In case of any query, you may write to us on [skillhub@nsdcindia.org](mailto:skillhub@nsdcindia.org) or call on our helpline numbers: 011-47451671, 72,73 and 75.

Thank You,

Operations team, NSDC

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Acharva Narendra Dev College

(University of Delhi)

+91-98-103-09912



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**Actual activities under each MOU and web -links year-wise University of Delhi at ANDC SPIE Student Chapter SPIE Annual Report 2018**

**Faculty Advisor: Dr Amit Garg**

**SPIE Activities 2017-18**

SPIE student members, Adarsh, Prsahant and Chiradeep participated in the 5<sup>th</sup> Annual Convention organized by Regional Council (Delhi & Haryana) of Indian Association of Physics Teachers (IAPT) on August 19, 2017 at the DAV School, Shreshth Vihar, New Delhi.

A handwritten signature in black ink, likely belonging to Dr. Amit Garg, the Faculty Advisor.

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**SPIE Activities 2018-19**

1. **“Paradigm Shift in Physics Education through hands-on techniques in OPTICS”** was organized in collaboration with **“JOY OF LEARNING FOUNDATION, DELHI”** on January 24, 2019 by University of Delhi at ANDC SPIE Student Chapter.

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**Department of Physics**  
(under the aegis of DBT STAR College scheme)  
in collaboration with  
**Joy of Learning Foundation, Delhi**  
cordially invites students and colleagues to an  
interactive session on  
**'Paradigm shift in Physics Education  
through hands-on techniques in Optics'**

**Date: 05 & 07 September 2018 (Wednesday & Friday)**  
**Time: 10.00 a.m.**  
**Venue: Seminar Hall (new block)**

**Patron:** Dr. Savithri Singh  
**Convener:** Dr. Arijit Chowdhuri  
**Coordinators:** Dr. Manisha Verma and Dr. Sanjeeta Rani

2. The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) along with SPIE leadership workshop was held from April 21 to April 26, 2019 in Yokohama, Japan.

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### SPIE Structured Light OPIC 2019

Organizer: Dr. Catherine Berdanier, SPIE

Date/Time/Location: April 21-26, 2019 in Yokohama, Japan

Participants: Mr. Rohit Saini from our chapter and other leaders and research scholars from different chapters

Cost: \$ Supported by SPIE, USA Officer's Travel Grant

The 2019 SPIE Structured Light OPIC (Optics and Photonics International Congress) programme along with SPIE leadership workshop was held in April, 2019 in Yokohama, Japan. Mr. Rohit Saini, B.Sc. (Hons.) Electronics III Year student attended that conference from April 21-26, 2019. He was awarded the Officer's Travel Grant to attend the SPIE Leadership workshop along with OPIC. He was a part of IoT-SNAP2019 International conference which was majorly about the modern technologies and many technical papers were presented there from leading companies and professors. The leadership workshop was a really good experience. The chapter leaders joined that workshop across all over the world. Everyone has their own chapter posters enlightening about their works, promotions and research they have done so far throughout the year 2018-2019. We have also participated in some lectures and activities conducted by Dr. Catherine Berdanier. These activities were really good to develop our communication presentation and writing skills. Few of them were senior and guided him for future studies and he also met directors and manager of Japanese companies. They motivated him for bright future. OPIC fair was the best part of conference leading companies were to present their new products and development they have done so far. According to Rohit, attending 2019 SPIE Structured Light programme was a wonderful experience for him and shared his experience with all the members in our chapter so it was worth for them also.

7



3. Two days SPIE Induction Workshop-2018 on September 25-26, 2018 at Acharya Narendra Dev College.



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4. A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018.

[https://www.andcollege.du.ac.in/uploads/annualreports/ar\\_2019\\_wdCover.pdf](https://www.andcollege.du.ac.in/uploads/annualreports/ar_2019_wdCover.pdf)

**Induction Workshop:** - A two-day Induction Workshop was held from September 25-26, 2018 for SPIE members. The workshop had an invited talk by Prof. Joby Joseph, Department of Physics, IIT Delhi on the topic of "Fabrication of Nanophotonic Structures and some Applications". Hands-on sessions were conducted during the workshop on projects like Water drop Microscope, Communication through Fiber-Optic cables, Laser Spirograph, Lissajous light patterns through vibration and Holography. Dr. Sanjay Kumar, Department of Physics was the resource person in setting up and recording the holograms. The workshop convener was Dr. Amit Garg.

**Workshop at Deen Dayal Upadhyay College, DU:** A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. Two teams of 4 students each (Rohit Saini, Pranjal Singh, Ritesh Raj, Vikram Bhardwaj, Lokendra Singh, Rajat Mann, Gaurav Lokhna and Ashutosh Singh) were sponsored by our Chapter to attend and take part in the workshop. They learned various projects like basics of LED blinking; relay board working for actual home appliances, controlling circuit over Wi-Fi, managing practical data for application over internet along with various other things.

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5. Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc(H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He demonstrated the phenomena of "Blue Sky and Red Sunset" at the Optics Outreach Games.

**SPIE Office bearers:**

1. President- Rohit Saini B.Sc. (H) Electronics, III Year.
2. Vice-President- Chiradeep Das, B.Sc. (H) Electronics, III Year.
3. Secretary- Ritesh Raj, B.Sc. (H) Electronics, III Year.
4. Treasurer- Hardik Minocha, B.Sc. (H) Electronics, II Year.



**SPIE International Conference at San Diego:** - The SPIE Optics and Photonics Conference was held at San Diego, CA, USA from August 18-23, 2018 this year. Mr. Chiradeep Das, a student of B.Sc. (H) Electronics, Part III was awarded Officers' Travel Grant (OTG) to attend this conference with full funding from SPIE , USA. He demonstrated the phenomena of "Blue Sky and Red Sunset" at the Optics Outreach Games. He also presented a poster on the different activities of our Chapter and its current position as compared to other Chapters worldwide at a Poster Session. It was a great opportunity

6. A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018.

**Workshop at Deen Dayal Upadhyay College, DU:** A two-day workshop on Internet of Things (IOT) was organized by i3indiya in co-operation with IIT Bombay at Deen Dayal Upadhyay College, University of Delhi on October 12-13, 2018. Two teams of 4 students each (Rohit Saini, Pranjal Singh, Ritesh Raj, Vikram Bhardwaj, Lokendra Singh, Rajat Mann, Gaurav Likhna and Ashutosh Singh) were sponsored by our Chapter to attend and take part in the workshop. They learned various projects like basics of LED blinking; relay board working for actual home appliances, controlling circuit over Wi-Fi, managing practical data for application over internet along with various other things.

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### SPIE 2019-20

1. ROBOTHLON'19 workshop mainly focused on the students eager to learn about Embedded Systems using 8051. Two of SPIE members, Mr Hardik Minocha and Mr Prahlad Prajapat attended workshop held on October 4, 2019 at IIT, Delhi.



#### 8051/52 Embedded Systems - ROBOTHLON'19

**Organizer:** Robosapiens India

**Date/Time/Location:** October 4, 2019 from 9 am - 5 pm at IIT Delhi

**Participants:** 2 students from the chapter (They were undergraduates)

**Cost:** \$100

The workshop mainly focused on the students eager to learn about Embedded System using 8051. This was a chance provided to them to expand their knowledge in the field of designing, construction, operation, and application of Embedded System with real time practical experience using Robosapiens 8051 Development Board. The duration of this workshop was 1 day, with 2 Sessions, properly divided into theory and hand on practical sessions. Our chapter fully funded the two of its members, Mr. Hardik Minocha and Mr. Prahlad Prajapat to attend this workshop. The students had their projects running under the chapter which required knowledge in Embedded Systems using 8081. Some of the practical mini projects were writing "LED BLINKING" Code in Embedded C, Displaying and Blinking Text, Scrolling Text, Automatic Counting of Numbers using LCD. After attending the workshop, they helped other students working on various areas and propagated their knowledge in the meetings with other members of the chapter.

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2. A two-day Orientation Program from July 22 & 23, 2019 was organized in four sessions each day for newly joined students of the college to learn about the activities of the SPIE Society by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20.



#### **SPIE Orientation Programme 2019**

**Organizer:** Acharya Narendra Dev College

**Date/Time/Location:** July 22 - 23, 2019 from 12-3 pm in Computer Lab, New Building

**Participants:** 6 members from the chapter and audience were freshers of the college.

**Cost:** \$100

A two-day Orientation Program from July 22 – 23, 2019 was organized in four sessions each day to aware the newly joined students of the college about the activities of the SPIE Society. A team of potential members in the chapter and newly elected officers led by Prince Sharma, Chapter president 2019-20 and Avinash Kumar Lal, Chapter Secretary 2019-20 told freshers everything about the existing SPIE society in the college interactively right from the basics to the pre-accomplished projects. The team apprised them about the recent activities organized by the chapter and freshers were told about the importance of Optics and Photonics which is applied everywhere in the world and also realized them how important it is work in the advancement of Optics and Photonics. It was fun and interactive session with the new curious minds.



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3. Optical color mixing workshop cum introductory session with freshers was attended by 110 students. Date/Time/Location: August 9, 2019 from 1-5 pm in Seminar Hall, New Building.

### Optical Color Mixing Workshop cum Introductory session with Freshers

**Organizer:** Prince Sharma, President 2019-20; Hardik Minocha, Treasurer 2018-19; Amit Garg, Faculty Advisor

**Date/Time/Location:** August 9, 2019 from 1-5 pm in Seminar Hall, New Building

**Participants:** 110 students (Most of them were newly joined society members)

**Cost:** \$100

It was specifically organized to give new members the practical idea of what the society is all about. The session started by address and welcome of the new members by the newly elected President, Mr. Prince Sharma. At the start, he quickly reviewed everything about the society that was already told in orientation sessions making convenient for those who could not attend it. He introduced other chapter officers and some potential members and later, he placed the upcoming yearly plan of the society in front of the students and kept some milestones with the team. The session was quite motivating which encouraged them to show active participation in society. The second session was of the workshop where Mr. Hardik Minocha with his team gave theoretical explanation of Colors and emphasized on the difference between Optical and Pigment Colors. Students were given the practical overview of how Red, Green and Blue are mixed together to generate different colors. It was no doubt knowledgeable and interactive session with the students.



4. 14 Students attended a DST (Department of Science & Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and 28th September, 2019.

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*Amit*



**Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching**

**Organizer:** Amit Garg, Faculty Advisor

**Date/Time/Location:** September 27 – 28, 2019 at DDUC, University of Delhi

**Participants:** 14 students (All were chapter members)

**Cost:** \$100

14 Students attended a DST (Department of Science & Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and 28th September. The series of lectures included talks on Mathematical Modelling, Photonics Revolution, Evolution of Quantum Theory & Entanglement, etc. from scientists and personalities of various fields. Among the famous personalities, Prof. Anurag Sharma, who is also a faculty advisor at IIT Delhi Student Chapter delivered his enlightening talk on Optics and Photonics. Students from our chapter interacted with him and asked curious questions that was aroused from his lecture. Prof. Ajoy Ghatak delivered his talk on the Evolution of Quantum Theory & Entanglement. Other Shanti Swaroop Bhatnagar Awardees were Dr. Jitendra Nath Goswami, Dr. G. Narahari Sastry, Prof. Balasubramanian Sundaram. Students were

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5. A lab visit was organized at National Physical Laboratory (NPL) and Institute of Genomics and Integrative Biology (IGIB) under CSIR (Council of Scientific and Industrial Research). Students were divided on the basis of their interests and sent to the respective labs for the practical exposure on September 26, 2019 to IGIB and September 30, 2019 to NPL.

#### Council of Scientific and Industrial Research (CSIR) Lab Visits

**Organizer:** CSIR, Government of India

**Date/Time/Location:** September 26, 2019 and September 30 from 12-5 pm, NPL, IGIB

**Participants:** 30 students (Most of them were the Chapter members)

**Cost:** \$100

With an aim to go beyond academics, our chapter organized a lab visit at National Physical Laboratory (NPL) and Institute of Genomics and Integrative Biology (IGIB) under CSIR (Council of Scientific and Industrial Research). Students were divided on the basis of their interests and sent to the respective labs for the practical exposure on 26th Sept (IGIB) and 30 Sept. (NPL). Students went through the various workshops including lithography techniques being used in the labs and got to see various laboratories and instruments and types of luminescent materials and their properties. Parallel by four student members (Mr. Phalguner, Mr. Avinash Kumar, Ms. Tripti Vardney, Mr. Aman Tyagi) were selected for main CSIR foundation day function at Vigyan Bhawan, Delhi where Sri Ram Nath Kovind, Hon'ble President of India and Dr. Harsh Vardhan, Hon'ble Minister of Science & Technology, Vice-President, CSIR were the chief guest. This visit provided students with an opportunity to learn practically through interaction and working methods. Also, it encouraged them to extend their hands in research works.

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6. SPIE Chapter organized a talk by Professor Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico on October 15, 2019 at Acharya Narendra Dev College.

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Invited Talk and Interaction with Prof. Marija Strojnik under SPIE Visitor Lecturer Grant

-Prince Sharma

On 15<sup>th</sup> October 2019 under the aegis of the University of Delhi at ANDC SPIE Student Chapter, Prof. Marija Strojnik, an astrophysicist and distinguished Professor at Optical Research Center, Mexico from SPIE had delivered an invited talk on 'Autonomous Navigation with Intelligent Camera for Space and Earth'. It is a milestone in the chapter history of almost 10 years that the chapter availed 'Visiting Lecturer Grant' from SPIE USA and organised this mega event in the chapter year 2019-20.

The event commenced by the offline registration of the students for the initial talk which was scheduled from 10:00 – 11:30 to be delivered by Prof. Marija Strojnik on the above topic. Prof. Marija Strojnik was escorted from her hotel to our college premises by the reception committee consisting of Prince Sharma, Chapter President and Mallika Yadav, Chapter Vice-President. After the registration was over, Dr. Arijit Chowdhuri greeted Prof. Marija accompanying her to the seminar hall along with the Acting Principal of our college, Dr. Ravi Toteja. There was a formal welcome followed by the lamp lighting ceremony. It was then followed by a welcome speech delivered by the Principal of our college, Dr. Arijit Chowdhuri, Assistant Professor of the Department of Physics warmly welcomed Prof. Marija Strojnik with his words. Prof. Marija Strojnik was then requested to deliver her talk to the students. Since our faculty advisor Dr. Amit Garg went out of India for a conference, he sent a video welcome message for Prof. Marija Strojnik which was then played before the start of the talk. Her talk began with a brief introduction to SPIE and her hour-long talk almost covered everything regarding the topic considering the level of undergraduate students. It ended well with some interactive questions related to the topic from the students. The talk was attended by more than 100 students and it truly covered the proposed objective of the event. Everyone enthusiastically interacted with her and also raised their doubts. The doubts were well cleared by Prof. Marija. After the talk was over, Dr. Arijit Chowdhuri ended the first session with thanks note to Prof. Marija. Students were then requested to attend the next session with Prof. Marija Strojnik which was scheduled to be a motivational interactive session with her. They were requested to report to Committee Room at 11:45 am. Meanwhile, Prof. Marija Strojnik was taken for a tea. Around 25 students attended the second session entitled 'Women at the Center' among which most of them were women students. The session was again very engrossing and lasted around one and a half hours. Prof. Marija shared her career experiences as a woman with all the students. Almost all the students freely interacted with her and put their questions related to their life and career. Prof. Marija cleared the doubts of the students and also helped them overcome their personal confusion. The overall discussion was emphasized on how women are making a difference in the development of the world. They are being treated equally as men and are encouraged in every field. The session ended with a vote of thanks by the student chapter President Mr. Prince Sharma. He presented Prof. Marija Strojnik with a memento on behalf of the chapter. Prof. Marija Strojnik visited the project exhibition organised by our chapter members. Each of the students in the project exhibition explained their respective projects to Prof. Marija. She was curious enough to ask a few questions to the students regarding their projects. Interestingly, she seemed quite fascinated by the work being done by the chapter members. We took a group photo with Prof. Marija after the exhibition. The session did not get over here. She was then requested to visit our SPIE lab where one of the students in the project exhibition had a project to showcase holography. The students displayed the working of their project in the lab which was again quite an interactive discussion with her. Dr. Vishal Dhingra, Assistant Professor of the Department of Electronics concluded the event with a bouquet presentation to Prof. Marija Strojnik in the lab and thanked her to visit our college. Interestingly, our journey with Prof. Marija Strojnik did not end here.

7. Two students, Mr Devesh Yadav and Mr Avinash Kumar Lal were sent to attend Maker Faire Hyderabad event held from November 10-12, 2019 at Hyderabad.

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*Handwritten signature*



## Maker Faire Hyderabad 2019

**Organizer:** Make Media Inc., San Francisco, USA and TWorks

**Date/Time/Location:** November 10 – 12, 2019 from 10 - 5 pm in Hitex Exhibition Center, Hyderabad

**Participants:** Mr. Devesh Yadav and Mr. Avinash Kumar Lal (They took part as an attendee)

**Cost:** \$150

The Maker Faire Hyderabad brings together tech enthusiasts, crafters, educators, tinkerers, food artisans, hobbyists, engineers, science clubs, artists, students, and commercial exhibitors every year. The makers come to show their creations and share their learnings and the attendees flock to the event to glimpse the future and find the inspiration to become makers themselves. Two students, Mr. Devesh Yadav and Mr. Avinash Kumar Lal were sent to attend Maker Faire Hyderabad Event. According to them, there was a gathering of students, enthusiasts and entrepreneur with great ideas and projects from all over the country. There were projects presented on different social and real-life problems. From School kids on Ph.D scholars all participated in the event. Major attraction of this event were the projects presented by school kids which required a good and high-level programming knowledge with a good sense of electronic circuits (Some of the projects were Medicine Reminder for old age people, Garbage Sorter, Obstacle Detection Robot, Obstacle Detection Glasses for Blind People etc.) One of the projects that fascinated the most was a vertical farming model. This model was based on advanced research and different techniques on good quality farming which utilizes most of the outputs including waste material. It included a robot for sowing seeds in farm and removing weeds from the crops. The concept of aquaponics was also used in this project which made it worth considering. There were many more projects like drones, music teaching piano, models on AI learning and much more brought up to there by different startups from all over the country. Some worth mentioning projects included Vapra - the compost maker, Reimagining monuments (for blinds), Automatic Fire Alarm and Safety System, Electric Bike,

8. 100 students attended a hands-on workshop on Arduino organized by SPIE in association with Elecbits. Date/Time/Location: September 7, 2019 from 1-5 pm in Seminar Hall, New Building.

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#### Arduino Masterclass

**Organizer:** Elecbits (<https://www.linkedin.com/company/elecbits/about/>), Amit Garg, Faculty Advisor

**Date/Time/Location:** September 7, 2019 from 1-5 pm in Seminar Hall, New Building

**Participants:** 100 students (Most of them were chapter members, few of them were from outside the chapter)

**Cost:** \$100

A hands-on workshop on Arduino was organized in association with Elecbits which included Introduction to Arduino, building an Arduino Instant Messenger, Weather Station, own Disco Light and building an Ultrasonic Radar. This workshop kickstarted the minds of freshers to start working on their own projects and make something creative out of their curious minds with the existing technologies.

9. SPIE Student Chapter ANDC in collaboration with ANDC InStart Foundation and STEAMEDU organized workshop 'Pyrobot (Code in Python to program EV3 robots)' at ANDC on February 11, 2020.

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ANDC inStart Foundation

Presents

Learn  
coding the  
way industry wants

Powered by  
STEAMEDU  
www.steamedu.in

REGISTER AT: [bit.ly/pyrobotspie](http://bit.ly/pyrobotspie)  
LAST DATE: 5 FEBRUARY 2020

**PyRobot Workshop**  
Python with programming robots

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10. DST (Department of Science & Technology, Government of India) sponsored fourth lecture workshop on transdisciplinary areas of research and teaching was held on September 27 & 28, 2019 at Deen Dayal Upadhyaya College, University of Delhi.



#### Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching

**Organizer:** Amit Garg, Faculty Advisor

**Date/Time/Location:** September 27 – 28, 2019 at DDUC, University of Delhi

**Participants:** 14 students (All were chapter members)

**Cost:** \$100

4 Students attended a DST (Department of Science & Technology, Government of India) Sponsored Fourth Lecture Workshop on Transdisciplinary Areas of Research and Teaching by Shanti Swaroop Bhatnagar Awardees held on 27th and 28th September. The series of lectures included talks on Mathematical Modelling, Photonics Revolution, Evolution of Quantum Theory & Entanglement, etc. from scientists and personalities of various fields. Among the famous personalities, Prof. Anurag Sharma, who is also a faculty advisor at IIT Delhi Student Chapter delivered his enlightening talk on Optics and Photonics. Students from our chapter interacted with him and asked curious questions that was aroused from his lecture. Prof. Ajoy Ghatak delivered his talk on the Evolution of Quantum Theory & Entanglement. Other Shanti Swaroop Bhatnagar Awardees were Dr. Jitendra Nath Goswami, Dr. G. Narahari Sastry, Prof. Balasubramanian Sundaram. Students were selected on the basis of their involvement in society for attending the lecture workshop.



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### SPIE 2020-21

1. Chapter organized another training session. This time it was an online webinar session of 5 days about Hybrid Mobile App Development with Flutter which was conducted from July 13-17, 2020, via Google meet.

*Amrit*

Scan the QR Code to register

@phageconsortium

**SPIE. STUDENT CHAPTER**  
UNIVERSITY OF DELHI AT ANDC

Acharya Narendra Dev College  
Department of Electronics  
DBT STAR College Scheme  
University of Delhi at ANDC SPIE Student Chapter

PRESENTS

**HYBRID MOBILE APP DEV WITH FLUTTER**

Duration: 5 Days, 2 hours session everyday  
Dates: 13th - 17th July, 2020  
Time: 12.30 PM to 2.30 PM  
Tool: Google Meet  
Fees: Rs. 500/- Non ANDC students  
Rs. 300/- ANDC students and ANDC SPIE members

What will you learn

- Flutter Architecture
- Flutter & BARET Setup
- Building Flutter First App
- Flutter App On Real Device & Emulator
- Deep Dive of Dart Language
- Stateful And Stateless Widgets
- Basic Widgets
- Material Widgets
- Layouts In Flutter
- Scaffold Widgets
- Flutter Navigators And Routes
- Event Handling
- State Management
- Async Coding in Flutter
- OAuth in Firebase
- Integrate Flutter with Firebase

Requirements

- Laptop/Desktop
- Knowledge of any programming language
- Internet connectivity

Limited seats Available  
**!!Register Now!!**  
Scan to register

Projects

- MUSIC APP
- TODO APP

Co-ordinators  
Amrit Garg (Faculty Advisor)  
Dr. Rajaraj Kumar

Headline Co-ordinator  
Amrit Tyagi (Coordinator)  
9811423487

Industry Partner  
Brain Horizons Pvt. Ltd.

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2. Conducted a 5-day workshop on on Data Science with Python on March 3, 2021.

**SPIE 2021-22**

1. The SPIE Student Chapter at Acharya Narendra Dev College, University of Delhi partnered with Brain Mentors Pvt. Ltd to organize an online workshop (Full Stack Web Development Using Mern) focusing on Web Development using the latest industry-ready tools. On March 05, 2022.

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## Full STACK Web Development using

# MERN

**Register Now**

A five day Hands-on online workshop with a two hours session each day

Benefits of Attending Seminar / Workshop / FDP

- Workshop taken by Exceptionally Qualified and Professional Trainers actively involved in Development.
- Real time Exercises and Practical.
- Industry Standard Software Used for Training.

Requirements from our side during the session

1. Laptop
2. WI-FI Internet (Must)

Teacher Coordinators:  
Prof. Amit Garg  
Dr. Ravneet Kaur

Student Coordinators:  
Ms. Shrutti Yadav (85778227574)  
Mr. Devesh Yadav (9309528116)

Industry Partner :  
**BRAIN MENTORS PVT. LTD**

Will Be Held On  
📅 4 PM -6 PM  
5th March to 9th March, 2022  
📍 Google Meet  
Acharya Narendra Dev College,  
University of Delhi

CLICK TO REGISTER

SPIE. [www.spieandc.org](http://www.spieandc.org)

• Free for SPIE members  
• Rs. 50 for ANDC students  
• Rs. 200 for non ANDC students

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2. SPIE Student Chapter organized a one-day offline workshop on Holography, conducted by an esteemed faculty Dr Sanjay Kumar on 14th March 2021.

The poster features a dark background with a geometric pattern. At the top left is the University of Delhi logo, and at the top right is the Acharya Narendra Dev College logo. The central text reads 'SPIE. STUDENT CHAPTER UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE' and 'Department of Electronics under DBT Star College and IQAC presents'. Below this is the title 'LEARNING HOLOGRAPHY' in large, outlined letters. A QR code is provided for registration, with a 'Click to Register' button above it. The event is scheduled for '14 March' and 'Starts at 10:00 a.m.'. Pricing is listed as 'Free for SPIE Students', '₹ 50 for ANDC Students', and '₹ 300 for Other Students'. A note states 'E-certificates will be provided after the successful completion of the workshop.' At the bottom, student coordinators (Shruti Yadav and Devesh Yadav) and teacher coordinators (Prof. Amit Garg and Dr. Ravneet Kaur) are listed. The location is 'Acharya Narendra Dev College, University of Delhi'. Social media icons for Instagram, LinkedIn, and YouTube are at the bottom left, and the SPIE website 'www.spieandc.org' is at the bottom right.

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3. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College partnered with Touch Techno to bring a fun and informative physical hands-on one day workshop in the college on March 26, 2022.

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SPIE Student Chapter University of Delhi at Acharya Narendra Dev College & Department of Electronics, DBT Star College and IQAC presents

Offline Workshop

One-day workshop on **ARDUINO** and **SENSOR INTERFACING**

E-certificates will be provided to all the successful participants

<b>DATE</b> 26 March 2022	<b>TIME</b> 10 am onwards
------------------------------	------------------------------

**VENUE**  
Acharya Narendra Dev College, University of Delhi

Register here

Registration fee:  
SPIE members: Free  
ANDC students: ₹50  
Non-ANDC students: ₹300

Teacher: Prof. Amit Garg  
Coordinators: Dr. Ravneet Kaur

Student: Shruti Yadav: 8577827574  
Coordinators: Devesh Yadav: 9305528116

SPIE: [www.spiendc.org](http://www.spiendc.org)

4. The SPIE Student Chapter of Delhi at Acharya Narendra Dev College organised webinar session on Career Opportunities in Public on February 4, 2022.

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UNIVERSITY OF DELHI

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UNIVERSITY OF DELHI

SPIE Student Chapter University of Delhi  
Acharya Narendra Dev College  
with IQAC and DBT STAR College  
presents

LIVE

# Webinar Session

Are you good at editing/Proof reading, type setting, graphic designing, digital marketing, Translation, Voice Over etc? Then this is an opportunity for you...

Topic :  
**Career Opportunities in Publishing**

**REGISTER NOW**

Teacher Coordinator :  
Prof. Amit Garg  
Dr. Ravneet Kaur

Student Coordinators :  
Ms. Shruti Yadav (8577827574)  
Mr. Devesh Yadav (9305328116)

Scan QR

February 4, 2022  
4:00 PM-5:30 PM

With :  
Mr. Sahil Gupta

Founder at  
Publishingconsultant.in

www.spieandc.org

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## Activities conducted under MoU signed by Thsti , Department of Biotechnology and Acharya Narendra Dev College 2017-2018

1. A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017).
2. Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members. Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.

[https://www.andcollege.du.ac.in/uploads/annualreports/andc\\_sr\\_190318\\_full.pdf](https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf)

ANNUAL REPORT 2018

### 3.4. Science Setu Programme@ ANDC

Coordinator: Dr Urmi Bajpai

The Science Setu programme is an initiative undertaken by the Translational Health Science Technology Institute (THSTI) as a follow-up of the speech of the Hon'ble Prime Minister of the country, wherein he had called upon Indian scientists to actively involve themselves in sharing their research interests with the school and undergraduate students.

The Setu provides opportunities to students to work on short-term projects at THSTI under the guidance of a scientist. For this to happen, THSTI scientists presented students with a set of scientific problems and the challenge was for students to write research proposals/solutions.

A team of four students, Jayati, Shreya, Priya Don and Sonia, won the first prize in the Science quiz organized by THSTI on their open day (September 22, 2017). One student got the prize for answering a question from the audience. Another team of two students, Vikas Shukla and Aishwarya Patnaik from Department of Botany participated in extempore competition. Two faculty members Dr Urmi Bajpai and Dr Abhishek Mehta were the coordinators from the College.

Urmi

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### 2018-2019

1. Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India in collaboration with National Institute of Plant Genome Research organized an "Open Day @THSTI" under the India International Science Festival 2018 on September 28, 2018 in the NCR Biotech Science Cluster, Faridabad.

**THSTI IS OPEN!**

INDIA INTERNATIONAL SCIENCE FESTIVAL 2018

EVENT: THSTI OPEN DAY  
DATE: 28<sup>TH</sup> SEPTEMBER 2018  
VENUE: THSTI, NCR BIOTECH SCIENCE CLUSTER, FARIDABAD

Lab Tours | Popular Science Talk | Quiz & Model Making | Tête-à-tête with scientists

### Detailed agenda:

- 09:00 am - 9:30 am: Registration at THSTI
- 09:30 am - 10:00 am: Tea & Snacks
- 10:00 am - 10:15 am: Welcome address
- 10:15 am - 10:30 am: Grouping into batches for lab visits
- 10:30 am - 01:00 pm: Lab visits
- 01:00 pm - 02:00 pm: Lunch
- 02:00 pm - 03:30 pm: Competitions (Model making competition for schools; quiz for colleges)
- 03:30 pm - 04:15 pm: Popular lecture followed by Q & A session
- 04:15 pm - 04:45 pm: Prize distribution, Felicitations & Vote of Thanks

*Amrinder*

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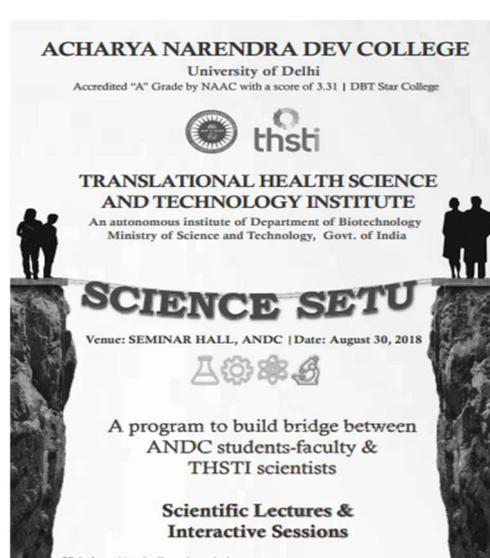
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2. Acharya Narendra Dev College, University of Delhi along with Translational Health Science and Technology Institute, Department of Biotechnology, Ministry of Science and Technology, Govt. of India organized a Science Setu Program at August 30, 2018.



*Amr*

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## 2019-2020

The Science Setu program organized an interactive talk session on February 25, 2020, by the scientists from THSTI on the topic 'Diagnostics Research'. Dr. Tarun Kumar Sharma, Senior Research Scientist, presented "Innovations in Diagnostics" and Dr. Chandresh Sharma described recent developments in "Typhoid Diagnostics". The sessions were interactive and well received by the students.

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University of Delhi  
NAAC Accreditation Grade 'A' | Mentor under UGC *PARAMARSiT* Scheme  
DBT Star College

**thsti** **TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE**  
An autonomous institute of Department of Biotechnology  
Ministry of Science and Technology, Govt. of India

**SCIENCE SETU PROGRAMME**  
Venue: SEMINAR HALL, ANDC | Date: February 25, 2020  
Time: 12:00 p.m. to 02:00 p.m.

12.00 to 12:15 PM	Welcome Address Dr. Ravi Toteja Acting Principal, ANDC	
	Dr. Chandresh Sharma Research Scientist, THSTI <i>Typhoid Diagnostics</i>	12.15 to 12:45 PM
12.45 to 01:15 PM	Dr. Tarun Kumar Sharma Senior Research Scientist, THSTI <i>Innovation in Diagnostics</i>	
Panel Discussion		01.15 to 01:45 PM
01.45 to 02:00 PM	Vote of thanks	

*Om*

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## Creative Commons Affiliate

1. The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.

The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi.

[https://www.andcollege.du.ac.in/uploads/annualreports/andc\\_sr\\_190318\\_full.pdf](https://www.andcollege.du.ac.in/uploads/annualreports/andc_sr_190318_full.pdf)

## 3. AFFILIATE OF NATIONAL AND INTERNATIONAL ORGANISATIONS

### 3.1 Creative Commons (CC)

**Affiliate: Dr. Savithri Singh**

As an affiliate of Creative Commons, Dr Savithri Singh delivered a lecture in **OpenCon 2018**. OpenCon is a platform to learn about Open Access, Open Education, and Open Data, develop critical skills, and catalyze action toward a more open system for sharing the world's information—from scholarly and scientific research, to educational materials, to digital research data. OpenCon 2018 New Delhi was an official satellite event. The primary objective behind this initiative was to make the participants knowledgeable about various open society initiatives. The conference was conducted on February 03, 2018 at Acharya Narendra Dev College, University of Delhi. It included two parallel tracks; track 1 had talks by various open society advocates, discussions on promotion of Open Access culture in India, whereas track 2 participants were trained on Wiki data including organizers and speakers, the event witnessed 54 participants.

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# ACHARYA NARENDRA DEV COLLEGE

*Preparing for the future...*

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## Actual Activities conducted under MoU, “International Bacteriophage Research Consortium” Open Health System Laboratory, USA

### 2018-2019

Dr. Urmi Bajpai has developed a web portal for “International Bacteriophage Research Consortium (IBRC)” in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.

### 5.3.2. Educational e-Content Uploaded on the University of Delhi /Other Websites

Faculty	e-Chapter
Dr. Urmi Bajpai (Biomedical Science)	Have developed a web portal for “International Bacteriophage Research Consortium (IBRC)” in collaboration with Open Health System Laboratory (OHSL), USA, which went live in October 2018.

Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9956284900

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**2019-2020**

OHSL-IBRC colloquium, a public lecture delivered by Prof. Graham Hatfull ,  
Professor in the department of Biological Sciences in the Kenneth P.Dietrich of Arts  
and Sciences at the University of Pittsburgh, USA on June 17, 2020.

Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9356284900

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## International Bacteriophage Research Consortium

Presents lecture by



**Professor Graham Hatfull**

Mycobacteriophages: Diversity,  
Dynamics and Therapy

Graham Hatfull is an Eberly Family Professor of Biotechnology and HHI Professor in the Department of Biological Sciences in the Kenneth P. Dietrich School of Arts and Sciences at the University of Pittsburgh, USA. He has recently been elected as the member of the American Academy of Arts and Sciences.



**June 17, 2020**

6:30 pm IST 9:00 am EDT

*Umesh*

*Koninika Ray*

**Koninika Ray, Ph.D.**  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohst.us  
+91 9350284900

2020-2021

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1. Prof. Yves Briers, Associate Professor at the Department of Biotechnology at Ghent University, Belgium on 'From discovery to high-throughput on July 09,2020

**Koninika Ray, Ph.D.**  
Director, Biomedical Research  
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**OHSL**

**International Bacteriophage Research Consortium**

Presents lecture by

**Professor Yves Briens**

From discovery to high-throughput engineering of phage lysins targeting Gram-negative bacteria

Prof. Yves Briens is Associate Professor at the Laboratory of Applied Biotechnology at Ghent University, Belgium. His research focus is on synthetic biology of modular proteins with a keen interest in bacteriophage-encoded lysins for biocontrol of multi-drug resistant pathogens. Recently, they have developed an ingenious platform that gives turbo boost to the development of new antibiotics.

**July 09, 2020**  
5:00 pm IST = 1:30 pm CEST

@phageconsortium

<https://bit.ly/2dWkrD4>

*Omni*

*Koninika Ray*

**Koninika Ray, Ph.D.**  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9350284900

2. Prof. Paul Turner, Rachel Carson Professor of Ecology & Evolutionary Biology & Microbiology, Yale University; Faculty member at Yale School of Medicine, USA on 'Challenges in commercially developing phage therapy to target drug-resistant bacteria'. January, 27 2021.

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Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9350284900

3. IBRC-PhageDirectory webinar series on 'Phage Bioinformatics': 1. Dr Deborah Jacobs-Sera, Department of Biological Sciences, University of Pittsburgh, USA.

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Topic: 'Genomic annotation and comparative bioinformatics analysis of action bacteriophages' February 16, 2021

*Koninika Ray*

Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.ios  
+91 9950284900

*Deborah Jacobs-Sera*

OHSL Phage Directory IBRC

**Phage Bioinformatics Lecture Series**  
Hosted by  
**IBRC-Phage Directory**

**Deborah Jacobs-Sera**  
Genomic Annotation and  
Comparative Bioinformatic  
Analysis of Actinobacteriophages

Deborah Jacobs-Sera, Senior Researcher,  
Hatfull Lab; Coordinator of PHIRE & SEA-  
PHAGES Project Materials, Department of  
Biological Sciences, University of Pittsburgh,  
USA

**February 16, 2021**  
6:30 pm IST  
8:00 am EST

@phageconsortium  
@phagedirectory

QR Code  
https://bit.ly/3JOPR0

- Ms. Katelyn McNair, University of California Irvine & San Diego State University, USA. Topic: 'Phage genome annotation: the right way and/or the easy way'. March 02, 2021

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*Koninika Ray*

*Ummal*

Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohsl.us  
+91 9350284900

OHSL Phage Directory IBRC

## Phage Bioinformatics Lecture Series

Hosted by  
IBRC-Phage Directory

**Katelyn McNair**  
Phage genome annotation: the right way and/or the easy way!

Katelyn McNair, Research Scholar, University of California, Irvine and San Diego State University, USA. Developer of the first gene finder software PHANOTATE, specifically designed for phage genome annotation & PHACTS for the prediction of temperate/virulent phages.

