

**3.7.1 Number of functional MoUs /linkage 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.**

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Year of signing MoU	Name of the organization with whom MOU/Collaboration being signed	Duration	Purpose of MOU/Collaboration	List the actual activities under each MOU year-wise	Date of the activity conducted	Page No.
2024	CDAC and DTU	3 Years	Industrial Academic	MoU signed recently and future activities are planned. The activities are in process.	31-Jul-24	1-16
2024	Central Electricity Authority (CEA)	10 Years	Industrial Academic	MoU signed recently and future activities are planned. The activities are in process.	18-Jul-24	17-23
2024	N.C. Kukreja and Santosh Kukreja Scholarship	5 Years	Income based scholarship	02 Student Scholarship given to first year students based on merit cum means every year in the University Convocation.	21-Jun-24	24
2024	Naveen Kukreja Scholarship	5 Years	Income based scholarship	02 Student Scholarship given to first year students based on merit cum means every year in the University Convocation.	21-Jun-24	25

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2024	Wing Commander Adarsh Bal Scholarship	Ongoing	Income based scholarship	01 Student Scholarship given to first year students based on merit cum means criteria for Electrical Engineering, Electronics Communication, and CSE Department every year in the University Convocation. 2024	3-May-24	26
2023	Michael and Susan Dell Technologies	3 Years	Scholarship and Financial Payouts	Provided Dell Aspire Scholarship with low annual income.	8-Sep-23	27-46
2023	National Institute of Electronics and Information Technology (NIELIT)	3 Years	Industrial Academic	2 Students	30-Aug-23	47-58
2023	Indian Chemical Council (ICC)	5 Years	Industrial Academic	2 Students	28-Jul-23	59-61
2023	ASIJA Memorial Scholarship	5 Years	Merit cum Means Scholarship	1 student per year from 1st to Vth semester of Electronics and Communication Engineering. Scholarship is disbursed. Only scholarship above 8.0 will be eligible for this scholarship.	1-Mar-23	62

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2023	Dr. C.S. Arora and Sushma Arora Scholarship	Ongoing	B.Tech. 1st year Girl student with minimum annual income	Awarded to 01 girl (Rs. 60,000/-) student of B.Tech. 1st Year whose parents annual income is minimum out of all the applicants. In case of tie, Girl student with highest JEE score may be awarded the scholarship.	10-Feb-23	63
2023	Jagjit and Paramjit Ahuja Scholarship	Ongoing	Scholarship based on academic performance	Rs. 60,000/- will be awarded to a IIInd Year student of Civil Engineering discipline based on his/her performance from 1st to IIInd Semester and family income less than 5 Lacs.	9-Feb-23	64
2023	Vijay Birla Gold Medal	10 Years	Merit basis scholarship	Rs. 40,000/- and medal awarded to 01 B.Tech. final year student of Mechanical Engineering based on his/her performance from Ist to VIth semester.	3-Feb-23	65
2022	DTU Innovation and Incubation Foundation (DTU IIF)	5 Years	Industrial Academic	2 Students	15-Dec-22	66-67

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2022	HBSS Connect Corps. US	3 Years	Research and Capacity Building in the field of ITS and Electric Vehicle, Internship	5-10 students	19-Nov-22	68-75
2022	Paytm	3 Years	Set up of "Lab on Wheels"	10 students	28-Oct-22	76-86
2022	Sudha Kotwal Educational Charitable Trust	5 Years	B.Tech. IInd year Students of all branches are eligible. Scholarship awarded on merit cum means. Annual family income and CGPA upto 2nd sem considered.	01 Student	26-Sep-22	87-88
2022	Samsung India Electronics Private Limited	3 Years	Industrial Academic	Ph.D and M.Tech. students completed research projects under this MoU in research lab>	7-Jul-22	89-94
2022	Samsung India Electronics Private Limited	5 Years	Industrial Academic	Projects completed under this MoU with respect to hardware devices.	1-Apr-22	95-101
2022	Lithion Power Private Limited	5 Years	Industrial Academic	2 Students Per Year	14-Feb-22	102-105

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2022	Startup Board Business Service Pvt. Ltd.	5 Years	TSB will work as knowledge and Resource Partner (KRP) to DTUIIF in their entrepreneurial programs, bringing in best industry practices, programs and connections. TSB and DTU IIF can prepare and submit joint proposals to enhance the ability	TSB Boardroom Accelerator Program for DTU-IIF Cohort	14.06.2022 to 23.09.2022	106-107
2022	NetEdge Computing Solutions Pvt. Ltd.	3 Years	The scope of the MoU covers supporting the startups incubated at DTU-IIF and NetEdge and its incubator (Netedge Incubator) by extending the facilities of both the incubators to the startups located in either of these incubators.	Outreach Program under Nidhi - i-TBI Project (Workshop on Women Empowerment )	06.03.202405.03.2024 2427.02.202423.02.2024	108-109

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2022	NASSCOM Foundation	3 Years	To create a frame work to maximize activation amongst students and give them an opportunity to understand and study aspects of the emerging technologies through on-line and hands-on learning and gain competitive strength to address social challenges more effectively through technology.	Cohort 1 Cohort 2	Cohort 1 in year 2020-22 Cohort 2 in year 2022-24 2022	110-112
2022	Fun2do Labs Pvt. Ltd.	2 Years	Both parties will find mutual synergies and promote joint startup events, workshops and mentoring sessions for startups within and outside second party.	Master Class Program	22.08.2024 to 01.09.2024	113-114

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2021	Rekhi Foundation	5 Years	Establishing and managing "Centre of Happiness", project coordination, student management, finances, curriculum of happiness to DTU for delivering to students, promote "Centre of Happiness" at major platforms, Internship	5 to10 students	12-Nov-21	115-117
2021	Mr. and Mrs. Laxmi and Raj Mrig Scholarship	5 Years	Merit cum means scholarship	02 B.Tech. Female Students (from IInd to final year) (preferably from Electrical PowerSystem/Elect. Engg.) are eligible. Merit cum means. Annual family income and CGPA upto previous year disbursed this scholarship.	28-Aug-21	118
2021	Central Pulp and Paper Research Institute (CPPRI)	3 Years	Industrial Academic	100 Students	20-Jan-21	119-125

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2020	Riga Technical University, Riga, Latvia	5 Years	Semester Away Programme	2 Students	27-Oct-20	126-127
2020	Passi Family Scholarship	Ongoing	Merit cum means scholarship	02 (One male and one female) from 3rd year students are eligible for this scholarship. B.Tech . IIIrd Students of all branches. Merit cum means. Annual family income and CGPA upto 4th sem considered and Atleast one of the scholarship will be awarded to student of core Engineering branch i.e. non computer science branch.	26-Aug-20	128
2022	Controller General of Patents, Designs and Trademarks (CGPDTM)	1 Year	Technical and Evaluation report of SIC layout design stored in the GDS-I format of SICLDR applications	10 students	27-Apr-20	129-192
2020	National Formosa University (NFU), Taiwan	5 Years	Semester Away Programme	2 Students	15-Mar-20	193-194

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2020	National Disaster Management Authority (NDMA) and Malviya National Institute of Technology Jaipur	2 Years	Technology Transfer	2 Students	12-Mar-20	195-201
2020	Mapua University, Philippines	5 Years	Student & Faculty Exchange	2 Students	28-Feb-20	202-203
2020	CSIR-Central Scientific Instruments Organization	5 Years	Staff Exchange, Faculty Exchange, and Exchange of academic materials	2 Students per year	11-Feb-20	204-210
2020	La Trobe University, Victoria, Australia	5 Years	Student Mobility	2 Students	7-Feb-20	211-213
2020	Universitas Mercu Buana, Jakarta, Indonesia	5 Years	Knowledge Sharing & Online Lectures	2 Students	29-Jan-20	214-215
2019	Nanjing University of Aeronautics & Astronautics, China	5 Years	Student & Faculty Exchange	2 Students	23-Dec-19	216-218
2019	University of Transport Technology	5 Years	Knowledge Sharing & Online Lectures	2 Students	30-Oct-19	219-220

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	, Vietnam					
2019	Balitar Islamic University, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	221-222
2019	Dr. Soetomo University, Surabaya, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	223-225
2019	Mandala College of Economics, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	226-227
2019	PGRI Adi Buana, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	228-229
2019	STIE Wilwatikta, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	230-231
2019	STIKI Malang, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	232-233
2019	STTM, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	234-235
2019	Universitas Wisnuwardhana Malang, East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	236-237

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2019	University of Kanjuruhan , East Java, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	238-239
2019	University of Pesantren Tinggi Darul'Ulum , Jombang Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	240-242
2019	Widya Kartika University, Surabaya, Indonesia	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	243-245
2019	PGRI, Madiun	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	246-247
2019	STT Atlas Nusantara, Malang	5 Years	Student & Faculty Exchange	2 Students	25-Sep-19	248-250
2019	Adani Defence Systems & Technologies Limited and Flaire Unmanned Systems Private Limited	3 Years	Industrial Academic	2 Students	19-Sep-19	251-259

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2019	ADSTL(Mr. Madhan Kumar K, & Saorodeep Bose) , DTU (Prof. Samsher & Prof. N.S Raghava) , FLAIRE (Mr. Harsh Panwar & Pranjal Shiva)	5 Years	Industrial Academic	2 Students	16-Sep-19	260-268
2019	EPF, ÉCOLE D'INGÉNIEUR – E – S, France	5 Years	Internship, Semester Away Programme & Invert Mobility	4 Students completed Graduation from India under this MoU.	18-Feb-19	269-270
2019	Samsung India Electronics Private Limited	5 Years	Industrial Academic	Samsung Research lab established under this MoU at DTU.	21-Jan-19	271-276
2019	Technical University of Crete, Chania, Crete, Greece	5 Years	Knowledge Sharing & Online Lectures	2 Students	10-Jan-19	277-279

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**The proof of supporting documents is provided in this PDF.**



महाराष्ट्र MAHARASHTRA

2023

2024

CP 334348

दस्ताचा प्रकार

दस्त नोंदणी करणार आहवात का ?