**March 2, 2021**  
9:00 pm IST  
7:30 am PST

@phageconsortium  
@phagedirectory

Scan to Register for  
https://ibrc.usc.edu/PhageBio

*Ummal*

*Koninika Ray*

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Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohst.us  
+91 9356284900

## 5. IBRC-Phage Informatics Lecture series by Dr. Jason Gill on April 07, 2021

OHSL Phage Directory IBRC

### Phage Bioinformatics Lecture Series

Hosted by  
IBRC-Phage Directory

**Dr. Jason Gill**  
Phage genome annotation pipelines  
in CPT Galaxy and WebApollo

Dr. Jason Gill: Associate Professor, Department of Animal Science, Associate Director, Center for Phage Technology (CPT), Texas A&M University. Holds joint appointment with the Faculty of Genetics & the Department of Microbial Pathogenesis and Immunology in the College of Medicine, Current chair of Division M of the American Society for Microbiology.  
Research focus: phage genomics, basic phage biology, and the applications of phages in real-world settings against bacterial pathogens including *E. coli*, *Salmonella*, *S. aureus*, *K. pneumoniae*, and *A.baumannii*

**April 7, 2021**  
8:30 pm IST | 10:00 am CT

@phageconsortium  
@phagedirectory

Scan to Register QR  
<https://www.lync.com/9356284900>

## 6. Phage Bioinformatics Lecture Series Hosted by IBRC Phage directory on March 30, 2021 by Justin Clark.

*Koninika Ray*

Koninika Ray, Ph.D.  
Director, Biomedical Research  
Open Health Systems Laboratory  
koninika.ray@ohst.us  
+91 9356284900

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OHSL Phage Directory IBRC

## Phage Bioinformatics Lecture Series

Hosted by  
IBRC-Phage Directory

**Dr. Justin Clark**  
TAILΦRED Medicine: bioinformatic analysis of bacteriophages for therapeutic use and lessons learned from single patient cases

Dr. Justin Clark is the Lead Data Scientist and Co-founder of TAILΦRED, a Baylor College of Medicine bacteriophage initiative, Houston, Texas, USA.  
Research focus: therapeutic use of bacteriophages and comparative genomics of ESKAPE pathogens.

**March 30, 2021**  
8:30 pm IST  
10:00 am CT

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@phagedirectory

Scan to Register OR  
<https://2021.03.30.phageconsortium.org>

Koninika Ray, Ph.D.  
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2021-2022

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## IBRC Symposium: Phage Lysins: Promising alternatives to antibiotics on July 09, 2021.

Department of Biomedical Science organized IBRC Online Symposium on “Phage Lysins: Promising alternatives to antibiotics”. Resource persons for the symposium were Dr T.S. Balganesh, President Ganga Jain Biotechnology Pvt. Ltd., Mr Sukumar Hariharan, Head of Development, GBPL, India, Dr Vincent A. Fischetti, Prof. and Head, Laboratory of Bacterial Pathogenesis, Rockefeller University, US



### IBRC Symposium

Presents

#### Phage Lysins: Promising alternatives to antibiotics



**Dr T. S. Balganesh**

President,  
GangaGen Biotechnologies Pvt.  
Ltd. (GBPL)  
Member, Board of Directors,  
GBPL, INDIA.



**Mr Sukumar Hariharan**

Head of Development,  
GBPL, INDIA



**Dr. Vincent A. Fischetti**

Professor & Head,  
Laboratory of Bacterial  
Pathogenesis and Immunology,  
Rockefeller University, U.S.A.

“  
A brief overview of  
US Bacteriophage  
Research Landscape  
”

**Joseph Campbell**

NIAID Program Officer & Leader  
of NIAID Bacteriophage Interest  
Group, U.S.A.

July 9, 2021

7:30 pm IST | 10:00 am ET



@phageconsortium



Scan to Register  
OR Use the Link:  
shorturl.at/cpCV3

*Konika Ray*

**Konika Ray, Ph.D.**  
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*Konika Ray*

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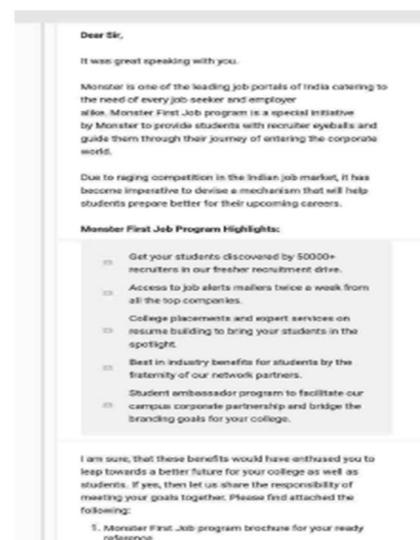
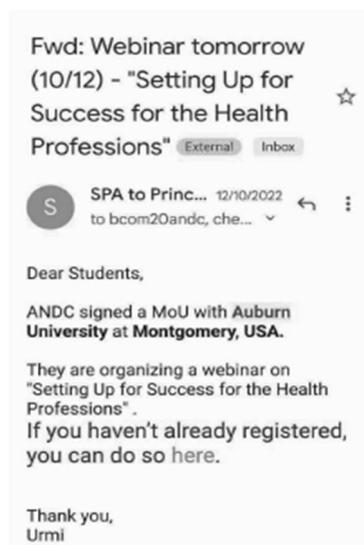
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## Activity conducted under MoU signed between Auburn University, Montgomery, Alabama, USA and Acharya Narendra Dev College

A webinar was organized on "Setting Up for Success for the Health Professions" on 12/10/2022.



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become imperative to devise a mechanism that will help students prepare better for their upcoming careers.

**Monster First Job Program Highlights:**

- Get your students discovered by 50000+ recruiters in our fresher recruitment drive.
- Access to job alerts matters twice a week from all the top companies.
- College placements and expert services on resume building to bring your students in the spotlight.
- Best in industry benefits for students by the fraternity of our network partners.
- Student ambassador program to facilitate our campus corporate partnership and bridge the branding goals for your college.

I am sure, that these benefits would have enthused you to leap towards a better future for your college as well as students. If yes, then let us share the responsibility of meeting your goals together. Please find attached the following:

1. Monster First Job program brochure for your ready reference
2. MoU draft for review and finalization

So, take a quick step to connect and collaborate for a better tomorrow!

Warm Regards,  
Ganapati Shanmukh Sai,  
Asst. Manager - Marketing  
9701944007

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## Actual Activities conducted under MoU signed with Collaboration with IIT, Delhi

Organized an online workshop on Initiating Virtual Labs in collaboration with IITD on August 24, 2021.

ACHARYA NARENDRA DEV COLLEGE  
UNIVERSITY OF DELHI  
DBT STAR COLLEGE  
ACCREDITED 'A' GRADE BY NAAC/ ALL INDIA NIRF 2020 RANKING-18  
Under the aegis of IQAC & DBT STAR College Scheme

**Workshop**  
on  
**"Initiating Virtual Labs @ ANDC"**  
in collaboration with  
**Indian Institute of Technology-Delhi**

August 24, 2021  
04:00 to 05:30 pm  
Register at : <https://forms.gle/dXJb4Fh6Uzeuhk3f7>

Patron  
Prof. Ravi Toteja  
(Officiating Principal)

Dr. Sumit Sahni  
Department of Botany  
(Nodal Coordinator)

Dr. Vineet Kumar Singh  
Department of Botany  
(Nodal Co-coordinator)

Nodal Officer



## WORKSHOP REPORT OF VIRTUAL LABS

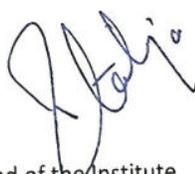


An online Workshop on Virtual Labs was organized successfully on **24/08/2021** for **Acharya Narendra Dev College, University Of Delhi**, for Faculty members & Students from various disciplines (**Applied Sciences, CSE, ECE/EE, Biotech, Civil and ME**) by Virtual Labs team, IIT Delhi. Virtual Labs mentors for this workshop were **Mr. Tanmay Das, Mr. Prateek Sharma & Mr. Shivam Sundaram**. Total of **42** Faculty members & **43** Students attended the workshop. The detailed report of the workshop is given below:

Session	Time	Discipline	Labs / Experiments Demonstrated	No of Students attended (X)	No of Faculties attended (Y)
1	04:00 - 05:30	CS, Electronics, Biomedical Sciences, Botany, Zoology, Physics, Chemistry, Mathematics & Applied Sciences	<ul style="list-style-type: none"><li>• Molecular Fluorescence Spectroscopy Lab</li><li>• Digital Electronics Lab-I</li><li>• Solid State Physics Virtual Lab</li><li>• Image Processing Lab</li><li>• Cell Biology Virtual Lab I</li><li>• Molecular biology Virtual Lab I</li><li>• Analog Electronics Lab</li><li>• Inorganic Chemistry Virtual Lab</li><li>• Python Programming Lab</li><li>• Transportation Engineering Lab</li></ul>	43	42
<b>Total attendees (X+Y)</b>					<b>85</b>

*\*NOTE: Photographs of this workshop will be submitted separately.*

  
Nodal Coordinator

  
Head of the Institute  
Officiating Principal  
Acharya Narendra Dev College

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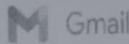
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## Activities conducted under MoU signed between Skill Hub Initiative under PMKVY and Acharya Narendra Dev College

2021-2022

Acharya Narendra Dev Kaushal Kendra, Skill Hub @ ANDC is selected as a Training Provider for the two Courses – 400 hour “Web Developer” Course and 240 hour “Jam, Jelly and Ketchup Processing Technician” Course. Only Indian candidates with a valid Aadhar Card will be able to apply in these free courses. The classes for the same will be held six days a week in the college. Minimum 70% attendance is required by the candidates to sit in the examination. Candidates will get Rs 500/- (deposited directly to the beneficiary candidate account) as the reward money after the completion of the course. In this academic session, the college is running the Web Developer Course since March 14, 2022.



Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

### Fwd: Skill Hub Initiative Under PMKVY - Login Credentials

From: Dr. Sanita Kumar <saritakumar@andc.du.ac.in> Fri, Feb 25, 2022 at 2:57 PM  
To: "Dr. Pooja Bhagat" <poojabhagat@andc.du.ac.in>, "Ashu,roh." <ashuroh@andc.du.ac.in>

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

From: <admsupport@redondia.org>  
Date: Tue, Feb 1, 2022 at 12:51 AM  
Subject: Skill Hub Initiative Under PMKVY - Login Credentials  
To: <saritakumar@andc.du.ac.in>

Dear Training Provider (TP),

This is with regards to Skill Hub Initiative (SHI) under Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 for which your Registration on Skill India Portal (SIP) has been completed successfully.

Your login credentials for TP and Training Centre (TC) are appended below. You are requested to log on to <https://skillindia.gov.in> and fill in your Bank details in the requisite section.

TP ID: TP104735  
Password: ekaushal

In case of any query, you may write to us on [skillhub@redondia.org](mailto:skillhub@redondia.org) or call on our helpline numbers: 011-47451071, 7273 and 75.  
Thank You,  
Operations team, NSDC

संजय कुमार  
Sanita Kumar  
Professor  
Department of Zoology  
Acharya Narendra Dev College

(University of Delhi)  
+91-886103439912

Bhagat

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Acharya Narendra Dev College, Govindpuri, Kalkaji

Web Developer Course Attendance

S.No	Attendance Id	Name	Users Designation	Total Days 16/1 to 10/5	Attendance 16/1 to 10/5	Total Days 11/5 to 9/6	Attendance 11/5 to 9/6	Total Days 13/6 to 6/9	Attendance 13/6 to 6/9	Total (Days)	Total (Attendance)
1	61313183	Abhishek Gustin	Trainer	37	37	25	24	19	21	101	77
2	6274755	Ajay Yadav	Trainee	37	37	25	23	29	16	101	96
3	90930638	Anisha Sharma	Trainee	37	29	25	24	19	26	101	79
4	79516083	Ankit Kumar	Trainee	37	37	25	24	29	25	101	96
5	43723001	Arpit Talan	Trainee	37	28	25	7	19	0	101	35
6	35055970	Ayushi Aggarwal	Trainee	37	22	25	7	19	0	101	29
7	66059832	Deepak Bhatti	Trainee	37	21	25	25	19	11	101	80
8	8530581	Durpesh	Trainee	37	35	25	24	19	11	101	96
9	61883954	Hanshika Shukla	Trainee	37	26	25	23	19	4	101	51
10	64425204	Himani Rawat	Trainee	37	31	25	25	19	24	101	80
11	33060004	Jatin Kumar	Trainee	37	25	25	23	19	10	101	78
12	41679806	Kirti Rawat	Trainee	37	20	25	24	19	11	101	55
13	85378039	Manu	Trainee	37	30	25	24	19	17	101	86
14	17376403	Naman Kumar	Trainee	37	25	25	24	19	10	101	79
15	70209620	Ritun Singh Gusain	Trainee	37	28	25	21	19	11	101	84
16	32986281	Kashmi	Trainee	37	30	25	25	19	11	101	90
17	21013596	Shakti Dwivedi	Trainee	37	28	25	23	19	10	101	83
18	13153663	Shubham Pratap Singh	Trainee	37	28	25	23	19	11	101	80
19	83402199	Vikas Kumar	Trainee	37	31	25	25	19	17	101	93

*[Signature]*  
Principal, Acharya Narendra Dev College, Govindpuri, Kalkaji, University of Delhi

Blagat

**THIS MEMORANDUM OF UNDERTANDING IS ENTERED INTO**  
**ON 1<sup>st</sup> November 2018**

By & Between

**ANDC inStart Foundation**, a Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013, promoted by Acharya Narendra Dev College, University of Delhi constituent College. ANDC inStart Foundation envisages building livelihoods in a sustainable manner through incubation of start-ups. The ANDC inStart Foundation functions from its host institution's present campus at GovindPuri, Kalkaji, New Delhi, India – 110019 (hereinafter referred to as the "**First Party**").

**AND**

Jagannath Institute of Management Studies, JIMS Kalkaji, is one of the top Management College in Delhi, functions under the aegis of the Jagannath Gupta Memorial Educational Society, a registered non-profit organization. The society is reputed for imparting high quality education and thereby creating a pool of professionally qualified and skilled managers and entrepreneurs to meet the growing needs of trade and industry.

JIMS Kalkaji's current address is Jagannath International Management School (JIMS) MOR Pocket 105, Kalkaji, New Delhi-110019 (hereinafter referred to as the "**Second Party**").

**RECITAL:**

Whereas ANDC inStart Foundation is a charitable organization engaged in the activities of fostering and nurturing of entrepreneurs of all levels recognizing the importance of rapidly emerging technology and dissemination of information of crucial themes related to Entrepreneurship. It operates a Business Incubator and has been able to develop necessary expertise in mentoring, supporting and funding of early stage startups.

ANDC inStart Foundation has a focus to build an ecosystem that would encourage and support youth entrepreneurship and leadership among students and youth through education and incubation.

**And WHEREAS, JIMS Kalkaji**, is a management college with special emphasis on entrepreneurship and new venture creation. It has Entrepreneurship as one of the specializations being offered to its students in their final year.

**AND WHEREAS**, in lieu of good and valid consideration as mentioned in this agreement, Parties have agreed to put the terms and conditions of this Agreement as below:

**DURATION:**

**CONFIDENTIALITY:**

**COORDINATION from ANDC inStart:**

The engagement will be coordinated by-

**COORDINATION from JIMS, Kalkaji:**

**TERMS OF ENGAGEMENT**

- ANDC inStart to provide support to JIMS, Kalkaji in the area of entrepreneurship development.
- ANDC inStart through its officials and/or designated mentors shall support the students of JIMS, Kalkaji who are pursuing specialization in Entrepreneurship.
- The support will include mentoring sessions of cumulative 8 hours per students, either through individual one-to-one sessions, in small groups or jointly with other such sessions being organized by the incubator from time to time.
- ANDC inStart will help the students prepare their project report towards partial fulfillment of the academic requirement for their PGDM program.
- The engagement shall also aim at enabling students to fine tune their business plans in such a way that it becomes market/investor ready.
- The engagement will be symbiotic in nature and the business incubator at ANDC inStart Foundation shall be the preferred Business Incubators for JIMS, Kalkaji.
- The engagement is without consideration and shall be a pre-cursor to a deeper engagement later.

**Accepted and Agreed**

**For ANDC inStart Foundation**



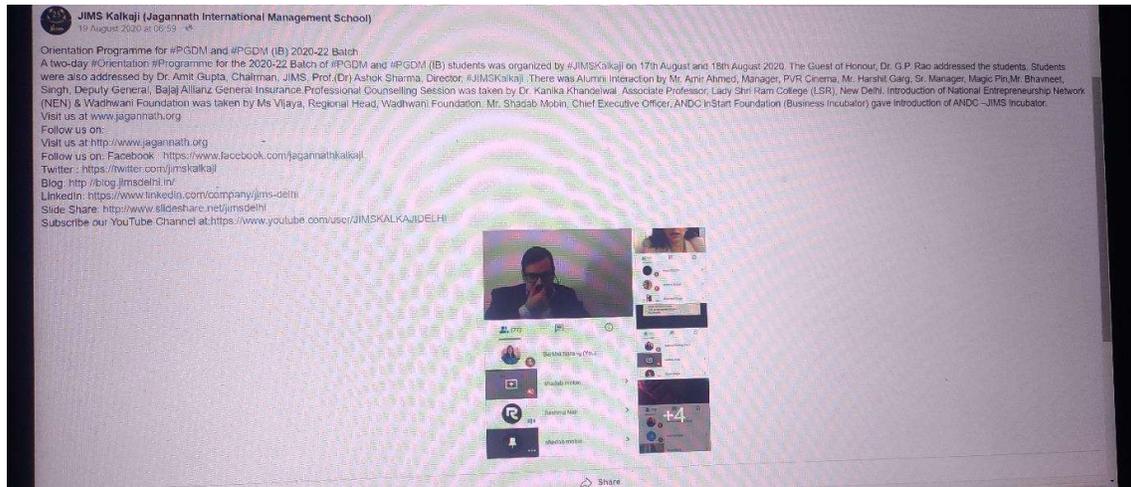
**Authorised Signatory**  
Name: Dr. Amit Garg  
Chairperson, ANDC inStart Foundation

**For JIMS, KALKAJI**



**Authorised Signatory**  
Dr. (Mrs) Batsheeta  
Director General

# SI No 1





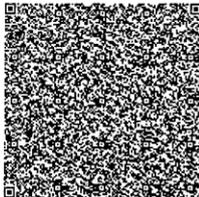
सत्यमेव जयते

# INDIA NON JUDICIAL

## Government of National Capital Territory of Delhi

### e-Stamp

<b>Certificate No.</b>	: IN-DL06745700004413Q
<b>Certificate Issued Date</b>	: 22-Nov-2018 03:48 PM
<b>Account Reference</b>	: IMPACC (IV)/ dl857503/ DELHI/ DL-DLH
<b>Unique Doc. Reference</b>	: SUBIN-DL85750318389991495057Q
<b>Purchased by</b>	: MEGA APP DEVELOPERS PVT LTD
<b>Description of Document</b>	: Article 5 General Agreement
<b>Property Description</b>	: Not Applicable
<b>Consideration Price (Rs.)</b>	: 0 (Zero)
<b>First Party</b>	: MEGA APP DEVELOPERS PVT LTD
<b>Second Party</b>	: Not Applicable
<b>Stamp Duty Paid By</b>	: MEGA APP DEVELOPERS PVT LTD
<b>Stamp Duty Amount(Rs.)</b>	: 100 (One Hundred only)



.....Please write or type below this line.....

### Incubation Agreement

This Agreement is made on this 22<sup>ND</sup> day of November 2018 by and between MEGA APP DEVELOPERS PRIVATE LIMITED, a Company registered under the Companies Act 1956, having its registered office at Office: 110, Deepali Building, 92, Nehru Place, New Delhi - 110019 (CIN: U72900DL2016PTC301508) through its Director Mr. KANAV MADNANI herein after referred to as "Resident company or incubatee" which expression shall include unless it be repugnant to the context or meaning thereof mean and include their successors, representatives, assigns, promoters etc.)

..... OF THE FIRST PART Pvt. Ltd.  
For Mega App Developers Pvt. Ltd.

..... OF THE SECOND PART Pvt. Ltd.

#### Statutory Alert:

1. The authenticity of this Stamp Code is available on the website [www.shoilestamp.com](http://www.shoilestamp.com). Any discrepancy in the details on this Certificate and as available on the website shall be void.
2. The onus of checking the legitimacy is on the users on the certificate.

AND

ANDC inStart Foundation [Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013] a business incubator promoted by Acharya Narendra Dev College (ANDC), Govindpuri, Kalkaji, New Delhi 110 019 (hereinafter referred to as 'AIF' which expression shall include unless it be repugnant to the context or meaning thereof with a mission to foster successful entrepreneurs and develop industry in the Knowledge and Technology based area ...OF THE SECOND PART.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

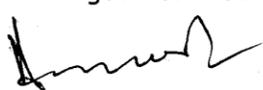
**1. Objectives**

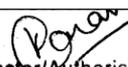
ANDC inStart Foundation agrees to incubate **WePark a venture by MEGA APP DEVELOPERS PRIVATE LIMITED** in its business incubator at ANDC, New Delhi. The purpose of incubation unit will be to:

- Promote & interact with, and resource technology/expertise from faculty members and research scholars and laboratory infrastructure in the various departments and centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Incubating novel technology and business ideas into viable commercial products or services.

**2.0 Tenure of Incubation**

**3. Facilities and Infrastructure**



  
Director/Authorised Signator

[Empty box]

**3.1 Common infrastructure**

[Empty box]

**3.2 Institute infrastructure**

[Empty box]

**3.3 Services of Professionals**

[Empty box]

**3.4 Mentoring and Advisory Facilities:** Resident Company is required to have a

[Empty box]

**3.5 Seed Funding:**

[Empty box]

*Amur*

For Mega App Developers Pvt. Ltd.

*[Signature]*  
Director/Authorised Signatory

**4. Consideration**

[Empty rectangular box for content under section 4]

**5. EXIT:**

[Empty rectangular box for content under section 5]

**6. Amendments**

[Empty rectangular box for content under section 6]

**7. Arbitration:**

[Empty rectangular box for content under section 7]

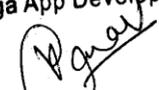


  
Director/Authorised Signatory



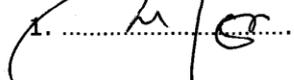
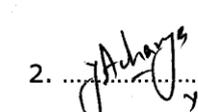
**For & on behalf of**  
MEGA APPS DEVELOPERS PRIVATE LIMITED

For Mega App Developers Pvt. Ltd.

  
Director/Authorised Signatory

Signature  
Name  
Designation  
Seal

Witness (Name & Address)

1.   
SHADAB MOBSIN  
B01, Alexandria - D  
Gurgaon, Sec 93B  
Noida
2.   
YASHWANT ACHARYA  
F-102, Peepal Wala Road,  
Mohan Garden, Uttam Nagar,  
New Delhi - 110059

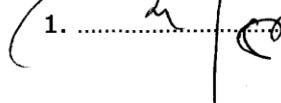
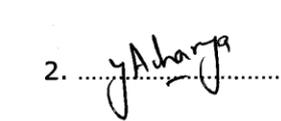
**For & on behalf of**  
ANDC Instart Foundation  
New Delhi



Signature  
Name Dr. Amit Chary  
Designation Chairperson  
Seal



Witness (Name & Address)

1. 
2. 

Confidential Information has been hidden as per the company policy



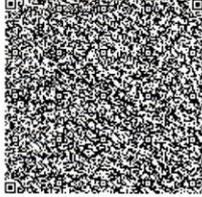
सत्यमेव जयते

## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

#### e-Stamp

Certificate No.	: IN-DL13335824474034Q
Certificate Issued Date	: 07-Dec-2018 03:10 PM
Account Reference	: IMPACC (IV)/ dl851303/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL85130331660587381916Q
Purchased by	: MS SPONSORCHAMPZ PVT LTD
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: MS SPONSORCHAMPZ PVT LTD
Second Party	: Not Applicable
Stamp Duty Paid By	: MS SPONSORCHAMPZ PVT LTD
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



.....Please write or type below this line.....

#### Incubation Agreement

This Agreement is made on this 07<sup>th</sup> day of December 2018 by and between MS Sponsorchampz Pvt. Ltd., a Company registered under the Companies Act 1956, having its registered office at Office: 1179, Sector 11, Panchkula, Haryana 134112 (CIN: U74999HR2017PTC071205) through its Director Mr. Chetan Sehgal herein after referred to as "Resident company or incubatee" which expression shall include unless it be repugnant to the context or meaning thereof mean and include their successors, representatives, assigns, promoters etc.) .....OF THE FIRST PART

AND

#### Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

ANDC inStart Foundation [Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013] a business incubator promoted by Acharya Narendra Dev College (ANDC), Govindpuri, Kalkaji, New Delhi 110 019 (hereinafter referred to as 'AIF' which expression shall include unless it be repugnant to the context or meaning thereof with a mission to foster successful entrepreneurs and develop industry in the Knowledge and Technology based area ...OF THE SECOND PART.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

**1. Objectives**

ANDC inStart Foundation agrees to incubate **MS Sponsorchampz Pvt. Ltd.** in its business incubator at ANDC, New Delhi. The purpose of incubation unit will be to:

- Promote & interact with, and resource technology/expertise from faculty members and research scholars and laboratory infrastructure in the various departments and centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Incubating novel technology and business ideas into viable commercial products or services.

**2.0 Tenure of Incubation**

**3. Facilities and Infrastructure**



[Empty rectangular box]

**3.1 Common infrastructure**

[Empty rectangular box]

**3.2 Institute infrastructure**

[Empty rectangular box]

**3.3 Services of Professionals**

[Large empty rectangular box]

**3.4 Mentoring and Advisory Facilities:** Resident Company is required to have a

[Empty rectangular box]

**3.5 Seed Funding:**

[Empty rectangular box]

*[Handwritten signature in blue ink]*

*[Handwritten signature in black ink]*

**4. Consideration**

**5 EXIT:**

**6. Amendments**

**7. Arbitration:**

parties. The place of arbitration shall be New Delhi.





In witness whereof parties hereto have signed this Incubation Agreement on the date and year mentioned hereinbefore.

**For & on behalf of  
MS Sponsorchampz Pvt. Ltd**

**For & on behalf of  
ANDC Instart Foundation  
New Delhi**

Signature  
Name **CHETAN SEHGAL**  
Designation **DIRECTOR**  
Seal

Signature  
Name  
Designation  
Seal

Witness (Name & Address)

- 1. **Mata Naga Sneha Sai**  
237/4, upper ground floor,  
Chhattarpur 2nd phase  
New delhi

Witness (Name & Address)

- 1. **N. Yashwant Acharya**  
F-102, Peepal Wala Road,  
Mohan Garden, Uttam Ngr  
New Delhi - 110059

Confidential Information has been hidden as per the company policy

# INDIA NON JUDICIAL

Government of National Capital Territory of Delhi



सत्यमेव जयते

## e-Stamp

Certificate No.	: IN-DL53330905339737R
Certificate Issued Date	: 06-Mar-2019 01:20 PM
Account Reference	: IMPACC (IV) dl708403/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL70840312614627258960R
Purchased by	: METVY NET PRIVATE LIMITED
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero only)
First Party	: METVY NET PRIVATE LIMITED
Second Party	: Not Applicable
Stamp Duty Paid By	: METVY NET PRIVATE LIMITED
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



.....Please write or type below this line.....

### Incubation Agreement

This Agreement is made on this 06<sup>th</sup> Day of March 2019 by and between **Metvy Net Private Limited**, a Company registered under the Companies Act 1956, having its registered office at Office: M-45 Block, R & R Govt. Employees, CGHS Limited, II Extension, New Delhi - 110092 (CIN: U72500DL2019PTC344445) through its Director Mr. Shawrya Mehrotra herein after referred to as "incubatee" which expression shall include unless it be repugnant to the context or meaning thereof mean and include the For success ONE, representatives, assigns, promoters etc.) .....OF THE FIRST PART

*Shawrya Mehrotra*

AND

*[Signature]*

#### Statutory Alert:

DIRECTOR

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority/

ANDC inStart Foundation [Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013] a business incubator promoted by Acharya Narendra Dev College (ANDC), Govindpuri, Kalkaji, New Delhi 110 019 (hereinafter referred to as 'AIF' which expression shall include unless it be repugnant to the context or meaning thereof with a mission to foster successful entrepreneurs and develop industry in the Knowledge and Technology based area ...OF THE SECOND PART.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

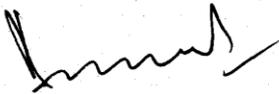
**1. Objectives**

ANDC inStart Foundation agrees to incubate **Metvy Net Pvt. Ltd.** in its business incubator at ANDC, New Delhi. The purpose of incubation unit will be to:

- Promote & interact with, and resource technology/expertise from faculty members and research scholars and laboratory infrastructure in the various departments and centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Incubating novel technology and business ideas into viable commercial products or services.

**2.0 Tenure of Incubation**

**3. Facilities and Infrastructure**



FOR METVY NET PRIVATE

**3.1 Common infrastructure**

**3.2 Institute infrastructure**

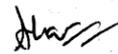
**3.3 Services of Professionals**

**3.4 Mentoring and Advisory Facilities:** Resident Company is required to have a

**3.5 Seed Funding:**



For METVY NET PRIVATE LIM.



DIR

**4. Consideration**

[Redacted]

**6. Amendments** Notwithstanding anything contained hereinabove or in the 'SALIENT

[Redacted]

**7. Arbitration:**

[Redacted]

[Redacted]

*[Handwritten signature]*

For and on behalf of NET PRIVATE LIMITED

*[Handwritten signature]*

DIRECTOR

In witness whereof parties hereto have signed this Incubation Agreement on the date and year mentioned hereinbefore.

**For & on behalf of  
Metvy Net Pvt. Ltd.**

**For & on behalf of  
ANDC Instart Foundation  
New Delhi**

*[Handwritten Signature]*

Signature *[Handwritten Signature]*  
Name SHANRYA NGHROTRA  
Designation DIRECTOR  
Seal For METVY NET PRIVATE LIMITED

Witness (Name & Address) *[Handwritten Signature]*  
DIRECTOR  
1. <sup>Mehrotra</sup> Sudha Singhania  
1044, 1st Floor  
SFCO Colony  
Gurgaon

*[Handwritten Signature]*

Signature  
Name Dr. Amit Karg  
Designation *[Handwritten Signature]*  
Seal 

Witness (Name & Address) *[Handwritten Signature]*  
1. YASHWANT ACHARYA  
F-102, PEPAL WALA ROAD,  
MOHAN GARDEN, VITAM  
NAGAR, N.D-59

Confidential Information has been hidden as per the company policy



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# MEMORANDUM OF UNDERSTANDING

---

BETWEEN



**ANDC inStart Foundation**



MARCH 15, 2019

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ANDC inStart Foundation



**THIS MEMORANDUM OF UNDERTANDING IS ENTERED INTO**  
**ON 15<sup>th</sup> Day of March, 2019**

By AND Between

**ANDC inStart Foundation**, a Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013, promoted by Acharya Narendra Dev College, University of Delhi constituent College. ANDC inStart Foundation envisages building livelihoods in a sustainable manner through incubation of start-ups. The ANDC inStart Foundation functions from its host institution's present campus at GovindPuri, Kalkaji, New Delhi, India – 110019 (hereinafter referred to as the "**ANDC-inStart**").

**AND**

Jagannath Institute of Management Studies, JIMS Kalkaji, is one of the top Management College in Delhi, functions under the aegis of the Jagannath Gupta Memorial Educational Society, a registered non-profit organization. The society is reputed for imparting high-quality education and thereby creating a pool of professionally qualified and skilled managers and entrepreneurs to meet the growing needs of trade and industry.

JIMS Kalkaji's current address is Jagannath International Management School (JIMS) MOR Pocket 105, Kalkaji, New Delhi-110019 (hereinafter referred to as the "**JIMS - Kalkaji**").

**RECITAL:**

Whereas ANDC inStart Foundation is a not for profit organization engaged in the activities of fostering and nurturing of entrepreneurs of all levels recognizing the importance of rapidly emerging technology and dissemination of information of crucial themes related to Entrepreneurship. It operates a Business Incubator and has been able to develop necessary expertise in mentoring, supporting and funding of early stage startups.

ANDC inStart Foundation has a focus to build an ecosystem that would encourage and support youth entrepreneurship and leadership among students and youth through education and incubation.

**And WHEREAS, JIMS Kalkaji**, is a management college with special emphasis on entrepreneurship and new venture creation. It has Entrepreneurship as one of the specializations being offered to its students in their final year.

**JIMS** has expressed its desire to jointly set up Business Incubator facility within JIMS Kalkaji premises (detailed in Annexure I). The terms as agreed is listed herein under.

**AND therefore**, Parties have agreed to put the terms and conditions of this Agreement as follows:

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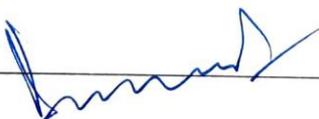
**TERMS OF ENGAGEMENT**

- The facility shall be known as “**ANDC inStart - JIMS Business Incubator**”
- **JIMS Kalkaji** shall provide office space equipped with necessary utilities required for smooth functioning of the businesses of the incubatee companies.  
(listed in Annexure II)
- **ANDC inStart** to run and manage the facility independently as an extension to the existing facility of ANDC inStart.
- The induction of incubatee companies in the incubator shall be through ANDC inStart’s evaluation criteria and process. JIMS Kalkaji shall support in the process by including its faculty members and experts as required from time to time.

**DURATION:**

**CONFIDENTIALITY:**

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**ANDC inStart Foundation**



**COORDINATION from ANDC inStart:**

[Empty box for coordination from ANDC inStart]

**COORDINATION from JIMS, Kalkaji:**

[Empty box for coordination from JIMS, Kalkaji]

**Accepted and Agreed**

**For ANDC inStart Foundation**

**For JIMS, KALKAJI**

**Authorised Signatory**  
Name: Dr. Amit Garg  
Chairperson, ANDC inStart Foundation

**Authorised Signatory**  
**Dr. (Cdr.) SATISH SETH**  
Director-General  
Jagannath International  
Management School

**Confidential Information has been hidden as per the company policy**

SI No 5





## Memorandum of Understanding

Between

**The National Institute for Entrepreneurship and Small Business Development (NIESBUD)**

And

**ANDC inStart Foundation, Acharya Narendra Dev College (University of Delhi)**

This “Memorandum of Understanding” hereinafter referred to as ‘MOU’ is signed on 27 Day of June, 2019 between the following parties.

The National Institute for Entrepreneurship and Small Business Development (NIESBUD), an autonomous institution, under Ministry of Skill Development and Entrepreneurship having its principal office, located at A-23, Sector 62, Institutional Areas Noida-201309, NCR of Delhi, Uttar Pradesh through its authorized representative.

And

ANDC inStart Foundation, Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013 through its authorized representative, ANDC inStart Foundation has been promoted by Acharya Narendra Dev College (A University of Delhi Constituent College). Its primary objective includes promotion of skill development, education and R&D in India with a focus on technology for immediate use in Indian society. The ANDC inStart Foundation, Acharya Narendra Dev College, University of Delhi functions from its host institution’s present campus at Acharya Narendra Dev College GovindPuri, Kalkaji, New Delhi, India – 110019

Each shall be referred to in MOU individually as “Party” or collectively as “Parties.”

### 1. Objectives

The primary objective of this MOU is to enable the parties to identify mutual collaboration opportunities bringing together the strength of both NIESBUD and ANDCinStart Foundation toward sustained development of entrepreneurial skills, entrepreneurship education and facilitated trainings aimed at creating a conducive environment to promote entrepreneurship on and off campus through a series of mutually agreed collaborative and value-added programs.

### 2. Areas of Collaboration



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**3. Roles & Contribution of Parties**

[Empty rectangular box for content]

**4. Implementation and Monitoring**

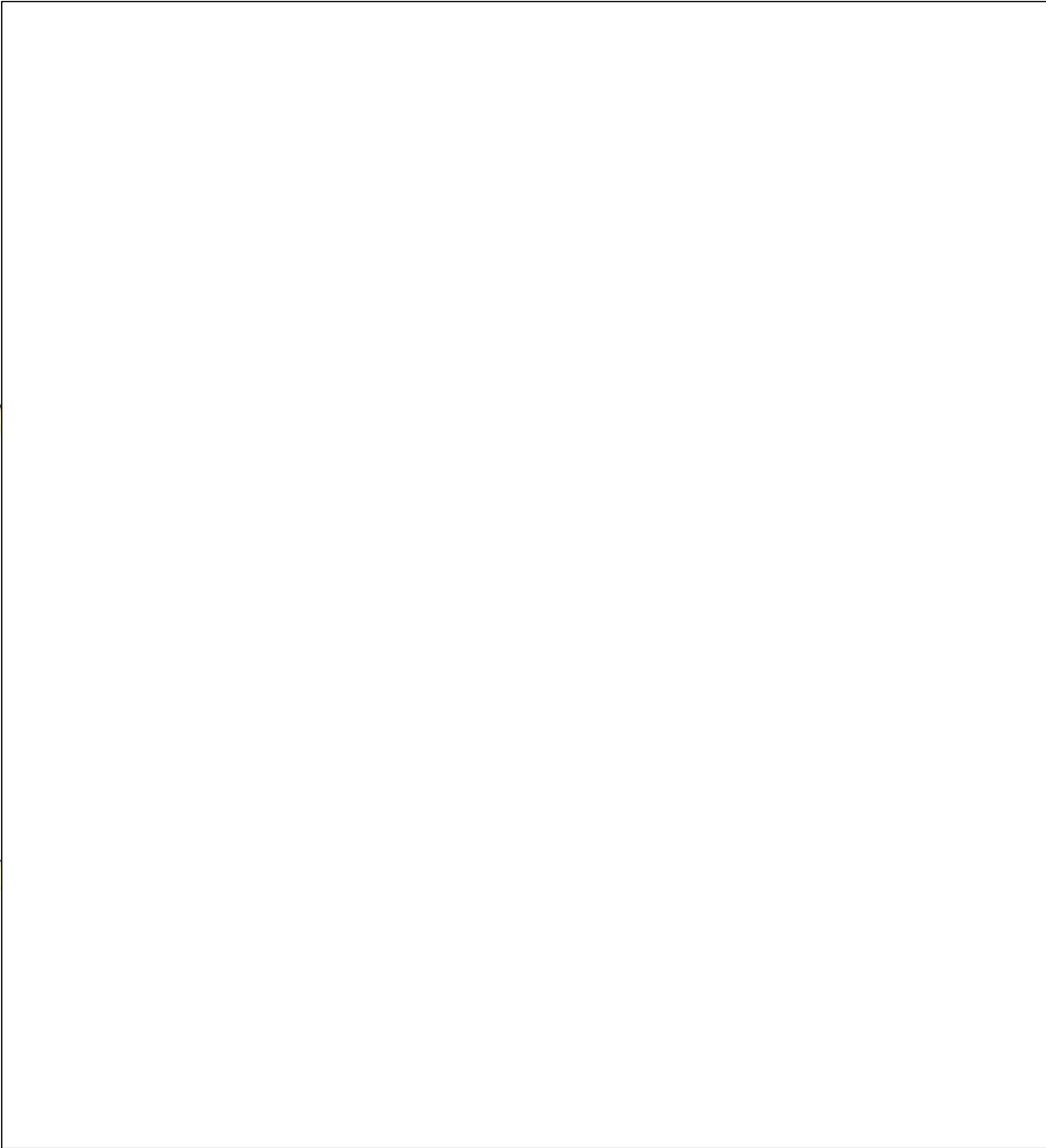
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*[Handwritten signature]*

*[Handwritten signature]*



5. General Provisions

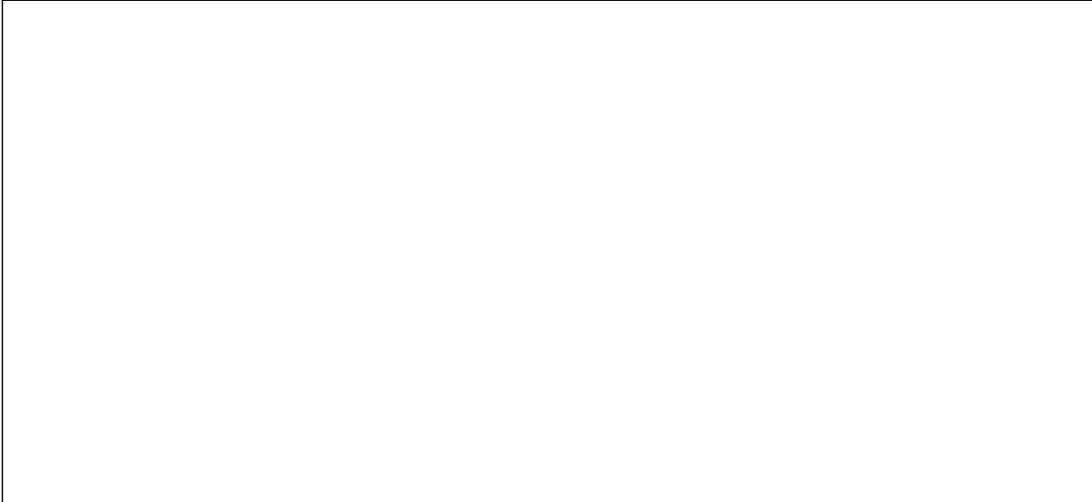


A handwritten signature in blue ink, consisting of a stylized initial followed by a horizontal line.

A handwritten signature in blue ink, consisting of a stylized initial followed by a horizontal line.



**6. Validity, Commencement & Termination:**



Signature: 

For on behalf of NIESBUD  
Sh. Rajesh Aggarwal  
Director General  
A-23, Institutional Area, Sector 62,  
Noida, Uttar Pradesh- 201309.

Signature: 

For on behalf of ANDCinStart Foundation  
Dr. Amit Garg  
Chairman,  
ANDC inStart Foundation,  
Acharya Narendra Dev College, University of Delhi  
Govindpuri, Kalkaji, Delhi-110019.



In the presence of

Witness

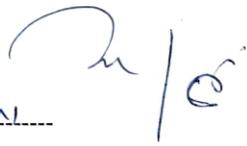
1. Poonam Singh  
Serial Jaw

Date: 27/06/2019

Seal:

In the presence of

Witness

2. SHADAB MOBIN 

Date: 27/06/2019

Seal:

Confidential Information has been hidden as per the company policy

SI No 6





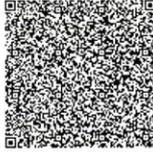
सत्यमेव जयते

## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

#### e-Stamp

Certificate No.	: IN-DL51377789944703R
Certificate Issued Date	: 06-Sep-2019 11:20 AM
Account Reference	: IMPACC (IV)/ dl847003/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL84700309261152770745R
Purchased by	: TECHBELIEVER TECHNOLOGIES PRIVATE LIMITED
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: TECHBELIEVER TECHNOLOGIES PRIVATE LIMITED
Second Party	: Not Applicable
Stamp Duty Paid By	: TECHBELIEVER TECHNOLOGIES PRIVATE LIMITED
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



-----Please write or type below this line-----

#### Incubation Agreement

This Agreement is made on this 27<sup>th</sup> day of June 2019 by and between **Techbeliever Technologies Pvt. Ltd.**, a Company registered under the Companies Act 1956, having its registered office at Office: Plot No. 176, Block B, Vikas Nagar, Uttam Nagar, Near Commando Chowk, New Delhi - 110059 (CIN: U72900DL2019PTC351911) through its Director Mr. Satyam Rastogi herein after referred to as "Resident Company" which expression shall include unless it be repugnant to the context or meaning thereof mean and include their successors, representatives, assigns, promoters etc.) .....OF THE FIRST PART

#### Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcliestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

*Satyam Rastogi*  
Director

AND

*[Signature]*

ANDC inStart Foundation [Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013] a business incubator promoted by Acharya Narendra Dev College (ANDC), Govindpuri, Kalkaji, New Delhi 110 019 (hereinafter referred to as 'AIF' which expression shall include unless it be repugnant to the context or meaning thereof with a mission to foster successful entrepreneurs and develop industry in the Knowledge and Technology based area ...OF THE SECOND PART.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

### 1. Objectives

ANDC inStart Foundation agrees to incubate **TECHBELIEVER TECHNOLOGIES PRIVATE LIMITED** in its business incubator at ANDC, New Delhi. The purpose of incubation unit will be to:

- Promote & interact with, and resource technology/expertise from faculty members and research scholars and laboratory infrastructure in the various departments and centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Incubating novel technology and business ideas into viable commercial products or services.

### 2.0 Tenure of Incubation

### 3. Facilities and Infrastructure

For Tec

 Director



**3.1 Common infrastructure**

**3.2 Institute infrastructure**

**3.3 Services of Professionals**

**3.4 Mentoring and Advisory Facilities:** Resident Company is required to have a

**3.5 Seed Funding:**

For Techbeliever Technologies Pvt. Ltd.

*Rastogi* Director

*[Handwritten Signature]*

**4. Consideration**

--

**5 EXIT:**

--	--

--

**6. Amendments**

--	--

**7. Arbitration:**

--

--

For Techbeliever Technologies Pvt. Ltd.

 Director



**For & on behalf of**  
**TECHBELIEVERS TECHNOLOGIES PVT. LTD.**

  
Signature

Name SATYAM RASTOGI  
Designation DIRECTOR

Seal For Techbeliever Technologies Pvt. Ltd.

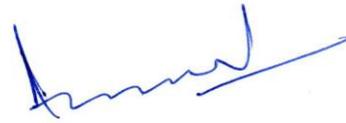
Director

Witness (Name & Address)

  
1. SHASHI BHUSHAN VERMA  
HOUSE NO. 144, POST-DUBAULIYA BAZAR,  
TAHSIL HARRINA, DIST- BASTI, UP-272141

  
2. SIDDHARTHA SRIVASTAVA  
HOUSE NO. 775, VINAYAK BIHAR COLONY BEHIND  
NEHRU PARK PILIBHIT, 262001

**For & on behalf of**  
**ANDC Instart Foundation**  
**New Delhi**



Signature

Name DR. AMIT GARG  
Designation Chairman

Seal

Witness (Name & Address)

1. ....

2. Yashwant Acharya  
F-102, Peepal Jala Road,  
Mohan Garden, Uttam Nagar,  
New Delhi - 59

Confidential Information has been  
hidden as per the company policy

# MergerDomo

## Memorandum of Understanding

The Memorandum of Understanding (MOU) is signed between the said parties on the date of last signature below and shall be effective from "9<sup>th</sup> January 2020".

### Between

**MERGERDOMO**, incorporated as MERGERDOMO SERVICES PRIVATE LIMITED and having its office at G- 115, Sector- 41, Noida, Uttar Pradesh 201303 represented by **Hormazd Charna** (which expression shall, unless repugnant to the context or meaning thereof, shall mean and include its successors and assigns);

And

**ANDC Instart Foundation**, incorporated as a company under section 8 of Companies act 2013 and having its office at Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi 110 019 represented by **Mr. Shadab Mobin – Chief Executive Officer** (which expression shall, unless repugnant to the context or meaning thereof, shall mean and include its successors and assigns);

**MERGERDOMO** and **ANDC Instart Foundation** shall hereinafter be jointly referred to as the "**Parties**" and severally as the "**Party**".

**MERGERDOMO** is an online global business growth marketplace engaged in providing deal sourcing & deal execution opportunities (buying/selling a company/division/product, joint ventures, fund raising, technology sourcing/sale/purchase, contract manufacturing capacity seeker/provider etc.)

And Whereas the Company also partners with and has registered on its portal various Investment Bankers/Advisory/Business & Technical Consultants/Financial Advisors to offer their services to Company's registered users or customers

Both the Parties hereto have identified the following areas and agree to mutually co-operate to the fullest extent;

- i.** **MERGERDOMO** and **ANDC Instart Foundation** will facilitate each other's strengths and create a collaborative ecosystem and investment deal flow for start-ups.
- ii.** Both parties will work to create collaborative ecosystem through each other's network and bring value to relevant stakeholders.
- iii.** **MERGERDOMO** and **ANDC Instart Foundation** will work together to grow start-ups by helping its 'fund raising (debt/equity of in any other form)', advisory services on a mutual consent on success fee basis. (Refer to Annexure "A" for commercials) \*

## MergerDomo

**v. MERGERDOMO** will help the Ideas from start-ups suggested by **ANDC Instart Foundation** team and curated by **MERGERDOMO** team to raise the fund and agreed on mutual consensus.

**vi. MERGERDOMO** and **ANDC Instart Foundation** will collaborate for the Events organised by both the parties.

**vii.** Any other cooperation as per mutual consent.

**1) Termination**

**2) Disclaimer**

**3) No Assignment**

**4) Counterparts**

# MergerDomo

Name : Hormazd Charna

Designation: Founder

Address : G- 115, Sector- 41, Noida, Uttar Pradesh 201303

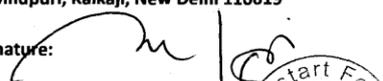
Signature:  

Date : 9<sup>th</sup> Jan 2020

Name : Shadab Mobin

Designation: Chief Executive Officer

Address : Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi 110019

Signature: 

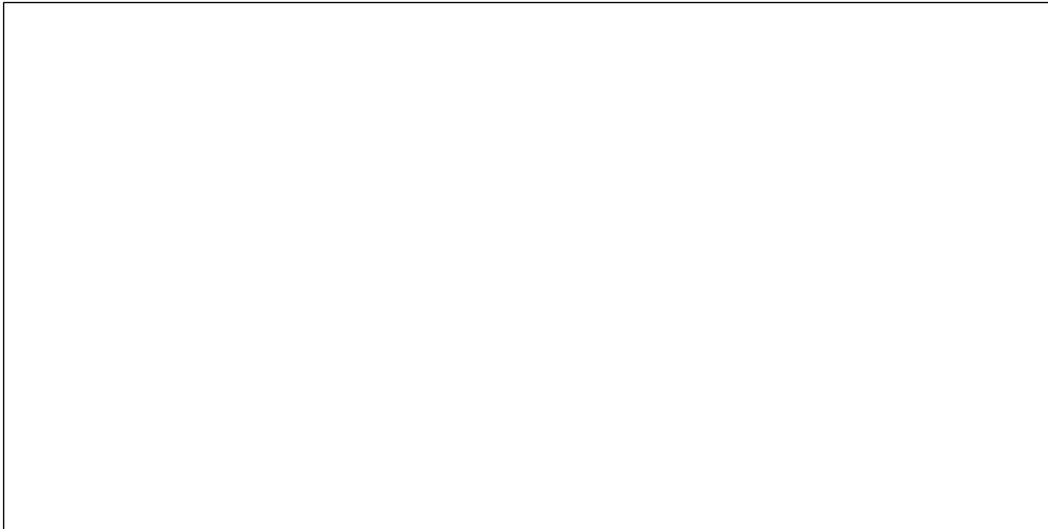
Date : 15/01/2020



For and on behalf of MERGERDOMO

For and on behalf of ANDC Instart Foundation

Annexure A

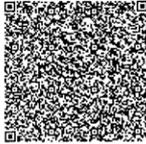


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सत्यमेव जयते

**Certificate No.** : IN-DL31755328076156S  
**Certificate Issued Date** : 03-Mar-2020 03:13 PM  
**Account Reference** : IMPACC (IV)/ dl847003/ DELHI/ DL-DLH  
**Unique Doc. Reference** : SUBIN-DL84700372624588491759S  
**Purchased by** : SHOP MATE PRIVATE LIMITED  
**Description of Document** : Article 5 General Agreement  
**Property Description** : Not Applicable  
**Consideration Price (Rs.)** : 0  
(Zero)  
**First Party** : SHOP MATE PRIVATE LIMITED  
**Second Party** : Not Applicable  
**Stamp Duty Paid By** : SHOP MATE PRIVATE LIMITED  
**Stamp Duty Amount(Rs.)** : 100  
(One Hundred only)



.....Please write or type below this line.....

### Incubation Agreement

This Agreement is made on this 03<sup>rd</sup> day of March 2020 by and **SHOP MATE PRIVATE LIMITED**, a Company registered under the Companies Act 1956, having its registered office at Office: C-15, 4<sup>th</sup> Floor, Acharya Niketan, Mayur Vihar. Phase - 1, New Delhi - 110091 (CIN: U52100DL2015PTC281164) through its Director Ms. Sambhavi Sinha herein after referred to as "Resident Company" which expression shall include unless it be repugnant to the context or meaning thereof mean and include their successors, representatives, assigns, promoters etc.) .....OF THE FIRST PART

AND

#### Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

ANDC inStart Foundation [Section 8 Company, Limited by Guarantee and not having Share Capital under The Companies Act, 2013] a business incubator promoted by Acharya Narendra Dev College (ANDC), Govindpuri, Kalkaji, New Delhi 110 019 (hereinafter referred to as 'AIF' which expression shall include unless it be repugnant to the context or meaning thereof with a mission to foster successful entrepreneurs and develop industry in the Knowledge and Technology based area ...OF THE SECOND PART.

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ANDC inStart Foundation agrees to incubate **SHOP MATE PRIVATE LIMITED** in its business incubator at ANDC, New Delhi. The purpose of incubation unit will be to:

- Promote & interact with, and resource technology/expertise from faculty members and research scholars and laboratory infrastructure in the various departments and centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Incubating novel technology and business ideas into viable commercial products or services.

**2.0 Tenure of Incubation**

**3. Facilities and Infrastructure**

**3.1 Common infrastructure**

--

**3.2 Institute infrastructure**

--

**3.3 Services of Professionals**

--

**3.4 Mentoring and Advisory Facilities:** Resident Company is required to have a

--

**3.5 Seed Funding:**

--	--

**4. Consideration**

**5 EXIT:**

**6. Amendments**

**7. Arbitration:**

**For & on behalf of  
SHOP MATE PRIVATE LIMITED**

For Shop Mate Pvt. Ltd.



Signature **Director**

Name **SAMBHAVI SINHA**

Designation **CEO**

Seal

Witness (Name & Address)

1. SOHIL AGIARWAL *Sohil*  
C-53, NEETI BAGH  
NEW DELHI - 110049

2. DRISHTI AGIARWAL *Drishiti*  
C-53, NEETI BAGH  
NEW DELHI - 110049

**For & on behalf of  
ANDC Instart Foundation  
New Delhi**



Signature

Name **Dr. Amit Chavra**

Designation **CEO, ANDC Instart Foundation**

Seal



Witness (Name & Address)

*m/c*  
1. SHADAR MORIJI  
CEO, ANDC Instart Foundation

2. YASHWANT ACHARYA *Yashwanta*  
F-102, MOHAN GARDEN,  
PEEPAL WALA ROAD,  
UTTAM NAGAR, N.D-59

Confidential Information has been  
hidden as per the company policy

S. No.	Department	Faculty	Collaborator Name	Affiliation	National/ Interna
1	Biomedical Science	Prof. Urmi Bajpai	Luigi A Agrofoglio	Institute of Organic and Anal	International
2	Biomedical Science	Prof. Urmi Bajpai	Vincent Roy	Institute of Organic and Anal	International
3	Biomedical Science	Prof. Urmi Bajpai	Belinda Loh	Department of Infectious Dis	International
4	Biomedical Science	Prof. Urmi Bajpai	Sebastian Leptihn	Department of Infectious Dis	International
5	Biomedical Science	Prof. Urmi Bajpai	Prof Steffanie Strath	School of Medicine, Universi	International
6	Biomedical Science	Prof. Urmi Bajpai	Dr Robert Schooley	School of Medicine, Universi	International
7	Biomedical Science	Dr Rimpay Kaur Chowhan	Dr. Aron Fisher, Prof	Institute for Environmental N	International
8	Chemistry	Prof. Pankaj Khanna	Dr. Shiva Panda	Augusta University, USA	International
9	Chemistry	Dr. Vikrant Kumar Attri	Prof. Tansir Ahamad	Department of Chemistry, Ki	International
10	Physics	Prof. Arijit Chowdhuri and	Professor Milena Ho	Department of Environment	International
11	Physics	Prof. Arijit Chowdhuri and	Dr. David Kocman, P	Department of Informatics, J	International
12	Physics	Prof. Arijit Chowdhuri and	Dr. David Kocman, P	Department of Informatics, J	International
13	Physics	Prof. Arijit Chowdhuri and	Dr. Janja Vaupotič, F	Jožef Stefan Institute, Jamov	International
14	Physics	Prof. Arijit Chowdhuri and	Dr. Janja Snoj Tratni	Department of Environment	International
15	Physics	Prof. Arijit Chowdhuri and	Prof. Dr. Milena Jov	Department of Radiation and	International
16	Physics	Prof. Arijit Chowdhuri and	Dr. Miloš Davidović,	Department of Radiation and	International
17	Physics	Prof. Arijit Chowdhuri and	Dr. Alena Bartonova	NILU Norwegian Institute for	International
18	Physics	Prof. Arijit Chowdhuri and	Dr. Alena Bartonova	NILU Norwegian Institute for	International
19	Physics	Prof. Arijit Chowdhuri and	Dr. Sotiris Vardoulak	Institute of Occupational Me	International
20	Physics	Dr. Dinesh Kumar Verma	Prof. Joaquín Escalo	Centro de Investigación en C	International
21	Physics	Dr. Dinesh Kumar Verma	Prof. Federico Vázqu	Centro de Investigación en C	International
22	Zoology	Dr Sarita Kumar	Arya Uthaman, Edit	Laboratory for FRP Composi	International
23	Zoology	Dr Sarita Kumar	Dr. Li Tianduo, Profe	School of Chemistry and Pha	International
24	Zoology	Dr Sarita Kumar	Paula Gavran, Autho	IntechOpen - Open Science C	International
25	Zoology	Dr Seema Makhija	Dr Alan Warren, Scie	Life Sciences Division, Natura	International
26	Biomedical Science	Dr Satendra Singh, Dr Suni	Dr Shruti Banswal, A	Shaheed Rajguru College of A	National
27	Biomedical Science	Dr Satendra Singh, Dr Suni	Manisha Khatri, Assi	Shaheed Rajguru College of A	National
28	Biomedical Science	Dr Rimpay Kaur Chowhan	Md Hamidur Raham	Dept. of Biotechnology, Mar	National
29	Biomedical Science	Dr Rimpay Kaur Chowhan	Prof. L. R. Singh	Dr B. R. Ambedkar Center fo	National
30	Biomedical Science	Dr Rimpay Kaur Chowhan	Dr Saquib Ansari, As	Shaheed Rajguru College of A	National
31	Biomedical Science	Dr Rimpay Kaur Chowhan	Prof. Rajiv Narang, P	Department of Cardiology, A	National
32	Chemistry	Prof. Pankaj Khanna	Prof. Prashant Singh	Atma Ram Sanatan Dharma	National
33	Chemistry	Prof. Pankaj Khanna	Prof. Leena Khanna	GGSSIP University, Delhi	National
34	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
35	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
36	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
37	Chemistry	Dr. Kavita Mittal	Prof. Sharda Pasrich	Department of Chemistry, Sr	National
38	Chemistry	Dr. Kavita Mittal	Prof. Sharda Pasrich	Department of Chemistry, Sr	National
39	Chemistry	Dr. Kavita Mittal	Dr. Pragya Gahlot	Department of Chemistry, Sr	National
40	Physics	Prof. Arijit Chowdhuri	Dr. Savita Sharma, A	Kalindi College, University of	National
41	Physics	Prof. Arijit Chowdhuri	Professor Monika T	Miranda House, University o	National
42	Physics	Prof. Arijit Chowdhuri	Professor Avinashi K	Department of Electronic Sci	National
43	Physics	Prof. Arijit Chowdhuri	Dr. Amit Jain, Associ	Rajdhani College, University	National
44	Physics	Prof. Arijit Chowdhuri	Professor Avinashi K	Department of Electronic Sci	National
45	Physics	Prof. Arijit Chowdhuri	Dr. Amit Jain, Associ	Rajdhani College, University	National
46	Physics	Prof. Rachna Joshi	Dr. Nupur Verma (A	DDU College, University of D	National
47	Physics	Prof. Rachna Joshi	Dr. Seema Dabas (A	Shyamlal College, University	National
48	Physics	Prof. Rachna Joshi	Prof. Man Mohan (P	Department of Physics and A	National
49	Physics	Prof. Rachna Joshi	Dr. Pranav Kumar (A	Kirorimal College, University	National
50	Physics	Prof. Rachna Joshi	Dr. Arun Goyal (Assi	Shyamlal College, University	National



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**Mur ligase inhibitors - collaboration**

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**Luigi Agrofoglio** <luigi.agrofoglio@univ-orleans.fr>

Fri, 22 Dec 2017 at 16:02

To: &lt;urmibajpai@andc.du.ac.in&gt;

Cc: Vincent Roy &lt;vincent.roy@univ-orleans.fr&gt;

Dear Professor Bajpai,

We have read with great interest your recent papers published in Scientific Reports (2016) and Biochim. Biophys. Acta (2017), respectively, dealing with Mur ligases. Our team (<http://www.icoa.fr/en/agrofoglio>) has an on-going research project to synthesize new nucleoside analogs targueting the inhibition of several Mur ligases. This project is headed by Associate Professor Dr Vincent Roy, from my group.

We would like to know if we could set-up an academic collaboration (join papers, exchange student mobility) with your group in order to evaluate our compounds on the "one-pot assay screening" you have developed and published? If possible, would you be able ta assay a bench of 30 compounds on a 1 year period?

Waiting to discuss with you,

Let me wish you a Great Season Holidays.

Best regards

--

**Professor Luigi A. AGROFOGLIO**

Adjunct VP International Office - Université d'Orléans

<https://www.univ-orleans.fr/international>

Group leader « Heterocycles, Nucleosides, Imaging Tools »

Institut de Chimie Organique et Analytique, CNRS UMR 7311

Université d'Orléans - 45067 ORLEANS cedex 2

<http://www.icoa.fr/fr/agrofoglio>

Cell.: ++(33)-(0)6-3770-9854

Tel. : ++(33)-(0)2-3849-4582

[luigi.agrofoglio@univ-orleans.fr](mailto:luigi.agrofoglio@univ-orleans.fr)

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**Review final draft**

---

**Sebastian Leptihn** <leptihn@intl.zju.edu.cn>  
To: Urmi Bajpai <urmibajpai@andc.du.ac.in>  
Cc: Loh, Wei-Ching Belinda <belinda.loh@intl.zju.edu.cn>

Fri, 21 May 2021 at 17:16

Dear Urmi,

The final draft looks wonderful! No more comments or changes from our side.

Please add the following affiliation for both of us: Department of Infectious Diseases, Sir Run Run Shaw Hospital, Zhejiang University School of Medicine, Hangzhou, PR China

Good luck with the submission!  
Best wishes,  
Sebastian

---

Prof. Dr. rer. nat. habil. Sebastian Leptihn  
Zhejiang University-Edinburgh University Institute  
Zhejiang University, International Campus  
Associate Professor

Sir Run Run Shaw Hospital  
Mayo Clinic Care Network  
Department of Infectious Diseases  
Adjunct Professor

Edinburgh University  
School of Medicine  
Honorary Lecturer

---

Zhejiang University, International Campus  
718 East Haizhou Rd., Haining, 314400, P.R. China  
Mobile: +86 158 6834 7357  
Email: [leptihn@intl.zju.edu.cn](mailto:leptihn@intl.zju.edu.cn)  
Web: [Leptihn-Lab.org](http://Leptihn-Lab.org)

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify me immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

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<Cover letter\_Antibiotics.docx><COVID\_Review\_Final\_MDPI\_Format.docx>

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## GloCal Health Fellowship Application Status

---

**Bale, Kimberly** <Kimberly.Bale@ucsf.edu>

Sat, Feb 2, 2019 at 3:27 AM

To: Divya Sachdev <divya2810@gmail.com>

Cc: "Strathdee, Steffanie (sstrathdee@ucsd.edu)" <sstrathdee@ucsd.edu>, Vivek Mutalik <vkmutalik@lbl.gov>, Rashmi Rodrigues <rashmijr@gmail.com>, Urmi Bajpai <urmibajpai@andc.du.ac.in>

Dear Divya,

Your application and interview for the GloCal Health Fellowship were reviewed favorably by our Leadership Group and Steering Committee. However, due to our very large number of strong candidates this year and limited fellowship positions available, we are unable to offer you a position as a GloCal Health Fellow at this time. Nevertheless, you have been placed on our waitlist.

The GloCal Health Fellowship is seeking out additional funding for fellows. We may be able offer you a Fellowship if more funding becomes available or if a spot opens up.

We appreciate the thought and care that you put into your application and interview, and are grateful for your interest in global health. As we continue to seek out additional funding, we would appreciate it if you would notify us if you decide to pursue another opportunity and/or are no longer available for the 2019-2020 fellowship year.

Please let me know if you have any questions.

Best regards,

Kimberly Bale

Kimberly Bale, MPH

Assistant Director, GloCal Health Fellowship

Program Manager, University of California San Francisco

550 16th Street, 3rd Floor

San Francisco, California 94158

Tel: +1 415 476 5849

E-mail: Kimberly.Bale@ucsf.edu



---

## GloCal Fellows program

---

**Strathdee, Steffanie** <sstrathdee@ucsd.edu>

Thu, 13 Sep 2018 at 01:53

To: Urmi Bajpai <urmibajpai@andc.du.ac.in>

Cc: Schooley, Robert <rschooley@ucsd.edu>

Dear Urmi, I am one of the PIs of a Fogarty-funded fellowship that grants support to senior PhD students and postdocs from the UC system as well as international postdocs to conduct global health research in any of 20 LMIC. India is one such country. For example, if any of your contacts are postdocs in India who would like to do phage research in Delhi, they could work with you as a mentor and Chip or I as a collaborator. Here is the link for details. deadline is Nov 15 for a July 1 start date: <http://ucghi.universityofcalifornia.edu/fellowships/glocal-health-fellowship>

Steffanie Strathdee, PhD

Associate Dean of Global Health Sciences,

Harold Simon Professor, UCSD Department of Medicine

Co-Director, Center for Innovative Phage Applications and Therapeutics (IPATH)

Author, The Perfect Predator: <https://goo.gl/owPz4h>

Tel: 858-822-1952

Assistant: Julie Lukehart: 858-246-2622 [jlukehart@ucsd.edu](mailto:jlukehart@ucsd.edu)

Twitter: [@chngin\\_the\\_world](https://twitter.com/chngin_the_world)

TEDx: <https://www.youtube.com/watch?v=AbAZU8FqzX4&feature=youtu.be>

IPATH: [ipath.ucsd.edu](http://ipath.ucsd.edu)

## Call-for-Reading: [Antioxidants] Special Issue "Peroxisredoxin 6 as a Unique Member of the Peroxisredoxin Family"

---

From: Antioxidants Editorial Office (antioxidants@mdpi.com)

To: rimp\_1989@yahoo.co.in

Date: Monday, 20 January, 2020 at 12:03 pm IST

---

Dear Dr. Chowhan,

Thank you again for your contribution to the following Special Issue, which has been published in our open access journal Antioxidants (ISSN 2076-3921).

"Peroxisredoxin 6 as a Unique Member of the Peroxisredoxin Family"

Guest Editor(s): Aron B. Fisher.

[https://www.mdpi.com/journal/antioxidants/special\\_issues/Peroxisredoxin](https://www.mdpi.com/journal/antioxidants/special_issues/Peroxisredoxin)

All articles can be accessed freely online. For your convenience, we attach below a consolidated table of contents. If you think it appropriate, we invite you to share this message further with your peers.

Arevalo, J.A.; Vázquez-Medina, J.P. The Role of Peroxisredoxin 6 in Cell Signaling. *Antioxidants* 2018, 7(12), 172;

<https://doi.org/10.3390/antiox7120172>.

Views: 1139, Downloads: 964, Citations: 3, Altmetrics: 1

<https://www.mdpi.com/2076-3921/7/12/172>

O'Flaherty, C. Peroxisredoxin 6: The Protector of Male Fertility.

*Antioxidants* 2018, 7(12), 173;

<https://doi.org/10.3390/antiox7120173>.

Views: 1012, Downloads: 668, Citations: 5, Altmetrics: 2

<https://www.mdpi.com/2076-3921/7/12/173>

Lovatt, M.; Adnan, K.; Peh, G.S.L.; Mehta, J.S. Regulation of Oxidative Stress in Corneal Endothelial Cells by Prdx6. *Antioxidants* 2018, 7(12), 180;

<https://doi.org/10.3390/antiox7120180>.

Views: 911, Downloads: 698, Citations: 2, Altmetrics: 3

<https://www.mdpi.com/2076-3921/7/12/180>

Fisher, A.B.; Dodia, C.; Feinstein, S.I. Identification of Small Peptides

that Inhibit NADPH Oxidase (Nox2) Activation. *Antioxidants* 2018, 7(12), 181;

<https://doi.org/10.3390/antiox7120181>.

Views: 785, Downloads: 721, Citations: 3, Altmetrics: 0

<https://www.mdpi.com/2076-3921/7/12/181>

Zhou, S.; Dodia, C.; Feinstein, S.I.; Harper, S.; Forman, H.J.; Speicher, D.W.; Fisher, A.B. Oxidation of Peroxisredoxin 6 in the Presence of GSH Increases its Phospholipase A<sub>2</sub> Activity at Cytoplasmic pH. *Antioxidants* 2019, 8(1), 4;

<https://doi.org/10.3390/antiox8010004>.

Views: 937, Downloads: 614, Citations: 3, Altmetrics: 1

<https://www.mdpi.com/2076-3921/8/1/4>

Sharapov, M.G.; Novoselov, V.I.; Gudkov, S.V. Radioprotective Role of Peroxisredoxin 6. *Antioxidants* 2019, 8(1), 15;

<https://doi.org/10.3390/antiox8010015>.

Views: 1153, Downloads: 1003, Citations: 4, Altmetrics: 1

<https://www.mdpi.com/2076-3921/8/1/15>

Shahnaj, S.; Chowhan, R.K.; Meetei, P.A.; Kakchingtabam, P.; Herojit Singh, K.; Rajendrakumar Singh, L.; Nongdam, P.; Fisher, A.B.; Rahaman, H. Hyperoxidation of Peroxiredoxin 6 Induces Alteration from Dimeric to Oligomeric State. *Antioxidants* 2019, 8(2), 33; <https://doi.org/10.3390/antiox8020033>. Views: 944, Downloads: 782, Citations: 4, Altmetrics: 0 <https://www.mdpi.com/2076-3921/8/2/33>

Bannitz-Fernandes, R.; Aleixo-Silva, R.; Silva, J.P.; Dodia, C.; Vazquez-Medina, J.P.; Tao, J.-Q.; Fisher, A.; Netto, L. Non-Mammalian Prdx6 Enzymes (Proteins with 1-Cys Prdx Mechanism) Display PLA<sub>2</sub> Activity Similar to the Human Orthologue. *Antioxidants* 2019, 8(3), 52; <https://doi.org/10.3390/antiox8030052>. Views: 959, Downloads: 610, Citations: 1, Altmetrics: 3 <https://www.mdpi.com/2076-3921/8/3/52>

Patel, P.; Chatterjee, S. Peroxiredoxin6 in Endothelial Signaling. *Antioxidants* 2019, 8(3), 63; <https://doi.org/10.3390/antiox8030063>. Views: 732, Downloads: 552, Citations: 2, Altmetrics: 2 <https://www.mdpi.com/2076-3921/8/3/63>

Feinstein, S.I. Mouse Models of Genetically Altered Peroxiredoxin 6. *Antioxidants* 2019, 8(4), 77; <https://doi.org/10.3390/antiox8040077>. Views: 521, Downloads: 454, Citations: 1, Altmetrics: 0 <https://www.mdpi.com/2076-3921/8/4/77>

Fisher, A.B. Antioxidants Special Issue: Peroxiredoxin 6 as a Unique Member of the Peroxiredoxin Family. *Antioxidants* 2019, 8(4), 107; <https://doi.org/10.3390/antiox8040107>. Views: 526, Downloads: 473, Citations: 0, Altmetrics: 1 <https://www.mdpi.com/2076-3921/8/4/107>

We look forward to collaborating with you in the future.

Best regards,  
Edith Fang  
SI Managing Editor

Antioxidants (ISSN 2076-3921) is a journal published by MDPI AG, Basel, Switzerland

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MDPI  
St. Alban-Anlage 66, 4052 Basel  
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## Proof of Heliyon paper

---

Siva <sspanda12@gmail.com>

Sat, Nov 24, 2018 at 7:52 PM

To: Pankaj Khanna <kpankaj6@gmail.com>, leena rohatgi <leena\_rohatgi@yahoo.co.in>

Dear Pankaj Sir and Leena Mam,

Please find the proof of our natural paper. Please review the proof and let me know if you find any errors as soon as possible.

Thank you  
Siva

---

 **pagination\_HLY\_951.pdf**  
1565K



20-11-2022

Vikrant Kumar, Ph. D.  
Associate Professor  
Department of Chemistry  
Acharya Narendra Dev College  
(University of Delhi)  
New Delhi - 110019  
INDIA

Dear Sir,

I would like to express my willingness to serve as a collaborator on your research project entitled fabrication of novel metal complexes and their biological application. In particular, for the fabrication of the ligands and organic molecules and its characterization using NMR instrument. I will be able to contribute my expertise to this work, subject to availability of time and resources. This research collaboration will be a mutual cooperation in education and research work and no funds from the grant will be used in intramural research, neither will I accept any form of remuneration, whether in the form of salary, honoraria, or travel expenses. I will provide scientific input (and mentoring) but will not have any duties associated with programmatic stewardship.

We will encourage the following activities to promote international academic and research cooperation:

- Exchange of materials in education and research, publications, and academic information;
- Joint research and meetings for education and research;
- Technical assistance.

I look forward to working with you on this collaboration.

Sincerely yours,

Prof. Tansir Ahamad  
Department of Chemistry  
King Saud University  
Riyadh, Saudi Arabia  
Email: [tahamed@ksu.edu.sa](mailto:tahamed@ksu.edu.sa)  
Mobile: 00966567934635  
Office: 00966114674783



Dr. Jagdish Chander  
Scientist – G/Adviser  
TEL: 00-91-11-26967357/26590613/26590432  
FAX: 00-91-11-26862418  
E-mail: [jchander@nic.in](mailto:jchander@nic.in)

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग  
नई दिल्ली-110 016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
NEW DELHI-110 016

D.O. No.

INT/Slovenia/P-09/2014

Dated ..... November 24 2014

Dear Dr. Chowdhuri,

I am pleased to inform you that your project entitled **Exposure-response assessment of Ambient Air Pollution (AAP) AND Hg contamination in affected cities of India and Slovenia: A comparative study**, has been recommended for support with one short visit of upto a maximum of 10 days and a long visit of upto 30 days duration each year in each direction. The sending party shall cover all related costs connected with 'International travel to the state of the receiving party and back including lodging and boarding for person sent in pursuant of this project.

In order to issue formal sanction of the project, we request you to kindly send us the administrative and security/sensitivity clearance from your parent organization (Ministry/Department). In case of Universities/Academic organization, the PIs should organise such clearance from concerned authority in their university/institute. We would also require information in the attached checklist and budget estimates in a separate sheet. Budget details (with proper justification) may be furnished keeping in view the following provisions:

- I) Airfare from place of work in India to place of visit in Slovenia by lowest economy class (indicate sector)
- II) Medical Insurance & Visa Charges
- III) Perdiem @US \$50 per day for short term (up to 7 days) and US \$ 40 per day for long term visit (more than 7 days)
- IV) Accommodation in hotel (upto US \$ 100 per night)
- V) Local transport in Slovenia (upto US \$ 25 per day) as per actuals.

Since the project is only visit based, no grant under equipment, consumables, manpower etc. would be sanctioned. This should be kept in mind while filling details under serial no.4 in the checklist. Kindly acknowledge the receipt of this letter. An early reply would be highly appreciated.

With kind regards,

Yours sincerely,

(Jagdish Chander)

*Endo. as above*

Dr. Arijit Chowdhuri,  
Acharya Narendra Dev College (University of Delhi),  
Kalkaji- 110 019, New Delhi, India

Dated 21.05.2015

**ORDER**

Sanction of the President is hereby accorded for incurring an expenditure not exceeding **Rs. 16,11,375/- (Rupees sixteen lakh eleven thousand three hundred seventy five only)** in connection with the implementation of Indo-Slovenia Joint research project entitled **“Exposure-response assessment of Ambient Air Pollution . . . . . of India and Slovenia: A comparative study”**, under the Indo-Slovenia programme of Cooperation to be implemented by Indian P.I. **Dr. Arijit Chowdhuri**, Aast. Professor, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-19, in collaboration with Slovenian counterpart **Dr. Milena Horvat**, Head & Professor, Department of Environmental Science, Jozef Stefan Institute, Slovenia, for a total duration of three years from the date of receipt of initial grant. The break-up of approved expenditure is as indicated below and no reappropriation (from one budget head to the other) shall be allowed under this project.