नोंदणी होणार असल्यास दु. निबंधक कार्यालयाचे नाव

मिळकतीचे वर्णन

मोठ्याला रक्कम

मुद्रांक विधित घेणाऱ्याचे नाव व पत्ता

दस्ताचा पक्षकाराचे नाव व पत्ता

हस्त लिपिचे नाव व पत्ता

मुद्रांक

मुद्रांक

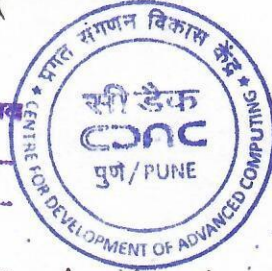
मुद्रांक

पंजीनामा

श्री. गणकुमार शिंदे

वसुधा क. 2024

ऑफ रोड, खडकी, तुळ-२०



वरिष्ठ अधिकारी  
Pashon Pine  
19 JUL 2024  
प्रथम मुद्रांक लिपीक  
कोषागार पुणे करिता

### MEMORANDUM OF AGREEMENT

THIS MEMORANDUM OF AGREEMENT (THIS "MOA") IS MADE AND EXECUTED ON THIS  
31<sup>st</sup> DAY OF THE MONTH OF July TWO THOUSAND TWENTY FOUR  
AT New Delhi.



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

**BY AND BETWEEN**

**CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING**, a Scientific Society of the Ministry of Electronics and Information Technology, Government of India, registered under the Societies Registration Act 1860 and the Bombay Public Trusts Act, 1950 and having its registered address at Savitribai Phule Pune University Campus, Ganeshkhind, Pune 411007 (hereinafter referred to as '**C-DAC**') through the Registrar (which expression unless repugnant to the context of meaning thereof be deemed to include its heirs, executors, administrators and assigns), of the ONE PART.

**AND**

**DELHI TECHNOLOGICAL UNIVERSITY (DTU)** registered under Act 6 of 2009, Govt. of NCT of Delhi and having its registered address at Shahbad Daulatpur, Main Bawana Road, Delhi-110042, India through Prof. Madhusudan Singh, Registrar, DTU (hereinafter referred to as '**DTU**', which expression unless repugnant to the context of meaning thereof be deemed to include its heirs, executors, administrators and assigns), of the OTHER PART,

'C-DAC' and 'DTU' are hereinafter collectively referred to as "Parties" and individually as "Party".

**WHEREAS**, C-DAC is a national initiative of the Government of India. C-DAC has been engaged in research and development activities in multiple areas of ICTE, more specifically in the areas of High Performance Computing, Artificial Intelligence and Natural Language Processing, Cloud and Grid Computing and their applications; Multi-lingual computing and its applications; Professional Electronics and its applications; Software Technologies including turnkey solutions related to Governance, Processes, Societal Applications, Telecom, Finance, Power, Health, Agriculture etc.; Cyber Security including data security and cyber forensics, and in Education and Training in Electronics/Computer fields;



**AND WHEREAS** Delhi Technological University is a reputed Institute of learning in India as well as Abroad. "75 years of Tradition of excellence in Engineering & Technology Education,

Research and Innovations" Delhi College of Engineering, (initially established with the name - Delhi Polytechnic) came into existence in the year 1941 to cater to the needs of Indian Industries for trained technical manpower with practical experience and sound theoretical knowledge. The institution was set up at historic Kashmere Gate campus as a follow up of the Wood and Abott Committee of 1938. It comprised of a multi-disciplinary and multi-level institution offering wide ranging programmes in engineering, technology, arts and sculpture, architecture, pharmacy and commerce. The national diploma awarded by the institution was recognized as equivalent to degree level for the purposes of employment. In 1952, the college was affiliated with University of Delhi and started formal Degree level Programmes. The department of Architecture later became the School of Planning and Architecture, now a Deemed University and Institution of National importance. The department of Arts and Sculpture became College of Arts and the departments of Chemical Technology and Textile Technology were shifted out en-block to mark beginning of the IIT Delhi at its new campus at Hauz Khas. The department of commerce was later abolished and the faculty of management studies of the University of Delhi was established by Prof. A Das Gupta, of DCE. Delhi College of Engineering is thus the mother institution of a number of national projects including IITD, SPA, College of Arts and even the famous FMS. Till 1962, the college was under the direct control of Ministry of Education, Government of India. In 1963, the administration of the college was handed over to Delhi Administration. Delhi College of Engineering was under the administrative control of Department of Technical Education & Training, Govt. of NCT of Delhi.

For academic purposes, the college was affiliated to University of Delhi since 1952. From July 2009, the DCE has become Delhi Technological University vide Delhi Act 6 of 2009.

The erstwhile DCE has functioned from its historic Kashmere Gate Campus for almost 55 years and has shifted in 1996 to its lush green sprawling campus of 164 Acres at Bawana Road, adjoining Sector-17, Rohini, Delhi- 42. Its shifting to new campus has added the dimension of research and caused innovations in plenty, which has received high national and international acclaim. As a Delhi Technological University, it has the desired autonomy to excel and shape itself as a world class Technological University.



**AND WHEREAS,** for past few years both C-DAC and DTU have been enjoying mutually beneficial and rewarding interaction and relationship in different areas of common interest, like submission of joint project to funding agencies, recruitment of candidates by C-DAC, contributing towards National Supercomputing Mission, to name a few;

**AND WHEREAS,** Computer Technologies in general have become all pervasive and High-Performance Computing (HPC), Artificial Intelligence, Big Data Analytics, in particular have applications in multiple fields of science and engineering such as Physics, Chemistry, Biology, Electronics, Health/Medical, Agriculture etc.;

**AND WHEREAS,** the National Supercomputing Mission (NSM) has the Expert Group on Human Resources Development (NSM-EG-HRD) has one of its constituent, which has been mandated with task of development of 20,000 HPC aware manpower in the country.

**AND WHEREAS,** NSM-EG-HRD proposed the concept of HPC Nodal Centres (HPCNC) at various institutes in the country, for the purpose of achieving its goal of training HPC aware manpower in the country.

**AND THEREFORE, NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERE UNTO AS FOLLOWS:**

#### **1. PURPOSE / SCOPE:**

- 1.1 This MoA broadly defines the mode and methodology of operations and spells out the roles and responsibilities of the Parties hereto.
- 1.2 This MoA being a broad base for defining the operational framework, some of the activities could be brought under the purview of specifically drawn-up projects and specific MoA/Agreement containing specific Statement of Work, in writing, signed between the Parties prior to the commencement of the work on case to case basis, defining the roles and responsibilities, scope of work, time



frame, financials, intellectual property rights, commercial terms, etc., of the Parties.

### 1.3 Activities of the HPC Nodal centres:

- a. The overall objective of the HPC nodal centers would act as an enabler for undertaking activities which meet the goals set by NSM-EG-HRD, from time to time.
- b. Bring together researchers, industry professionals, collaborators and students working in the field of HPC, Artificial Intelligence (AI) and Data Science.
- c. Conduct training activities including but not limited to activities mentioned under sub-clause (d) and (e) below.
- d. Faculty development in areas of HPC, Artificial Intelligence and Data Science.
- e. Education and training activities for students with the curriculum of all the courses delivered laying emphasis on practical aspects.
- f. Spread awareness about HPC and encourage use of HPC.
- g. Generate content which can be used from a MOOC platform.
- h. Conduct HPC workshops targeted towards specific audience.
- i. Conduct workshops on a thematic area of HPC, AI and Data Science.
- j. Update Curriculum.
- k. Hosting resources for use of HPC community.
- l. Collaborate with appropriate National and International agencies for meeting the goals set for HPCNC.
- m. Any other areas mutually agreed between the Parties, in writing, from time to time during the Term of this MoA.



**2. ROLES AND RESPONSIBILITIES OF C-DAC:**

- 2.1. Assist DTU in setting up of the lab facility to be used for conducting courses.
- 2.2. Propose specific R&D initiatives for joint collaboration.
- 2.3. Assist in designing customized courses.
- 2.4. Subject to availability of NSM funds, provide required funds for running of the HPCNC at DTU.

**3. ROLES AND RESPONSIBILITIES OF DTU :**

- 3.1. Allocate a facility for setting up of HPCNC.
- 3.2. Depute staff as indicated in signed document by both Parties prior to starting of work
- 3.3. Extend facilities like Security, housekeeping etc. for smooth functioning of HPCNC
- 3.4. The hardware, software and other material provided under this MoA being property of funding agency MeitY/DST, the same to be disposed off on reaching end of life, as per policy of the funding agency.

**4. JOINT RESPONSIBILITIES OF C-DAC AND DTU:**

The Parties agree to:

- 4.1. work towards achieving goals set for the HPCNC;
- 4.2. Nominate Coordinators as nodal contacts to represent the Parties and promote interface so as to plan, implement, monitor and review the schedules of various activities of HPCNC from time to time;
- 4.3. Set up mutually decided methodology in writing, for day to day functioning of the HPCNC and mechanism to monitor the same
- 4.4. Ensure the safety of the personnel and material whenever placed at either end by the other Party;
- 4.5. Not to use/sell/license/rent technologies/resources/material/solutions or other intellectual property of any description of either Party to/for any third party without prior written mutual consent of the Party which owns it;



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- 4.6. Avoid deceptive, misleading or unethical practices that are or might be detrimental to third party or public at large;
- 4.7. Advertising and distribution of publicity matter subject to the specific prior approval in writing of the other Party;
- 4.8. Inform other Party in writing any material change affecting that particular Party hereunto;
- 4.9. Attend all the complaints received from other Party, promptly and extend help in whatsoever manner to complete the creation of the work, if required;
- 4.10. Respect Intellectual property of each other and obtain prior written consent before use/copy/distribution, etc.
- 4.11. Not to cause or permit anything which may damage/dilute/affect or endanger the Intellectual Property or title of other Party and to the extent reasonably possible to not to assist or allow others to do so;
- 4.12. To notify other Party of suspected infringement of Intellectual Property owned by him;
- 4.13. To strive for high degree of quality, with parsimony of time for accomplishment of developments and projects;
- 4.14. To strive for each Party completing its tasks and responsibilities allocated to each Party herein correctly and in time where work of other Party is dependent upon the timely and correct completion of the tasks and responsibilities of such other Party.

## 5. FINANCIAL ASPECTS:

No financial commitment from either party is assumed at the time of signing this MoA. However, a formal approval / acceptance of the works or services as defined in purpose / scope of MoA under clause 1 will be accorded through signed documents including but not limited to Statement of Works by both the Parties prior to starting



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/commencement of any work under this MoA. The financial commitments will form a part of such formal approval and acceptance documents duly signed by both parties.

## 6. CONFIDENTIALITY AND NON-DISCLOSURE:

- 6.1. Any software/hardware material, product specifications, designs, financial information, documents, training material, courseware, syllabus, schedule etc. shall be deemed to be in private domain and it shall not be made public or shared with, or disclosed to, or divulged, or leaked to, any third Party, directly or indirectly in any manner whatsoever and howsoever, without the prior written consent of the party which owns. The material shall be treated as confidential for a minimum period of 5 ("five") years after this MoA comes to an end or as agreed from time to time in writing.
- 6.2. In the event of any of the parties becoming legally compelled to disclose any Confidential Information, if possible and permissible under law, such Party shall give sufficient notice to the Party which owns, so as to enable the Party which owns to seek a timely protective order or any other appropriate relief to prevent, minimize, limit, or restrict the disclosure of such Confidential Information. The other Party shall extend all possible cooperation to the party which owns in its attempts to oppose, prevent, limit, or minimize such disclosure. If such an order or other relief cannot be obtained, the Party being required to make such a disclosure shall make the disclosure of the Confidential Information only to the extent that is legally required of it and no further.

## 7. TRADEMARKS/ TRADE NAME / INTELLECTUAL PROPERTY RIGHTS:

- 7.1. Parties acknowledge that the Intellectual Property Rights, of any form or description including trademarks, tradenames, patent, copyright, trade secret, domain name, or any other intellectual property of any supplies made by that particular Party or Party or on his behalf, shall belong to and exclusively owned by that particular Party.



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Delhi Technological University  
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Shahbad Daulatpur, Bawana Road,  
Delhi-110042

- 7.2. Both Parties agree to protect each other's trademarks, copyrights and/or any or all intellectual property rights. They also agree not to tamper with, or in any manner alter the trademark/logos or copyrights / patents of each other and shall not manufacture / produce / sell / distribute any products which infringe on the trademarks, copyrights or the intellectual property rights of each other.
- 7.3. In case it is brought to the notice of any of the Parties, that the other Party has infringed or has been infringing on the rights as set out above, that particular Party shall be at liberty to terminate this MoA without any notice and liability and the other Party shall not be entitled to any compensation for the same; moreover the other Party will be liable to pay claimed damages to that particular Party for such violations / infringement.
- 7.4. Any and all intellectual property created solely in relation to or arising out of this MoA, by any of the parties during the validity of MoA, or prior to the MoA, or after the termination of MoA shall be under the sole and exclusive ownership of that Party. Any and all intellectual property created / developed/ conceived jointly through collaboration between both the Parties under this MoA will be jointly owned by the Parties as decided mutually from time to time in writing.
- 7.5. Where the work is done by using Open source Software or any component thereof, the ownership, distribution etc. of intellectual property in such work will be subject to the terms of applicable Open Source licenses. The Parties agree to use only such open source components that are licensed under Apache License 2.0 and/or MIT license, unless C-DAC provides otherwise in writing. The source code in such a case, if any contribution is made thereto by either Party, shall be exclusively owned by such Party, unless the Parties agree otherwise in writing.
- 7.6. No license under any trademark, patent, copyright, or design, or application for same, which are now or thereafter may be obtained by the party which owns is either granted or implied by the conveying of Confidential Information to the other party. The other Party recognizes and agrees that nothing contained in this MoA will be construed as granting the other Party, by license or otherwise,



rights to any of Confidential Information or Intellectual Property Rights of the party which owns

## 8. RELATIONSHIP

The relationship between Parties herein will be that of Principal to Principal and not as Principal and Agent and none of the Parties will therefore be responsible or liable for the acts/omissions/liabilities of the other Party or for any amount due and payable by the other Party to any third party. Nothing in this MoA is intended to or shall be deemed to create an association, trust, joint venture, legal partnership, employer employee, or agency relationship.

## 9. DISPUTE RESOLUTION AND ARBITRATION:

In case any dispute/claim arises between the Parties with respect to the MoA, including its validity, interpretation, implementation or alleged material breach of any of its provisions or regarding a question, including the questions relating to the legality of the termination of this MoA by one Party hereto (hereinafter referred to as "Dispute"), both Parties hereto shall endeavour to settle such Dispute amicably. If the Parties fail to bring out an amicable settlement within a period of 30 (thirty) days, such Dispute shall be taken up by either party for resolution before AMRCD as per DPE OM No. 05/0003/2019-FTS-10937 dated 14th December, 2022 as amended from time to time and the decision of AMRCD on the said dispute shall be binding on both the parties.

If at the time of arising of Dispute, AMRCD is not in existence or these provisions are not applicable to the Dispute, then it shall be referred to the sole arbitrator appointed mutually by C-DAC and DTU. In that case, Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and Rules made there under, or any legislative amendment or modification made thereto. The seat of the arbitration shall be Delhi. The award given by the arbitrator shall be final and binding on the Parties. The language of arbitration proceedings shall be English. The cost of the arbitration proceedings shall initially be borne equally by the Parties and finally by the Party against whom the award is passed. Any other costs or expenses incurred by a Party in relation to the arbitration proceedings shall ultimately



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Delhi-110042

be borne by the Party as the arbitrator may decide. Courts in Pune only shall have exclusive jurisdiction to try, entertain and decide the matters which are not covered under the Arbitration and Conciliation Act, 1996.

#### 10. GOVERNING LAW:

This MoA shall be governed by and interpreted in accordance with the laws of India.

#### 11. FORCE MAJEURE:

Neither Party to this MoA shall be liable to the other Party for any delay or failure on its part in performing any of its obligations under this MoA resulting from any cause beyond its reasonable control, including but not limited to, strikes, riots, civil commotion, or other concerted actions of workmen, material shortages, Government notification/order, Court orders in *rem*, epidemics, pandemics, fire, floods, expositions, acts of God, acts of State, war, enemy action or terrorist action, etc.

#### 12. INDEMNIFICATION:

12.1. Either Party shall keep the other Party, its officers, directors, employees, representatives, indemnified and harmless from and against any and/or all costs, liabilities, losses, and expenses (including, but not limited to, reasonable fees of attorneys) arising out of any claim, suit, action or proceeding, for any acts and omissions of such Party under or any incidental matter or in any way arising therefrom.

12.2. Parties indemnify each other that all contributions and the work are original and all necessary permissions and releases have been obtained and paid for.

12.3. Parties indemnify each other for any liability incurred to third parties for any use of the Intellectual Property otherwise than in accordance with this MoA

#### 13. ASSIGNMENT AND TRANSFER:

Any and/or all rights, duties and obligations of the Parties under this MoA shall not be transferred or assigned by either Party to any third Party without prior written consent of the other Party.