Sl.No.	Budget Head	1 <sup>st</sup> yr	2 <sup>nd</sup> yr	3 <sup>rd</sup> Year	total
1.	Number of visits (2 every year, one of 10 days by PI and one of up to 15 days by Student/Young researcher)	2 visits (25 days)	2 visits (25 days)	2 visits (25 days)	6 visits (75 days)
2.	Air Fare Int'l' air travel (shortest route) by lowest Economy class (to & fro) for visit of Indian participants to Slovenia including Domestic travel in India, Silver class medical insurance and visa fee @ Rs. 1,27,000/- per visit (Rs. 1,20,000 +2,000 +5000)	2,54,000	2,54,000	2,54,000	7,62,000
3.	Accommodation charges for stay in Slovenia @ US\$ 100/- per day @ Rs. 65 per day	1,62,500	1,62,500	1,62,500	4,87,500
4.	Living allowance (per diem) @ US\$ 50 for short term visit (7 days* USD 50 ) and US\$ 40 per day for long term visits (15 days * USD 40) @ Rs. 65 per day	65,000	65,000	65,000	1,95,000
5.	Consumables and Contingencies	15,000	15,000	15,000	45,000
6.	Local Travel in Slovenia @ US\$ 25 per day restricted to actual and on production of bills @ Rs. 65 per day	40,625	40,625	40,625	1,21,875
7	Total :- (2+3+4+5+6)	5,37,125	5,37,125	5,37,125	16,11,375

2. Sanction of the President is also accorded for release of initial grant of **Rs. 5,37,125 /- (Rupees five lakh thirty seven thousand one hundred twenty five only)** and the payment of this amount may be made to DDO, DST by means of electronic transfer(E-transfer) for the account of **Principal, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-19**

-Name/Designation of account holder : **Acharya Narendra Dev College, Govindpuri, Kalkaji, N. Delhi- 110019.**  
 -Bank Account No. : **0156000100547016**  
 -Name of Bank & Address : **Punjab National Bank, 36, Krishna Market, Kalkaji, N. Delhi- 19.**  
 -IFSC Code : **PUNB0015600**

(This sanction order being 1<sup>st</sup> installment for implementation of this project, no UC/ SE is due from the grantee institute against this project at this stage)



Contd. . . P/2

3. As per financial terms agreed by both sides, the sending side will bear the entire International travel cost of the Scientist visiting under the project.

4. **All project related Visits to be undertaken by the scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.**

5. As per MOF instructions dated 13.07.2009 all cases of air travel both domestic and international, the officials may travel only by Air India. For travel to stations not connected by Air India the officials may travel by Air India to the Hub/Point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferably be an alliance partner of Air India.

6. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

7. This sanction is subject to submission of Utilization Certificate (UC) and audited statement of the expenditure (SE) along with up to date progress report at the end of each financial year for the grants already received under the project and seeking specific approval of this Department for carry forward of unspent funds to the next financial year for utilization of project and list of exchange visits of scientists under the project. **The entry of Utilization Certificate and Statement of Expenditure to be done in PFMS. The next installment will be released only after confirmation of the entry of Utilization Certificate in the PFMS.** (Website: www.pfms.nic.in).

8. The accounts of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down in Rule 211 (1) of General Financial Rules.

9. The expenditure involved shall be met out of the budget head under Demand No.86-Department of Science and Technology -3425-Other Scientific Research (Major Head) 60.798 International Cooperation (Minor Head) -12-S&T Cooperation with Other Countries-12.00.31-Grants-in-aid (Plan) during the year 2015-16.

10. This issues under the delegated powers to the Ministries/Departments and with the concurrence of IFD vide Dy. No. C/622 /IFD//2015-16 dated 24 .04.2015.

11. This Sanction Order has been entered in Grant in aid Register (2015-16) at Sl. No. 139



(K.K. Jha)

Under Secretary to the Govt. of India

To,

The Pay & Accounts Officer,  
Dept. of Science and Technology, New Delhi

Copy to:-

1. Office of the Principal Director & Audit IIIrd Floor, AGCR Bldg., IP Estate, New Delhi
2. Cash Section, DST (3 copies)
3. IFD/Accounts Section, DST
4. Principal, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019.
5. Dr. Arijit Chowdhuri, Astd. Professor, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019.
6. Sanction folder.



(K.K. Jha)

Under Secretary to the Govt. of India



Telegram : Sciencetech  
 दूरभाष/Tel : 26962819, 26567373,  
 26562134, 26562122 (EPBAX)  
 फ़ैक्स/Fax : 26569908, 26864570,  
 26863847, 26862418  
 वेबसाइट/website : www.dst.gov.in

भारत सरकार  
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 विज्ञान और प्रौद्योगिकी विभाग,  
 टेक्नोलॉजी भवन, नया महरौली मार्ग,  
 नई दिल्ली-110 016

GOVERNMENT OF INDIA  
 MINISTRY OF SCIENCE AND TECHNOLOGY,  
 DEPARTMENT OF SCIENCE AND TECHNOLOGY,  
 TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD,  
 NEW DELHI-110 016

No. DST/INT/Slovenia/P-09/2014

Dated: 19.12.2016

**ORDER**

In continuation this Department's order of even number dated 21.05.2015, approval of competent authority is hereby conveyed for carry forward unspent balance of **Rs. 91, 845/- (Rupees ninety-one thousand eight hundred forty-five only)** from financial year 2015-16 to 2016-17 for utilization by Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019 in connection with the implementation of Indo-Slovenia joint research project entitled "**Explosure-Response Assessment of Ambient Air Pollution ..... Of India and Slovenia: A Comparative Study**" coordinated by **Dr. Arijit Chowdhuri**, Assistant Professor, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.

2. Sanction of the President is also accorded for release of 2<sup>nd</sup> instalment grant of **Rs. 4, 45, 280/- (Rupees four lakh forty-five thousand two hundred eighty only)** and the payment of this amount may be made to DDO, DST, for electronic transfer to the following account of **Principal**, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019 as per bank details are given below: -

1.	Name & Designation of the A/c holder	<b>Principal</b> , Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019
2.	Bank Account Number	<b>0156000100547016</b> (Saving A/c)
3.	Name of Bank and Branch address	Punjab National Bank, 36, Krishna Market, Kalkaji, New Delhi-110019.
4.	IFSC Code No.	<b>PUNB 001 5600</b>
5.	MICR Code No.	110024052
6.	E-mail (Agency/PI)	<a href="mailto:arijitchowdhuri@andc.du.ac.in">arijitchowdhuri@andc.du.ac.in</a>

3. The requisite utilization certificate (UC) and statement of expenditure (SE) for financial year 2015-16 furnished by the grantee institution duly accepted by this Department are enclosed. There is no pending any SE/UC from the Grantee Institution/Principal Investigator. **Unique ID No. of PFMS portal is 18165455.**

4. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificated. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

Contd...p...2/-

5. As per MOF instructions, in all cases of Air Travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the official may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferably be an alliance partner of Air India.

6. **As per latest instructions of Ministry of Finance (Department of Expenditure), Agencies will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The next instalment will be released only after confirmation of the entry of Utilization Certificate in the PFMS.**

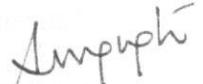
7. As per rule 211(i) of GFR, the accounts of projects shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. **Due acknowledgement of support receive from DST should mandatorily be made in publications resulting from this programme during the project duration and even after completion of project duration.**

9. The expenditure involved is to be met out of the budget head Demand No. 77- Department of Science and Technology Major Head 3425-Other Scientific Research 60.798 International Cooperation 12-S&T Cooperation with Other Countries 12.00.31-Grants-in-aid general(Plan) for the current financial year 2016-17.

10. This issues under the delegated powers to the Ministries/Departments with the financial concurrence of IFD vide Dy. No. **C/4606/IFD 2016-17** dated 05.12.2016.

11. This Sanction Order has been entered at Sl. No. <sup>329</sup> in Grant -in-aid Register (2016-17).

  
(Pulok Sen Gupta)  
Under Secretary to the Govt. of India

To

The Pay & Accounts Officer  
Dept. of Science & Technology, New Delhi.

Copy to: -

1. Office of the Principal Director & Audit, Illrd Floor, AGCR Bldg., IP Estate, N. Delhi-2
2. Cash Section, DST (3 copies)
3. IFD/Accounts Section, DST
4. **Dr. Arijit Chowdhuri**, Assistant Professor, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.
5. **The Principal**, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.
6. Sanction folder.
7. Concerned project file.

  
(Pulok Sen Gupta)  
Under Secretary to the Govt. of India



**Dr. Jagdish Chander**  
Scientist – G/Adviser  
TEL: 00-91-11-26967357  
FAX: 00-91-11--26862418  
E-MAIL: jchander@nic.in

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग  
नई दिल्ली-110 016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
NEW DELHI-110 016

D.O. No. INT/Slovenia/P-09/2014

Dated ..... November 20, 2015

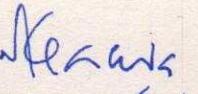
Dear Dr. Chowdhuri,

Kindly refer to your email/letter/fax message of October 30, 2015, seeking permission for a 7-day visit of Dr. David Kocman, Research Associate, Department of Environmental Sciences, Jozef Stefan Institute, Jamova 39, SI-1000 Ljubljana, Slovenia to Acharya Narendra Dev College, Kalkaji, New Delhi under the Indo-Slovenian joint research project entitled "**Exposure-response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia: Acomparative study**", beginning 22.11.2015.

Your request has since been examined and in this connection, I am happy to convey approval of the Department of Science and Technology (DST), Government of India, to the above 7-day visit of Dr. David Kocman, Research Associate, Department of Environmental Sciences, Jozef Stefan Institute, Jamova 39, SI-1000 Ljubljana, Slovenia to Acharya Narendra Dev College, Kalkaji, New Delhi, starting 22.11.2015. You are requested to extend the visiting scientist(s) necessary local hospitality etc. as per DST sanction order of even number dated 21.05.2015.

With kind regards,

Yours sincerely,

  
(Jagdish Chander)

**Dr. Arijit Chowdhuri,**  
Assistant Professor, D/o Physics  
Acharya Narendra Dev College (University of Delhi)  
Kalkaji, Govindpuri, New Delhi-110019

E-mail: arijitchowdhuri@andc.du.ac.in



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**Slo-Indo proposal signed by Indian Pls**

10 messages

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Wed, Jun 3, 2020 at 6:46 PM

To: David Kocman &lt;david.kocman@ijs.si&gt;, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear David,

Please find attached Slo-Indo proposal with names and duly signed by Indian Pls

best regards,

Arijit

---

 **Signed-Slo-Indo-Citisense project proposal DK.docx**  
232K**Dr. Charu KhoslaGupta** <charukhoslagupta@andc.du.ac.in>

Wed, Jun 3, 2020 at 6:58 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Thank you Arijit!

[Quoted text hidden]

--

Dr. Charu Khosla Gupta  
Associate Professor in Botany  
Acharya Narendra Dev College  
University of Delhi  
Kalkaji, New Delhi-110019  
Tel: 91-9871668885**David Kocman** <david.kocman@ijs.si>

Thu, Jun 4, 2020 at 1:11 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

I am waiting for our director to sign and expect to get the sacred version by tomorrow.

For my part, I will need a CV of Arijit (in whatever form, as I can add it as PDF attached), plus names of the two student you mention in the proposal along with their emails.

Will keep you posted on the progress.

Best,

David

[Quoted text hidden]

--

David Kocman, PhD  
Department of Environmental Sciences  
Jožef Stefan Institute  
Jamova 39  
1000 Ljubljana  
Slovenia  
Phone: +386 1 5885 218**David Kocman** <david.kocman@ijs.si>

Fri, Jun 5, 2020 at 5:16 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Hi Arijit,

A gentle reminder :)

Can I use this CV of yours? <http://emdl.physics.du.ac.in/EMDL%20members/CVdocs/Dr.%20Arijit%20Chowdhuri%20CV.pdf>

Also - is it OK to include this link to indicate our previous collaboration (as you were not here officially): <http://www.environment.si/en/news/cities-health-at-spodnja-siska-elementary/>

Best,

David

[Quoted text hidden]

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Fri, Jun 5, 2020 at 5:40 PM

Dear David,

Greetings!

Apologies for being late as had to figure out the names of the students.

Please find attached the following

1. Both of our CVs
2. Name of student 1 - Mr. Ajay Kumar Sao, Name of student 2 - Mr. Jatinder Pal Singh
3. Also its ok to use the link to indicate our previous collaboration (doesn't matter if I was there officially or not), Charu was there as SAZU-INSA  
<http://www.environment.si/en/news/cities-health-at-spodnja-siska-elementary/>  
Please do NOT mention that I was a SAZU-INSA Fellow that's all. I can be a visitor from previous Slo-Indo bilateral

thanks and regards,

Arijit

[Quoted text hidden]

## 2 attachments

 **CV Charu February 2020.doc**  
102K

 **CV-Arijit-Latest.doc**  
258K

**David Kocman** <david.kocman@ijs.si>  
To: "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>

Sun, Jun 7, 2020 at 6:39 PM

Two more things:

1. I only need your CV, but it has to be much shorter version - again 6000 characters including spaces is the limit. Please edit, as you will know more what to emphasise and what is more relevant.
2. I will also need emails of both students to be included (point 2. below)

Tnx.

David

[Quoted text hidden]

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 6:42 PM

Dear David,

Great to hear from you.

Sending you the required details later tonight as I am out of home now.

Also I have a request and which is I need mobile numbers of both Janja Co-Pls

thanks and regards,

Arijit

[Quoted text hidden]

---

**David Kocman** <david.kocman@ijs.si>  
To: "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>

Sun, Jun 7, 2020 at 10:08 PM

Janja Tratnik Snoj, (+38631344232)  
Janja Vaupotič, (+38641738517)

Sent from [Outlook Mobile](#)

[Quoted text hidden]

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 10:10 PM

Thanks a tonne dear David

[Quoted text hidden]

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 10:53 PM

Dear David,

Greetings!

As desired please find attached my CV of 5900 characters

Email of Mr. Ajay Kumar Sao - [aj.sao000@gmail.com](mailto:aj.sao000@gmail.com)

Email of Mr. Jatinder Pal Singh - [jatinder2406@gmail.com](mailto:jatinder2406@gmail.com)

cheers

Arijit

[Quoted text hidden]



**CV-Arijit-Indo-Slovenia-2nd.doc**

78K



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**Serbia - India bilateral proposal signed by Indian side**

3 messages

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Wed, Jul 29, 2020 at 6:27 PM

To: Milos Davidovic &lt;davidovic@vin.bg.ac.rs&gt;, Milena Jovasevic-Stojanovic &lt;mjovst@vin.bg.ac.rs&gt;, mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All,

Greetings!

Please find attached Serbia - India bilateral proposal signed by the Indian side - PI, Co-PI and Director for your kind consideration.

thanks and regards,

Arijit

---

 **Serbian-Indo- project proposal-India signed.pdf**  
992K

---

**Milos Davidovic** <davidovic@vin.bg.ac.rs>

Thu, Jul 30, 2020 at 2:49 PM

Reply-To: davidovic@vin.bg.ac.rs

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Cc: mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All,

please find attached last page of the proposal signed by our Director.

Kind regards,

Milos

[Quoted text hidden]

--

Milos Davidovic, dipl. ing, PhD  
Vinca Institute of Nuclear Sciences  
Radiation Measurement Laboratory  
P.O.Box 522, 11001 Belgrade, Serbia  
e-mail: [davidovic@vinca.rs](mailto:davidovic@vinca.rs)  
phone: +381 11 3408 274  
mobile: +381 63 467 943

---

 **sken Indija M Davidovic.pdf**  
134K

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**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Thu, Jul 30, 2020 at 10:29 PM

To: Milos Davidovic &lt;davidovic@vin.bg.ac.rs&gt;

Cc: mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All.

Thanks to your efforts online submission of the Serbia-India bilateral project could be done today.

Tomorrow we have to submit the hardcopy of the proposal at the funding institute which incidentally happens to be the last day too.

Let's hope for a positive outcome.

Looking forward to doing good science with you all.

8/29/23, 12:46 PM

AND College Mail - Serbia - India bilateral proposal signed by Indian side

best regards,

Arijit

[Quoted text hidden]



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**FW: GoToMeeting Invitation - Indo-Norwegian collaboration**

2 messages

**Alena Bartonova** <Alena.Bartonova@nilu.no>

Wed, Jan 16, 2019 at 6:59 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, Núria Castell &lt;Nuria.Castell@nilu.no&gt;

Dear Arijit,

We will discuss with the colleagues from Sastra university tomorrow, in case you can join the discussion; we will keep you posted in any case.

Their interest is in machine learning and short-term prediction of air quality based on low-cost sensor network data. Until now, they have been working on publicly available sensor network data from University of California at Irvine.

We are working on a short sketch which we will provide later today.

Best  
Alena

-----Original Appointment-----

**From:** Alena Bartonova**Sent:** tirsdag 15. januar 2019 20.52**To:** Alena Bartonova; Núria Castell; [narenmv@icloud.com](mailto:narenmv@icloud.com)**Subject:** GoToMeeting Invitation - Indo-Norwegian collaboration**When:** torsdag 17. januar 2019 09.00-11.00 (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.**Where:** GoToMeeting

Dear Narendran,

If this does not work, we will continue with Skype as the last time. Most likely we will be able to finish the meeting in one hour.

Please can you send us some materials regarding your work and possible contribution.

Best  
Alena

Indo-Norwegian collaboration

Thu, Jan 17, 2019 9:00 AM - 11:00 AM CET

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/675674301>

You can also dial in using your phone.

(For supported devices, tap a one-touch number below to join instantly.)

Norway: +47 21 93 37 51

- One-touch: <tel:+4721933751,,675674301>

Access Code: 675-674-301

First GoToMeeting? Let's do a quick system check: <https://link.gotomeeting.com/system-check>

 **Please consider the environment before printing this email and attachments**

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 **invite.ics**  
4K

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**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: Alena Bartonova <Alena.Bartonova@nilu.no>  
Cc: Núria Castell <Nuria.Castell@nilu.no>

Wed, Jan 16, 2019 at 8:07 PM

Dear Alena,

It's always nice to hear from you.

I am out of Delhi attending a marriage in the family.

I will try to squeeze in if possible.

Please advise and guide what I have to do now as in writing/ modification of the proposal.

Hoping for the best this time.

Best regards,

Arijit

[Quoted text hidden]



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

## Je-S: Research Proposal: Confirmation of submission to Council

2 messages

**JeSHelp@rcuk.ac.uk** <JeSHelp@rcuk.ac.uk>  
To: arijitchowdhuri@andc.du.ac.in

Fri, Mar 9, 2018 at 2:17 PM

This e-mail is for information only.

A Research Proposal submitted by you has been sent to the ESRC.

You need take no further action.

### Proposal Details

Council Reference: ES/R010927/1

Proposal Title : Developing and empowering autonomous citizen's communities for alleviating ambient air pollution and improving quality of life

Principal Investigator : Dr Arijit Chowdhuri

Organisation: University of Delhi

Department : Acharya Narendra Dev College

Your Reference : ANDC/EQUIP/2017-01

Proposal Scheme : Research Grants

Proposal Call/Mode/Type : EU-India Platform for the Social Sciences and Humanities

Date and time of action: 09 Mar 2018 08:47.

Regards

Je-S Helpdesk

Tel: +44 (0) 1793 44 4164

e-mail: [JeSHelp@rcuk.ac.uk](mailto:JeSHelp@rcuk.ac.uk)

Staffed Monday to Thursday 8:30am - 5pm and Fridays 8.30am to 4.30 pm UK time (Excluding Bank Holidays and Other Holidays)

Je-S Link: <https://je-s.rcuk.ac.uk>

Out of hours: Please leave a Voice Mail message

\*\*\*\*\*

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\*\*\*\*\*

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Sat, Mar 10, 2018 at 10:54 AM

To: Alena Bartonova <Alena.Bartonova@nilu.no>, Susan Young <Susan.Young@iom-world.org>, Sotiris Vardoulakis <Sotiris.Vardoulakis@iom-world.org>, Karen Galea <karen.Galea@iom-world.org>, charu k gupta <charukhoslagupta@andc.du.ac.in>

Dear All,

All the best to us.

Many thanks for the compilation at such short notice.

Appended below is the communication received from JeS help

best regards

Arijit

[Quoted text hidden]





Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**now submitted RE: Equip call - info from the office of the Research UK**

3 messages

**Alena Bartonova** <Alena.Bartonova@nilu.no>

Fri, Mar 9, 2018 at 5:23 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, Susan Young &lt;Susan.Young@iom-world.org&gt;

Cc: Karen Galea &lt;karen.Galea@iom-world.org&gt;, Sotiris Vardoulakis &lt;Sotiris.Vardoulakis@iom-world.org&gt;

Dear all,

I forgot to inform you that I have now submitted the new version earlier today, simply adding as general attachments the three documents here, and then submitting for Arijit. I made no other changes.

All the best

Alena

**From:** Dr. Arijit Chowdhuri [mailto:[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)]**Sent:** torsdag 8. mars 2018 15.46**To:** Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>**Cc:** Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>**Subject:** Re: Equip call - info from the office of the Research UK

Dear Susan,

Great effort!

From the Indian side we had included the costs in EURO which incidentally are mentioned in parentheses in the JFR - India.

The exchange rate used was as on 30 November 2017 (proposal submission date)

Also, initially the ANNEXURE 2 template had only EURO mentioned.

Please feel free to point out any ambiguity if you see one.

thanks and regards

Arijit

On Thu, Mar 8, 2018 at 7:32 PM, Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)> wrote:

Hi All

I have completed annex 2 for IOM.

However, the Indian costs don't match the justification of resources so they need to be updated to reflect whichever numbers are correct.

I updated the table to add things in the right columns but India and Norway need to add their funding source (highlighted).

I spoke with Tim at EQUIP and he mentioned that we can use GBP or Euros as long as its clear (I have written in it which currency we are using for each partners.

Please note, I wont be back in the office after today until Monday.

Kind regards

Susy

---

**From:** Alena Bartonova [mailto:[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)]

**Sent:** 08 March 2018 12:41

**To:** Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>

**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

**Subject:** RE: Equip call - info from the office of the Research UK

Sorry, was not the last version, here comes.

---

**From:** Alena Bartonova

**Sent:** torsdag 8. mars 2018 13.37

**To:** 'Susan Young' <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>

**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

**Subject:** RE: Equip call - info from the office of the Research UK

Hi Susie,

I think there is some confusion, indeed, not sure where did it come from. If you can fill in the attached.

Thanks!!!!

Alena

**From:** Susan Young [mailto:[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)]  
**Sent:** torsdag 8. mars 2018 13.24  
**To:** Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>  
**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>; Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>  
**Subject:** RE: Equip call - info from the office of the Research UK

Dear Alena

The UKs involvement comes to less than 400k at 100% FEC, so is well below the limit. It is 278k at 80% FEC. Im not sure where the figures in Annex 2 came from as we didn't put it together, but the correct information is in the JoR and in the table below.

Im not sure which cost statements you are referring to? If it is annex 2, could you please provide the WORD version so I can update (if all the other information is now finalised).

Thanks

Susy

Summary fund heading	Fund heading	Full economic cost	RC contribution	% RC contribution
<b>Directly Incurred</b>	Staff	180,695.19	144,556.16	80%
	T & S	19,680.00	15,744.00	80%
	Other Costs	12,000.00	9,600.00	80%
	<b>Sub-total</b>	<b>212,375.19</b>	<b>169,900.16</b>	
<b>Directly Allocated</b>	Investigators	0.00	0.00	80%
	Estates Costs	33,880.35	27,104.28	80%
	Other DA	0.00	0.00	80%
	<b>Sub-total</b>	<b>33,880.35</b>	<b>27,104.28</b>	
<b>Indirect Costs</b>	Indirect Costs	101,641.05	81,312.84	80%
	<b>Total</b>	<b>347,896.59</b>	<b>278,317.27</b>	

---

**From:** Alena Bartonova [mailto:Alena.Bartonova@nilu.no]  
**Sent:** 08 March 2018 12:09  
**To:** Susan Young <Susan.Young@iom-world.org>; Karen Galea <karen.Galea@iom-world.org>  
**Cc:** Dr. Arijit Chowdhuri <arijitchowdhuri@andc.du.ac.in>; Sotiris Vardoulakis <Sotiris.Vardoulakis@iom-world.org>  
**Subject:** Equip call - info from the office of the Research UK  
**Importance:** High

Hi,

I called the office, because I was unable to figure out the Annex 2 issue.

1. Annex 2. IOM, your TOTAL budget needs to be 400.000 pounds or less, you can very well leave the 100% funding in the table, and write that you will only receive 80%, but the total needs to come down to max 400.000 (you were at 439 or something). (This means you also need again, to re-adjust the 1-pg cost statement). I think you could upload the resulting files yourselves. Please mark them in the name as "revised" or something. We should not have to delete any of the old files.
2. ODA statement. Please could you upload this yourselves.
3. Cost statements, IOM will have to revise theirs, please advise if you can put it together and submit as well.
4. No need to delete financial info from the template, but if you want, you can do it, it is of no consequence other than looking better with nothing.

We got an extension to submit until tomorrow 5 p.m. UK time, but if we do not need it, it is fine. I think if you would be so kind and upload, and then Arijit or I can press the button, please let me know.

Please let me know if this is ok.

All the best

Alena

Alena Bartonova, PhD

Research Director, NILU UAE

[www.nilu.no](http://www.nilu.no)

Phone: +47 63898152/+47 97702956/+971 50 8336459

 **Please consider the environment before printing this email and attachments**

Susan Young

**Research Operations Manager**



Institute of Occupational Medicine  
 Research Avenue North  
 Riccarton  
 Edinburgh  
 EH14 4AP

**Tel:** 0131 449 8065

**Fax:** 0131 449 8084

**Mob:** 07590 307 678

**Email:** [susan.young@iom-world.org](mailto:susan.young@iom-world.org)

**Web:** <http://www.iom-world.org>

**Web:** <http://www.safenano.org>

**Twitter:** @IOMworld @IOMservice @SAFENANO\_Online

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This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender - [susan.young@iom-world.org](mailto:susan.young@iom-world.org) - immediately and delete the message from your system. All IOM email is virus scanned but the recipient should also check this email and any attachments for the presence of viruses.

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### 3 attachments



**ODA Compliance Statement UK.pdf**  
274K



**JustofRes-FINAL (002).pdf**  
29K



**EqUIP-Call-Spec-Annex-2\_revised.pdf**  
392K

**Karen Galea** <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>

Fri, Mar 9, 2018 at 5:30 PM

To: Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>, "Dr. Arijit Chowdhuri" <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>, Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>

Cc: Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

Thanks Alena!

Karen

[Quoted text hidden]

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**Sotiris Vardoulakis** <Sotiris.Vardoulakis@iom-world.org>

Fri, Mar 9, 2018 at 6:18 PM

To: Karen Galea <karen.Galea@iom-world.org>, Alena Bartonova <Alena.Bartonova@nilu.no>, "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>, Susan Young <Susan.Young@iom-world.org>

Dear All,

Very many thanks for the additional work on this proposal.

Fingers crossed!

Sotiris

[Quoted text hidden]

Gmail interface showing an email from Marco Antonio Rivera. The email subject is "Manuscript" and the content includes a greeting, a request for comments on a manuscript, and a PDF attachment titled "text.pdf".

**Compose**

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- Inbox 1
- Starred
- Snoozed
- Important
- Sent
- Drafts 53
- All Mail
- Categories
- Social 7,982
- Updates 2,048
- Forums 5
- Promotions 7,212
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**Chat**

**Spaces**

**Meet**

Search: mrivera@uaem.mx

Active

21 of many

### Manuscript

**M** **Marco Antonio Rivera** <mrivera@uaem.mx> to Tanu, me, Joaquin Nov 15, 2018, 2:50 PM

Hello,

Please take a look to the last version of the manuscript and send me your comments. I am still working on the introduction, and it will be ready by monday. Punit and I are planning to work on the paper the next Wednesday, so please send me your comments as soon as possible.

Thank you

**One attachment** • Scanned by Gmail

text.pdf

Gmail interface showing an email from Marco Antonio Rivera. The email subject is "Manuscript" and the body contains a message about a manuscript review. An attachment "text.pdf" is visible.

**Compose**

**Mail** 1

- Inbox 1
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- Social 7,982
- Updates 2,048
- Forums 5
- Promotions 7,212
- More

**Chat**

**Spaces**

**Meet**

Search: mrivera@uaem.mx

Active

21 of many

### Manuscript

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Thank you

**One attachment** • Scanned by Gmail

text.pdf



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

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**Springer Nature book chapter invitation**

9 messages

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aryauthaman@yahoo.co.in <aryauthaman@yahoo.co.in>  
To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>  
Cc: hiran m <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 12:50 PM

Dear Prof. Dr. Sarita,  
Wish you are fine and that doing well with your research work in full swing.

Let me introduce myself. My name is Arya Uthaman, a research scholar at Harbin Institute of Technology, China, and a student of Prof. (Dr) Sabu Thomas, Vice-Chancellor Mahatma Gandhi University, Kottayam, Kerala.

I am happy to inform you that I am editing a handbook with Springer Nature publications with Prof. Dr. Sabu Thomas and his two co-workers (international). The name of the book is **Advanced Functional Porous Materials: Macro to Nano Scale Length**. Here all the editors of this book are inviting experts in this field worldwide for the contributing chapters. I am pleased to invite you as a contributing author of this book. I got your email contact from my colleague Mr. Hiran. He conveyed all information regarding your valuable contributions to the Book entitled "Polymer Nanocomposites Based on Silver Nanoparticles: Synthesis, Characterization, and Applications. So, in this email, I am humbly requesting your valuable contribution to our next book. I am attaching the proposed book chapter list to this email, kindly please find the attached file. You can choose and reserve your chapter according to your convenience to write and expertise. The tentative date for the publication of the book is in June 2021.

Wishing you, advanced Merry X mas and Happy New Year.

Please feel free to contact me if you have any questions.

Hopefully looking forward to hearing from you.

Thanking you

Sincerely,  
Arya.

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

Nangang District, Harbin 150090, China

Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)

[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)



**Porous Materials Tentative Chapter Titles.docx**

23K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: "aryauthaman@yahoo.co.in" <aryauthaman@yahoo.co.in>  
Cc: hiran m <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 8:36 PM

Dear Arya

Merry Christmas and Great Year ahead...:)

Thanks for the mail below and invite to write another Chapter with the team of Prof Sabu. I would be glad to be a part of it. Please give me a day to finalize the topic.

Best/Sarita

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Associate Professor

Department of Zoology

Acharya Narendra Dev College

(University of Delhi)  
+91-98-103-09912

---

**aryauthaman@yahoo.co.in** <aryauthaman@yahoo.co.in>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>  
Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 9:49 PM

Dear Dr. Saritha,

Thank you for your email. We are glad to hear about your approval to contribute to this book and to jointly work with Prof Dr. Sabu Thomas's research team. In this email, I am attaching the chapter list for your kind reference, please find the attached file, and please take your time to choose your interested area. After confirming you can send me the name of the chapter, so I can reserve that chapter for you.

If you have any questions regarding the book please feel free to contact me.

Thanking You  
Yours Sincerely,

Arya

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

*Nangang District, Harbin 150090, China*

**Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)**

**[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)**

[Quoted text hidden]



**Porous Materials Tentative Chapter Titles.docx**

23K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>

Thu, Jan 7, 2021 at 7:48 PM

To: "aryauthaman@yahoo.co.in" <aryauthaman@yahoo.co.in>

Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Dear Arya

Regrets for the late response. Our team would be glad to write '**Chapter 9: Characterization of Mesoporous Materials**' in the upcoming book titled '**Advanced Functional Porous Materials: Macro to Nano Scale Length**'.

Please confirm so that we start preparing the Chapter.

Thanks/Sarita Kumar

[Quoted text hidden]

---

**aryauthaman@yahoo.co.in** <aryauthaman@yahoo.co.in>

Fri, Jan 8, 2021 at 10:21 AM

To: "Dr. Saritha Kumar" <saritakumar@andc.du.ac.in>

Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Dear Dr. Saritha ma'am,

Thank you very much for your reply.

We are glad to know about the confirmation from you and your team to contribute 'Chapter 9: Characterization of Mesoporous Materials' in the upcoming book '**Advanced Functional Porous Materials: Macro to Nano Scale Length**'. I request please start working on chapter 9. Further proceedings can do meanwhile.

If you have any questions please feel free to contact me.

Thanks again for your valuable contribution to our book.

Yours Sincerely,

Editors (Arya)

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

*Nangang District, Harbin 150090, China*

**Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)**

**[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)**

[Quoted text hidden]

---

**Sabu Thomas** <sabuthomas@mgu.ac.in>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Sun, Jan 10, 2021 at 3:05 PM

Thanks Sartia

Regards,

Sabu

=====

**Prof.(Dr) SABU THOMAS, D.Sc., Ph.D., FRSC, FEurASc**

**Vice-Chancellor,**

**Mahatma Gandhi University, Kottayam, Kerala, India -686 560**

Director,School of Energy Materials

Founder Director, International and Inter-University

Centre for Nanoscience and Nanotechnology

Professor, School of Chemical Sciences &

International and Inter-University

Centre for Nanoscience and Nanotechnology

*Chief Editor,Nano-Structures & Nano-Objects, Elsevier*



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

---

**Invitation for contributing a book chapter**

31 messages

**Sabu Thomas** <sabuthomas.mgu@outlook.com>

Thu, Oct 11, 2018 at 4:53 PM

To: "saritakumar@andc.du.ac.in" &lt;saritakumar@andc.du.ac.in&gt;

Dear Colleague

Date: 2018/10/10

This mail brings you warm, sincere and hearty greetings from India & China. Hope you are keeping fine and that your research activities are going on in full swing.

I would like to let you know that we, **Dr. Sabu Thomas**, Professor and Head of Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India; **Dr. Li Tianduo**, Professor of School of Chemistry and Pharmaceutical Engineering, Qilu University of Technology, Jinan, Shandong, China; Dr. Hanna J. Maria, School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, India & Hiran Mayookh Lal, PhD student, School of Civil Engineering, Harbin Institute of Technology, Harbin China, altogether have decided to bring out a book on **Polymer Nanocomposites based on Silver Nanoparticles: Synthesis, Characterization and Applications** very soon. **Springer Publishers** has accepted our proposal and we have started working on it. Hopefully, the stalwarts and legends in the field of this field will be contributing chapters to the proposed book and the final outcome will be something about which all of us will be very much proud of.

It came to our attention that your team has done some significant research work on composites based on silver nanoparticles. We will really be honored to have a chapter contributed by you for the proposed book. We hope and believe that you will accept our invitation to this.

In order to save time and to avoid duplications, we are suggesting the topic for each author taking into consideration the specialized area of research handled by each of our contributors. Kindly bear with us for taking the freedom to suggest the topic, considering our good intentions behind this. We, therefore, invite you to join us in this much-awaited dream venture of ours and request your gracious consent to contribute a chapter on the proposed book. Though the change of topic may pose some problems to us, we can be flexible to a certain extent in the best interest of the success of our venture if you have a strong opinion to have your topic changed.

We have already prepared a tentative list of the summary of each chapter, but we would like to add that the author is free to alter the topics and subtopics. In order to avoid overlapping of the contents, **we would first like to have a short 'Content List' (summary) that gives a broad idea about your coverage along with your consent letter** as early as possible. We can have further future discussions through emails if you are interested in this venture. We will be thankfully waiting to get your positive **reply preferably before the end of this month**.

I look forward to having future research collaborations with your team.

With best regards,

Prof. Dr. Sabu Thomas, D.Sc., Ph. D., FRSC

Vice Chancellor  
Mahatma Gandhi University  
Kottayam district  
Kerala State - 686560  
India

Phone (office): +91 481 2730003

Mob: +91 9447223452

Skype: sabu.thomas48

Dr. Sabu Thomas, Professor and Head of Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India.

Dr. Li Tianduo, Professor of School of Chemistry and Pharmaceutical Engineering. Qilu University of Technology, Jinan, Shandong, China.

Dr. Hanna J. Maria, Post-Doctoral Fellow, School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, India.

Hiran Mayookh Lal, Ph.D. student, School of Civil Engineering, Harbin Institute of Technology, Harbin China.

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Sabu Thomas <sabuthomas.mgu@outlook.com>

Thu, Oct 11, 2018 at 10:02 PM

Dear Prof Thomas,

Thanks for the mail below and invitation for writing a Chapter for this prestigious book. I would be glad to be a part of this book and would definitely like to contribute to this venture.

Please let me know if there is any particular format for writing the content list (summary) of the Chapter or if there is any word limit. Will prepare that accordingly and send at the earliest.

Best Regards

Sarita Kumar

[Quoted text hidden]

--

सरिता कुमार  
Sarita Kumar  
Associate Professor  
Department of Zoology  
Acharya Narendra Dev College

(University of Delhi)

+91-98-103-09912

---

**Sabu Thomas** <sabuthomas.mgu@outlook.com>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Fri, Oct 12, 2018 at 7:17 AM

Dear Sarita Kumar

Thank you for your reply and readiness to contribute. I will send you the details soon.

Regards

Prof. Dr. Sabu Thomas, D.Sc., Ph. D., FRSC

Vice Chancellor  
Mahatma Gandhi University  
Kottayam district  
Kerala State - 686560  
India

Phone (office): +91 481 2730003

Mob: +91 9447223452

Skype: sabu.thomas48

---

**From:** Dr. Sarita Kumar <saritakumar@andc.du.ac.in>  
**Sent:** Thursday, October 11, 2018 10:02 PM  
**To:** Sabu Thomas  
**Subject:** Re: Invitation for contributing a book chapter

[Quoted text hidden]

---

**hiran m** <hiran009@yahoo.co.in>  
Reply-To: hiran m <hiran009@yahoo.co.in>  
To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>  
Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Dr Li Tiando <litianduo@163.com>, "Chihong. Happy" <chihong.happy@163.com>, Hanna Maria <hannavidhu@gmail.com>, "noelbabu@outlook.com" <noelbabu@outlook.com>, Aryauthaman <aryauthaman@yahoo.co.in>

Tue, Oct 16, 2018 at 8:39 AM

Dear Professor Sarita Kumar,  
Hope you are fine. I am very glad to meet you.

I am Hiran Mayookh Lal (co-editor of proposed book), research scholar under Prof Dr Sabu Thomas.

Thank you for your willingness for your contribution and work together for proposed book.

## "Polymer Nanocomposites based on Silver Nanoparticles: Synthesis, Characterization and Applications"

For your better understanding I will forward you the list of chapters and you can choose any chapter according to your knowledge on the subject.

list of chapters are

- Characterization of silver nano particles
- Physical and Chemical modification of silver nano particles
- Silver nano composites in different synthetic polymer matrices (Bio degradable and non degradable)
- Silver nano particles in natural polymer (Bio degradable)
- microscopic analysis of Silver Nano composites
- spectroscopic analysis of Silver Nano composites
- scattering method for analysis of Silver Nano composites
- Thermal Characterization of Silver Nano composites
- Mechanical and Viscoelastic Charecterization
- Diffusion and transport properties of Silver Nano composites
- Ageing and degradation study
- Theory, modelling and simulations of Silver Nano composites

These are chapters to be completed the other chapters already have chosen by the experts on corresponding field.