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**14. NON-WAIVER:**

The failure or neglect by either of the Parties to enforce any of the terms of this MoA shall not be construed as a waiver of its rights preventing subsequent enforcement of such provision or recovery of damages for breach thereof.

**15. SEVERABILITY:**

The invalidity or unenforceability of any provision of this MoA shall not affect the validity or enforceability of any other provision of this MoA that shall continue in full force and effect except for any such invalid and unenforceable provision.

**16. LIMITATION OF LIABILITY:**

In no event will C-DAC or DTU be liable to each other for any incidental, consequential, special, and exemplary or direct or indirect damages, or for lost profits, lost revenues, or loss of business arising out of the subject matter of this MoA, regardless of the cause of action, even if such Party has been advised of the likelihood of damages if the same is without any means rea and beyond reasonable control. However, notwithstanding anything in this Agreement to the contrary, no limitation of liability will apply to a Party's gross negligence, wilful misconduct, fraud or misrepresentation or for damages arising from death or bodily injury caused by a Party's negligence or wilful conduct, or for any other losses that cannot be excluded or limited by law.

**17. MODIFICATION:**

No modification to this MoA will be effective unless agreed to in writing by both Parties and duly signed by the authorised signatories of the Parties.

**18. NON-SOLICITATION**

Both Parties hereby covenant and agree that during the term of this MoA, both Parties shall not, directly or indirectly, solicit or attempt to solicit any business of each other from any of the Party's Customers, Customer Prospects, or Vendors with whom Parties had Material Contact, during the Term of this MoA and for a period of 2 ("Two") years post-termination or expiration of this MoA.



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**19. INTERPRETATION:**

- 19.1. All references to Clauses, Subclauses, Schedules, Appendices and Annexures are to Clauses, Subclauses, Schedules, Appendices and Annexures of this MoA.
- 19.2. Words importing the singular number shall include the plural number and vice versa; words importing the masculine gender shall include the feminine gender; and words importing persons shall include corporations.
- 19.3. References to accounts, records and/or information shall include any means or modes of storage or retrieval of the same, including but not limited to, the computer disk, tape, cassette, microfiche, Internet, intranet and the like.
- 19.4. The Headings in this MoA are inserted for ease of reference only and the headings shall not limit, alter or affect the meaning of the Clauses headed by them and are solely for the purpose of easy reference.
- 19.5. The expressly defined words, terms, acronyms and phrases set out in clauses hereinabove shall prevail over any conflicting interpretation hereof.

**20. EFFECTIVE DATE, VALIDITY, Extension, AND TERMINATION:**

- 20.1. This MoA shall be effective from the date it is signed by both the Parties and shall be valid for three years or till the end of National Supercomputing Mission, whichever is earlier.
- 20.2. The validity of the MoA may be extended by mutual agreement in writing and signed by both the Parties
- 20.3. This MoA may be terminated by either Party by giving 180 days prior notice in writing to other Party through Registered AD /Speed Post AD.
- 20.4. Upon termination or expiry of the MoA, both Parties shall return software, hardware and any other products provided to each other under this MoA, within a period of 15 ("Fifteen") days of the termination/expiry of this MoA and settle the accounts, if any.
- 20.5. On the expiry or termination of this MoA, each Party shall immediately forthwith cease to use the Intellectual Property and the Confidential Information save as expressly authorized by each other Parties in writing.



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Delhi-110042

**21. SURVIVAL**

Any provision that by its nature is intended to survive the termination of this MoA shall survive the termination/expiration of this MoA.

**22. ENTIRE MoA:**

This MoA sets forth the entire understanding of the Parties with respect to the subject matter hereof, and supersedes all prior oral and written agreements, understandings, representations, conditions and all other communications relating thereto.

**23. COMMUNICATION / NOTICE**

Any communication or notice or intimation shall be addressed to the following nodal contacts of the respective Parties and sent to the registered address. E-mail correspondence should not be taken as substitute for any official signed hardcopy correspondence in all important documents such as, but not limited to, financial and performance related documents.

**Nominees for Nodal Contact:****From C-DAC:**

Name: Mr. Ashish Kuvelkar

Designation : Scientist G

E-mail ID: ashishk@cdac.in

Contact Number: +91-20-25503420

Office Address: C-DAC's Innovation Park, Panchavati, off Pashan Road, Pune-411008

**From DTU:**

Name: Prof. Rahul Katarya

Designation: Professor

E-mail ID: rahulkatarya@dtu.ac.in

Contact Number: +91-11-27871018

Office Address: Department of CSE, Delhi Technological University, Main Bawana Road, Delhi-110042,



IN WITNESS WHEREOF THE PARTIES HERETO HAVE SIGNED THIS MOA IN DUPLICATE  
CONSTITUTING BOTH COPIES ORIGINAL, ON THE DAY, MONTH AND YEAR MENTIONED  
HEREIN BEFORE.

SIGNED, SEALED AND DELIVERED  
For and on behalf of Centre for  
Development of Advanced Computing

Signature

Name: Col. Asheet Kumar Nath (Retd.)  
Executive Director, C-DAC Pune and  
Corporate Strategy

Date:

31 July 2024

Seal:

कर्नल ए. के. नाथ (सेवानिवृत्त)  
Col. A. K. Nath (Retd.)  
कार्यकारी निदेशक, सीडैक, पुणे  
Executive Director, C-DAC, Pune

SIGNED, SEALED AND DELIVERED  
For and on behalf of  
Delhi Technological University

Signature

Name: Prof. Madhusudan Singh,  
Registrar,  
Delhi Technological University

Date:

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

In presence of:

1. Signature

Name: A. P. Kumbhar

Sh. Kumbhar, C-DAC

Designation:

2. Signature

Name:

Designation:

In presence of:

1. Signature

Name: Prof. Vinod Kumar  
HOD (CSE)

Designation

2. Signature

Name:

Designation:

IN WITNESS WHEREOF THE PARTIES HERETO HAVE SIGNED THIS MOA IN DUPLICATE  
CONSTITUTING BOTH COPIES ORIGINAL, ON THE DAY, MONTH AND YEAR MENTIONED  
HEREIN BEFORE.

SIGNED, SEALED AND DELIVERED  
For and on behalf of Centre for  
Development of Advanced Computing

Signature

Name: Col. Asheet Kumar Nath (Retd.)  
Executive Director, C-DAC Pune and  
Corporate Strategy

Date:

31 July 2024

Seal:

कर्नल ए. के. नाथ (सेवानिवृत्त)  
Col. A. K. Nath (Retd.)  
कार्यकारी निदेशक, सीडैक, पुणे  
Executive Director, C-DAC, Pune

In presence of:

1. Signature

Name: A. P. Kulkarni

Designation:

Sec. Director, C-DAC

2. Signature

Name: A. RANJAN

Designation:

Scientist - F

SIGNED, SEALED AND DELIVERED  
For and on behalf of  
Delhi Technological University

Signature

Name: Prof. Madhusudan Singh,  
Registrar,  
Delhi Technological University

Date:

Seal:

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

In presence of:

1. Signature

Name: Prof. Vinod Kumar,  
HOD (CSE)

Designation

2. Signature

Name:

Designation:



# **Memorandum of Understanding (MoU)**

**Between**

**The Central Electricity Authority,  
New Delhi**

**And**

**The Delhi Technological University,  
New Delhi**

**18<sup>th</sup> July 2024**



## Memorandum of Understanding (MoU)



Between

Central Electricity Authority (CEA), New Delhi

And

Delhi Technological University (DTU)

For Setting Up of

"Nodal Centre of Excellence in Energy Transition" (NCEET)

This Memorandum of Understanding (MoU) is made on 18<sup>th</sup> July '24 between the Central Electricity Authority (CEA), New Delhi, a statutory organization originally constituted under Section 3(1) of the repealed Electricity (Supply) Act 1948, since substituted by Section 70 of the Electricity Act 2003 (EA 2003), having its Registered Office at Sewa Bhawan, R. K. Puram, Sector-1, New Delhi-110066 (hereinafter referred to as "CEA", which expression shall, unless repugnant to the context herein, include its administrators, successors, executors, and permitted assigns) of the First Part.

AND

Delhi Technological University (DTU), instituted by the Legislative Assembly of the National Capital Territory of Delhi on the 1st July 2009, is a state University vide Delhi Act 6 of 2009 to incorporate it as a non-affiliating teaching and research University at Delhi to facilitate and promote studies, research, technology incubation, product innovation, and extension work in Science, Technology, and Management Education and also to achieve excellence in higher technical education and other matters connected therewith or incidental thereto (hereinafter referred to as "DTU", which expression shall, unless repugnant herein, include its administrators, successors, executors, and permitted assigns) of the Second Part.

### 1. Objectives

The primary objective of this Memorandum of Understanding (MoU) between Central Electricity Authority (CEA) and Delhi Technological University (DTU) is to establish "Nodal Centre of Excellence in Energy Transition (NCEET)" covering all facets of pathways to net zero through energy transition. This Centre aims to lead innovation and development in renewable energy technologies and sustainable energy solutions with energy efficient delivery. Through its innovative research, strong industry ties, and commitment to education and community engagement, the Centre will play a crucial role in driving the energy transition towards a sustainable future. The collaboration will support CEA's task of policy-making and provide DTU with a platform to enhance its academic and research capabilities in the field of energy transition.

  
18/07/2024

राकेश कुमार / RAKESH KUMAR  
सचिव / Secretary

विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi-66

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New Delhi-110029



## Memorandum of Understanding (MoU)



### 2. Vision and Mission:

- To be at the forefront of fostering cutting-edge technologies, driving academic-industrial synergies, and shaping future energy policies.
- To develop innovative and sustainable energy solutions.
- To promote research in the Centre through strong industry and academia links.
- To provide leadership in energy transition both nationally and globally.

### 3. Focus Area - Pathways to Net Zero through Energy Transition:

- The Centre will assist CEA with policy inputs, leveraging DTU's expertise and resources for developing pathways to meet India's national commitment to Net Zero.
- The Centre will integrate efforts with other sectors and institutional structures with respective governing bodies focusing on decarbonisation, assessing future energy demands, evaluating new technologies, efficient and smart energy delivery solutions and proposing necessary policy measures and reforms.

### 4. Core Deliverables of the Centre

- **Roadmap for Net Zero by year 2070:** Develop the pathway for the national commitment by proposing strategies and interventions.
- **Developments in CO<sub>2</sub> reduction intervention / abatement measures:** Technological interventions such as Advanced Ultra Super Critical/ Biomass co-firing / CCUS/ Ammonia co-firing vis a vis cost analysis for CO<sub>2</sub> reduction in Coal based TPPs including their R&M/ LE.
- **Innovations in Renewable Energy Technologies:** Lead research in solar, wind, bioenergy, green hydrogen, hydro pumped storage plants, energy storage systems, and other emerging technologies to enhance grid efficiency and integration.
- **Energy Storage Solutions:** Advancements on battery storage technologies and grid-scale storage systems to provide synthetic inertia, accommodating higher penetration of renewable energy sources.
- **Advances in Nuclear technology:** for enhanced safety, efficiency and lower costs including their scalability and construction lead reduction.
- **Sustainable and Energy-Efficient Delivery:** Create a sustainable and efficient power market with cutting-edge solutions for accelerating smart grid development and enhancing energy-efficient delivery at the last mile.
- **Adoption of Energy Efficiency and Conservation Measures:** Promote the transition to energy-efficient technologies and conservation practices.
- **Decarbonisation across Sectors:** Explore and implement measures for decarbonisation in transportation (e-mobility), manufacturing industry processes, and green building initiatives.
- **Dissemination of Sustainable Energy Practices:** Develop and disseminate sustainable energy practices through targeted research and active community engagement.
- **Educational Excellence:** Cultivate a skilled workforce equipped to lead and innovate in energy transition through comprehensive educational programs and training including the academic curriculum enhancement.
- **Create Repository of Global studies** on technological practises upgrades and innovations.
- **Carryout analytic studies based on power sector data.**

Registrar

Delhi Technological University

(Formerly Delhi College of Engineering)

Shahbad Daulatpur, Bawana Road,

Delhi-110042

संस्थापक निदेश: पापकरण/CEA.9  
विद्युत विभाग, Ministry of Power  
भारत सरकार, Govt. of India  
नई दिल्ली/NEW DELHI-06



## Memorandum of Understanding (MoU)



### 5. Scope of Works / Responsibilities of the Partners

#### CEA:

- Create Resource links from CEA for the Centre in each of the focus areas.
- Provide guidance to the Centre for prioritizing studies and research work aligned with the national objective of achieving net zero.
- Facilitate sharing of available data necessary for carrying out research work.
- Facilitate the Centre's connection with other government bodies and stakeholders for collaboration on research and provide industry insight.
- Help develop the Centre as preferred platform for education and training.
- Share knowledge and experience on various thematic areas related to or having a bearing on the power sector.
- Facilitate dissemination of the research work carried out under the purview of this MoU.

#### DTU:

- Link Core team from Centre with Resource links from CEA in respective focus areas.
- Progressively establish infrastructure, research facilities, and laboratories in the Centre.
- Oversee governance and operations of the Centre.
- Knowledge creation by conducting studies and innovative research in the field of energy transition.
- Utilize laboratories and facilities established under the Centre with other partners to conduct sustainability research and education.
- Disseminate the research findings through publications, seminars, and conferences.
- Conduct workshops, seminars, and training programs on sustainable practices and technologies by engaging prominent researchers and experts in the field.
- Develop and integrate sustainability and energy transition modules into the academic curriculum.
- Facilitate interdisciplinary research and collaboration between academic and industry partners.
- Network with academic institutions globally.

### 6. Periodic reviews

- The progress of works under the MOU as well as the provisions will be reviewed on regular basis, at least twice in a year through a structured mechanism.

  
18/07/2024

राकेश कुमार/RAKESH KUMAR  
सचिव/Secretary  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
विद्युत मंत्रालय/Ministry of Power  
भारत सरकार/Govt. of India

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Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Rawana Road





## Memorandum of Understanding (MoU)



### 7. Effective Date and Duration of MoU

- This Memorandum of Understanding shall become effective from the date of signing by both parties.
- The MoU will be valid for a period of ten years from the date of signing.
- This MoU may be further extended with the written consent of both the parties.

### 8. Amendment

- No amendment or modification of this MoU shall be valid unless the same is made in writing by both parties and specifically stating the same to be an amendment of this MoU. The modification shall be effective from the date on which they are made unless otherwise agreed to.

### 9. Confidentiality

- Data sharing between CEA and DTU will be based on a Non-Disclosure Agreement for study and research work as mentioned in the objectives and for evaluation of research being done.
- During and for a period of MoU from the date of disclosure, each Party agrees to consider as confidential all information identified as confidential by the disclosing Party in written or tangible form or if orally disclosed and confirmed in writing within thirty days of disclosure.
- The above obligation shall not extend to any confidential information for which the receiving Party can prove that this information:
  - is in the public domain at the time of disclosure or comes within the public domain without fault of the receiving Party;
  - is already known or becomes known to the receiving Party;
  - is received from a third party having no obligation of confidentiality to the disclosing Party;
  - is independently developed by the receiving Party; or
  - is required to be disclosed by law or court order.
- All data not identified as confidential can be used for technical and research publication. For the use of confidential data in publications, written permission must be obtained.
- Each Party agrees to use the confidential information of the other Party only for the purpose of this MoU.

### 10. Termination

- This MoU may be terminated by mutual consensus between the Parties. However, either Party shall have the right to unilaterally terminate this MoU giving 30 days prior written notice to the other Party. However, no such early termination of this MoU, whether mutual or unilateral, shall affect the obligation of the Parties under any agreement. The Confidentiality clause as referenced in Clause 9 above or any other agreement entered into pursuant to this MoU shall survive any such termination.

### 11. Coordinators

- Shri Vijay Menghani, Chief Engineer, Clean Energy & Energy Transition Division (Mobile no. 9999035484 and email: [vmenghani@nic.in](mailto:vmenghani@nic.in)) will be the coordinator from CEA while Professor Vishal Verma, Department of Electrical Engineering (Mobile no. 9811882648 and email: [vishalverma@doe.ac.in](mailto:vishalverma@doe.ac.in)) will be the coordinator from DTU.

Secretary  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
विद्युत मंत्रालय/Ministry of Power  
भारत सरकार/Govt. of India  
नई दिल्ली/New Delhi-66

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(Formerly Delhi College of Engineering)  
Shanbad Dauratpur, Bawana Road  
Delhi-110042



## Memorandum of Understanding (MoU)



### **12. Intellectual Property Rights**

- Nothing contained in this MoU shall grant any right or interest or license or ownership in the existing intellectual property rights (IPRs) owned by or developed by either Party. The IPR that arise as a result of activities under this MoU will be worked out on a case-to-case basis and will be consistent with officially laid down IPR policies of the two Parties. The data will not be used for any commercial purpose or reference leading to any commercial implication to CEA.

### **13. Assignment and Technology/ Rights Transfer**

- It is understood by the Parties herein that this MoU is based on the professional competence and experience of each Party, and hence neither Party shall transfer or assign this MoU or rights or obligations arising hereunder either wholly or in part to any third party without the other's prior written consent. Any attempted assignment or delegation without such consent shall be null and void.

### **14. Cost and Expenses**

- To the extent possible, the Parties shall share resources and knowledge on a pro bono basis. Both Parties shall also cooperate with each other on a project-to-project basis for which detailed terms and conditions (including financial arrangement), will be mutually agreed to and recorded in writing in a separate agreement. However, CEA shall not have any financial obligation towards Centre's build up and functioning & reporting.

### **15. Publications**

- Resources of both parties may work jointly on publications. The sharing of Royalty/Intellectual Property Rights, if any, will be mutually agreed upon between the two parties on a case-to-case basis.

### **16. Representation**

- Nothing in this MOU shall be construed to make a Party a partner, an agent or legal representative of other for any purpose. This MoU shall not create a legally binding agreement between the Parties.

### **17. Further Assurances**

- Each Party shall execute such agreements, deeds, and documents, and do or cause to be executed or done all such acts and things as shall be necessary to give effect to the terms and intention of this MoU.