I also suggest you please forward me your choice of chapter as soon as possible to avoid overlapping, because we are also sending the request to other Professors. So we can confirm your preference and adjust with other authors.

I will forward you the Springer book Contract consent to publish and the format details.

Hopefully looking forward for your kind reply.

Thanking You.  
Hiran

Together with, Prof Sabu Thomas, Dr. Li Tianduo, Dr. Hanna Maria

*With Best Regards,*

Hiran Mayookh Lal  
Research fellow@  
Laboratory For FRP Composites & Structures (LFCS)  
School of Civil Engineering  
Harbin Institute of Technology  
[73 Huanghe Road, Nangang District, Harbin, China 150090](#)  
mob. no- 0086 18846831532  
*Skype ID- hiran0091*  
*Email: [hiran009@yahoo.co.in](mailto:hiran009@yahoo.co.in)*

On Tuesday, 16 October, 2018, 10:32:09 AM GMT+8, Sabu Thomas <[sabuthomas.mgu@outlook.com](mailto:sabuthomas.mgu@outlook.com)> wrote:



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

---

## Dr. Kumar - IntechOpen - Advances in Diptera - Insight, Challenges and Management Tools

4 messages

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**Paula Gavran** <paula@intechopen.com>

Fri, Feb 18, 2022 at 7:37 PM

To: saritakumar@andc.du.ac.in

Dear Dr. Kumar,

My name is Paula Gavran and I will be the Author Service Manager for your book project ("*Advances in Diptera - Insight, Challenges and Management Tools*").

I wanted to get in touch and provide you with some information regarding the book and let you know that we have started inviting potential authors to submit their research.

Over the next month, authors will begin submitting their chapter proposals. A Chapter proposal is a short 100-150 word description of the chapter and should provide you with an overview of what the full chapter will discuss.

As Academic Editor, your first task will be to review the submitted proposals.

You will access these proposals through your Academic Editor Panel which can be reached on the following link: <https://mts.intechopen.com/> (Your Panels – Academic Editor Panel).

On your panel, you will also find your Editor Guidelines (Documents – Download), the full chapters once they are submitted, and other important documents.

I have also attached the Editor Guidelines to this email for your quick reference.

Please remember that we welcome you to invite your colleagues to join the project by sending them this link: [https://mts.intechopen.com/welcome?books\\_hash=530031c8ad9b3661090e69f0561e31f0&editor\\_contacts=a80ac0e94&books\\_id=11807](https://mts.intechopen.com/welcome?books_hash=530031c8ad9b3661090e69f0561e31f0&editor_contacts=a80ac0e94&books_id=11807)

All authors you invite will be granted a 35% discount on their OAPF.

I will be happy to assist with any questions you may have and am looking forward to working with you.

Please kindly confirm the receipt of this mail.

Thank you,

IntechOpen - Open Science Open Minds

<https://mts.intechopen.com>



**Paula Gavran | Author Service Manager**

+44 20 8089 5702 | [intechopen.com](https://mts.intechopen.com)

Rijeka: [Janeza Trdine 9, 51000 Rijeka, Croatia](#)

London: [5 Princes Gate Court, London, SW7 2QJ, UK](#)

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**2 attachments**

 **IntechOpen-Academic\_Editor\_Guidelines.pdf**  
701K

 **IntechOpen-CrossCheck\_Guidelines.pdf**  
201K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Paula Gavran <paula@intechopen.com>

Fri, Feb 18, 2022 at 7:49 PM

Dear Paula

Thank you so much for the information and launch of the proposal invites. I will go through all the guidelines and will contact you in case of any query.

Best

[Quoted text hidden]

--

सरिता कुमार  
Sarita Kumar  
Professor  
Department of Zoology  
Acharya Narendra Dev College

(University of Delhi)  
+91-98-103-09912

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Paula Gavran <paula@intechopen.com>

Mon, Feb 21, 2022 at 1:49 PM

Dear Paula

Just a little query. As an academic editor of the proposed book, I am eligible for publishing my Chapter free and online first. In that case, do I need to register and submit my Chapter proposal too?

Thanks

[Quoted text hidden]

---

**Paula Gavran** <paula@intechopen.com>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Mon, Feb 21, 2022 at 4:36 PM

Dear Dr. Kumar,

thank you for your email and registration.

To kindly refer to it, you can write 1 chapter and it is free of charge for you, as the Editor. You don't have to submit your proposal, just the chapter.

When it's finished, it will be sent to the external reviewer. This chapter will be treated like any other chapter in the book, which means that it is subject to iThenticate screening, language copyediting, typesetting etc.

If you need any kind of help, I am at your disposal.

Looking forward to hearing from you.

Kind regards,



**Paula Gavran | Author Service Manager**

+44 20 8089 5702 | [intechopen.com](https://www.intechopen.com) 

Rijeka: [Janeza Trdine 9, 51000 Rijeka, Croatia](#)

London: [5 Princes Gate Court, London, SW7 2QJ, UK](#)

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# SCHEDULE OF ICMCESA - 2022



External



**ICMCESA 2022** <icmcesa2022@andc.du.ac.in>  
to a.warren, me

Thu, Feb 24, 2022, 12:49 PM

Greetings

On behalf of the Organizing committee, we would like to remind you that your talk is scheduled on February 25 , 2022 from 1400 - 1515 (IST)

PFA the link for joining the conference

Topic: "ICMCESA - 2022" - Day - 4  
Time: This is a recurring meeting Meet anytime

Join Zoom Meeting

<https://us02web.zoom.us/j/89795036663?pwd=Im9lWRmxmUlmZza0FVY1JyCDd1M3ZlZz09>

Meeting ID: 897 9503 6663  
Passcode: 905930

Looking forward to a stimulating session with you

With best regards  
Team ICMCESA-2022, ANDC



Alan Warren

Thu, Feb 24, 2022, 3:06 PM

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Students assignm... 107



 **sunita jetly** <subhagaya@gmail.com>  
to Satendra, me

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

From: **Dr S Sonkar** <drscsonkar@gmail.com>

Date: Wed, Jun 8, 2022 at 4:16 PM

Subject: Invitation for Book Chapter "EMERGING HUMAN VIRAL DISEASES".

To: sunita jetly &lt;subhagaya@gmail.com&gt;

Cc: prudhvi sai &lt;saiprudhvi21@gmail.com&gt;

Dear Dr. Jetly,

Thank you for agreeing to contribute a chapter to the proposed book titled "EMERGING HUMAN VIRAL DISEASES" and looking forward to your

As per our Previous discussion, We assigning you Chapter :

**Human Adult T-Cell Leukemia Virus Type 1 (HTLV-1)**

For abstracts and full chapter manuscript preparation please go to the below link

<https://www.springer.com/gp/authors-editors/book-authors-editors/manuscript-preparation/5636#c5648>

For Abstracts: 300 Words Including titles and Keywords

For full Book chapter preparation

**1. Introduction***Brief history**Discovery***2. Epidemiology***Geographical distribution / demographic**Age, mortality and Morbidity**Origin of infection and diversity**Spread of disease (epidemics, sporadic, pandemics etc) and**Biosafety measures (Handling of virus)***3. Potential risk of emergence and re-emergence****4. Organization of infectious agents (Structural and molecular)***Classification**Morphology and virion structure*



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Fwd: meeting link for HTLV 1 book External Inbox x



Shruti Banswal &lt;shruti68@gmail.com&gt;

to Dr, me, Manisha

Dear all ,

Sending you all meeting link as desired by Dr. Sunita. Time for the meeting is today at 10.00pm.

Thanks

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

From: Shruti Banswal &lt;shruti68@gmail.com&gt;

Date: Wed, Jul 27, 2022 at 8:29 PM

Subject: meeting link for HTLV 1 book

To: shruti gupta &lt;shruti68@gmail.com&gt;

[meet.google.com/vdc-yxof-fuc](https://meet.google.com/vdc-yxof-fuc)

--

Dr. Shruti Banswal  
Associate Professor  
Department of Biomedical Science  
Shaheed Rajguru College of Applied Sciences for Women  
Vasundhara Enclave Delhi 110096  
Mobile:981138293

--

Dr. Shruti Banswal  
Associate Professor  
Department of Biomedical Science  
Shaheed Rajguru College of Applied Sciences for Women  
Vasundhara Enclave Delhi 110096  
Mobile:981138293

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htlv1 acceptance

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Request for an **acceptance** letter for our chapter Human Adult T-Cell Leukemia Virus Type 1 (HTLV1) in your b

sunita jetly &lt;subhagaya@gmail.com&gt;

to Bhukya, manishakhatri, me, Archana, shruti

Dear Dr Prudhvi

I kindly request you to provide an **acceptance** letter for our chapter on Human Adult T-Cell Leukemia Virus Type 1 (HTLV1) in your book titled "Emerging Human Viral Diseases." This be communicated to our respective colleges.

regards

-

Dr. Sunita Jetly

Associate Professor

Acharya Narendra Dev College

Govindpuri, Kalkaji

Residential Address

F-34, Sector-54

NOIDA 201303

9312922180

[sunitajetly@andc.du.ac.in](mailto:sunitajetly@andc.du.ac.in)

sunita jetly &lt;subhagaya@gmail.com&gt;

to Bhukya, manishakhatri, me, Archana, shruti

Dear Dr Prudhvi

just a humble reminder

regards

DR sunita Jetly

\*\*\*



Bhukya Prudhvi Lal &lt;prudhvi.bhukya@icmr.gov.in&gt;

to subhagaya, manisha, me, archanapandey, shruti

Dear Prof Jetley

Your chapter entitled has been provisionally **accepted** for publication for the Springer Book - Emerging Human Viral Diseases.

Thank you for your interest in our book

Regards

\*\*\*

-

Dr.Prudhvi Lal BhukvaScientistInchargeRodent BSL2 &amp; Primate Containment facility(ICMR- National Animal Resource Facility for Bio-Medical Research (NARFBR)Indian Council of Medical Research

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- acbr 18
- applications 7
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- books 1
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- family 13
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- jit-hp
- lab shopping 23
- mass spec
- papers 1
- papers related to... 2
- PARKINSON
- phd 14
- PHD COURSEWORK
- PRABHAT WORK 1

(No subject)

Yahoo/Inbox ☆



● **hamid** <hamidur2006@gmail.com>



Wed, 13 Nov, 2019 at 3:47 pm ☆

To: Laishram Singh, rimp\_1989@yahoo.com, sharifun shahnaj, Chingtam

Hi,  
I am sending the recent modified paper. Have a review on it finally.

Attention Rimp: Pliz send the sigma file of Fig1. There are some errors in it. Needed to be modified.  
Thank you all.

--  
Md Hamidur Rahaman, PhD  
Assistant Professor  
Dept. of Biotechnology  
Manipur University, Canchipur  
Imphal, Manipur, India, 795003  
Tel. no. 09863518139



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Received, thank you. Received. Thank you.



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study material-phd 1  
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TRAINEES  
transactions 2

## Re: Fwd: Request for APC fee waiver

---

From: rimp\_1989@yahoo.co.in

To: lairksingh@gmail.com

Date: Thursday, 17 October, 2019 at 06:00 am IST

---

Sir! I just saw Ur mail...

Will come to lab today in afternoon and upload the manuscript.

Thanks

On 15 Oct 2019 17:59, Laishram Singh <lairksingh@gmail.com> wrote:

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

From: **APCwaivers** <[APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)>

Date: Tue, Oct 15, 2019, 5:57 PM

Subject: RE: Request for APC fee waiver

To: Laishram Singh <[lairksingh@gmail.com](mailto:lairksingh@gmail.com)>

Dear Dr. Laishram Rajendrakumar Singh,

Thank you for providing this documentation in support of your waiver request. I am writing to confirm that we will be able to provide a full waiver for the APC for your manuscript should it be accepted for publication in Scientific Reports.

Once you have submitted your manuscript please inform me of your manuscript tracking number so that this waiver can be added to your manuscript record. Please also keep a copy of this email for future reference.

Thanks and best wishes,

Ross

**Springer Nature** APCWaivers Department

The Campus, 4 Crinan Street,

London N1 9XW

United Kingdom

Visitor address: Porters Gate Reception,

Wharfdale Road, London, UK

**nature publishing group** / palgrave macmillan

Tel: +44 (0)20 3192 2009

Email: [APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)

**From:** Laishram Singh [mailto:[lairsingh@gmail.com](mailto:lairsingh@gmail.com)]

**Sent:** 15 October 2019 08:19

**To:** APCwaivers

**Subject:** Request for APC fee waiver

Dear Representatives,

We are submitting a manuscript entitled "**Structural basis of Peroxidase Catalytic Cycle of human Prdx6**" for suitability for publication in Scientific Report. Since the manuscript has not been submitted we do not have a manuscript ID.

Due to paucity of funds we would like to apply complete APC fee waiver by Scientific Report. Necessary evidence is attached herewith for your reference.

We would remain thankful for your kind consideration.

Sincerely,

Dr. Laishram Rajendrakumar Singh

ACBR, University of Delhi

Delhi-110007, India

Sir! I just saw Ur mail...

Will come to lab today in afternoon and upload the manuscript.

Thanks

On 15 Oct 2019 17:59, Laishram Singh <[lairsingh@gmail.com](mailto:lairsingh@gmail.com)> wrote:

>

>

> ----- Forwarded message -----

> From: APCwaivers <[APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)>

> Date: Tue, Oct 15, 2019, 5:57 PM

> Subject: RE: Request for APC fee waiver

> To: Laishram Singh <[lairsingh@gmail.com](mailto:lairsingh@gmail.com)>

>

>

> Dear Dr. Laishram Rajendrakumar Singh,

>

>

>

## [Antioxidants] Manuscript ID: antioxidants-745826 - Submission Received

---

From: Editorial Office (antioxidants@mdpi.com)

To: lairksingh@gmail.com

Cc: lairksingh@gmail.com; god.is.gr8.786@gmail.com; rimp\_1989@yahoo.co.in; pushpakakchingtabam@gmail.com; sharifun15@gmail.com; hamidur2006@gmail.com; saquib.ansari@rajguru.du.ac.in

Date: Friday, 28 February, 2020 at 05:52 pm IST

---

Dear Dr. Singh,

Thank you very much for uploading the following manuscript to the MDPI submission system. One of our editors will be in touch with you soon.

Journal name: Antioxidants

Manuscript ID: antioxidants-745826

Type of manuscript: Review

Title: The moonlighting protein, Prdx6 is a Guardian of lung pathophysiologies

Authors: Laishram Rajendrakumar singh \*, Anju Kumari, Rimp\_1989@yahoo.co.in, Pushpa Kakchingtabam, Sharifun Shahnaj, Hamidur Rahaman, Mohd Saquib Ansari

Received: 28 February 2020

E-mails: lairksingh@gmail.com, god.is.gr8.786@gmail.com, rimp\_1989@yahoo.co.in, pushpakakchingtabam@gmail.com, sharifun15@gmail.com, hamidur2006@gmail.com, [saquib.ansari@rajguru.du.ac.in](mailto:saquib.ansari@rajguru.du.ac.in)

Submitted to section: Antioxidant Enzyme Systems,

[https://www.mdpi.com/journal/antioxidants/sections/antioxidant\\_enzyme\\_systems](https://www.mdpi.com/journal/antioxidants/sections/antioxidant_enzyme_systems)

You can follow progress of your manuscript at the following link (login required):

[https://susy.mdpi.com/user/manuscripts/review\\_info/c744cf9da91ad7edef752fb46ce31c12](https://susy.mdpi.com/user/manuscripts/review_info/c744cf9da91ad7edef752fb46ce31c12)

The following points were confirmed during submission:

1. Antioxidants is an open access journal with publishing fees of 1400 CHF for an accepted paper (see <https://www.mdpi.com/about/apc/> for details). This manuscript, if accepted, will be published under an open access Creative Commons CC BY license (<https://creativecommons.org/licenses/by/4.0/>), and I agree to pay the Article Processing Charges as described on the journal webpage (<https://www.mdpi.com/journal/antioxidants/apc>). See <https://www.mdpi.com/about/openaccess> for more information about open access publishing.

Please note that you may be entitled to a discount if you have previously received a discount code or if your institute is participating in the MDPI Institutional Open Access Program (IOAP), for more information see <https://www.mdpi.com/about/ioap>. If you have been granted any other special discounts for your submission, please contact the Antioxidants editorial office.

2. I understand that:

a. If previously published material is reproduced in my manuscript, I will provide proof that I have obtained the necessary copyright permission. (Please refer to the Rights & Permissions website: <https://www.mdpi.com/authors/rights>).

b. My manuscript is submitted on the understanding that it has not been

## Proof correction

---

From: rimpay chowhan (rimpy\_1989@yahoo.co.in)

To: shivani.varmani@gmail.com; r\_narang@yahoo.com

Date: Monday, 2 August, 2021 at 01:25 am IST

---

Greetings,

PFA the doc file prepared for proof corrections. Please give your suggestions.

The parts highlighted in yellow are for our discussion and will be deleted before mailing the file to the editors.

Regards,

--

**Rimpy Kaur Chowhan**



Proofs corrections Aug 02.doc  
77kB



jpcs\_21\_21\_R3.pdf  
1.1MB

---

**Suggest the corrections on applying track changes and return it to me by tomorrow morning.**

2 messages

---

**prashant singh** <psingh@arsd.du.ac.in>

Sat, Jan 8, 2022 at 9:26 AM

To: sh.ritika98@gmail.com, DURGESH RAWAT <durgeshrawat1989@gmail.com>, "Dr. Pankaj Khanna" <pankajkhanna@andc.du.ac.in>, leenakhanna@ipu.ac.in, VINOD KUMAR <kumarv@jnu.ac.in>, "Kamlesh Kumari Ph.D." <biotechnano@gmail.com>, dr.preetichaudhary@yahoo.in, prashant singh <psingh@arsd.du.ac.in>, madhur singh <19madhursingh@gmail.com>

Dear all,

Please find the draft of the manuscript "**An understanding of Coronavirus and *In Silico* Approach to find Promising Candidates to combat the COVID-19: A Systematic Review**".

Please suggest the corrections on applying track changes and return it to me by tomorrow morning.

Best,

Prashant

---

 **Manuscript.docx**

1094K

---

**prashant singh** <psingh@arsd.du.ac.in>

Sat, Jan 8, 2022 at 3:31 PM

To: sh.ritika98@gmail.com, DURGESH RAWAT <durgeshrawat1989@gmail.com>, "Dr. Pankaj Khanna" <pankajkhanna@andc.du.ac.in>, leenakhanna@ipu.ac.in, VINOD KUMAR <kumarv@jnu.ac.in>, "Kamlesh Kumari Ph.D." <biotechnano@gmail.com>, dr.preetichaudhary@yahoo.in, prashant singh <psingh@arsd.du.ac.in>, madhur singh <19madhursingh@gmail.com>

Dear all,

I will share with you the updated file and then make the corrections. I will send the updated manuscript by tonight,

[Quoted text hidden]

--

Professor Prashant Singh, Department of Chemistry, Atma Ram Sanatan Dharma College, University of Delhi, New Delhi-110021



Dr. Pankaj Khanna <pankajkhanna@andc.du.ac.in>

---

## Synthetic Communications Paper

1 message

---

**Dr. Pankaj Khanna** <pankajkhanna@andc.du.ac.in>

Tue, Nov 9, 2021 at 7:57 PM

To: "Dr. Neeti Misra" <neetimisra@andc.du.ac.in>, Leena Khanna <leenakhanna@ipu.ac.in>

Dear Ma'am

Please find the corrected version of the paper.

Pankaj

---

 **SynComm 2021 Final.pdf**  
4438K



Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

---

## DFT Details

---

**Dr. Pooja Bhagat** <poojabhagat@andc.du.ac.in>  
To: parulbhalla533@gmail.com

Sun, Oct 16, 2022 at 7:25 PM

Dear Parul,

PFA DFT details.

Thanks & Regards,  
Dr Pooja Bhagat

---

 **Parul\_DFT.zip**  
4436K



Dr. Pooja Bhagat &lt;poojabhagat@andc.du.ac.in&gt;

---

## 13 C NMR

---

Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>  
To: parulbhall533@gmail.com

Tue, Oct 25, 2022 at 7:28 PM

Dera Parul,

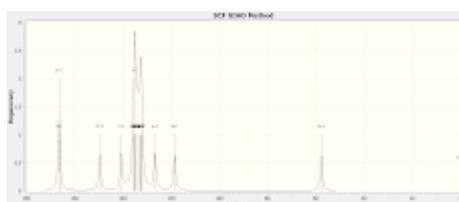
PFA 13 C NMR of base and complexes. In case of Cr, if the same reference is used as used in base and Hg (the reference to be used), we are getting C14 peak before reference. so I am sending you two 13 C NMR for Cr. Please check it from your experimental NMR.

In case of any problem, you can call me.

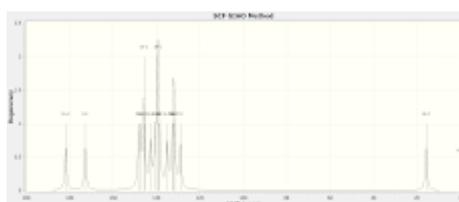
Thanks and Regards  
Dr Pooja Bhagat

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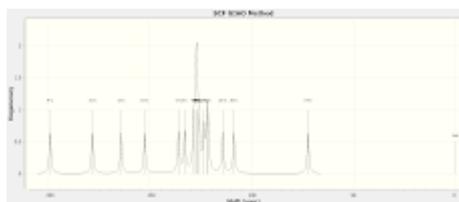
### 4 attachments



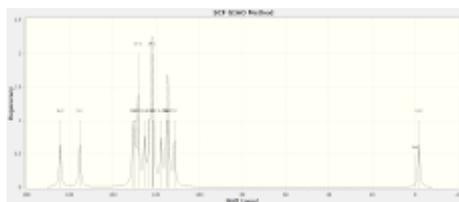
**13 C\_base\_scf\_giao.png**  
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**13 C\_crnmr\_scf\_giao.png**  
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**13 C\_hgnmr\_scf\_giao.png**  
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**13 C\_Different Reference\_crnmr\_scf\_giao.png**  
4580K



Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

---

**(no subject)**

---

**Parul Bhalla** <parulbhalla533@gmail.com>

Sat, Dec 24, 2022 at 2:30 PM

To: "Dr. Pooja Bhagat" <poojabhagat@andc.du.ac.in>, "Dr. Rajesh Malhotra" <Malhotra\_ksrk@yahoo.co.in>

Respected Sir/Mam  
Copy of Final Manuscript are attached in this mail.



**Manuscript final 23 dec 10.docx**  
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From: kavita singhal (kavita.singhal8@yahoo.co.in)

To: shardap@gmail.com; pragyagahlot@gmail.com

Date: Monday, 28 March, 2022 at 06:06 pm IST

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Hello mam,

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Thank You

Regards  
Dr. Kavita Mittal  
Department of Chemistry  
Acharya Narendra Dev College  
Govind Puri  
New Delhi-110019



SP.Text. JICS-pg3.docx  
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Dr. Kavita Mittal &lt;kavitamittal@andc.du.ac.in&gt;

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Sharda Pasricha <spasricha@svc.ac.in>  
To: "Dr. Kavita Mittal" <kavitamittal@andc.du.ac.in>

Sat, Jun 18, 2022 at 7:46 PM

Pl see

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From: <eproofing@springernature.com>  
Date: Sat, 18 Jun, 2022, 7:31 pm  
Subject: Proofs for your article in Journal of the Iranian Chemical Society ( 2603 )  
To: <spasricha@svc.ac.in>

**Article Title :** Multicomponent synthetic strategies and perspectives for synthesis of linked or fused coumarin heterocycles**DOI :** 10.1007/s13738-022-02603-x

JICS-D-22-00030R1

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Dr. Kavita Mittal <kavitamittal@andc.du.ac.in>

---

## Synopen, SO-2022-T0086-SPO

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**Dr. Kavita Mittal** <kavitamittal@andc.du.ac.in>  
To: pragyagahlot@gmail.com

Wed, Mar 8, 2023 at 10:07 PM

Pls check

Dr. Kavita Mittal  
Assistant Professor  
Department of Chemistry  
Acharya Narendra Dev College  
University of Delhi

[Quoted text hidden]

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### 2 attachments

 **so-2022-t0086-spot.pdf**  
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818K

# Effect of variation in glancing angle deposition on resistive switching property of WO<sub>3</sub> thin films for RRAM devices

Cite as: J. Appl. Phys. 132, 134102 (2022); doi: 10.1063/5.0103236

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Shiva Lamichhane,<sup>1</sup> Savita Sharma,<sup>2</sup> Monika Tomar,<sup>3,4</sup>  and Arijit Chowdhuri<sup>5,a)</sup> 

## AFFILIATIONS

<sup>1</sup>Department of Physics and Astrophysics, University of Delhi, Delhi 110007, India

<sup>2</sup>Physics Department, Kalindi College, University of Delhi, Delhi 110008, India

<sup>3</sup>Institute of Eminence, University of Delhi, Delhi 110007, India

<sup>4</sup>Department of Physics, Miranda House, University of Delhi, Delhi 110007, India

<sup>5</sup>Department of Physics, Acharya Narendra Dev College, (University of Delhi), Kalkaji, New Delhi 110019, India

<sup>a)</sup>Author to whom correspondence should be addressed: [arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)

## ABSTRACT

In this paper, nanostructured tungsten oxide (WO<sub>3</sub>) thin films are deposited using the RF-magnetron sputtering technique in Glancing Angle (GLAD) arrangement. Variation in the structural, morphological, optical, and resistive switching (RS) characteristics of nanostructured WO<sub>3</sub> film is investigated as a function of GLAD angle (60°–80°). Electrical studies on nanostructured WO<sub>3</sub> films deposited at room temperature are found to exhibit enhanced bipolar resistive-switching properties in metal–insulator–metal pattern [Au/WO<sub>3</sub>/ITO]. The R<sub>ON</sub>/R<sub>OFF</sub> ratio between high and low resistance states was noted to be about 190 besides a minimum set voltage of ~2.22 V in the case of the WO<sub>3</sub> thin film deposited at the 70° glancing angle. A detailed current transport mechanism analysis indicates the existence of ohmic-behavior and trap-assisted space charge limited conduction as the governing mechanisms at the state of low and high applied bias, respectively. Good data-retention characteristics coupled with reproducible and fast RS capabilities obtained with Au/WO<sub>3</sub>/ITO device structure promise scope of rapid development in future RS-based novel memory device applications.

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## I. INTRODUCTION

Over the last decade, downscaling has assumed importance in the area of memory technology, which is attributable mainly to the limits on physical size of the devices concerned. Conventional Flash Memories with a floating gate structure are soon assumed to attain physical limits as size of the devices is scaled down and on-chip density increased. With regard to overcome this complication, substitute memory technologies have been proposed and explored by researchers worldwide. Due to the property of low power consumption, non-volatile memories (NVM) have gained acceptance as a viable information storage technology to fulfill the ever-increasing demands of mobile/computer/electronics-based products. Even among NVM technologies, many configurations including magnetic RAM (MRAM), ferroelectric RAM (FRAM), dynamic random-access memory (DRAM), resistive switching RAM (RRAM), phase-change RAM (PRAM), etc., have been tested for stability and performance.<sup>1</sup>

Out of the aforementioned non-volatile memory families, RRAM has garnered major attention because the technology advantageously includes a simple structure, low power consumption (despite high density of components), exhibits high endurance and operational speed, is highly compatible with CMOS technology, and proffers the greatest scope for scalability (<10 nm) that holds out a great promise for enhanced size downscaling.<sup>2</sup>

RRAMs are based on the physical phenomenon of Resistive Switching (RS), which is typically characterized by an abrupt change in the value of resistance due to the application of an electric signal either in the form of current or voltage. Materials exhibiting resistive switching are seen to retain consequent resistance states over a long time even after the removal of an externally supplied voltage. Since the same are noted to be present whence repeated over a number of times hence this makes the process reversibly non-volatile. So, RS is considered as a non-volatile and

# Materials Research Express



## PAPER

# A novel method of electrochemically growing ZnO nanorods on graphene oxide as substrate for gas sensing applications

RECEIVED  
20 December 2018

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1 March 2019

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8 April 2019

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17 April 2019

Chetna<sup>1</sup> , Shani Kumar<sup>1,2</sup> , A Garg<sup>2</sup>, A Chowdhuri<sup>3</sup>, A Jain<sup>4</sup> and A Kapoor<sup>1</sup>

<sup>1</sup> Department of Electronic Science, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, India

<sup>2</sup> Department of Electronics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>3</sup> Department of Physics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>4</sup> Department of Electronics, Rajdhani College, University of Delhi, Raja Garden, New Delhi-110015, India

E-mail: [chetna2288@gmail.com](mailto:chetna2288@gmail.com)

**Keywords:** GO, IDE, ZnO nanorods, electrochemical method, gas sensing

## Abstract

The potential of electrochemically deposited ZnO nanorods using graphene oxide (GO) coated inter digital electrode (IDE) as substrate material for gas sensing applications has been reported. For this purpose, GO solution was synthesized via Hummer's method and coated over IDE of aluminium fabricated on the glass plate. Later ZnO nanorods were deposited on it using electrochemical method. For the structural, morphological and elemental analysis, as-grown nanorods were characterized by XRD, FESEM, EDX and Raman spectroscopy. The gas sensing properties of the sensor were analyzed using customized Gas Sensing Test Rig (GSTR). FESEM micrographs illustrated that ZnO nanorods with hexagonal geometry were deposited on GO homogeneously. In XRD spectra, an intense peak along (002) direction clearly indicate that nanorods possess c-axis orientation. In order to investigate the structural integration of the nanorods, Raman and EDX spectra were also recorded, and their results were found to be in consent with that of XRD analysis. Sensing results revealed that both ZnO nanorods and GO are responsible for change in resistivity of sensor towards the hydrogen gas. Our study indicates that such electrochemically grown ZnO nanorods show prospective for the fabrication of simple and non-hazardous, room temperature gas sensors.

## 1. Introduction

Graphene has jumped to the forefront of the condensed matter research in the past few years as a high quality two dimensional electron system with intriguing scientific and practical applications [1]. In recent times, Graphene Oxide (GO), which is a precursor of graphene, has been of interest for potentially cost-effective mass production of graphene based materials [2]. This is accredited to oxygen functional groups on its basal planes and edges, such as hydroxyl, epoxy, carbonyl and carboxylic acid groups [3–5]. The mechanical, electrical, thermal and optical properties of GO are also affected by these groups and can be customized through chemical modifications [6, 7].

Now-a-days, gas sensors are of paramount importance because of their application in diverse fields such as industry, security, environment, defence, medical etc. Of late GO has become popular and is extensively used because of its surface functionalization property that leads to its gas and vapor sensing characteristics. In addition to this, GO has high surface to volume ratio, therefore provides additional adsorption sites and hence can detect even a single atom of gas molecules [8]. Mainly, the high carrier mobility of graphene related materials at room temperature make them an ideal choice for room temperature based gas sensing [9]. Charge transfer mechanism is the fundamental principle behind GO based gas sensors in which charges are transferred from adsorbate molecules to graphene leading to change in its resistivity [10, 11]. Whereas GO in itself is a well-known sensing material, it can be made more selective and sensitive to analyte gases by hybridization with metal oxides [12].

Amongst various metal oxides, Zinc Oxide (ZnO), an n-type semiconductor oxide, has been reported as the most promising contender for gas sensing applications owing to its distinguishing optical, electrical and

# Materials Research Express



## PAPER

# Structural and optical properties of electrochemically deposited ZnO nanorods by using graphene oxide and ITO as substrate material: a comparative study

RECEIVED  
10 May 2018

REVISED  
21 June 2018

ACCEPTED FOR PUBLICATION  
2 August 2018

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15 August 2018

Chetna<sup>1</sup> , Shani Kumar<sup>1,2</sup> , A Garg<sup>2</sup>, A Chowdhuri<sup>3</sup>, A Jain<sup>4</sup> and A Kapoor<sup>1</sup>

<sup>1</sup> Department of Electronic Science, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, India

<sup>2</sup> Department of Electronics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>3</sup> Department of Physics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>4</sup> Department of Electronics, Rajdhani College, University of Delhi, Raja Garden, New Delhi-110015, India

E-mail: [chetna2288@gmail.com](mailto:chetna2288@gmail.com)

**Keywords:** ZnO nanorods, electrochemical method, graphene oxide

## Abstract

The present work reports the comparative study of structural and optical properties of ZnO Nanorods grown on Graphene Oxide (GO) and ITO. For this purpose, GO has been successfully synthesized via Hummer's method while electrochemical method has been used for the synthesis of ZnO nanorods. The structural and optical properties of the as-grown samples were studied using FESEM, EDX, XRD, FTIR and Raman spectroscopy. An improvement in density of ZnO nanorods with hexagonal structure is indicated by the FESEM micrographs. XRD analysis confirms that crystal structure of ZnO nanorods is not significantly disturbed by GO, in addition a reduction in lattice strain has been observed for the samples grown on GO. Raman and FTIR spectroscopy has also been performed to probe the structural integration of ZnO crystal structure and the results are in consensus with that of XRD analysis. The study indicates the potential application of GO as substrate material for ZnO nanorods based devices.

## 1. Introduction

Graphene is a flat monolayer of carbon atoms, densely packed into a two-dimensional (2D) honeycomb lattice. Contemporary graphitic materials of different dimensionality have Graphene as a fundamental building block [1]. Recently, a sister material of Graphene -namely Graphene Oxide (GO) has gained the attention of research community considerably. This is attributed to its unique mechanical, electrical, thermal and optical properties [2] which can be easily tailored through chemical functionalization [3]. GO offers inexpensive and simple techniques of production, increased solubility and high scalability [4] for device fabrication. Graphene oxide is heavily oxygenated by hydroxyl and epoxide functional groups on their basal planes, flanked by carbonyl and carboxyl groups at the edges of the sheet [5]. These functional groups act as nucleation centres to anchor active materials on the surface of GO [6]. In addition, GO sheets have a large surface area which makes them potential support materials to load functional nanomaterials [2]. Hence, various nanomaterials can be hybridized with GO sheets to create graphene-based derivatives with enhanced properties. These hybrids find a great deal of application in areas such as photocatalysts [7], biosensors [8], batteries [9], supercapacitors [10], bio-imaging [11] etc.

Since last few decades, ZnO nanorods have also, attracted a significant research interest owing to its quasi 1D structure, enhanced charge injection efficiency and improved emission [12]. Solution based approaches for synthesis of ZnO nanorods are popular among the researchers due to their high-growth-rate, low-temperature requirement and simplicity [13–15]. Among which electrochemical method is most convenient as it is non-hazardous and does not require seeded substrate [16].

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**Submission of Chapter for book entitled "Advance Research in Physical & Chemical Sciences and Engineering (With ISBN & DOI Number)"** External RESEARCH x

**Prof. Rachna Joshi** <rachnajoshi@andc.du.ac.in> Wed, Dec 7, 2022, 6:03 AM ☆ ↶ ⋮  
to mkespublication, Nupur, me

**To:** Dr. S. K. Singh  
Publisher  
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\*\*\*\*\*

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As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions

Dr. Rachna Joshi <rachnajoshi@andc.du.ac.in>  
to Man, Pranav, me

Dear Pranav,  
As discussed, I am attaching the thermodynamic functions for the relevance of Plasmas. So I am attaching version 5 after You can search

from: **Dr. Rachna Joshi** <rachnajoshi@andc.du.ac.in>  
to: "Prof. Man Mohan" <drmanmohan.05@gmail.com>, Pranav Kumar <pranavmoon@gmail.com>, "Dr. Rachna Joshi" <rachnajoshi@andc.du.ac.in>  
date: Nov 29, 2021, 8:02 AM  
subject: As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions  
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\*\*\*\*\*  
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Associate Profe  
Department of Physics  
Acharya Narendra Dev College  
University of Delhi  
Mob: 9818533037  
\*\*\*\*\*

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As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions

Dr. Rachna Joshi <rachnajoshi@andc.du.ac.in>  
to Man, Pranav, me

Dear Pranav,  
As discussed, I am attaching the thermodynamic functions for the relevance of Plasmas. So I am attaching version 5 after You can search

from: **Dr. Rachna Joshi** <rachnajoshi@andc.du.ac.in>  
to: "Prof. Man Mohan" <drmanmohan.05@gmail.com>, Pranav Kumar <pranavmoon@gmail.com>, "Dr. Rachna Joshi" <rachnajoshi@andc.du.ac.in>  
date: Nov 29, 2021, 8:02 AM  
subject: As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions  
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ir research group, where they have calculated thermodynamic quantities. I am sending a few papers of relevance including one by narendra and Arun. I will also try to arrange for more papers and send them to you.

Rachna Joshi  
\*\*\*\*\*  
Dr. Rachna Joshi  
Associate Profe  
Department of Physics  
Acharya Narendra Dev College  
University of Delhi  
Mob: 9818533037  
\*\*\*\*\*

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Dr. Sarita Kumar <saritakumar@andc.du.ac.in>

---

## Thanks for your feedback

2 messages

---

**Dr. G. Karthikeyan** <gkarthikeyan@amity.edu>

Fri, Jun 10, 2022 at 2:04 PM

To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>

Dear Dr. Saritakumar,

I Sincerely appreciate your time and efforts to train our students from Amity Institute of Virology and Immunology. My apologies for late response, we are busy with Examinations.

God Bless you

Regards

Dr. G. Karthikeyan

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>

Mon, Jun 13, 2022 at 8:46 AM

To: "Dr. G. Karthikeyan" <gkarthikeyan@amity.edu>

Dear Dr. Karthikeyan

Thank you so much for the opportunity. Looking forward to more collaborations.

Best Regards

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Acharya Narendra Dev College

(University of Delhi)

+91-98-103-09912



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

**Fw: Naphthol manuscript**

2 messages

Dr SN Sinha &lt;sukeshnr\_sinha@yahoo.com&gt;

Thu, May 26, 2022 at 5:25 PM

Reply-To: Dr SN Sinha &lt;sukeshnr\_sinha@yahoo.com&gt;

To: "saritakumar@andc.du.ac.in" &lt;saritakumar@andc.du.ac.in&gt;

madam

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Dr. S.N.Sinha, B.Sc (Hon;s); M.S; Ph.D, M.B.A;  
Scientist- F & HOD - Food Safety Division  
Shakuntala Amirchand Awardee, ICMR International Fellow, DHR International Fellow; CDC - USA & Cincinnati University - Visiting Scientist,  
President of Scientific Association, NINSA (ICMR)  
National Institute of Nutrition  
(Indian Council of Medical Research)  
Jamai-Osmania PO, Hyderabad-500 007, AP.