### **18. Dispute Resolution**

- Any dispute or differences arising out of or in connection with this MoU, in the first place, to the extent possible, be resolved amicably between the Parties, failing which in accordance with Law. For amicable settlement, Vice Chancellor, Delhi Technological University and Chairperson, Central Electricity Authority are competent to settle the dispute which shall be final and binding between the parties.
- The courts of New Delhi shall have jurisdiction in case of any legal dispute.

  
राकेश कुमार / RAKESH KUMAR  
सचिव / Secretary  
केन्द्रीय विद्युत प्राधिकरण / C.E.A.

भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi-66

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(Formerly Delhi College of Engineering)

Delhi-110042

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## Memorandum of Understanding (MoU)



### 19. Address of Notice

- Communication under this MoU shall be in writing and communicated through post, courier, fax, e-mail, or any other mutually recognized mode of communication.
- Any notices, requests, consents, and other communications hereunder shall be in writing and shall be effective either when delivered personally to the Party for whom intended or sent by mail or facsimile addressed to such Party at the address set forth below, in addition to the Nodal Officer/Project Manager/Project Coordinator appointed by the Parties:

Address:

#### CEA

Sachin Khashaba Bhise,  
Director (CE&ET),  
Central Electricity Authority, Sewa  
Bhawan, R.K Puram Sector-1,  
New Delhi-110066  
Email: [sachink.bhise@nic.in](mailto:sachink.bhise@nic.in)  
Contact No.: 011-26732389

#### DTU


Dr. Anil Kumar,  
Associate Professor,  
Department of Mechanical Engineering,  
Delhi Technological University, Shahbad  
Daulatpur, Main Bawana Road, Delhi-110042  
Email: [anilkumar76@dtu.ac.in](mailto:anilkumar76@dtu.ac.in)  
Contact No.: 9425680448

IN WITNESS WHEREOF the Parties hereto have duly executed this MoU by their duly authorized representatives in duplicate on the date, month, and year first above written.

**FOR AND ON BEHALF OF CEA**

**FOR AND ON BEHALF OF DTU**

  
18/07/2024  
रमेश कुमार / RAKESH KUMAR  
सचिव / Secretary  
केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi-66  
Central Electricity Authority.

  
Registrar  
Registrar,  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042  
Delhi Technological University

**Witness:**

**Witness:**

  
18/7/2024  
Central Electricity Authority

  
18/07/24  
Delhi Technological University



## DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

**Memorandum of Understanding (MoU) for the constitution of two scholarship namely “ (i) N.C Kukreja and Santosh Kukreja Scholarship, (ii) Nand Lal Kukreja Scholarship” between DTU and Sh. Naveen Kukreja**

**Date of Agreement: 21.06.2024**

### POINTS OF AGREEMENT:

Shri. Naveen Kukreja, a 1999 Electrical Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 10,00,000/- (Rupees Ten Lacs Only)** towards two scholarships namely “(i) **N.C Kukreja and Santosh Kukreja Scholarship**, (ii) **Nand Lal Kukreja Scholarship**” for excellence in Engineering at DTU. The two Scholarship are being instituted by Shri. Naveen Kukreja in the honor of his parents **Sh. N.C Kukreja and Smt. Santosh Kukreja (Parents)**, and **Sh. Nand Lal Kukreja (uncle)**. The contribution will be made as follows:

(A) An amount of Rs. 10,00,000/- (Rupees Ten Lacs Only) will be deposited in an account “**DTU Medals and Scholarship**” with **A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. Two scholarships namely, “(i) **N.C Kukreja and Santosh Kukreja Scholarship**, and (ii) **Nand Lal Kukreja Scholarship**” each with an amount of Rs. 1,00,000/- per annum shall be awarded each year to two students of 1<sup>st</sup> year (*one scholarship for general category student and another scholarship for backward class student*), on Means basis, of any discipline for a period of five years. The students with low family income may be considered, and if there is a tie in the income criteria, then the student with high JEE rank may be considered for award the scholarship.

(B) Scholarships will start in the Academic year 2024 and shall be awarded at convocation in 2024.

(C) For local contact, Sh. Naveen Kukreja

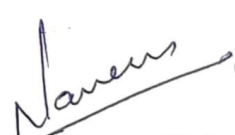
Contact Address: G 25, Lajpat Nagar part 2, New Delhi - 110024

Phone: +91 9953646119, Email: [kukrejanaveen@gmail.com](mailto:kukrejanaveen@gmail.com):

Reji Abraham: Phone +9971444394, Email: [abrahamreji135@gmail.com](mailto:abrahamreji135@gmail.com)

Registrar   
(Delhi Technological University)

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

  
**Shri. Naveen Kukreja**  
(DCE 1999, EE Alumnus)



## DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

**Memorandum of Understanding (MoU) for the constitution of two scholarship namely “ (i) N.C Kukreja and Santosh Kukreja Scholarship, (ii) Nand Lal Kukreja Scholarship” between DTU and Sh. Naveen Kukreja**

**Date of Agreement: 21.06.2024**

### POINTS OF AGREEMENT:

Shri. Naveen Kukreja, a 1999 Electrical Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 10,00,000/- (Rupees Ten Lacs Only)** towards two scholarships namely “(i) **N.C Kukreja and Santosh Kukreja Scholarship**, (ii) **Nand Lal Kukreja Scholarship**” for excellence in Engineering at DTU. The two Scholarship are being instituted by Shri. Naveen Kukreja in the honor of his parents **Sh. N.C Kukreja and Smt. Santosh Kukreja (Parents)**, and **Sh. Nand Lal Kukreja (uncle)**. The contribution will be made as follows:

(A) An amount of Rs. 10,00,000/- (Rupees Ten Lacs Only) will be deposited in an account “**DTU Medals and Scholarship**” with **A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. Two scholarships namely, “(i) **N.C Kukreja and Santosh Kukreja Scholarship**, and (ii) **Nand Lal Kukreja Scholarship**” each with an amount of Rs. 1,00,000/- per annum shall be awarded each year to two students of 1<sup>st</sup> year (*one scholarship for general category student and another scholarship for backward class student*), on Means basis, of any discipline for a period of five years. The students with low family income may be considered, and if there is a tie in the income criteria, then the student with high JEE rank may be considered for award the scholarship.

(B) Scholarships will start in the Academic year 2024 and shall be awarded at convocation in 2024.

(C) For local contact, Sh. Naveen Kukreja

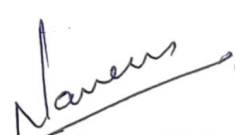
Contact Address: G 25, Lajpat Nagar part 2, New Delhi - 110024

Phone: +91 9953646119, Email: [kukrejanaveen@gmail.com](mailto:kukrejanaveen@gmail.com):

Reji Abraham: Phone +9971444394, Email: [abrahamreji135@gmail.com](mailto:abrahamreji135@gmail.com)

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(Delhi Technological University)

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**Shri. Naveen Kukreja**  
(DCE 1999, EE Alumnus)



## DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

### Memorandum of Understanding (MoU) for the constitution of "Wing Commander Adarsh Bal Scholarship" between DTU and Shri. Ankur Bal.

Date of Agreement: 03/05/2024

#### POINTS OF AGREEMENT:

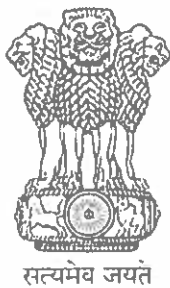
Shri. Ankur Bal, a 1999 Electrical Engineering Batch Distinguished Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 3,00,000/- (Rupees Three Lacs Only)** towards "**Wing Commander Adarsh Bal Scholarship**" for excellence in Engineering at DTU. The contribution will be made as follows:

- (A) An amount of Rs. 3,00,000/- (Rupees Three Lacs Only) will be deposited in an account "**DTU Medals and Scholarship**" with A/C number **36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. In the name of Donor, "**Wing Commander Adarsh Bal Scholarship**" an amount of Rs. 60,000/- per annum shall be awarded to one student, on Merit cum Means basis, for Electrical Engineering, Electronics & Communication Engineering or Computer Science discipline, only for 1<sup>st</sup> year student who cannot afford to pay for tuition fees, hostel fees, and books etc., the student with low family income may be considered, and if there is a tie in the income criteria, then the student with high JEE rank may be considered to award the scholarship.
- (B) Scholarships will start in the Academic year 2024 and shall be awarded at convocation in 2024.
- (C) For local contact, Shri. Ankur Bal  
Contact Address: Ankur Bal, 14011 ATS Paradiso, Sector CHI-4,  
Greater Noida- 201310 (UP)  
Phone: +91 9810537105, Email: ankurbal@gmail.com

Registrar  
(Delhi Technological University)

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

  
Shri. Ankur Bal  
(DCE 1999, EE Alumnus)

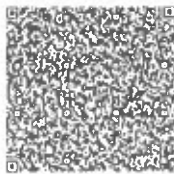


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**DATED AUGUST 9, 2023**

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**DELHI TECHNOLOGICAL UNIVERSITY**

**AND**

**MICHAEL & SUSAN DELL FOUNDATION**

## MEMORANDUM OF UNDERSTANDING

**THIS MEMORANDUM OF UNDERSTANDING ("MOU")**, effective as of August 9, 2023 (the "Effective Date"), is made by and between:

**DELHI TECHNOLOGICAL UNIVERSITY**, re-constituted under the Delhi Technological University Act, 2009, located at Shahbad Daulatpur, Main Bawana Road, Delhi-110042, India (hereinafter referred to as "**DTU**" or "**University**");

**AND**

**MICHAEL & SUSAN DELL FOUNDATION**, a not-for-profit corporation incorporated under the laws of State of Texas, United States of America (USA) and a federally tax-exempt 501(c)(3) private foundation, located at 4417 Westlake Drive, Austin, Texas - 78746, USA (hereinafter referred to as "**MSDF**").