Phone:91-40- 27197405, Fax:91-40- 27019074Mobile: 7032426802

----- Forwarded Message -----

**From:** RamaKrishna Ungarala <uv.ramakrishna@gmail.com>**To:** Dr. S N Sinha <sukeshnr\_sinha@yahoo.com>**Sent:** Thursday, May 26, 2022, 03:48:39 PM GMT+5:30**Subject:** Naphthol manuscript

Dear Sir,

PFA

--

**Thanks and Regards,**

U.V. Rama Krishna, M.Pharmacy

Senior Research Fellow,

Food Safety Division,

ICMR - National Institute of Nutrition

Ph.no: +91 9700075651



Covid Precautions

**Manuscript draft.docx**

241K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Dr SN Sinha <sukeshnr\_sinha@yahoo.com>

Fri, May 27, 2022 at 8:00 AM

Respected Sir

PFA the MS with a few changes and corrections, if okay with you. If anything else needs to be done, please let me know.

Further, I, hereby, give my consent to be a part of this work. I really appreciate and thank you for giving me this opportunity.

Regards

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Ashoka Narendra Dev College

(University of Delhi)

+91-98-103-09912

**Manuscript draft\_Rev.docx**

269K

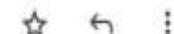
# Fwd: AICOPTAX format Inbox x



**jasmine purushothaman** <jasbose@gmail.com>

to me ▾

Tue, Mar 12, 2019, 7:01PM



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

From: **jasmine purushothaman** <jasbose@gmail.com>

Date: Thu, Feb 21, 2019 at 5:20 PM

Subject: AICOPTAX format

To: Prabir Bandyopadhyay <prabir0432@hotmail.com>

Dear Seema,

I am sending the AICOPTAX FORMAT for your kind perusal. This time they have not given any prescribed format. They asked to check the link of MoEF website and do . In that research grants funding guidelines is there. That also I am attaching for your perusal.

Thanking you

Sincerely

Jasmine

Dr.(Ms)Jasmine.P

Scientist D

Zoological Survey of India

Ministry of Environment Forests & Climate Change (MoEF& CC)

Kolkata

Telephone : +91-9874983181

Mobile:09447726773



**Renu Gupta**  
pfa

Tue, Mar 20, 2018, 12:39 AM



**Komal Kamra** <komalkamra@gmail.com>  
to Renu, Seema, Ravi

Tue, Mar 20, 2018, 8:38 AM

I have forwarded to Kiran who is a PhD student with Manjari and has been following with ICMR so that she can find out what to do.

I suggest Renu to sign all docs but provide the bank mandate form etc of Khalsa. I can send hard copies of the mandate form signed by Principal and bank manager and cross cheques and send via Dr Sodhi who is Kiran father.

We can attach the **MOU** and a cover note saying that three colleges are co organising the event and Khalsa is the finance partner.

Pl advise  
Komal

Komal Kamra  
Associate Professor of Zoology  
SGTB Khalsa College  
University of Delhi  
Delhi 110007  
[komalkamra@gmail.com](mailto:komalkamra@gmail.com)



**Komal Kamra** <komalkamra@gmail.com>  
to Renu, Seema, Ravi

Tue, Mar 20, 2018, 12:19 PM

Please send all papers in appropriate copies signed by you.



Subj: [REDACTED]

Greetings from the

NAU  
S&T Cell/Gen

2. Please refer to our correspondence with you in connection with the [REDACTED]

As we had informed you, Ms. Poojashree Baidoy will reach Delhi airport on 18th January at 2230 hrs. from Moscow. Fr No. SU-232. Kindly make necessary arrangements to receive her at the Delhi airport and transportation to DU, and also for her accommodation in your Guest House during the Fellowship period. In case guest house facility is not available, a suitable accommodation may be arranged for her in the vicinity of your College at a reasonable cost.

3. Regarding the financial commitment to Acharya Narendra Dev College, New Delhi as the host institution for this Fellowship programme, we are pleased to inform you that the total amount as per following break-up will be released to your university advance.

- a) Overhead charges Rs. 30,000/- (@Rs.5,000/- per month for 6 months)
- b) A one-time grant of maximum INR 30,000 for research contingencies and domestic travel for airport transfers and visiting research institutions, attending scientific events and field-trips within India
- c) The expenditure on domestic travel will be disbursed to the Fellow on actual basis.

c) A consolidated Fellowship amount of Rs.2,10,000/- (@INR 35,000 per month for 6 months (one-usable) for accommodation, meals and other miscellaneous expenses of the Fellow - to be disbursed to the scholar on a monthly basis.

For this purpose, you are requested to send us the bank particulars (i.e. i) name of the account holder, ii) account number, iii) name of the bank and branch name and address, and iv) IFSC Code) of your University to which the amount can be transferred.

Your organization will return to [REDACTED] enter the unspent balance with your institute, if any, including that arising out from early departure of the fellow due to any unforeseen reasons, along with a Statement of Expenditure and Utilisation Certificate after the completion of the Fellowship period.

4. You are also requested to ensure that the foreign scientist affiliated with you under KIT-DCS scheme gets herself registered with the nearest Foreign Regional Registration Office (FRRO) as the same is mandatory for the foreigners as per the requirements of the Government of India. We will appreciate it to securing a copy each of the Indian visa as well as the FRRO endorsement certificate in respect of the foreign scientist after completion of all formalities, for our records.

With kind regards,

Yours Sincerely,

M. Shandyaquliyev

Off. M. Shandyaquliyev

Senior Export & Administration Officer

Centre for Science & Technology of Non-Aligned and Other Developing Countries

(NAN S&T Cell)

*Mandika Kumar*

(Page 20)

S. No.	Department	Faculty	Collaborator Name	Affiliation	National/ Interna
1	Biomedical Science	Prof. Urmi Bajpai	Luigi A Agrofoglio	Institute of Organic and Anal	International
2	Biomedical Science	Prof. Urmi Bajpai	Vincent Roy	Institute of Organic and Anal	International
3	Biomedical Science	Prof. Urmi Bajpai	Belinda Loh	Department of Infectious Dis	International
4	Biomedical Science	Prof. Urmi Bajpai	Sebastian Leptihn	Department of Infectious Dis	International
5	Biomedical Science	Prof. Urmi Bajpai	Prof Steffanie Strath	School of Medicine, Universi	International
6	Biomedical Science	Prof. Urmi Bajpai	Dr Robert Schooley	School of Medicine, Universi	International
7	Biomedical Science	Dr Rimpay Kaur Chowhan	Dr. Aron Fisher, Prof	Institute for Environmental N	International
8	Chemistry	Prof. Pankaj Khanna	Dr. Shiva Panda	Augusta University, USA	International
9	Chemistry	Dr. Vikrant Kumar Attri	Prof. Tansir Ahamad	Department of Chemistry, Ki	International
10	Physics	Prof. Arijit Chowdhuri and	Professor Milena Ho	Department of Environment	International
11	Physics	Prof. Arijit Chowdhuri and	Dr. David Kocman, P	Department of Informatics, J	International
12	Physics	Prof. Arijit Chowdhuri and	Dr. David Kocman, P	Department of Informatics, J	International
13	Physics	Prof. Arijit Chowdhuri and	Dr. Janja Vaupotič, F	Jožef Stefan Institute, Jamov	International
14	Physics	Prof. Arijit Chowdhuri and	Dr. Janja Snoj Tratni	Department of Environment	International
15	Physics	Prof. Arijit Chowdhuri and	Prof. Dr. Milena Jov	Department of Radiation and	International
16	Physics	Prof. Arijit Chowdhuri and	Dr. Miloš Davidović,	Department of Radiation and	International
17	Physics	Prof. Arijit Chowdhuri and	Dr. Alena Bartonova	NILU Norwegian Institute for	International
18	Physics	Prof. Arijit Chowdhuri and	Dr. Alena Bartonova	NILU Norwegian Institute for	International
19	Physics	Prof. Arijit Chowdhuri and	Dr. Sotiris Vardoulak	Institute of Occupational Me	International
20	Physics	Dr. Dinesh Kumar Verma	Prof. Joaquín Escalo	Centro de Investigación en C	International
21	Physics	Dr. Dinesh Kumar Verma	Prof. Federico Vázqu	Centro de Investigación en C	International
22	Zoology	Dr Sarita Kumar	Arya Uthaman, Edit	Laboratory for FRP Composi	International
23	Zoology	Dr Sarita Kumar	Dr. Li Tianduo, Profe	School of Chemistry and Pha	International
24	Zoology	Dr Sarita Kumar	Paula Gavran, Autho	IntechOpen - Open Science C	International
25	Zoology	Dr Seema Makhija	Dr Alan Warren, Scie	Life Sciences Division, Natura	International
26	Biomedical Science	Dr Satendra Singh, Dr Suni	Dr Shruti Banswal, A	Shaheed Rajguru College of A	National
27	Biomedical Science	Dr Satendra Singh, Dr Suni	Manisha Khatri, Assi	Shaheed Rajguru College of A	National
28	Biomedical Science	Dr Rimpay Kaur Chowhan	Md Hamidur Raham	Dept. of Biotechnology, Mar	National
29	Biomedical Science	Dr Rimpay Kaur Chowhan	Prof. L. R. Singh	Dr B. R. Ambedkar Center fo	National
30	Biomedical Science	Dr Rimpay Kaur Chowhan	Dr Saquib Ansari, As	Shaheed Rajguru College of A	National
31	Biomedical Science	Dr Rimpay Kaur Chowhan	Prof. Rajiv Narang, P	Department of Cardiology, A	National
32	Chemistry	Prof. Pankaj Khanna	Prof. Prashant Singh	Atma Ram Sanatan Dharma	National
33	Chemistry	Prof. Pankaj Khanna	Prof. Leena Khanna	GGSSIP University, Delhi	National
34	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
35	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
36	Chemistry	Prof. Pooja Bhagat	Parul Bhalla	Department of Chemistry, G	National
37	Chemistry	Dr. Kavita Mittal	Prof. Sharda Pasrich	Department of Chemistry, Sr	National
38	Chemistry	Dr. Kavita Mittal	Prof. Sharda Pasrich	Department of Chemistry, Sr	National
39	Chemistry	Dr. Kavita Mittal	Dr. Pragya Gahlot	Department of Chemistry, Sr	National
40	Physics	Prof. Arijit Chowdhuri	Dr. Savita Sharma, A	Kalindi College, University of	National
41	Physics	Prof. Arijit Chowdhuri	Professor Monika T	Miranda House, University o	National
42	Physics	Prof. Arijit Chowdhuri	Professor Avinashi K	Department of Electronic Sci	National
43	Physics	Prof. Arijit Chowdhuri	Dr. Amit Jain, Associ	Rajdhani College, University	National
44	Physics	Prof. Arijit Chowdhuri	Professor Avinashi K	Department of Electronic Sci	National
45	Physics	Prof. Arijit Chowdhuri	Dr. Amit Jain, Associ	Rajdhani College, University	National
46	Physics	Prof. Rachna Joshi	Dr. Nupur Verma (A	DDU College, University of D	National
47	Physics	Prof. Rachna Joshi	Dr. Seema Dabas (A	Shyamilal College, University	National
48	Physics	Prof. Rachna Joshi	Prof. Man Mohan (P	Department of Physics and A	National
49	Physics	Prof. Rachna Joshi	Dr. Pranav Kumar (A	Kirorimal College, University	National
50	Physics	Prof. Rachna Joshi	Dr. Arun Goyal (Assi	Shyamilal College, University	National



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**Mur ligase inhibitors - collaboration**

---

**Luigi Agrofoglio** <luigi.agrofoglio@univ-orleans.fr>

Fri, 22 Dec 2017 at 16:02

To: &lt;urmibajpai@andc.du.ac.in&gt;

Cc: Vincent Roy &lt;vincent.roy@univ-orleans.fr&gt;

Dear Professor Bajpai,

We have read with great interest your recent papers published in Scientific Reports (2016) and Biochim. Biophys. Acta (2017), respectively, dealing with Mur ligases. Our team (<http://www.icoa.fr/en/agrofoglio>) has an on-going research project to synthesize new nucleoside analogs targueting the inhibition of several Mur ligases. This project is headed by Associate Professor Dr Vincent Roy, from my group.

We would like to know if we could set-up an academic collaboration (join papers, exchange student mobility) with your group in order to evaluate our compounds on the "one-pot assay screening" you have developed and published? If possible, would you be able ta assay a bench of 30 compounds on a 1 year period?

Waiting to discuss with you,

Let me wish you a Great Season Holidays.

Best regards

--

**Professor Luigi A. AGROFOGLIO**

Adjunct VP International Office - Université d'Orléans

<https://www.univ-orleans.fr/international>

Group leader « Heterocycles, Nucleosides, Imaging Tools »

Institut de Chimie Organique et Analytique, CNRS UMR 7311

Université d'Orléans - 45067 ORLEANS cedex 2

<http://www.icoa.fr/fr/agrofoglio>

Cell.: ++(33)-(0)6-3770-9854

Tel. : ++(33)-(0)2-3849-4582

[luigi.agrofoglio@univ-orleans.fr](mailto:luigi.agrofoglio@univ-orleans.fr)

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**Review final draft**

---

**Sebastian Leptıhn** <leptıhn@intl.zju.edu.cn>  
To: Urmı Bajpai <urmıbajpai@andc.du.ac.in>  
Cc: Loh, Wei-Ching Belinda <belinda.loh@intl.zju.edu.cn>

Fri, 21 May 2021 at 17:16

Dear Urmı,

The final draft looks wonderful! No more comments or changes from our side.

Please add the following affiliation for both of us: Department of Infectious Diseases, Sir Run Run Shaw Hospital, Zhejiang University School of Medicine, Hangzhou, PR China

Good luck with the submission!  
Best wishes,  
Sebastian

---

Prof. Dr. rer. nat. habil. Sebastian Leptıhn  
Zhejiang University-Edinburgh University Institute  
Zhejiang University, International Campus  
Associate Professor

Sir Run Run Shaw Hospital  
Mayo Clinic Care Network  
Department of Infectious Diseases  
Adjunct Professor

Edinburgh University  
School of Medicine  
Honorary Lecturer

---

Zhejiang University, International Campus  
718 East Haizhou Rd., Haining, 314400, P.R. China  
Mobile: +86 158 6834 7357  
Email: [leptıhn@intl.zju.edu.cn](mailto:leptıhn@intl.zju.edu.cn)  
Web: [Leptıhn-Lab.org](http://Leptıhn-Lab.org)

---

Important: This email is confidential and may be privileged. If you are not the intended recipient, please delete it and notify me immediately; you should not copy or use it for any purpose, nor disclose its contents to any other person. Thank you.

[Quoted text hidden]

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<Cover letter\_Antibiotics.docx><COVID\_Review\_Final\_MDPI\_Format.docx>

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## GloCal Health Fellowship Application Status

---

**Bale, Kimberly** <Kimberly.Bale@ucsf.edu>

Sat, Feb 2, 2019 at 3:27 AM

To: Divya Sachdev <divya2810@gmail.com>

Cc: "Strathdee, Steffanie (sstrathdee@ucsd.edu)" <sstrathdee@ucsd.edu>, Vivek Mutalik <vkmutalik@lbl.gov>, Rashmi Rodrigues <rashmijr@gmail.com>, Urmi Bajpai <urmibajpai@andc.du.ac.in>

Dear Divya,

Your application and interview for the GloCal Health Fellowship were reviewed favorably by our Leadership Group and Steering Committee. However, due to our very large number of strong candidates this year and limited fellowship positions available, we are unable to offer you a position as a GloCal Health Fellow at this time. Nevertheless, you have been placed on our waitlist.

The GloCal Health Fellowship is seeking out additional funding for fellows. We may be able offer you a Fellowship if more funding becomes available or if a spot opens up.

We appreciate the thought and care that you put into your application and interview, and are grateful for your interest in global health. As we continue to seek out additional funding, we would appreciate it if you would notify us if you decide to pursue another opportunity and/or are no longer available for the 2019-2020 fellowship year.

Please let me know if you have any questions.

Best regards,

Kimberly Bale

Kimberly Bale, MPH

Assistant Director, GloCal Health Fellowship

Program Manager, University of California San Francisco

550 16th Street, 3rd Floor

San Francisco, California 94158

Tel: +1 415 476 5849

E-mail: Kimberly.Bale@ucsf.edu



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## GloCal Fellows program

---

**Strathdee, Steffanie** <sstrathdee@ucsd.edu>

Thu, 13 Sep 2018 at 01:53

To: Urmi Bajpai <urmibajpai@andc.du.ac.in>

Cc: Schooley, Robert <rschooley@ucsd.edu>

Dear Urmi, I am one of the PIs of a Fogarty-funded fellowship that grants support to senior PhD students and postdocs from the UC system as well as international postdocs to conduct global health research in any of 20 LMIC. India is one such country. For example, if any of your contacts are postdocs in India who would like to do phage research in Delhi, they could work with you as a mentor and Chip or I as a collaborator. Here is the link for details. deadline is Nov 15 for a July 1 start date: <http://ucghi.universityofcalifornia.edu/fellowships/glocal-health-fellowship>

Steffanie Strathdee, PhD

Associate Dean of Global Health Sciences,

Harold Simon Professor, UCSD Department of Medicine

Co-Director, Center for Innovative Phage Applications and Therapeutics (IPATH)

Author, The Perfect Predator: <https://goo.gl/owPz4h>

Tel: 858-822-1952

Assistant: Julie Lukehart: 858-246-2622 [jlukehart@ucsd.edu](mailto:jlukehart@ucsd.edu)

Twitter: [@chngin\\_the\\_world](https://twitter.com/chngin_the_world)

TEDx: <https://www.youtube.com/watch?v=AbAZU8FqzX4&feature=youtu.be>

IPATH: [ipath.ucsd.edu](http://ipath.ucsd.edu)

## Call-for-Reading: [Antioxidants] Special Issue "Peroxiredoxin 6 as a Unique Member of the Peroxiredoxin Family"

---

From: Antioxidants Editorial Office (antioxidants@mdpi.com)

To: rimp\_1989@yahoo.co.in

Date: Monday, 20 January, 2020 at 12:03 pm IST

---

Dear Dr. Chowhan,

Thank you again for your contribution to the following Special Issue, which has been published in our open access journal Antioxidants (ISSN 2076-3921).

"Peroxiredoxin 6 as a Unique Member of the Peroxiredoxin Family"

Guest Editor(s): Aron B. Fisher.

[https://www.mdpi.com/journal/antioxidants/special\\_issues/Peroxiredoxin](https://www.mdpi.com/journal/antioxidants/special_issues/Peroxiredoxin)

All articles can be accessed freely online. For your convenience, we attach below a consolidated table of contents. If you think it appropriate, we invite you to share this message further with your peers.

Arevalo, J.A.; Vázquez-Medina, J.P. The Role of Peroxiredoxin 6 in Cell Signaling. *Antioxidants* 2018, 7(12), 172;

<https://doi.org/10.3390/antiox7120172>.

Views: 1139, Downloads: 964, Citations: 3, Altmetrics: 1

<https://www.mdpi.com/2076-3921/7/12/172>

O'Flaherty, C. Peroxiredoxin 6: The Protector of Male Fertility.

*Antioxidants* 2018, 7(12), 173;

<https://doi.org/10.3390/antiox7120173>.

Views: 1012, Downloads: 668, Citations: 5, Altmetrics: 2

<https://www.mdpi.com/2076-3921/7/12/173>

Lovatt, M.; Adnan, K.; Peh, G.S.L.; Mehta, J.S. Regulation of Oxidative Stress in Corneal Endothelial Cells by Prdx6. *Antioxidants* 2018, 7(12), 180;

<https://doi.org/10.3390/antiox7120180>.

Views: 911, Downloads: 698, Citations: 2, Altmetrics: 3

<https://www.mdpi.com/2076-3921/7/12/180>

Fisher, A.B.; Dodia, C.; Feinstein, S.I. Identification of Small Peptides

that Inhibit NADPH Oxidase (Nox2) Activation. *Antioxidants* 2018, 7(12), 181;

<https://doi.org/10.3390/antiox7120181>.

Views: 785, Downloads: 721, Citations: 3, Altmetrics: 0

<https://www.mdpi.com/2076-3921/7/12/181>

Zhou, S.; Dodia, C.; Feinstein, S.I.; Harper, S.; Forman, H.J.; Speicher, D.W.; Fisher, A.B. Oxidation of Peroxiredoxin 6 in the Presence of GSH Increases its Phospholipase A<sub>2</sub> Activity at Cytoplasmic pH. *Antioxidants* 2019, 8(1), 4;

<https://doi.org/10.3390/antiox8010004>.

Views: 937, Downloads: 614, Citations: 3, Altmetrics: 1

<https://www.mdpi.com/2076-3921/8/1/4>

Sharapov, M.G.; Novoselov, V.I.; Gudkov, S.V. Radioprotective Role of Peroxiredoxin 6. *Antioxidants* 2019, 8(1), 15;

<https://doi.org/10.3390/antiox8010015>.

Views: 1153, Downloads: 1003, Citations: 4, Altmetrics: 1

<https://www.mdpi.com/2076-3921/8/1/15>

Shahnaj, S.; Chowhan, R.K.; Meetei, P.A.; Kakchingtabam, P.; Herojit Singh, K.; Rajendrakumar Singh, L.; Nongdam, P.; Fisher, A.B.; Rahaman, H. Hyperoxidation of Peroxiredoxin 6 Induces Alteration from Dimeric to Oligomeric State. *Antioxidants* 2019, 8(2), 33; <https://doi.org/10.3390/antiox8020033>. Views: 944, Downloads: 782, Citations: 4, Altmetrics: 0 <https://www.mdpi.com/2076-3921/8/2/33>

Bannitz-Fernandes, R.; Aleixo-Silva, R.; Silva, J.P.; Dodia, C.; Vazquez-Medina, J.P.; Tao, J.-Q.; Fisher, A.; Netto, L. Non-Mammalian Prdx6 Enzymes (Proteins with 1-Cys Prdx Mechanism) Display PLA<sub>2</sub> Activity Similar to the Human Orthologue. *Antioxidants* 2019, 8(3), 52; <https://doi.org/10.3390/antiox8030052>. Views: 959, Downloads: 610, Citations: 1, Altmetrics: 3 <https://www.mdpi.com/2076-3921/8/3/52>

Patel, P.; Chatterjee, S. Peroxiredoxin6 in Endothelial Signaling. *Antioxidants* 2019, 8(3), 63; <https://doi.org/10.3390/antiox8030063>. Views: 732, Downloads: 552, Citations: 2, Altmetrics: 2 <https://www.mdpi.com/2076-3921/8/3/63>

Feinstein, S.I. Mouse Models of Genetically Altered Peroxiredoxin 6. *Antioxidants* 2019, 8(4), 77; <https://doi.org/10.3390/antiox8040077>. Views: 521, Downloads: 454, Citations: 1, Altmetrics: 0 <https://www.mdpi.com/2076-3921/8/4/77>

Fisher, A.B. Antioxidants Special Issue: Peroxiredoxin 6 as a Unique Member of the Peroxiredoxin Family. *Antioxidants* 2019, 8(4), 107; <https://doi.org/10.3390/antiox8040107>. Views: 526, Downloads: 473, Citations: 0, Altmetrics: 1 <https://www.mdpi.com/2076-3921/8/4/107>

We look forward to collaborating with you in the future.

Best regards,  
Edith Fang  
SI Managing Editor

Antioxidants (ISSN 2076-3921) is a journal published by MDPI AG, Basel, Switzerland

---  
Antioxidants Editorial Office  
MDPI  
St. Alban-Anlage 66, 4052 Basel  
Switzerland  
E-mail: [antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)  
<https://www.mdpi.com/journal/antioxidants>

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Pankaj Khanna <kpankaj6@gmail.com>

---

## Proof of Heliyon paper

---

Siva <sspanda12@gmail.com>

Sat, Nov 24, 2018 at 7:52 PM

To: Pankaj Khanna <kpankaj6@gmail.com>, leena rohatgi <leena\_rohatgi@yahoo.co.in>

Dear Pankaj Sir and Leena Mam,

Please find the proof of our natural paper. Please review the proof and let me know if you find any errors as soon as possible.

Thank you  
Siva

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 **pagination\_HLY\_951.pdf**  
1565K

20-11-2022

Vikrant Kumar, Ph. D.  
Associate Professor  
Department of Chemistry  
Acharya Narendra Dev College  
(University of Delhi)  
New Delhi - 110019  
INDIA

Dear Sir,

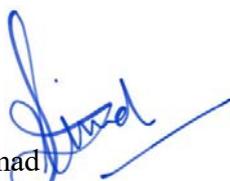
I would like to express my willingness to serve as a collaborator on your research project entitled fabrication of novel metal complexes and their biological application. In particular, for the fabrication of the ligands and organic molecules and its characterization using NMR instrument. I will be able to contribute my expertise to this work, subject to availability of time and resources. This research collaboration will be a mutual cooperation in education and research work and no funds from the grant will be used in intramural research, neither will I accept any form of remuneration, whether in the form of salary, honoraria, or travel expenses. I will provide scientific input (and mentoring) but will not have any duties associated with programmatic stewardship.

We will encourage the following activities to promote international academic and research cooperation:

- Exchange of materials in education and research, publications, and academic information;
- Joint research and meetings for education and research;
- Technical assistance.

I look forward to working with you on this collaboration.

Sincerely yours,



Prof. Tansir Ahamad  
Department of Chemistry  
King Saud University  
Riyadh, Saudi Arabia  
Email: [tahamed@ksu.edu.sa](mailto:tahamed@ksu.edu.sa)  
Mobile: 00966567934635  
Office: 00966114674783



Dr. Jagdish Chander  
Scientist – G/Adviser  
TEL: 00-91-11-26967357/26590613/26590432  
FAX: 00-91-11-26862418  
E-mail: [jchander@nic.in](mailto:jchander@nic.in)

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग  
नई दिल्ली-110 016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
NEW DELHI-110 016

D.O. No.

INT/Slovenia/P-09/2014

Dated ..... November 24 2014

Dear Dr. Chowdhuri,

I am pleased to inform you that your project entitled **Exposure-response assessment of Ambient Air Pollution (AAP) AND Hg contamination in affected cities of India and Slovenia: A comparative study**, has been recommended for support with one short visit of upto a maximum of 10 days and a long visit of upto 30 days duration each year in each direction. The sending party shall cover all related costs connected with 'International travel to the state of the receiving party and back including lodging and boarding for person sent in pursuant of this project.

In order to issue formal sanction of the project, we request you to kindly send us the administrative and security/sensitivity clearance from your parent organization (Ministry/Department). In case of Universities/Academic organization, the PIs should organise such clearance from concerned authority in their university/institute. We would also require information in the attached checklist and budget estimates in a separate sheet. Budget details (with proper justification) may be furnished keeping in view the following provisions:

- I) Airfare from place of work in India to place of visit in Slovenia by lowest economy class (indicate sector)
- II) Medical Insurance & Visa Charges
- III) Perdiem @US \$50 per day for short term (up to 7 days) and US \$ 40 per day for long term visit (more than 7 days)
- IV) Accommodation in hotel (upto US \$ 100 per night)
- V) Local transport in Slovenia (upto US \$ 25 per day) as per actuals.

Since the project is only visit based, no grant under equipment, consumables, manpower etc. would be sanctioned. This should be kept in mind while filling details under serial no.4 in the checklist. Kindly acknowledge the receipt of this letter. An early reply would be highly appreciated.

With kind regards,

Yours sincerely,

(Jagdish Chander)

*Endo. as above*

Dr. Arijit Chowdhuri,  
Acharya Narendra Dev College (University of Delhi),  
Kalkaji- 110 019, New Delhi, India

Dated 21.05.2015

**ORDER**

Sanction of the President is hereby accorded for incurring an expenditure not exceeding **Rs. 16,11,375/- (Rupees sixteen lakh eleven thousand three hundred seventy five only)** in connection with the implementation of Indo-Slovenia Joint research project entitled **“Exposure-response assessment of Ambient Air Pollution . . . . . of India and Slovenia: A comparative study”**, under the Indo-Slovenia programme of Cooperation to be implemented by Indian P.I. **Dr. Arijit Chowdhuri**, Aast. Professor, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-19, in collaboration with Slovenian counterpart Dr. Milena Horvat, Head & Professor, Department of Environmental Science, Jozef Stefan Institute, Slovenia, for a total duration of three years from the date of receipt of initial grant. The break-up of approved expenditure is as indicated below and no reappropriation (from one budget head to the other) shall be allowed under this project.

Sl.No.	Budget Head	1 <sup>st</sup> yr	2 <sup>nd</sup> yr	3 <sup>rd</sup> Year	total
1.	Number of visits (2 every year, one of 10 days by PI and one of up to 15 days by Student/Young researcher )	2 visits (25 days)	2 visits (25 days)	2 visits (25 days)	6 visits (75 days)
2.	Air Fare Int'l' air travel (shortest route) by lowest Economy class (to & fro) for visit of Indian participants to Slovenia including Domestic travel in India, Silver class medical insurance and visa fee @ Rs. 1,27,000/- per visit (Rs. 1,20,000 +2,000 +5000)	2,54,000	2,54,000	2,54,000	7,62,000
3.	Accommodation charges for stay in Slovenia @ US\$ 100/- per day @ Rs. 65 per day	1,62,500	1,62,500	1,62,500	4,87,500
4.	Living allowance (per diem) @ US\$ 50 for short term visit (7 days* USD 50 ) and US\$ 40 per day for long term visits (15 days * USD 40) @ Rs. 65 per day	65,000	65,000	65,000	1,95,000
5.	Consumables and Contingencies	15,000	15,000	15,000	45,000
6.	Local Travel in Slovenia @ US\$ 25 per day restricted to actual and on production of bills @ Rs. 65 per day	40,625	40,625	40,625	1,21,875
7	Total :- (2+3+4+5+6)	5,37,125	5,37,125	5,37,125	16,11,375

2. Sanction of the President is also accorded for release of initial grant of **Rs. 5,37,125 /- (Rupees five lakh thirty seven thousand one hundred twenty five only)** and the payment of this amount may be made to DDO, DST by means of electronic transfer(E-transfer) for the account of **Principal, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-19**

-Name/Designation of account holder : **Acharya Narendra Dev College, Govindpuri, Kalkaji, N. Delhi- 110019.**  
 -Bank Account No. : **0156000100547016**  
 -Name of Bank & Address : **Punjab National Bank, 36, Krishna Market, Kalkaji, N. Delhi- 19.**  
 -IFSC Code : **PUNB0015600**

(This sanction order being 1<sup>st</sup> installment for implementation of this project, no UC/ SE is due from the grantee institute against this project at this stage)



Contd. . . P/2

3. As per financial terms agreed by both sides, the sending side will bear the entire International travel cost of the Scientist visiting under the project.

4. **All project related Visits to be undertaken by the scientists from either side in connection with the implementation of the project shall require prior approval from this Department separately on a case to case basis before any expenditure is incurred in this regard.**

5. As per MOF instructions dated 13.07.2009 all cases of air travel both domestic and international, the officials may travel only by Air India. For travel to stations not connected by Air India the officials may travel by Air India to the Hub/Point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferably be an alliance partner of Air India.

6. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificate. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

7. This sanction is subject to submission of Utilization Certificate (UC) and audited statement of the expenditure(SE) along with up to date progress report at the end of each financial year for the grants already received under the project and seeking specific approval of this Department for carry forward of unspent funds to the next financial year for utilization of project and list of exchange visits of scientists under the project. **The entry of Utilization Certificate and Statement of Expenditure to be done in PFMS. The next installment will be released only after confirmation of the entry of Utilization Certificate in the PFMS.** (Website: www.pfms.nic.in).

8. The accounts of the grantee institution shall be open to inspection by the sanctioning authority/audit whenever the institution is called upon to do so, as laid down in Rule 211 (1) of General Financial Rules.

9. The expenditure involved shall be met out of the budget head under Demand No.86-Department of Science and Technology -3425-Other Scientific Research (Major Head) 60.798 International Cooperation (Minor Head) -12-S&T Cooperation with Other Countries-12.00.31-Grants-in-aid (Plan) during the year 2015-16.

10. This issues under the delegated powers to the Ministries/Departments and with the concurrence of IFD vide Dy. No. C/622 /IFD//2015-16 dated 24 .04.2015.

11. This Sanction Order has been entered in Grant in aid Register (2015-16) at Sl. No. 139



(K.K. Jha)

Under Secretary to the Govt. of India

To,

The Pay & Accounts Officer,  
Dept. of Science and Technology, New Delhi

Copy to:-

1. Office of the Principal Director & Audit IIIrd Floor, AGCR Bldg., IP Estate, New Delhi
2. Cash Section, DST (3 copies)
3. IFD/Accounts Section, DST
4. Principal, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019.
5. Dr. Arijit Chowdhuri, Astd. Professor, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019.
6. Sanction folder.



(K.K. Jha)

Under Secretary to the Govt. of India



Telegram : Sciencetech  
 दूरभाष/Tel : 26962819, 26567373,  
 26562134, 26562122 (EPBAX)  
 फ़ैक्स/Fax : 26569908, 26864570,  
 26863847, 26862418  
 वेबसाइट/website : www.dst.gov.in

भारत सरकार  
 विज्ञान और प्रौद्योगिकी मंत्रालय,  
 विज्ञान और प्रौद्योगिकी विभाग,  
 टेक्नोलॉजी भवन, नया महरौली मार्ग,  
 नई दिल्ली-110 016

GOVERNMENT OF INDIA  
 MINISTRY OF SCIENCE AND TECHNOLOGY,  
 DEPARTMENT OF SCIENCE AND TECHNOLOGY,  
 TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD,  
 NEW DELHI-110 016

No. DST/INT/Slovenia/P-09/2014

Dated: 19.12.2016

**ORDER**

In continuation this Department's order of even number dated 21.05.2015, approval of competent authority is hereby conveyed for carry forward unspent balance of **Rs. 91, 845/- (Rupees ninety-one thousand eight hundred forty-five only)** from financial year 2015-16 to 2016-17 for utilization by Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019 in connection with the implementation of Indo-Slovenia joint research project entitled "**Explosure-Response Assessment of Ambient Air Pollution ..... Of India and Slovenia: A Comparative Study**" coordinated by **Dr. Arijit Chowdhuri**, Assistant Professor, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.

2. Sanction of the President is also accorded for release of 2<sup>nd</sup> instalment grant of **Rs. 4, 45, 280/- (Rupees four lakh forty-five thousand two hundred eighty only)** and the payment of this amount may be made to DDO, DST, for electronic transfer to the following account of **Principal**, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019 as per bank details are given below: -

1.	Name & Designation of the A/c holder	<b>Principal</b> , Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019
2.	Bank Account Number	<b>0156000100547016</b> (Saving A/c)
3.	Name of Bank and Branch address	Punjab National Bank, 36, Krishna Market, Kalkaji, New Delhi-110019.
4.	IFSC Code No.	<b>PUNB 001 5600</b>
5.	MICR Code No.	110024052
6.	E-mail (Agency/PI)	<a href="mailto:arijitchowdhuri@andc.du.ac.in">arijitchowdhuri@andc.du.ac.in</a>

3. The requisite utilization certificate (UC) and statement of expenditure (SE) for financial year 2015-16 furnished by the grantee institution duly accepted by this Department are enclosed. There is no pending any SE/UC from the Grantee Institution/Principal Investigator. **Unique ID No. of PFMS portal is 18165455.**

4. The institute will maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The interest earned should be reported to DST while submitting the Statement of Expenditure/Utilization Certificated. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

Contd...p...2/-

5. As per MOF instructions, in all cases of Air Travel, both domestic and international, where the Government of India bears the cost of air passage, the officials concerned may travel only by Air India. For travel to stations not connected by Air India, the official may travel by Air India to the hub/point closest to their eventual destination, beyond which they may utilize the services of another airline which should also preferably be an alliance partner of Air India.

6. **As per latest instructions of Ministry of Finance (Department of Expenditure), Agencies will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The next instalment will be released only after confirmation of the entry of Utilization Certificate in the PFMS.**

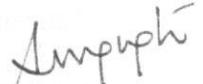
7. As per rule 211(i) of GFR, the accounts of projects shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. **Due acknowledgement of support receive from DST should mandatorily be made in publications resulting from this programme during the project duration and even after completion of project duration.**

9. The expenditure involved is to be met out of the budget head Demand No. 77- Department of Science and Technology Major Head 3425-Other Scientific Research 60.798 International Cooperation 12-S&T Cooperation with Other Countries 12.00.31-Grants-in-aid general(Plan) for the current financial year 2016-17.

10. This issues under the delegated powers to the Ministries/Departments with the financial concurrence of IFD vide Dy. No. **C/4606/IFD 2016-17** dated 05.12.2016.

11. This Sanction Order has been entered at Sl. No. <sup>329</sup> in Grant -in-aid Register (2016-17).

  
(Pulok Sen Gupta)  
Under Secretary to the Govt. of India

To

The Pay & Accounts Officer  
Dept. of Science & Technology, New Delhi.

Copy to: -

1. Office of the Principal Director & Audit, Illrd Floor, AGCR Bldg., IP Estate, N. Delhi-2
2. Cash Section, DST (3 copies)
3. IFD/Accounts Section, DST
4. **Dr. Arijit Chowdhuri**, Assistant Professor, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.
5. **The Principal**, Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi-110019.
6. Sanction folder.
7. Concerned project file.

  
(Pulok Sen Gupta)  
Under Secretary to the Govt. of India



**Dr. Jagdish Chander**  
Scientist – G/Adviser  
TEL: 00-91-11-26967357  
FAX: 00-91-11--26862418  
E-MAIL: jchander@nic.in

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग  
नई दिल्ली-110 016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
NEW DELHI-110 016

D.O. No. INT/Slovenia/P-09/2014

Dated ..... November 20, 2015

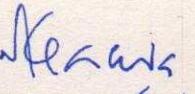
Dear Dr. Chowdhuri,

Kindly refer to your email/letter/fax message of October 30, 2015, seeking permission for a 7-day visit of Dr. David Kocman, Research Associate, Department of Environmental Sciences, Jozef Stefan Institute, Jamova 39, SI-1000 Ljubljana, Slovenia to Acharya Narendra Dev College, Kalkaji, New Delhi under the Indo-Slovenian joint research project entitled "**Exposure-response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia: Acomparative study**", beginning 22.11.2015.

Your request has since been examined and in this connection, I am happy to convey approval of the Department of Science and Technology (DST), Government of India, to the above 7-day visit of ~~of~~ Dr. David Kocman, Research Associate, Department of Environmental Sciences, Jozef Stefan Institute, Jamova 39, SI-1000 Ljubljana, Slovenia to Acharya Narendra Dev College, Kalkaji, New Delhi, starting 22.11.2015. You are requested to extend the visiting scientist(s) necessary local hospitality etc. as per DST sanction order of even number dated 21.05.2015.

With kind regards,

Yours sincerely,

  
(Jagdish Chander)

**Dr. Arijit Chowdhuri,**  
Assistant Professor, D/o Physics  
Acharya Narendra Dev College (University of Delhi)  
Kalkaji, Govindpuri, New Delhi-110019

E-mail: arijitchowdhuri@andc.du.ac.in



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**Slo-Indo proposal signed by Indian Pls**

10 messages

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Wed, Jun 3, 2020 at 6:46 PM

To: David Kocman &lt;david.kocman@ijs.si&gt;, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear David,

Please find attached Slo-Indo proposal with names and duly signed by Indian Pls

best regards,

Arijit

---

 **Signed-Slo-Indo-Citisense project proposal DK.docx**  
232K**Dr. Charu KhoslaGupta** <charukhoslagupta@andc.du.ac.in>

Wed, Jun 3, 2020 at 6:58 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Thank you Arijit!

[Quoted text hidden]

--

Dr. Charu Khosla Gupta  
Associate Professor in Botany  
Acharya Narendra Dev College  
University of Delhi  
Kalkaji, New Delhi-110019  
Tel: 91-9871668885**David Kocman** <david.kocman@ijs.si>

Thu, Jun 4, 2020 at 1:11 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

I am waiting for our director to sign and expect to get the sacred version by tomorrow.

For my part, I will need a CV of Arijit (in whatever form, as I can add it as PDF attached), plus names of the two student you mention in the proposal along with their emails.

Will keep you posted on the progress.

Best,

David

[Quoted text hidden]

--

David Kocman, PhD  
Department of Environmental Sciences  
Jožef Stefan Institute  
Jamova 39  
1000 Ljubljana  
Slovenia  
Phone: +386 1 5885 218**David Kocman** <david.kocman@ijs.si>

Fri, Jun 5, 2020 at 5:16 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Hi Arijit,

A gentle reminder :)

Can I use this CV of yours? <http://emdl.physics.du.ac.in/EMDL%20members/CVdocs/Dr.%20Arijit%20Chowdhuri%20CV.pdf>

Also - is it OK to include this link to indicate our previous collaboration (as you were not here officially): <http://www.environment.si/en/news/cities-health-at-spodnja-siska-elementary/>

Best,

David

[Quoted text hidden]

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Fri, Jun 5, 2020 at 5:40 PM

Dear David,

Greetings!

Apologies for being late as had to figure out the names of the students.

Please find attached the following

1. Both of our CVs
2. Name of student 1 - Mr. Ajay Kumar Sao, Name of student 2 - Mr. Jatinder Pal Singh
3. Also its ok to use the link to indicate our previous collaboration (doesn't matter if I was there officially or not), Charu was there as SAZU-INSAs  
<http://www.environment.si/en/news/cities-health-at-spodnja-siska-elementary/>  
Please do NOT mention that I was a SAZU-INSAs Fellow that's all. I can be a visitor from previous Slo-Indo bilateral

thanks and regards,

Arijit

[Quoted text hidden]

## 2 attachments

 **CV Charu February 2020.doc**  
102K

 **CV-Arijit-Latest.doc**  
258K

**David Kocman** <david.kocman@ijs.si>  
To: "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>

Sun, Jun 7, 2020 at 6:39 PM

Two more things:

1. I only need your CV, but it has to be much shorter version - again 6000 characters including spaces is the limit. Please edit, as you will know more what to emphasise and what is more relevant.
2. I will also need emails of both students to be included (point 2. below)

Tnx.

David

[Quoted text hidden]

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 6:42 PM

Dear David,

Great to hear from you.

Sending you the required details later tonight as I am out of home now.

Also I have a request and which is I need mobile numbers of both Janja Co-Pls

thanks and regards,

Arijit

[Quoted text hidden]

---

**David Kocman** <david.kocman@ijs.si>  
To: "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>

Sun, Jun 7, 2020 at 10:08 PM

Janja Tratnik Snoj, (+38631344232)  
Janja Vaupotič, (+38641738517)

Sent from [Outlook Mobile](#)

[Quoted text hidden]

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 10:10 PM

Thanks a tonne dear David

[Quoted text hidden]

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: David Kocman <david.kocman@ijs.si>

Sun, Jun 7, 2020 at 10:53 PM

Dear David,

Greetings!

As desired please find attached my CV of 5900 characters

Email of Mr. Ajay Kumar Sao - [aj.sao000@gmail.com](mailto:aj.sao000@gmail.com)

Email of Mr. Jatinder Pal Singh - [jatinder2406@gmail.com](mailto:jatinder2406@gmail.com)

cheers

Arijit

[Quoted text hidden]



**CV-Arijit-Indo-Slovenia-2nd.doc**

78K



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**Serbia - India bilateral proposal signed by Indian side**

3 messages

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Wed, Jul 29, 2020 at 6:27 PM

To: Milos Davidovic &lt;davidovic@vin.bg.ac.rs&gt;, Milena Jovasevic-Stojanovic &lt;mjovst@vin.bg.ac.rs&gt;, mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All,

Greetings!

Please find attached Serbia - India bilateral proposal signed by the Indian side - PI, Co-PI and Director for your kind consideration.

thanks and regards,

Arijit

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 **Serbian-Indo- project proposal-India signed.pdf**  
992K

---

**Milos Davidovic** <davidovic@vin.bg.ac.rs>

Thu, Jul 30, 2020 at 2:49 PM

Reply-To: davidovic@vin.bg.ac.rs

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;

Cc: mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All,

please find attached last page of the proposal signed by our Director.

Kind regards,

Milos

[Quoted text hidden]

--

Milos Davidovic, dipl. ing, PhD  
Vinca Institute of Nuclear Sciences  
Radiation Measurement Laboratory  
P.O.Box 522, 11001 Belgrade, Serbia  
e-mail: [davidovic@vinca.rs](mailto:davidovic@vinca.rs)  
phone: +381 11 3408 274  
mobile: +381 63 467 943

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 **sken Indija M Davidovic.pdf**  
134K

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**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Thu, Jul 30, 2020 at 10:29 PM

To: Milos Davidovic &lt;davidovic@vin.bg.ac.rs&gt;

Cc: mjovst@vinca.rs, charu k gupta &lt;charukhoslagupta@andc.du.ac.in&gt;

Dear All.

Thanks to your efforts online submission of the Serbia-India bilateral project could be done today.

Tomorrow we have to submit the hardcopy of the proposal at the funding institute which incidentally happens to be the last day too.

Let's hope for a positive outcome.

Looking forward to doing good science with you all.

8/29/23, 12:46 PM

AND College Mail - Serbia - India bilateral proposal signed by Indian side

best regards,

Arijit

[Quoted text hidden]



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

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**FW: GoToMeeting Invitation - Indo-Norwegian collaboration**

2 messages

**Alena Bartonova** <Alena.Bartonova@nilu.no>

Wed, Jan 16, 2019 at 6:59 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, Núria Castell &lt;Nuria.Castell@nilu.no&gt;

Dear Arijit,

We will discuss with the colleagues from Sastra university tomorrow, in case you can join the discussion; we will keep you posted in any case.

Their interest is in machine learning and short-term prediction of air quality based on low-cost sensor network data. Until now, they have been working on publicly available sensor network data from University of California at Irvine.

We are working on a short sketch which we will provide later today.

Best  
Alena

-----Original Appointment-----

**From:** Alena Bartonova**Sent:** tirsdag 15. januar 2019 20.52**To:** Alena Bartonova; Núria Castell; [narenmv@icloud.com](mailto:narenmv@icloud.com)**Subject:** GoToMeeting Invitation - Indo-Norwegian collaboration**When:** torsdag 17. januar 2019 09.00-11.00 (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.**Where:** GoToMeeting

Dear Narendran,

If this does not work, we will continue with Skype as the last time. Most likely we will be able to finish the meeting in one hour.

Please can you send us some materials regarding your work and possible contribution.

Best  
Alena

Indo-Norwegian collaboration

Thu, Jan 17, 2019 9:00 AM - 11:00 AM CET

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/675674301>

You can also dial in using your phone.

(For supported devices, tap a one-touch number below to join instantly.)

Norway: +47 21 93 37 51

- One-touch: <tel:+4721933751,,675674301>

Access Code: 675-674-301

First GoToMeeting? Let's do a quick system check: <https://link.gotomeeting.com/system-check>

**Please consider the environment before printing this email and attachments**

---

 **invite.ics**  
4K

---

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>  
To: Alena Bartonova <Alena.Bartonova@nilu.no>  
Cc: Núria Castell <Nuria.Castell@nilu.no>

Wed, Jan 16, 2019 at 8:07 PM

Dear Alena,

It's always nice to hear from you.

I am out of Delhi attending a marriage in the family.

I will try to squeeze in if possible.

Please advise and guide what I have to do now as in writing/ modification of the proposal.

Hoping for the best this time.

Best regards,

Arijit

[Quoted text hidden]



Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

## Je-S: Research Proposal: Confirmation of submission to Council

2 messages

**JeSHelp@rcuk.ac.uk** <JeSHelp@rcuk.ac.uk>  
To: arijitchowdhuri@andc.du.ac.in

Fri, Mar 9, 2018 at 2:17 PM

This e-mail is for information only.

A Research Proposal submitted by you has been sent to the ESRC.

You need take no further action.

### Proposal Details

Council Reference: ES/R010927/1

Proposal Title : Developing and empowering autonomous citizen's communities for alleviating ambient air pollution and improving quality of life

Principal Investigator : Dr Arijit Chowdhuri

Organisation: University of Delhi

Department : Acharya Narendra Dev College

Your Reference : ANDC/EQUIP/2017-01

Proposal Scheme : Research Grants

Proposal Call/Mode/Type : EU-India Platform for the Social Sciences and Humanities

Date and time of action: 09 Mar 2018 08:47.

Regards

Je-S Helpdesk

Tel: +44 (0) 1793 44 4164

e-mail: [JeSHelp@rcuk.ac.uk](mailto:JeSHelp@rcuk.ac.uk)

Staffed Monday to Thursday 8:30am - 5pm and Fridays 8.30am to 4.30 pm UK time (Excluding Bank Holidays and Other Holidays)

Je-S Link: <https://je-s.rcuk.ac.uk>

Out of hours: Please leave a Voice Mail message

\*\*\*\*\*

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\*\*\*\*\*

**Dr. Arijit Chowdhuri** <arijitchowdhuri@andc.du.ac.in>

Sat, Mar 10, 2018 at 10:54 AM

To: Alena Bartonova <Alena.Bartonova@nilu.no>, Susan Young <Susan.Young@iom-world.org>, Sotiris Vardoulakis <Sotiris.Vardoulakis@iom-world.org>, Karen Galea <karen.Galea@iom-world.org>, charu k gupta <charukhoslagupta@andc.du.ac.in>

Dear All,

All the best to us.

Many thanks for the compilation at such short notice.

Appended below is the communication received from JeS help

best regards

Arijit

[Quoted text hidden]





Dr. Arijit Chowdhuri &lt;arijitchowdhuri@andc.du.ac.in&gt;

---

**now submitted RE: Equip call - info from the office of the Research UK**

3 messages

**Alena Bartonova** <Alena.Bartonova@nilu.no>

Fri, Mar 9, 2018 at 5:23 PM

To: "Dr. Arijit Chowdhuri" &lt;arijitchowdhuri@andc.du.ac.in&gt;, Susan Young &lt;Susan.Young@iom-world.org&gt;

Cc: Karen Galea &lt;karen.Galea@iom-world.org&gt;, Sotiris Vardoulakis &lt;Sotiris.Vardoulakis@iom-world.org&gt;

Dear all,

I forgot to inform you that I have now submitted the new version earlier today, simply adding as general attachments the three documents here, and then submitting for Arijit. I made no other changes.

All the best

Alena

**From:** Dr. Arijit Chowdhuri [mailto:[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)]**Sent:** torsdag 8. mars 2018 15.46**To:** Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>**Cc:** Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>**Subject:** Re: Equip call - info from the office of the Research UK

Dear Susan,

Great effort!

From the Indian side we had included the costs in EURO which incidentally are mentioned in parentheses in the JFR - India.

The exchange rate used was as on 30 November 2017 (proposal submission date)

Also, initially the ANNEXURE 2 template had only EURO mentioned.

Please feel free to point out any ambiguity if you see one.

thanks and regards

Arijit

On Thu, Mar 8, 2018 at 7:32 PM, Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)> wrote:

Hi All

I have completed annex 2 for IOM.

However, the Indian costs don't match the justification of resources so they need to be updated to reflect whichever numbers are correct.

I updated the table to add things in the right columns but India and Norway need to add their funding source (highlighted).

I spoke with Tim at EQUIP and he mentioned that we can use GBP or Euros as long as its clear (I have written in it which currency we are using for each partners.

Please note, I wont be back in the office after today until Monday.

Kind regards

Susy

---

**From:** Alena Bartonova [mailto:[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)]

**Sent:** 08 March 2018 12:41

**To:** Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>

**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

**Subject:** RE: Equip call - info from the office of the Research UK

Sorry, was not the last version, here comes.

---

**From:** Alena Bartonova

**Sent:** torsdag 8. mars 2018 13.37

**To:** 'Susan Young' <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>

**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

**Subject:** RE: Equip call - info from the office of the Research UK

Hi Susie,

I think there is some confusion, indeed, not sure where did it come from. If you can fill in the attached.

Thanks!!!!

Alena

**From:** Susan Young [mailto:[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)]  
**Sent:** torsdag 8. mars 2018 13.24  
**To:** Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>; Karen Galea <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)>  
**Cc:** Dr. Arijit Chowdhuri <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>; Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>; Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>  
**Subject:** RE: Equip call - info from the office of the Research UK

Dear Alena

The UKs involvement comes to less than 400k at 100% FEC, so is well below the limit. It is 278k at 80% FEC. Im not sure where the figures in Annex 2 came from as we didn't put it together, but the correct information is in the JoR and in the table below.

Im not sure which cost statements you are referring to? If it is annex 2, could you please provide the WORD version so I can update (if all the other information is now finalised).

Thanks

Susy

Summary fund heading	Fund heading	Full economic cost	RC contribution	% RC contribution
<b>Directly Incurred</b>	Staff	180,695.19	144,556.16	80%
	T & S	19,680.00	15,744.00	80%
	Other Costs	12,000.00	9,600.00	80%
	<b>Sub-total</b>	<b>212,375.19</b>	<b>169,900.16</b>	
<b>Directly Allocated</b>	Investigators	0.00	0.00	80%
	Estates Costs	33,880.35	27,104.28	80%
	Other DA	0.00	0.00	80%
	<b>Sub-total</b>	<b>33,880.35</b>	<b>27,104.28</b>	
<b>Indirect Costs</b>	Indirect Costs	101,641.05	81,312.84	80%
	<b>Total</b>	<b>347,896.59</b>	<b>278,317.27</b>	

---

**From:** Alena Bartonova [mailto:Alena.Bartonova@nilu.no]  
**Sent:** 08 March 2018 12:09  
**To:** Susan Young <Susan.Young@iom-world.org>; Karen Galea <karen.Galea@iom-world.org>  
**Cc:** Dr. Arijit Chowdhuri <arijitchowdhuri@andc.du.ac.in>; Sotiris Vardoulakis <Sotiris.Vardoulakis@iom-world.org>  
**Subject:** Equip call - info from the office of the Research UK  
**Importance:** High

Hi,

I called the office, because I was unable to figure out the Annex 2 issue.

1. Annex 2. IOM, your TOTAL budget needs to be 400.000 pounds or less, you can very well leave the 100% funding in the table, and write that you will only receive 80%, but the total needs to come down to max 400.000 (you were at 439 or something). (This means you also need again, to re-adjust the 1-pg cost statement). I think you could upload the resulting files yourselves. Please mark them in the name as "revised" or something. We should not have to delete any of the old files.
2. ODA statement. Please could you upload this yourselves.
3. Cost statements, IOM will have to revise theirs, please advise if you can put it together and submit as well.
4. No need to delete financial info from the template, but if you want, you can do it, it is of no consequence other than looking better with nothing.

We got an extension to submit until tomorrow 5 p.m. UK time, but if we do not need it, it is fine. I think if you would be so kind and upload, and then Arijit or I can press the button, please let me know.

Please let me know if this is ok.

All the best

Alena

Alena Bartonova, PhD

Research Director, NILU UAE

[www.nilu.no](http://www.nilu.no)

Phone: +47 63898152/+47 97702956/+971 50 8336459

 **Please consider the environment before printing this email and attachments**

Susan Young  
**Research Operations Manager**



Institute of Occupational Medicine  
 Research Avenue North  
 Riccarton  
 Edinburgh  
 EH14 4AP

**Tel:** 0131 449 8065  
**Fax:** 0131 449 8084  
**Mob:** 07590 307 678  
**Email:** [susan.young@iom-world.org](mailto:susan.young@iom-world.org)

**Web:** <http://www.iom-world.org>  
**Web:** <http://www.safenano.org>

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This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender - [susan.young@iom-world.org](mailto:susan.young@iom-world.org) - immediately and delete the message from your system. All IOM email is virus scanned but the recipient should also check this email and any attachments for the presence of viruses.

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### 3 attachments

-  **ODA Compliance Statement UK.pdf**  
274K
-  **JustofRes-FINAL (002).pdf**  
29K
-  **EqUIP-Call-Spec-Annex-2\_revised.pdf**  
392K

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**Karen Galea** <[karen.Galea@iom-world.org](mailto:karen.Galea@iom-world.org)> Fri, Mar 9, 2018 at 5:30 PM  
 To: Alena Bartonova <[Alena.Bartonova@nilu.no](mailto:Alena.Bartonova@nilu.no)>, "Dr. Arijit Chowdhuri" <[arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)>, Susan Young <[Susan.Young@iom-world.org](mailto:Susan.Young@iom-world.org)>  
 Cc: Sotiris Vardoulakis <[Sotiris.Vardoulakis@iom-world.org](mailto:Sotiris.Vardoulakis@iom-world.org)>

Thanks Alena!

Karen

[Quoted text hidden]

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**Sotiris Vardoulakis** <Sotiris.Vardoulakis@iom-world.org>

Fri, Mar 9, 2018 at 6:18 PM

To: Karen Galea <karen.Galea@iom-world.org>, Alena Bartonova <Alena.Bartonova@nilu.no>, "Dr. Arijit Chowdhuri" <arijitchowdhuri@andc.du.ac.in>, Susan Young <Susan.Young@iom-world.org>

Dear All,

Very many thanks for the additional work on this proposal.

Fingers crossed!

Sotiris

[Quoted text hidden]

Gmail interface showing an email from Marco Antonio Rivera. The email subject is "Manuscript" and the content includes a greeting, a request for comments on a manuscript, and a PDF attachment titled "text.pdf".

**Compose**

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- Inbox 1
- Starred
- Snoozed
- Important
- Sent
- Drafts 53
- All Mail
- Categories
- Social 7,982
- Updates 2,048
- Forums 5
- Promotions 7,212
- More

**Chat**

**Spaces**

**Meet**

Search: mrivera@uaem.mx

Active

21 of many

### Manuscript

**M** **Marco Antonio Rivera** <mrivera@uaem.mx> to Tanu, me, Joaquin Nov 15, 2018, 2:50 PM

Hello,

Please take a look to the last version of the manuscript and send me your comments. I am still working on the introduction, and it will be ready by monday. Punit and I are planning to work on the paper the next Wednesday, so please send me your comments as soon as possible.

Thank you

**One attachment** • Scanned by Gmail

text.pdf

Gmail interface showing an email from Marco Antonio Rivera. The email subject is "Manuscript" and the content includes a greeting, a request for comments on a manuscript, and a PDF attachment named "text.pdf".

**Compose**

**Mail** 1

- Inbox 1
- Starred
- Snoozed
- Important
- Sent
- Drafts 53
- All Mail
- Categories
- Social 7,982
- Updates 2,048
- Forums 5
- Promotions 7,212
- More

**Chat**

**Spaces**

**Meet**

Search: mrivera@uaem.mx

Active

21 of many

### Manuscript

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Thank you

**One attachment** • Scanned by Gmail

text.pdf



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

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**Springer Nature book chapter invitation**

9 messages

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aryauthaman@yahoo.co.in <aryauthaman@yahoo.co.in>  
To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>  
Cc: hiran m <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 12:50 PM

Dear Prof. Dr. Sarita,  
Wish you are fine and that doing well with your research work in full swing.

Let me introduce myself. My name is Arya Uthaman, a research scholar at Harbin Institute of Technology, China, and a student of Prof. (Dr) Sabu Thomas, Vice-Chancellor Mahatma Gandhi University, Kottayam, Kerala.

I am happy to inform you that I am editing a handbook with Springer Nature publications with Prof. Dr. Sabu Thomas and his two co-workers (international). The name of the book is **Advanced Functional Porous Materials: Macro to Nano Scale Length**. Here all the editors of this book are inviting experts in this field worldwide for the contributing chapters. I am pleased to invite you as a contributing author of this book. I got your email contact from my colleague Mr. Hiran. He conveyed all information regarding your valuable contributions to the Book entitled "Polymer Nanocomposites Based on Silver Nanoparticles: Synthesis, Characterization, and Applications. So, in this email, I am humbly requesting your valuable contribution to our next book. I am attaching the proposed book chapter list to this email, kindly please find the attached file. You can choose and reserve your chapter according to your convenience to write and expertise. The tentative date for the publication of the book is in June 2021.

Wishing you, advanced Merry X mas and Happy New Year.

Please feel free to contact me if you have any questions.

Hopefully looking forward to hearing from you.

Thanking you

Sincerely,  
Arya.

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

Nangang District, Harbin 150090, China

Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)

[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)



**Porous Materials Tentative Chapter Titles.docx**

23K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: "aryauthaman@yahoo.co.in" <aryauthaman@yahoo.co.in>  
Cc: hiran m <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 8:36 PM

Dear Arya

Merry Christmas and Great Year ahead...:)

Thanks for the mail below and invite to write another Chapter with the team of Prof Sabu. I would be glad to be a part of it. Please give me a day to finalize the topic.

Best/Sarita

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Associate Professor

Department of Zoology

Acharya Narendra Dev College

(University of Delhi)  
+91-98-103-09912

---

**aryauthaman@yahoo.co.in** <aryauthaman@yahoo.co.in>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>  
Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Wed, Dec 23, 2020 at 9:49 PM

Dear Dr. Saritha,

Thank you for your email. We are glad to hear about your approval to contribute to this book and to jointly work with Prof Dr. Sabu Thomas's research team. In this email, I am attaching the chapter list for your kind reference, please find the attached file, and please take your time to choose your interested area. After confirming you can send me the name of the chapter, so I can reserve that chapter for you.

If you have any questions regarding the book please feel free to contact me.

Thanking You  
Yours Sincerely,

Arya

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

*Nangang District, Harbin 150090, China*

**Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)**

**[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)**

[Quoted text hidden]



**Porous Materials Tentative Chapter Titles.docx**

23K

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>

Thu, Jan 7, 2021 at 7:48 PM

To: "aryauthaman@yahoo.co.in" <aryauthaman@yahoo.co.in>

Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Dear Arya

Regrets for the late response. Our team would be glad to write '**Chapter 9: Characterization of Mesoporous Materials**' in the upcoming book titled '**Advanced Functional Porous Materials: Macro to Nano Scale Length**'.

Please confirm so that we start preparing the Chapter.

Thanks/Sarita Kumar

[Quoted text hidden]

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**aryauthaman@yahoo.co.in** <aryauthaman@yahoo.co.in>

Fri, Jan 8, 2021 at 10:21 AM

To: "Dr. Saritha Kumar" <saritakumar@andc.du.ac.in>

Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Chettan <hiran009@yahoo.co.in>

Dear Dr. Saritha ma'am,

Thank you very much for your reply.

We are glad to know about the confirmation from you and your team to contribute 'Chapter 9: Characterization of Mesoporous Materials' in the upcoming book '**Advanced Functional Porous Materials: Macro to Nano Scale Length**'. I request please start working on chapter 9. Further proceedings can do meanwhile.

If you have any questions please feel free to contact me.

Thanks again for your valuable contribution to our book.

Yours Sincerely,

Editors (Arya)

Regards,

**Arya Uthaman**

**Ph.D. Scholar**

*Laboratory for FRP Composites and Structures (LFCS)*

*School of Civil Engineering*

*Harbin Institute of Technology (HIT)*

*Nangang District, Harbin 150090, China*

**Email: [aryauthaman@yahoo.co.in](mailto:aryauthaman@yahoo.co.in)**

**[aryauthaman@hit.edu.cn](mailto:aryauthaman@hit.edu.cn)**

[Quoted text hidden]

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**Sabu Thomas** <sabuthomas@mgu.ac.in>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Sun, Jan 10, 2021 at 3:05 PM

Thanks Sartia

Regards,

Sabu

=====

**Prof.(Dr) SABU THOMAS, D.Sc., Ph.D., FRSC, FEurASc**

**Vice-Chancellor,**

**Mahatma Gandhi University, Kottayam, Kerala, India -686 560**

Director,School of Energy Materials

Founder Director, International and Inter-University

Centre for Nanoscience and Nanotechnology

Professor, School of Chemical Sciences &

International and Inter-University

Centre for Nanoscience and Nanotechnology

*Chief Editor,Nano-Structures & Nano-Objects, Elsevier*



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

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**Invitation for contributing a book chapter**

31 messages

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**Sabu Thomas** <sabuthomas.mgu@outlook.com>

Thu, Oct 11, 2018 at 4:53 PM

To: "saritakumar@andc.du.ac.in" &lt;saritakumar@andc.du.ac.in&gt;

Dear Colleague

Date: 2018/10/10

This mail brings you warm, sincere and hearty greetings from India & China. Hope you are keeping fine and that your research activities are going on in full swing.

I would like to let you know that we, **Dr. Sabu Thomas**, Professor and Head of Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India; **Dr. Li Tianduo**, Professor of School of Chemistry and Pharmaceutical Engineering, Qilu University of Technology, Jinan, Shandong, China; Dr. Hanna J. Maria, School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, India & Hiran Mayookh Lal, PhD student, School of Civil Engineering, Harbin Institute of Technology, Harbin China, altogether have decided to bring out a book on **Polymer Nanocomposites based on Silver Nanoparticles: Synthesis, Characterization and Applications** very soon. **Springer Publishers** has accepted our proposal and we have started working on it. Hopefully, the stalwarts and legends in the field of this field will be contributing chapters to the proposed book and the final outcome will be something about which all of us will be very much proud of.

It came to our attention that your team has done some significant research work on composites based on silver nanoparticles. We will really be honored to have a chapter contributed by you for the proposed book. We hope and believe that you will accept our invitation to this.

In order to save time and to avoid duplications, we are suggesting the topic for each author taking into consideration the specialized area of research handled by each of our contributors. Kindly bear with us for taking the freedom to suggest the topic, considering our good intentions behind this. We, therefore, invite you to join us in this much-awaited dream venture of ours and request your gracious consent to contribute a chapter on the proposed book. Though the change of topic may pose some problems to us, we can be flexible to a certain extent in the best interest of the success of our venture if you have a strong opinion to have your topic changed.

We have already prepared a tentative list of the summary of each chapter, but we would like to add that the author is free to alter the topics and subtopics. In order to avoid overlapping of the contents, **we would first like to have a short 'Content List' (summary) that gives a broad idea about your coverage along with your consent letter** as early as possible. We can have further future discussions through emails if you are interested in this venture. We will be thankfully waiting to get your positive **reply preferably before the end of this month**.

I look forward to having future research collaborations with your team.

With best regards,

Prof. Dr. Sabu Thomas, D.Sc., Ph. D., FRSC

Vice Chancellor  
Mahatma Gandhi University  
Kottayam district  
Kerala State - 686560  
India

Phone (office): +91 481 2730003

Mob: +91 9447223452

Skype: sabu.thomas48

Dr. Sabu Thomas, Professor and Head of Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India.

Dr. Li Tianduo, Professor of School of Chemistry and Pharmaceutical Engineering. Qilu University of Technology, Jinan, Shandong, China.

Dr. Hanna J. Maria, Post-Doctoral Fellow, School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, India.

Hiran Mayookh Lal, Ph.D. student, School of Civil Engineering, Harbin Institute of Technology, Harbin China.

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Sabu Thomas <sabuthomas.mgu@outlook.com>

Thu, Oct 11, 2018 at 10:02 PM

Dear Prof Thomas,

Thanks for the mail below and invitation for writing a Chapter for this prestigious book. I would be glad to be a part of this book and would definitely like to contribute to this venture.

Please let me know if there is any particular format for writing the content list (summary) of the Chapter or if there is any word limit. Will prepare that accordingly and send at the earliest.

Best Regards

Sarita Kumar

[Quoted text hidden]

--

सरिता कुमार  
Sarita Kumar  
Associate Professor  
Department of Zoology  
Acharya Narendra Dev College

(University of Delhi)

+91-98-103-09912

---

**Sabu Thomas** <sabuthomas.mgu@outlook.com>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Fri, Oct 12, 2018 at 7:17 AM

Dear Sarita Kumar

Thank you for your reply and readiness to contribute. I will send you the details soon.

Regards

Prof. Dr. Sabu Thomas, D.Sc., Ph. D., FRSC

Vice Chancellor  
Mahatma Gandhi University  
Kottayam district  
Kerala State - 686560  
India

Phone (office): +91 481 2730003

Mob: +91 9447223452

Skype: sabu.thomas48

---

**From:** Dr. Sarita Kumar <saritakumar@andc.du.ac.in>  
**Sent:** Thursday, October 11, 2018 10:02 PM  
**To:** Sabu Thomas  
**Subject:** Re: Invitation for contributing a book chapter

[Quoted text hidden]

---

**hiran m** <hiran009@yahoo.co.in>  
Reply-To: hiran m <hiran009@yahoo.co.in>  
To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>  
Cc: Sabu Thomas <sabuthomas@mgu.ac.in>, Dr Li Tiando <litianduo@163.com>, "Chihong. Happy" <chihong.happy@163.com>, Hanna Maria <hannavidhu@gmail.com>, "noelbabu@outlook.com" <noelbabu@outlook.com>, Aryauthaman <aryauthaman@yahoo.co.in>

Tue, Oct 16, 2018 at 8:39 AM

Dear Professor Sarita Kumar,  
Hope you are fine. I am very glad to meet you.

I am Hiran Mayookh Lal (co-editor of proposed book), research scholar under Prof Dr Sabu Thomas.

Thank you for your willingness for your contribution and work together for proposed book.

## "Polymer Nanocomposites based on Silver Nanoparticles: Synthesis, Characterization and Applications"

For your better understanding I will forward you the list of chapters and you can choose any chapter according to your knowledge on the subject.

list of chapters are

- Characterization of silver nano particles
- Physical and Chemical modification of silver nano particles
- Silver nano composites in different synthetic polymer matrices (Bio degradable and non degradable)
- Silver nano particles in natural polymer (Bio degradable)
- microscopic analysis of Silver Nano composites
- spectroscopic analysis of Silver Nano composites
- scattering method for analysis of Silver Nano composites
- Thermal Characterization of Silver Nano composites
- Mechanical and Viscoelastic Charecterization
- Diffusion and transport properties of Silver Nano composites
- Ageing and degradation study
- Theory, modelling and simulations of Silver Nano composites

These are chapters to be completed the other chapters already have chosen by the experts on corresponding field.

I also suggest you please forward me your choice of chapter as soon as possible to avoid overlapping, because we are also sending the request to other Professors. So we can confirm your preference and adjust with other authors.

I will forward you the Springer book Contract consent to publish and the format details.

Hopefully looking forward for your kind reply.

Thanking You.  
Hiran

Together with, Prof Sabu Thomas, Dr. Li Tianduo, Dr. Hanna Maria

*With Best Regards,*

Hiran Mayookh Lal  
Research fellow@  
Laboratory For FRP Composites & Structures (LFCS)  
School of Civil Engineering  
Harbin Institute of Technology  
[73 Huanghe Road, Nangang District, Harbin, China 150090](#)  
mob. no- 0086 18846831532  
*Skype ID- hiran0091*  
*Email: [hiran009@yahoo.co.in](mailto:hiran009@yahoo.co.in)*

On Tuesday, 16 October, 2018, 10:32:09 AM GMT+8, Sabu Thomas <[sabuthomas.mgu@outlook.com](mailto:sabuthomas.mgu@outlook.com)> wrote:



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

---

## Dr. Kumar - IntechOpen - Advances in Diptera - Insight, Challenges and Management Tools

4 messages

---

**Paula Gavran** <paula@intechopen.com>

Fri, Feb 18, 2022 at 7:37 PM

To: saritakumar@andc.du.ac.in

Dear Dr. Kumar,

My name is Paula Gavran and I will be the Author Service Manager for your book project ("*Advances in Diptera - Insight, Challenges and Management Tools*").

I wanted to get in touch and provide you with some information regarding the book and let you know that we have started inviting potential authors to submit their research.

Over the next month, authors will begin submitting their chapter proposals. A Chapter proposal is a short 100-150 word description of the chapter and should provide you with an overview of what the full chapter will discuss.

As Academic Editor, your first task will be to review the submitted proposals.

You will access these proposals through your Academic Editor Panel which can be reached on the following link: <https://mts.intechopen.com/> (Your Panels – Academic Editor Panel).

On your panel, you will also find your Editor Guidelines (Documents – Download), the full chapters once they are submitted, and other important documents.

I have also attached the Editor Guidelines to this email for your quick reference.

Please remember that we welcome you to invite your colleagues to join the project by sending them this link: [https://mts.intechopen.com/welcome?books\\_hash=530031c8ad9b3661090e69f0561e31f0&editor\\_contacts=a80ac0e94&books\\_id=11807](https://mts.intechopen.com/welcome?books_hash=530031c8ad9b3661090e69f0561e31f0&editor_contacts=a80ac0e94&books_id=11807)

All authors you invite will be granted a 35% discount on their OAPF.

I will be happy to assist with any questions you may have and am looking forward to working with you.

Please kindly confirm the receipt of this mail.

Thank you,

IntechOpen - Open Science Open Minds

<https://mts.intechopen.com>



**Paula Gavran | Author Service Manager**

+44 20 8089 5702 | [intechopen.com](https://mts.intechopen.com)

Rijeka: [Janeza Trdine 9, 51000 Rijeka, Croatia](#)

London: [5 Princes Gate Court, London, SW7 2QJ, UK](#)

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The information contained in this email and, if applicable, the attachment, are confidential and are intended only for the recipient. The contents may not be disclosed and distributed publicly. Under GDPR it is prohibited to share any personal data that may be contained in this email. If you have received this communication in error, please notify us then delete the e-mail and all attachments and any copies thereof. This communication is part of IntechOpen's publishing activity and is not intended for unauthorised use.

---

**2 attachments****IntechOpen-Academic\_Editor\_Guidelines.pdf**

701K

**IntechOpen-CrossCheck\_Guidelines.pdf**

201K

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Paula Gavran <paula@intechopen.com>

Fri, Feb 18, 2022 at 7:49 PM

Dear Paula

Thank you so much for the information and launch of the proposal invites. I will go through all the guidelines and will contact you in case of any query.

Best

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Acharya Narendra Dev College

(University of Delhi)

+91-98-103-09912

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Paula Gavran <paula@intechopen.com>

Mon, Feb 21, 2022 at 1:49 PM

Dear Paula

Just a little query. As an academic editor of the proposed book, I am eligible for publishing my Chapter free and online first. In that case, do I need to register and submit my Chapter proposal too?

Thanks

[Quoted text hidden]

---

**Paula Gavran** <paula@intechopen.com>  
To: "Dr. Sarita Kumar" <saritakumar@andc.du.ac.in>

Mon, Feb 21, 2022 at 4:36 PM

Dear Dr. Kumar,

thank you for your email and registration.

To kindly refer to it, you can write 1 chapter and it is free of charge for you, as the Editor.  
You don't have to submit your proposal, just the chapter.

When it's finished, it will be sent to the external reviewer. This chapter will be treated like any other chapter in the book, which means that it is subject to iThenticate screening, language copyediting, typesetting etc.

If you need any kind of help, I am at your disposal.

Looking forward to hearing from you.

Kind regards,



**Paula Gavran | Author Service Manager**

+44 20 8089 5702 | [intechopen.com](https://www.intechopen.com) 

Rijeka: [Janeza Trdine 9, 51000 Rijeka, Croatia](#)

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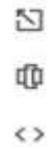
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[Quoted text hidden]

# SCHEDULE OF ICMCESA - 2022

External



ICMCESA 2022 <icmcesa2022@andc.du.ac.in>  
to a.warren, me

Thu, Feb 24, 2022, 12:49 PM

Greetings

On behalf of the Organizing committee, we would like to remind you that your talk is scheduled on February 25 , 2022 from 1400 - 1515 (IST)

PFA the link for joining the conference

Topic: "ICMCESA - 2022" - Day - 4

Time: This is a recurring meeting Meet anytime

Join Zoom Meeting

<https://us02web.zoom.us/j/89795036663?pwd=Im9lWRmxmUlmZza0FVY1JyCDd1M3ZlZz09>

Meeting ID: 897 9503 6663

Passcode: 905930

Looking forward to a stimulating session with you

With best regards

Team ICMCESA-2022, ANDC



Alan Warren

Thu, Feb 24, 2022, 3:06 PM

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htlv

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Labels +

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 **sunita jetly** <subhagaya@gmail.com>  
to Satendra, me

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

From: **Dr S Sonkar** <drscsonkar@gmail.com>  
Date: Wed, Jun 8, 2022 at 4:16 PM  
Subject: Invitation for Book Chapter "EMERGING HUMAN VIRAL DISEASES".  
To: sunita jetly <subhagaya@gmail.com>  
Cc: prudhvi sai <saiprudhvi21@gmail.com>

Dear Dr. Jetly,

Thank you for agreeing to contribute a chapter to the proposed book titled "EMERGING HUMAN VIRAL DISEASES" and looking forward to your

As per our Previous discussion, We assigning you Chapter :

**Human Adult T-Cell Leukemia Virus Type 1 (HTLV-1)**

For abstracts and full chapter manuscript preparation please go to the below link  
<https://www.springer.com/gp/authors-editors/book-authors-editors/manuscript-preparation/5636#c5648>

For Abstracts: 300 Words Including titles and Keywords

For full Book chapter preparation

1. Introduction  
Brief history  
Discovery
2. Epidemiology  
Geographical distribution / demographic  
Age, mortality and Morbidity  
Origin of infection and diversity  
Spread of disease (epidemics, sporadic, pandemics etc) and  
Biosafety measures (Handling of virus)
3. Potential risk of emergence and re-emergence
4. Organization of infectious agents (Structural and molecular)  
Classification  
Morphology and virion structure



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htlv



Mail



Chat



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Fwd: meeting link for HTLV 1 book External Inbox x



Shruti Banswal &lt;shruti68@gmail.com&gt;

to Dr, me, Manisha

Dear all ,

Sending you all meeting link as desired by Dr. Sunita. Time for the meeting is today at 10.00pm.