The University and MSDF shall hereinafter collectively be referred to as "**Parties**".

### **WHEREAS:**

- A. DTU is a premier public educational institution set up in Delhi in 1941 as a non-affiliating, teaching and research University at Delhi to facilitate and promote studies, research, technology incubation, product innovation and extension work in Science, Technology and Management Education, and also to achieve excellence in higher technical education.
- B. MSDF is a not-for-profit/ charitable organization set up under the laws of Texas, USA with a mission to transform the lives of children and youth living in urban poverty through improved education, health and family economic stability in the United States, India, and South Africa;
- C. MSDF has been operating scholarship programs for low-income college students in USA and South Africa. MSDF is now desirous of establishing a scholarship program ("**Program**") for low-income, high-potential college students in attendance in India;
- D. Pursuant to discussions between the University and MSDF, both Parties are desirous of entering into a mutually beneficial relationship with the common goal of establishing the Program to improve life outcomes for the students at the University ("**Students**"); and
- E. The Parties are therefore entering into this MOU to set out the shared objectives for the Program, the status of their discussions so far; to set out a framework for both Parties to collaborate and proactively engage on Program design, work towards a successful launch of the Program, and reinforce commitment of both Parties towards each other and towards the Students as the Program evolves.

**NOW THEREFORE**, in consideration of the mutual agreements set forth herein and for other good and valuable consideration, the sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

### **1. COMMENCEMENT AND TERM OF MOU.**

This MOU shall come into force on and from the Effective Date and shall expire on July

31<sup>st</sup>, 2030 (“Term”) unless terminated sooner in accordance with Clause 8 (*Termination*).

## 2. **PURPOSE, EFFECTIVENESS AND OBJECTIVES.**

2.1. **Purpose:** The purpose of this MOU is to record the intent of the Parties to proactively collaborate and design, launch and successfully implement the Program.

2.2. **Effectiveness:** This MOU is a non-binding agreement that sets out the intent of the Parties to cooperate in furtherance of the purpose outlined above. Notwithstanding the foregoing, the Parties nevertheless intend for Clause 6 (*Data Privacy and Data Sharing*), Clause 8 (*Termination of MOU*), Clause 9.2 (*Confidentiality*), Clause 9.3 (*Warranties and Disclaimers*), Clause 9.5 (*Severability*), Clause 9.8 (*Amendment*), Clause 9.10 (*Governing Law and Dispute Resolution*) and **Annexure III** to be binding and legally enforceable.

2.3. **Objectives:** The Parties have the following common vision and objectives which they intend to achieve with the Program:

- (i) to support high-need, high-potential Students from economically weak backgrounds by providing them financial aid, help them in achieving professional/ career readiness and differentiation; instill a clear sense of value, resilience and confidence in them to graduate to better career opportunities; and help them develop leadership skills both in academic and professional environments; and foster a deep sense of community in them to build role models for future students;
- (ii) to develop an advanced understanding of the challenges faced by such Students so that the University is able to identify effective solutions to support them; and
- (iii) to effectively support such Students by providing them with the requisite academic, socio-emotional and career resources through their time at the University.

2.4. **Evolving Arrangement:** Both Parties understand that the collaboration described in this MOU represents an enormous opportunity to help high-need high-potential Students from economically weak backgrounds realise their full potential. This opportunity will also be a complex challenge, and unanticipated and unexpected situations are all but certain to occur. As such, both Parties acknowledge and agree that the Parties may need to re-visit the terms of this MOU in the interest of meeting the needs of the Students and ensuring continued effectiveness of the Program. Further, it is in the mutual best interest of both Parties to be flexible, agile and collaborative in all interactions and decision making in relation to the Program.

## 3. **PROGRAM.**

### 3.1. **Key Design Components of the Program:**

The Parties agree to work together, collaboratively and in a timely manner in all respects, to create the Program. The Program is intended to be an outcomes-focused university anchored scholarship to Students enrolled with the University and selected by MSDF based on the Program selection criteria (“Scholars”). The key design components of the Program that have been agreed to so far are as follows:

- (i) The Program will support an estimated number of up to 50 (fifty) Scholars per cohort

through 4 (four) years of undergraduate study only (and not graduate or professional school) for the first 4 (four) cohorts, with the final cohort being selected in the year 2027;

- (ii) The minimum eligibility criteria to apply to the Program is set out in Clause 3.2 (*Minimum Eligibility Criteria*) below;
  - (iii) MSDF will sponsor the tuition fee and accommodation cost in part for the Scholars ("**Direct Financial Aid**"). Details of Direct Financial Aid are set out in Clause 3.3 (*Direct Financial Aid*);
  - (iv) The Scholars will be provided wrap-around career mentoring and support, and a laptop each, the cost of which will be borne by MSDF ("**Wrap-Around Support**"). Details of the proposed Wrap-Around Support are set out in Clause 3.4 (*Wrap-Around Support*); and
  - (v) Failure by the Scholars to meet the requirements set out in Clause 3.5 (*Scholarship Disqualification Events*) can result in suspension or cancellation of the scholarship, as may be determined by MSDF, in its sole discretion.
- 3.2. **Minimum Eligibility Criteria:** The Program is targeted to support high-need high-potential Students at the University who meet at least the following criteria:
- (i) Students must come from families having family/ household income of less than INR 5,00,000/- per annum; and
  - (ii) Students must be enrolled in the Bachelor of Technology (B.Tech) course at the University.
- 3.3. **Direct Financial Aid:**
- 3.3.1. The direct financial aid funding for the Program would begin from Semester II of the Scholars' undergraduate program at the University and would continue till their final Semester. The direct financial aid would be directed towards the following two components in the manner as contemplated below:
- (i) **Tuition Fee:** Scholars can avail funding up to INR 30,000/- per Semester as funding for the University tuition fee. Scholars can avail funding for the University tuition fee on an annual or Semester basis, depending on the fee payment cycle of the University. The University tuition fee paid by the Scholar to the University should be at least equal to or more than the availed direct financial aid; and
  - (ii) **Accommodation Fee:** Scholars can avail up to INR 40,000/- per semester (i.e. INR 6,666/- per month) as direct financial aid for their accommodation in either a University provided hostel or a private hostel (endorsed by the University). The Scholars need to submit an estimate at the beginning of the Semester to avail this funding and authentic receipts or proof of expense within a month of the issuance of the funding.
- 3.3.2. Scholars need to produce authentic University endorsed receipts or proof of payment for continued scholarship support.

- 3.3.3. Direct Financial Aid Not an Exclusive Aid: Parties agree that the aim of the Program is to reduce the financial burden of the Scholars and their families due to their education and the Direct Financial Aid is not intended to displace or replace any other aid (viz. tuition waivers, other scholarships or financial aid etc.) that the Scholar may have already received or been awarded or prohibit nor intended to discourage the Scholars from applying for any additional aid in future.

3.4. Wrap-Around Support:

- 3.4.1. Details of Support: The Scholars will be provided individualized case management on-campus support both from the University and MSDF including career focused mentoring and support during their scholarship period. Such proposed support may include:

- (i) Check-ins: online semester check-ins via MSDF's suite of technology tools. Scholars may fill the check-in forms 1-2 times each Semester. This opportunity would be used to ensure that they are effectively using University-provided academic and career development resources and training and developmental workshops;
- (ii) 1:1s with Case Managers: Scholars will have an opportunity to meet their case managers from MSDF at least two times each Semester;
- (iii) Certificate Courses: Scholars will have the opportunity to access online or in-person University and expert recommended certificate courses costing an amount of up to INR 60,000/- at any point during the Program; and
- (iv) Leveraging MSDF Tools and Best Practices: MSDF may leverage its in-house resources, best practice tools developed and currently used in MSDF's other scholarship programs as well as selected external vendors to provide individual and group coaching for life-skills building, communications and career planning/readiness.

- 3.4.2. Laptop: One laptop along with charger and laptop bag will be provided to every Scholar for academic and personal use and communications with their Program case managers. All laptops would be insured by MSDF, and should the laptop be stolen or damaged, the Scholar will need to work with the Program case manager/ personnel to claim back losses or a new laptop.

- 3.4.3. Delivery of Case Management Support: The Parties are desirous of providing wrap-around support to the Scholars on-campus itself and Parties are also open to the possibility of working out how such wrap-around support could provide incidental benefit to the Student body at large.