Thanks

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

From: Shruti Banswal &lt;shruti68@gmail.com&gt;

Date: Wed, Jul 27, 2022 at 8:29 PM

Subject: meeting link for HTLV 1 book

To: shruti gupta &lt;shruti68@gmail.com&gt;

[meet.google.com/vdc-yxof-fuc](https://meet.google.com/vdc-yxof-fuc)

--

Dr. Shruti Banswal  
Associate Professor  
Department of Biomedical Science  
Shaheed Rajguru College of Applied Sciences for Women  
Vasundhara Enclave Delhi 110096  
Mobile:981138293

--

Dr. Shruti Banswal  
Associate Professor  
Department of Biomedical Science  
Shaheed Rajguru College of Applied Sciences for Women  
Vasundhara Enclave Delhi 110096  
Mobile:981138293

Gmail

htlv1 acceptance

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Request for an **acceptance** letter for our chapter Human Adult T-Cell Leukemia Virus Type 1 (HTLV1) in your b**sunita jetly** <subhagaya@gmail.com>

to Bhukya, manishakhatri, me, Archana, shruti

Dear Dr Prudhvi

I kindly request you to provide an **acceptance** letter for our chapter on Human Adult T-Cell Leukemia Virus Type 1 (HTLV1) in your book titled "Emerging Human Viral Diseases." This be communicated to our respective colleges.

regards

-

Dr. Sunita Jetly

Associate Professor

Acharya Narendra Dev College

Govindpuri, Kalkaji

Residential Address

F-34, Sector-54

NOIDA 201303

9312922180

[sunitajetly@andc.du.ac.in](mailto:sunitajetly@andc.du.ac.in)**sunita jetly** <subhagaya@gmail.com>

to Bhukya, manishakhatri, me, Archana, shruti

Dear Dr Prudhvi

just a humble reminder

regards

DR sunita Jetly

\*\*\*

**Bhukya Prudhvi Lal** <prudhvi.bhukya@icmr.gov.in>

to subhagaya, manisha, me, archanapandey, shruti

Dear Prof Jetley

Your chapter entitled has been provisionally **accepted** for publication for the Springer Book - Emerging Human Viral Diseases.

Thank you for your interest in our book

Regards

\*\*\*

-

Dr.Prudhvi Lal BhukvaScientistInchargeRodent BSL2 &amp; Primate Containment facility(ICMR- National Animal Resource Facility for Bio-Medical Research (NARFBR)Indian Council of

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- acbr 18
- applications 7
- bioinformatics 41
- books 1
- d forms 6
- dbt interview
- DST INTERVIEW
- family 13
- iacr 1
- INMAS LAB 8
- jit-hp
- lab shopping 23
- mass spec
- papers 1
- papers related to... 2
- PARKINSON
- phd 14
- PHD COURSEWORK
- PRABHAT WORK 1

(No subject)

Yahoo/Inbox ☆



● **hamid** <hamidur2006@gmail.com>



Wed, 13 Nov, 2019 at 3:47 pm ☆

To: Laishram Singh, rimp\_1989@yahoo.com, sharifun shahnaj, Chingtam

Hi,  
I am sending the recent modified paper. Have a review on it finally.

Attention Rimp: Pliz send the sigma file of Fig1. There are some errors in it. Needed to be modified.  
Thank you all.

--  
Md Hamidur Rahaman, PhD  
Assistant Professor  
Dept. of Biotechnology  
Manipur University, Canchipur  
Imphal, Manipur, India, 795003  
Tel. no. 09863518139



**rimpy\_MU ... .docx**  
9.6MB

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Received, thank you.    Received.    Thank you.



- projects n propo... 2
- stories 1
- study material-phd 1
- TRAIN ONLINE BIOI...
- TRAINEES
- transactions 2

## Re: Fwd: Request for APC fee waiver

---

From: rimp\_1989@yahoo.co.in

To: lairksingh@gmail.com

Date: Thursday, 17 October, 2019 at 06:00 am IST

---

Sir! I just saw Ur mail...

Will come to lab today in afternoon and upload the manuscript.

Thanks

On 15 Oct 2019 17:59, Laishram Singh <lairksingh@gmail.com> wrote:

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

From: **APCwaivers** <[APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)>

Date: Tue, Oct 15, 2019, 5:57 PM

Subject: RE: Request for APC fee waiver

To: Laishram Singh <[lairksingh@gmail.com](mailto:lairksingh@gmail.com)>

Dear Dr. Laishram Rajendrakumar Singh,

Thank you for providing this documentation in support of your waiver request. I am writing to confirm that we will be able to provide a full waiver for the APC for your manuscript should it be accepted for publication in Scientific Reports.

Once you have submitted your manuscript please inform me of your manuscript tracking number so that this waiver can be added to your manuscript record. Please also keep a copy of this email for future reference.

Thanks and best wishes,

Ross

**Springer Nature** APCWaivers Department

The Campus, 4 Crinan Street,

London N1 9XW

United Kingdom

Visitor address: Porters Gate Reception,

Wharfdale Road, London, UK

**nature publishing group** / palgrave macmillan

Tel: +44 (0)20 3192 2009

Email: [APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)

**From:** Laishram Singh [mailto:[lairsingh@gmail.com](mailto:lairsingh@gmail.com)]

**Sent:** 15 October 2019 08:19

**To:** APCwaivers

**Subject:** Request for APC fee waiver

Dear Representatives,

We are submitting a manuscript entitled "**Structural basis of Peroxidase Catalytic Cycle of human Prdx6**" for suitability for publication in Scientific Report. Since the manuscript has not been submitted we do not have a manuscript ID.

Due to paucity of funds we would like to apply complete APC fee waiver by Scientific Report. Necessary evidence is attached herewith for your reference.

We would remain thankful for your kind consideration.

Sincerely,

Dr. Laishram Rajendrakumar Singh

ACBR, University of Delhi

Delhi-110007, India

Sir! I just saw Ur mail...

Will come to lab today in afternoon and upload the manuscript.

Thanks

On 15 Oct 2019 17:59, Laishram Singh <[lairsingh@gmail.com](mailto:lairsingh@gmail.com)> wrote:

>

>

> ----- Forwarded message -----

> From: APCwaivers <[APCwaivers@springernature.com](mailto:APCwaivers@springernature.com)>

> Date: Tue, Oct 15, 2019, 5:57 PM

> Subject: RE: Request for APC fee waiver

> To: Laishram Singh <[lairsingh@gmail.com](mailto:lairsingh@gmail.com)>

>

>

> Dear Dr. Laishram Rajendrakumar Singh,

>

>

>

>

## [Antioxidants] Manuscript ID: antioxidants-745826 - Submission Received

---

From: Editorial Office (antioxidants@mdpi.com)

To: lairksingh@gmail.com

Cc: lairksingh@gmail.com; god.is.gr8.786@gmail.com; rimp\_1989@yahoo.co.in; pushpakakchingtabam@gmail.com; sharifun15@gmail.com; hamidur2006@gmail.com; saquib.ansari@rajguru.du.ac.in

Date: Friday, 28 February, 2020 at 05:52 pm IST

---

Dear Dr. Singh,

Thank you very much for uploading the following manuscript to the MDPI submission system. One of our editors will be in touch with you soon.

Journal name: Antioxidants

Manuscript ID: antioxidants-745826

Type of manuscript: Review

Title: The moonlighting protein, Prdx6 is a Guardian of lung pathophysiological

Authors: Laishram Rajendrakumar singh \*, Anju Kumari, Rimp\_1989@yahoo.co.in, Pushpa Kakchingtabam, Sharifun Shahnaj, Hamidur Rahaman, Mohd Saquib Ansari

Received: 28 February 2020

E-mails: lairksingh@gmail.com, god.is.gr8.786@gmail.com, rimp\_1989@yahoo.co.in, pushpakakchingtabam@gmail.com, sharifun15@gmail.com, hamidur2006@gmail.com, [saquib.ansari@rajguru.du.ac.in](mailto:saquib.ansari@rajguru.du.ac.in)

Submitted to section: Antioxidant Enzyme Systems,

[https://www.mdpi.com/journal/antioxidants/sections/antioxidant\\_enzyme\\_systems](https://www.mdpi.com/journal/antioxidants/sections/antioxidant_enzyme_systems)

You can follow progress of your manuscript at the following link (login required):

[https://susy.mdpi.com/user/manuscripts/review\\_info/c744cf9da91ad7edef752fb46ce31c12](https://susy.mdpi.com/user/manuscripts/review_info/c744cf9da91ad7edef752fb46ce31c12)

The following points were confirmed during submission:

1. Antioxidants is an open access journal with publishing fees of 1400 CHF for an accepted paper (see <https://www.mdpi.com/about/apc/> for details). This manuscript, if accepted, will be published under an open access Creative Commons CC BY license (<https://creativecommons.org/licenses/by/4.0/>), and I agree to pay the Article Processing Charges as described on the journal webpage (<https://www.mdpi.com/journal/antioxidants/apc>). See <https://www.mdpi.com/about/openaccess> for more information about open access publishing.

Please note that you may be entitled to a discount if you have previously received a discount code or if your institute is participating in the MDPI Institutional Open Access Program (IOAP), for more information see <https://www.mdpi.com/about/ioap>. If you have been granted any other special discounts for your submission, please contact the Antioxidants editorial office.

2. I understand that:

a. If previously published material is reproduced in my manuscript, I will provide proof that I have obtained the necessary copyright permission. (Please refer to the Rights & Permissions website: <https://www.mdpi.com/authors/rights>).

b. My manuscript is submitted on the understanding that it has not been

## Proof correction

---

From: rimpay chowhan (rimpy\_1989@yahoo.co.in)

To: shivani.varmani@gmail.com; r\_narang@yahoo.com

Date: Monday, 2 August, 2021 at 01:25 am IST

---

Greetings,

PFA the doc file prepared for proof corrections. Please give your suggestions.

The parts highlighted in yellow are for our discussion and will be deleted before mailing the file to the editors.

Regards,

--

**Rimpy Kaur Chowhan**



Proofs corrections Aug 02.doc  
77kB



jpcs\_21\_21\_R3.pdf  
1.1MB

---

**Suggest the corrections on applying track changes and return it to me by tomorrow morning.**

2 messages

---

**prashant singh** <psingh@arsd.du.ac.in>

Sat, Jan 8, 2022 at 9:26 AM

To: sh.ritika98@gmail.com, DURGESH RAWAT <durgeshrawat1989@gmail.com>, "Dr. Pankaj Khanna" <pankajkhanna@andc.du.ac.in>, leenakhanna@ipu.ac.in, VINOD KUMAR <kumarv@jnu.ac.in>, "Kamlesh Kumari Ph.D." <biotechnano@gmail.com>, dr.preetichaudhary@yahoo.in, prashant singh <psingh@arsd.du.ac.in>, madhur singh <19madhursingh@gmail.com>

Dear all,

Please find the draft of the manuscript "**An understanding of Coronavirus and *In Silico* Approach to find Promising Candidates to combat the COVID-19: A Systematic Review**".

Please suggest the corrections on applying track changes and return it to me by tomorrow morning.

Best,

Prashant

---

 **Manuscript.docx**

1094K

---

**prashant singh** <psingh@arsd.du.ac.in>

Sat, Jan 8, 2022 at 3:31 PM

To: sh.ritika98@gmail.com, DURGESH RAWAT <durgeshrawat1989@gmail.com>, "Dr. Pankaj Khanna" <pankajkhanna@andc.du.ac.in>, leenakhanna@ipu.ac.in, VINOD KUMAR <kumarv@jnu.ac.in>, "Kamlesh Kumari Ph.D." <biotechnano@gmail.com>, dr.preetichaudhary@yahoo.in, prashant singh <psingh@arsd.du.ac.in>, madhur singh <19madhursingh@gmail.com>

Dear all,

I will share with you the updated file and then make the corrections. I will send the updated manuscript by tonight,

[Quoted text hidden]

--

Professor Prashant Singh, Department of Chemistry, Atma Ram Sanatan Dharma College, University of Delhi, New Delhi-110021



Dr. Pankaj Khanna <pankajkhanna@andc.du.ac.in>

---

## Synthetic Communications Paper

1 message

---

**Dr. Pankaj Khanna** <pankajkhanna@andc.du.ac.in>

Tue, Nov 9, 2021 at 7:57 PM

To: "Dr. Neeti Misra" <neetimisra@andc.du.ac.in>, Leena Khanna <leenakhanna@ipu.ac.in>

Dear Ma'am

Please find the corrected version of the paper.

Pankaj

---

 **SynComm 2021 Final.pdf**  
4438K



Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

---

## DFT Details

---

**Dr. Pooja Bhagat** <poojabhagat@andc.du.ac.in>  
To: parulbhall533@gmail.com

Sun, Oct 16, 2022 at 7:25 PM

Dear Parul,

PFA DFT details.

Thanks & Regards,  
Dr Pooja Bhagat

---

 **Parul\_DFT.zip**  
4436K



Dr. Pooja Bhagat &lt;poojabhagat@andc.du.ac.in&gt;

---

## 13 C NMR

---

Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>  
To: parulbhall533@gmail.com

Tue, Oct 25, 2022 at 7:28 PM

Dera Parul,

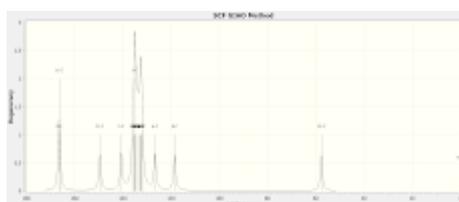
PFA 13 C NMR of base and complexes. In case of Cr, if the same reference is used as used in base and Hg (the reference to be used), we are getting C14 peak before reference. so I am sending you two 13 C NMR for Cr. Please check it from your experimental NMR.

In case of any problem, you can call me.

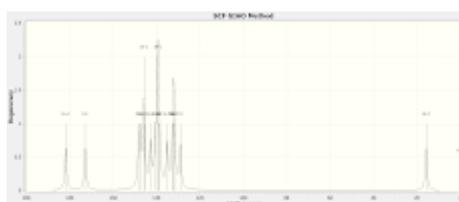
Thanks and Regards  
Dr Pooja Bhagat

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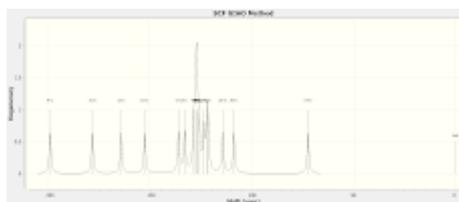
### 4 attachments



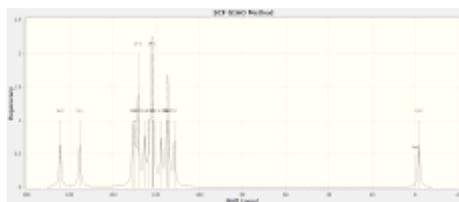
**13 C\_base\_scf\_giao.png**  
4580K



**13 C\_crnmr\_scf\_giao.png**  
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**13 C\_hgnmr\_scf\_giao.png**  
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**13 C\_Different Reference\_crnmr\_scf\_giao.png**  
4580K



Dr. Pooja Bhagat <poojabhagat@andc.du.ac.in>

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**(no subject)**

---

**Parul Bhalla** <parulbhalla533@gmail.com>

Sat, Dec 24, 2022 at 2:30 PM

To: "Dr. Pooja Bhagat" <poojabhagat@andc.du.ac.in>, "Dr. Rajesh Malhotra" <Malhotra\_ksrk@yahoo.co.in>

Respected Sir/Mam  
Copy of Final Manuscript are attached in this mail.

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## Response file and Corrected Text file of MCR paper

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From: kavita singhal (kavita.singhal8@yahoo.co.in)

To: shardap@gmail.com; pragyagahlot@gmail.com

Date: Monday, 28 March, 2022 at 06:06 pm IST

---

Hello mam,

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Thank You

Regards  
Dr. Kavita Mittal  
Department of Chemistry  
Acharya Narendra Dev College  
Govind Puri  
New Delhi-110019



SP.Text. JICS-pg3.docx  
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Dr. Kavita Mittal &lt;kavitamittal@andc.du.ac.in&gt;

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Sharda Pasricha <spasricha@svc.ac.in>  
To: "Dr. Kavita Mittal" <kavitamittal@andc.du.ac.in>

Sat, Jun 18, 2022 at 7:46 PM

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From: &lt;eproofing@springernature.com&gt;

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To: &lt;spasricha@svc.ac.in&gt;

**Article Title :** Multicomponent synthetic strategies and perspectives for synthesis of linked or fused coumarin heterocycles**DOI :** 10.1007/s13738-022-02603-x

JICS-D-22-00030R1

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Dr. Kavita Mittal <kavitamittal@andc.du.ac.in>

---

## Synopen, SO-2022-T0086-SPO

---

**Dr. Kavita Mittal** <kavitamittal@andc.du.ac.in>  
To: pragyagahlot@gmail.com

Wed, Mar 8, 2023 at 10:07 PM

Pls check

Dr. Kavita Mittal  
Assistant Professor  
Department of Chemistry  
Acharya Narendra Dev College  
University of Delhi

[Quoted text hidden]

---

### 2 attachments

 **so-2022-t0086-spot.pdf**  
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818K

# Effect of variation in glancing angle deposition on resistive switching property of $\text{WO}_3$ thin films for RRAM devices

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Shiva Lamichhane,<sup>1</sup> Savita Sharma,<sup>2</sup> Monika Tomar,<sup>3,4</sup>  and Arijit Chowdhuri<sup>5,a)</sup> 

## AFFILIATIONS

<sup>1</sup>Department of Physics and Astrophysics, University of Delhi, Delhi 110007, India

<sup>2</sup>Physics Department, Kalindi College, University of Delhi, Delhi 110008, India

<sup>3</sup>Institute of Eminence, University of Delhi, Delhi 110007, India

<sup>4</sup>Department of Physics, Miranda House, University of Delhi, Delhi 110007, India

<sup>5</sup>Department of Physics, Acharya Narendra Dev College, (University of Delhi), Kalkaji, New Delhi 110019, India

<sup>a)</sup>Author to whom correspondence should be addressed: [arijitchowdhuri@andc.du.ac.in](mailto:arijitchowdhuri@andc.du.ac.in)

## ABSTRACT

In this paper, nanostructured tungsten oxide ( $\text{WO}_3$ ) thin films are deposited using the RF-magnetron sputtering technique in Glancing Angle (GLAD) arrangement. Variation in the structural, morphological, optical, and resistive switching (RS) characteristics of nanostructured  $\text{WO}_3$  film is investigated as a function of GLAD angle ( $60^\circ$ – $80^\circ$ ). Electrical studies on nanostructured  $\text{WO}_3$  films deposited at room temperature are found to exhibit enhanced bipolar resistive-switching properties in metal–insulator–metal pattern [Au/ $\text{WO}_3$ /ITO]. The  $R_{\text{ON}}/R_{\text{OFF}}$  ratio between high and low resistance states was noted to be about 190 besides a minimum set voltage of  $\sim 2.22$  V in the case of the  $\text{WO}_3$  thin film deposited at the  $70^\circ$  glancing angle. A detailed current transport mechanism analysis indicates the existence of ohmic-behavior and trap-assisted space charge limited conduction as the governing mechanisms at the state of low and high applied bias, respectively. Good data-retention characteristics coupled with reproducible and fast RS capabilities obtained with Au/ $\text{WO}_3$ /ITO device structure promise scope of rapid development in future RS-based novel memory device applications.

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## I. INTRODUCTION

Over the last decade, downscaling has assumed importance in the area of memory technology, which is attributable mainly to the limits on physical size of the devices concerned. Conventional Flash Memories with a floating gate structure are soon assumed to attain physical limits as size of the devices is scaled down and on-chip density increased. With regard to overcome this complication, substitute memory technologies have been proposed and explored by researchers worldwide. Due to the property of low power consumption, non-volatile memories (NVM) have gained acceptance as a viable information storage technology to fulfill the ever-increasing demands of mobile/computer/electronics-based products. Even among NVM technologies, many configurations including magnetic RAM (MRAM), ferroelectric RAM (FRAM), dynamic random-access memory (DRAM), resistive switching RAM (RRAM), phase-change RAM (PRAM), etc., have been tested for stability and performance.<sup>1</sup>

Out of the aforementioned non-volatile memory families, RRAM has garnered major attention because the technology advantageously includes a simple structure, low power consumption (despite high density of components), exhibits high endurance and operational speed, is highly compatible with CMOS technology, and proffers the greatest scope for scalability ( $<10$  nm) that holds out a great promise for enhanced size downscaling.<sup>2</sup>

RRAMs are based on the physical phenomenon of Resistive Switching (RS), which is typically characterized by an abrupt change in the value of resistance due to the application of an electric signal either in the form of current or voltage. Materials exhibiting resistive switching are seen to retain consequent resistance states over a long time even after the removal of an externally supplied voltage. Since the same are noted to be present whence repeated over a number of times hence this makes the process reversibly non-volatile. So, RS is considered as a non-volatile and

# Materials Research Express



## PAPER

# A novel method of electrochemically growing ZnO nanorods on graphene oxide as substrate for gas sensing applications

RECEIVED  
20 December 2018

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1 March 2019

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8 April 2019

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17 April 2019

Chetna<sup>1</sup> , Shani Kumar<sup>1,2</sup> , A Garg<sup>2</sup>, A Chowdhuri<sup>3</sup>, A Jain<sup>4</sup> and A Kapoor<sup>1</sup>

<sup>1</sup> Department of Electronic Science, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, India

<sup>2</sup> Department of Electronics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

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**Keywords:** GO, IDE, ZnO nanorods, electrochemical method, gas sensing

## Abstract

The potential of electrochemically deposited ZnO nanorods using graphene oxide (GO) coated inter digital electrode (IDE) as substrate material for gas sensing applications has been reported. For this purpose, GO solution was synthesized via Hummer's method and coated over IDE of aluminium fabricated on the glass plate. Later ZnO nanorods were deposited on it using electrochemical method. For the structural, morphological and elemental analysis, as-grown nanorods were characterized by XRD, FESEM, EDX and Raman spectroscopy. The gas sensing properties of the sensor were analyzed using customized Gas Sensing Test Rig (GSTR). FESEM micrographs illustrated that ZnO nanorods with hexagonal geometry were deposited on GO homogeneously. In XRD spectra, an intense peak along (002) direction clearly indicate that nanorods possess c-axis orientation. In order to investigate the structural integration of the nanorods, Raman and EDX spectra were also recorded, and their results were found to be in consent with that of XRD analysis. Sensing results revealed that both ZnO nanorods and GO are responsible for change in resistivity of sensor towards the hydrogen gas. Our study indicates that such electrochemically grown ZnO nanorods show prospective for the fabrication of simple and non-hazardous, room temperature gas sensors.

## 1. Introduction

Graphene has jumped to the forefront of the condensed matter research in the past few years as a high quality two dimensional electron system with intriguing scientific and practical applications [1]. In recent times, Graphene Oxide (GO), which is a precursor of graphene, has been of interest for potentially cost-effective mass production of graphene based materials [2]. This is accredited to oxygen functional groups on its basal planes and edges, such as hydroxyl, epoxy, carbonyl and carboxylic acid groups [3–5]. The mechanical, electrical, thermal and optical properties of GO are also affected by these groups and can be customized through chemical modifications [6, 7].

Now-a-days, gas sensors are of paramount importance because of their application in diverse fields such as industry, security, environment, defence, medical etc. Of late GO has become popular and is extensively used because of its surface functionalization property that leads to its gas and vapor sensing characteristics. In addition to this, GO has high surface to volume ratio, therefore provides additional adsorption sites and hence can detect even a single atom of gas molecules [8]. Mainly, the high carrier mobility of graphene related materials at room temperature make them an ideal choice for room temperature based gas sensing [9]. Charge transfer mechanism is the fundamental principle behind GO based gas sensors in which charges are transferred from adsorbate molecules to graphene leading to change in its resistivity [10, 11]. Whereas GO in itself is a well-known sensing material, it can be made more selective and sensitive to analyte gases by hybridization with metal oxides [12].

Amongst various metal oxides, Zinc Oxide (ZnO), an n-type semiconductor oxide, has been reported as the most promising contender for gas sensing applications owing to its distinguishing optical, electrical and

# Materials Research Express



## PAPER

# Structural and optical properties of electrochemically deposited ZnO nanorods by using graphene oxide and ITO as substrate material: a comparative study

RECEIVED  
10 May 2018

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21 June 2018

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2 August 2018

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15 August 2018

Chetna<sup>1</sup> , Shani Kumar<sup>1,2</sup> , A Garg<sup>2</sup>, A Chowdhuri<sup>3</sup>, A Jain<sup>4</sup> and A Kapoor<sup>1</sup>

<sup>1</sup> Department of Electronic Science, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, India

<sup>2</sup> Department of Electronics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>3</sup> Department of Physics, Acharya Narendra Dev College, University of Delhi, Kalkaji, New Delhi-110019, India

<sup>4</sup> Department of Electronics, Rajdhani College, University of Delhi, Raja Garden, New Delhi-110015, India

E-mail: [chetna2288@gmail.com](mailto:chetna2288@gmail.com)

**Keywords:** ZnO nanorods, electrochemical method, graphene oxide

## Abstract

The present work reports the comparative study of structural and optical properties of ZnO Nanorods grown on Graphene Oxide (GO) and ITO. For this purpose, GO has been successfully synthesized via Hummer's method while electrochemical method has been used for the synthesis of ZnO nanorods. The structural and optical properties of the as-grown samples were studied using FESEM, EDX, XRD, FTIR and Raman spectroscopy. An improvement in density of ZnO nanorods with hexagonal structure is indicated by the FESEM micrographs. XRD analysis confirms that crystal structure of ZnO nanorods is not significantly disturbed by GO, in addition a reduction in lattice strain has been observed for the samples grown on GO. Raman and FTIR spectroscopy has also been performed to probe the structural integration of ZnO crystal structure and the results are in consensus with that of XRD analysis. The study indicates the potential application of GO as substrate material for ZnO nanorods based devices.

## 1. Introduction

Graphene is a flat monolayer of carbon atoms, densely packed into a two-dimensional (2D) honeycomb lattice. Contemporary graphitic materials of different dimensionality have Graphene as a fundamental building block [1]. Recently, a sister material of Graphene -namely Graphene Oxide (GO) has gained the attention of research community considerably. This is attributed to its unique mechanical, electrical, thermal and optical properties [2] which can be easily tailored through chemical functionalization [3]. GO offers inexpensive and simple techniques of production, increased solubility and high scalability [4] for device fabrication. Graphene oxide is heavily oxygenated by hydroxyl and epoxide functional groups on their basal planes, flanked by carbonyl and carboxyl groups at the edges of the sheet [5]. These functional groups act as nucleation centres to anchor active materials on the surface of GO [6]. In addition, GO sheets have a large surface area which makes them potential support materials to load functional nanomaterials [2]. Hence, various nanomaterials can be hybridized with GO sheets to create graphene-based derivatives with enhanced properties. These hybrids find a great deal of application in areas such as photocatalysts [7], biosensors [8], batteries [9], supercapacitors [10], bio-imaging [11] etc.

Since last few decades, ZnO nanorods have also, attracted a significant research interest owing to its quasi 1D structure, enhanced charge injection efficiency and improved emission [12]. Solution based approaches for synthesis of ZnO nanorods are popular among the researchers due to their high-growth-rate, low-temperature requirement and simplicity [13–15]. Among which electrochemical method is most convenient as it is non-hazardous and does not require seeded substrate [16].

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436 of 2,212

Submission of Chapter for book entitled "Advance Research in Physical & Chemical Sciences and Engineering (With ISBN & DOI Number)" External RESEARCH x

Prof. Rachna Joshi <rachnajoshi@andc.du.ac.in> Wed, Dec 7, 2022, 6:03 AM ☆ ↶ ⋮  
to mkespublication, Nupur, me

To,  
Dr. S. K. Singh  
Publisher  
MKSES Publication

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Prof. Rachna Joshi  
Acharya Narendra Dev College  
University of Delhi

\*\*\*\*\*

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As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions

Dr. Rachna Joshi <rachnajoshi@andc.du.ac.in>  
to Man, Pranav, me

Dear Pranav,  
As discussed, I am attaching the thermodynamic functions for the relevance of Plasmas. So I am attaching version 5 after You can search

from: **Dr. Rachna Joshi** <rachnajoshi@andc.du.ac.in>  
to: "Prof. Man Mohan" <drmanmohan.05@gmail.com>, Pranav Kumar <pranavmoon@gmail.com>, "Dr. Rachna Joshi" <rachnajoshi@andc.du.ac.in>  
date: Nov 29, 2021, 8:02 AM  
subject: As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions  
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ir research group, where they have calculated thermodynamic quantities. I am sending a few papers of relevance including one by narendra and Arun. I will also try to arrange for more papers and send them to you.

Rachna Joshi  
\*\*\*\*\*  
Dr. Rachna Joshi  
Associate Profe  
Department of Physics  
Acharya Narendra Dev College  
University of Delhi  
Mob: 9818533037  
\*\*\*\*\*

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to Man, Pranav, me

Dear Pranav,  
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from: **Dr. Rachna Joshi** <rachnajoshi@andc.du.ac.in>  
to: "Prof. Man Mohan" <drmanmohan.05@gmail.com>, Pranav Kumar <pranavmoon@gmail.com>, "Dr. Rachna Joshi" <rachnajoshi@andc.du.ac.in>  
date: Nov 29, 2021, 8:02 AM  
subject: As discussed, Research paper 3 : version 4 and graphs for thermodynamic functions  
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g the explanation / description of graphs of introduction section also, for showing the e are planning to send the paper to Physics of / ion is also considered to be a confined system. mark your changes in a different colour and send

ir research group, where they have calculated thermodynamic quantities. I am sending a few papers of relevance including one by narendra and Arun. I will also try to arrange for more papers and send them to you.

Rachna Joshi  
\*\*\*\*\*  
Dr. Rachna Joshi  
Associate Profe  
Department of Physics  
Acharya Narendra Dev College  
University of Delhi  
Mob: 9818533037  
\*\*\*\*\*

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Dr. Sarita Kumar <saritakumar@andc.du.ac.in>

---

## Thanks for your feedback

2 messages

---

**Dr. G. Karthikeyan** <gkarthikeyan@amity.edu>

Fri, Jun 10, 2022 at 2:04 PM

To: "saritakumar@andc.du.ac.in" <saritakumar@andc.du.ac.in>

Dear Dr. Saritakumar,

I Sincerely appreciate your time and efforts to train our students from Amity Institute of Virology and Immunology. My apologies for late response, we are busy with Examinations.

God Bless you

Regards

Dr. G. Karthikeyan

---

**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>

Mon, Jun 13, 2022 at 8:46 AM

To: "Dr. G. Karthikeyan" <gkarthikeyan@amity.edu>

Dear Dr. Karthikeyan

Thank you so much for the opportunity. Looking forward to more collaborations.

Best Regards

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Acharya Narendra Dev College

(University of Delhi)

+91-98-103-09912



Dr. Sarita Kumar &lt;saritakumar@andc.du.ac.in&gt;

**Fw: Naphthol manuscript**

2 messages

Dr SN Sinha &lt;sukeshnr\_sinha@yahoo.com&gt;

Thu, May 26, 2022 at 5:25 PM

Reply-To: Dr SN Sinha &lt;sukeshnr\_sinha@yahoo.com&gt;

To: "saritakumar@andc.du.ac.in" &lt;saritakumar@andc.du.ac.in&gt;

madam

here i am enclosing the manuscript. please go through and correct english and give your consent as a author for publication

Dr. S.N.Sinha, B.Sc (Hon;s); M.S; Ph.D, M.B.A;  
Scientist- F & HOD - Food Safety Division  
Shakuntala Amirchand Awardee, ICMR International Fellow, DHR International Fellow; CDC -  
USA & Cincinnati University - Visiting Scientist,  
President of Scientific Association, NINSA (ICMR)  
National Institute of Nutrition  
(Indian Council of Medical Research)  
Jamai-Osmania PO, Hyderabad-500 007, AP.

Phone:91-40- 27197405, Fax:91-40- 27019074 Mobile: 7032426802

----- Forwarded Message -----

**From:** RamaKrishna Ungarala <uv.ramakrishna@gmail.com>**To:** Dr. S N Sinha <sukeshnr\_sinha@yahoo.com>**Sent:** Thursday, May 26, 2022, 03:48:39 PM GMT+5:30**Subject:** Naphthol manuscript

Dear Sir,

PFA

--

**Thanks and Regards,**

U.V. Rama Krishna, M.Pharmacy

Senior Research Fellow,

Food Safety Division,

ICMR - National Institute of Nutrition

Ph.no: +91 9700075651



Covid Precautions

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**Dr. Sarita Kumar** <saritakumar@andc.du.ac.in>  
To: Dr SN Sinha <sukeshnr\_sinha@yahoo.com>

Fri, May 27, 2022 at 8:00 AM

Respected Sir

PFA the MS with a few changes and corrections, if okay with you. If anything else needs to be done, please let me know.

Further, I, hereby, give my consent to be a part of this work. I really appreciate and thank you for giving me this opportunity.

Regards

[Quoted text hidden]

--

सरिता कुमार

Sarita Kumar

Professor

Department of Zoology

Ashoka Narendra Dev College

(University of Delhi)

+91-98-103-09912

**Manuscript draft\_Rev.docx**

269K

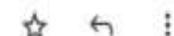
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**jasmine purushothaman** <jasbose@gmail.com>

to me ▾

Tue, Mar 12, 2019, 7:01PM



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

From: **jasmine purushothaman** <jasbose@gmail.com>

Date: Thu, Feb 21, 2019 at 5:20 PM

Subject: AICOPTAX format

To: Prabir Bandyopadhyay <prabir0432@hotmail.com>

Dear Seema,

I am sending the AICOPTAX FORMAT for your kind perusal. This time they have not given any prescribed format. They asked to check the link of MoEF website and do . In that research grants funding guidelines is there. That also I am attaching for your perusal.

Thanking you

Sincerely

Jasmine

Dr.(Ms)Jasmine.P

Scientist D

Zoological Survey of India

Ministry of Environment Forests & Climate Change (MoEF& CC)

Kolkata

Telephone : +91-9874983181

Mobile:09447726773



**Renu Gupta**  
pfa

Tue, Mar 20, 2018, 12:39 AM



**Komal Kamra** <komalkamra@gmail.com>  
to Renu, Seema, Ravi

Tue, Mar 20, 2018, 8:38 AM

I have forwarded to Kiran who is a PhD student with Manjari and has been following with ICMR so that she can find out what to do.

I suggest Renu to sign all docs but provide the bank mandate form etc of Khalsa. I can send hard copies of the mandate form signed by Principal and bank manager and cross cheques and send via Dr Sodhi who is Kiran father.

We can attach the **MOU** and a cover note saying that three colleges are co organising the event and Khalsa is the finance partner.

Pl advise  
Komal

Komal Kamra  
Associate Professor of Zoology  
SGTB Khalsa College  
University of Delhi  
Delhi 110007  
[komalkamra@gmail.com](mailto:komalkamra@gmail.com)



**Komal Kamra** <komalkamra@gmail.com>  
to Renu, Seema, Ravi

Tue, Mar 20, 2018, 12:19 PM

Please send all papers in appropriate copies signed by you.

Subj: [REDACTED]

Greetings from the

MAA  
S&T Cell/Gen

2. Please refer to our correspondence with you in connection with the [REDACTED]

As we had informed you, M/s Paganadula Balaji will reach Delhi airport on 18th January at 2230 hrs. from Moscow. Fr No SU-232. Kindly make necessary arrangements to receive her at the Delhi airport and transportation to DU, and also for her accommodation in your Guest House during the Fellowship period. In case guest house facility is not available, a suitable accommodation may be arranged for her in the vicinity of your College at a reasonable cost.

3. Regarding the financial commitment to Acharya Narendra Dev College, New Delhi as the host institution for this Fellowship programme, we are pleased to inform you that the total amount as per following break-up will be released to your university advance.

- a) Overhead charges Rs. 30,000/- (@Rs.5,000/- per month for 6 months)
- b) A one-time grant of maximum INR 30,000 for research contingencies and domestic travel for airport transfers and visiting research institutions, attending scientific events and field-trips within India
- c) The expenditure on domestic travel will be disbursed to the Fellow on actual basis.

c) A consolidated Fellowship amount of Rs.2,10,000/- @INR 35,000 per month for 6 months (non-taxable) for accommodation, meals and other miscellaneous expenses of the Fellow - to be disbursed to the scholar on a monthly basis.

For this purpose, you are requested to send us the bank particulars (i.e. i) name of the account holder, ii) account number, iii) name of the bank and branch name and address, and iv) IFSC Code) of your University to which the amount can be transferred.

Your organization will return to [REDACTED] enter the unspent balance with your institute, if any, including that arising out from early departure of the fellow due to any unforeseen reasons, along with a Statement of Expenditure and Utilisation Certificate after the completion of the Fellowship period.

4. You are also requested to ensure that the foreign scientist affiliated with you under KIT-DCS scheme gets herself registered with the nearest Foreign Regional Registration Office (FRRO) as the same is mandatory for the foreigners as per the requirements of the Government of India. We will appreciate it to securing a copy each of the Indian visa as well as the FRRO endorsement certificate in respect of the foreign scientist after completion of all formalities, for our records.

With kind regards,

Yours sincerely,

M. Shanmugasubramanian

Offg. M. Shanmugasubramanian

Senior Export & Administration Officer

Centre for Science & Technology of Non-Aligned and Other Developing Countries

(MAN S&T Cell)

*Manjika Kumar*

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