3.5. Scholarship Disqualification Events:

- 3.5.1. MSDF retains the authority to disqualify a Student from the Program scholarship, including based on the following grounds:
- (i) submission of false or fabricated information;
  - (ii) engaging in acts of indiscipline, including violence, discrimination, bigotry, or any form of sexual harassment; and/ or

(iii) repeating an academic year more than once.

3.5.2. Additional grounds of disqualification may be added at the time of finalization of the Program Terms and Conditions.

3.6. **Caveats:**

3.6.1. The Parties acknowledge that: (i) the Scholars have the option to voluntarily withdraw from the Program at any given time if they feel a disconnection with the overall goals and objectives of the Program, without any financial implication for the Program overall; and (ii) the Scholars shall not be bound by any contractual obligation to render their services to MSDF or any company/ entity identified by MSDF (acknowledging that Scholars may be asked to provide certain information as described herein, as well as relevant media consent and releases if they appear in any Program related media).

3.6.2. Parties agree and acknowledge that: (i) no funding is proposed to be provided to the University by MSDF for the Program; (ii) MSDF reserves the right to ascertain the eligibility and selection criteria while awarding the scholarships under the Program; (iii) nothing in this MOU or otherwise shall imply that MSDF is providing any guarantees with respect to improving academic performance of the Scholars or ensuring placement of the Scholars; (iv) MSDF reserves the right to suspend or cancel the scholarship awarded to a Student if the Student fails to meet the terms and conditions of the Program in MSDF's opinion; and (v) MSDF reserves the right to suspend, cancel, terminate, and modify the Program and if any such event occurs, MSDF will intimate the University in advance of implementing such a decision.

4. **SUPPORT AND ENGAGEMENT BETWEEN PARTIES AND PARTIES' POINTS OF CONTACT.**

4.1. **Pre-Scholarship Program Launch Timelines and Support:** The Parties are committed to launching the Program as per the pre-agreed timelines. **Annexure I** of this MOU sets down the agreed upon framework with timelines for the launch of the Program for the first Cohort and support to be provided by the Parties.

4.2. **Support upon Launch of the Program:** **Annexure II** of this MOU sets down the agreed upon framework for the first set of payouts under the Direct Financial Aid and the Wrap-Around Support for the first Cohort upon announcement of the Scholarship awardees and the support to be provided by the Parties.

4.3. **Support throughout the Program:** The Parties appreciate the level of involvement that a program of this nature would require for it to be a success. Keeping this and the Students' overall wellbeing in mind, the Parties have agreed to the following framework for the implementation stage of the Program:

(i) The Program will be supported out of the offices of the University Vice-Chancellor and Registrar.

(ii) **Program Champion:** A program of this nature can be effectively designed, launched and nurtured over time with the help of persons championing the cause and their continued support. The Registrar will champion the Program.

(iii) Internal Program Committee:

- (a) The Registrar would constitute an internal committee to oversee the execution of the Program ("IPC") with day-to-day oversight of the Program provided by the Registrar and/or then-current University PoC (as set out in Clause 4.4 below).
  - (b) The IPC is required to convene quarterly meetings for review, problem-solving, and ensuring optimal support for the Scholars. The minutes of the IPC meetings will be shared with MSDF within 15 (fifteen) days of the meetings taking place;
  - (c) The IPC will address inquiries from MSDF's functional leads including the communication head, legal head, technology head, evaluation head, and other functional experts. Such queries may be shared with the IPC through MSDF POC;
  - (d) The University Vice-Chancellor will conduct a review meeting with the IPC every Semester; and
  - (e) The IPC, University Vice-Chancellor and MSDF POC will meet every quarter to review, address problems, and ensure a smooth implementation of the Program
- (iv) Support relating to Academic Performance: The University will make the support of all the concerned faculty members available to MSDF personnel to resolve issues related to academic performance and class participation of Scholars.
- (v) On-campus resources: The University has agreed to allocate a suitable room to MSDF personnel for conducting meetings on campus with the Scholars, Scholars' case management as well as for other Program linked activities. Additionally, on an ongoing basis, the University will designate suitable spaces on campus for organizing events and training sessions for the Scholars. The University hereby also grants permission to MSDF to put up signages, posters etc. for events which may be held during the course of the Program for the Scholars.
- (vi) Enabling Feedback: The University also agrees to allow the MSDF team to conduct surveys, interviews, and group discussions to gather feedback from the Students and assess the effectiveness of the Program.
- (vii) Support for off-campus accommodation: The University will make all efforts to provide on-campus accommodation to all the Scholars, and in case that doesn't happen, the University will identify and recommend accommodations near the campus to MSDF for approval.

4.4. Parties' Single Points of Contact:

- 4.4.1. A program of this nature requires involvement of several persons and in order to simplify communication and exchange of information between the Parties, both Parties are identifying the following persons as the primary point of contact ("POC") to anchor the discussions. For any communication, notices to be shared/ issued under this MOU, the same may be sent to the below mentioned POC by email.

**MSDF POC** Geeta Goel  
**Address** Michael & Susan Dell Foundation India LLP, 6th Floor, A&D, Aria Commercial Tower, JW Marriott Aerocity, Asset Area 4 - Hospitality District Delhi, Aerocity, New Delhi - 110037  
**Phone number** +91 (11) 4920-6308  
**Email** geeta.goel@dell.org

**University POC** Prof. Rajesh Rohilla  
**Address** P4X9+Q8X, Bawana Rd, Delhi Technological University, Shahbad Daulatpur Village, Rohini, New Delhi - 110042, India  
**Phone number** 9810530528  
**Email** rajesh@dcc.ac.in

- 4.4.2. Either Party may change its POC upon written notice to the other Party.
- 4.4.3. Each Party shall ensure that its POC will make him/herself available in a prompt and collaborative manner, *via* email, by phone, and otherwise, during the entire Program and through its development process.
- 4.4.4. It is expected that there will be a regular cadence of meetings between the POCs, and each Party will ensure full attendance and engagement by its POC to the extent reasonably possible. Each Party's POC must be empowered to make decisions on behalf of its respective Party during the design process to minimize back-and-forth.

**5. BRANDING, COMMUNICATION AND MARKETING OF THE PROGRAM AND THIS COLLABORATION.**

- 5.1. **Branding:** The term "Dell Aspire Scholars" is owned by MSDF, and all rights relating to such term will reside solely in MSDF. MSDF will permit the University to use the term "Dell Aspire Scholars" for the duration of the Program for the purposes of contributing to the Program only, and the University agrees that it will cease to use the term "Dell Aspire Scholars" upon termination of the Program and/or this MOU unless prior written consent for use is obtained from MSDF. MSDF reserves the right to re-brand the Program at its sole discretion.
- 5.2. **Communications:** The Parties will work together on (i) issuing press releases and responding to press inquiries, (ii) creating and executing both initial and on-going communications strategies, in relation to the Program and the collaboration contemplated in this MOU. The Parties agree that neither Party will take any actions in relation to public communications about the Program and this MOU without full collaboration and consensus with the other Party.
- 5.3. The University may not reference MSDF, or any member of the Dell family, in any public announcement related to the Program, without the prior written consent of MSDF. All such requests shall be made to the MSDF POC (as set out in Clause 4.4.1).
- 5.4. The University hereby permits MSDF to use the name of the University in marketing materials in connection with the Program.
- 5.5. Nothing in this MOU shall prevent or restrict MSDF from marketing the Program on its own.

- 5.6. The University will provide assistance with all reasonable requests from MSDF regarding any communications projects, including for example, allowing MSDF and its relevant vendors access to the University grounds for photo shoots featuring Scholars, and providing other related media releases and licenses from the University as may be necessary.

6. **DATA PRIVACY AND DATA SHARING.**

- 6.1. The Parties acknowledge that the Program will require exchange of information, including, without limitation, personal sensitive information about Students that apply for the Program, in order for the Program to be implemented, and for it to be effective and successful. The Parties are committed to ensuring that all data collected pursuant to the Program is stored, processed, analysed and handled strictly in compliance with all applicable data privacy and data protection laws and rules of India.
- 6.2. The Parties agree that the data shared will be handled with utmost confidentiality and in compliance with all applicable data privacy and data protection laws and rules to safeguard the privacy rights of the Students and maintain the integrity of the Program.
- 6.3. **Data Collection Practices:** Notwithstanding anything to the contrary contained in Clause 6.1, the University will undertake the following:
- (i) **Consent.** The University acknowledges that it is solely responsible for, and will ensure that it has procured, the requisite consent from the Students and their parents, as applicable, for the data sharing described in this MOU. It is expected that such consent will clearly, specifically, and unambiguously state: (a) the fact that information is being collected; (b) the University's name and address as the collecting entity; (c) the purposes for such collection; (d) the intended recipients, including scholarship providers, training, and educational companies, employers, and other vendors involved that support students and the Program. Such information about the intended recipients will include their name and address. When such information is transferred outside of India, the transfer will only occur with requisite consent from Students for such transfer outside India. To the extent that the University is able to, and chooses to, avail itself of "deemed consent" (as an instrumentality of the State and in accordance with applicable data privacy and data protection laws and rules), the University will provide MSDF with written analysis from the University's legal counsel regarding that conclusion, and will collect additional, backup consent if requested by MSDF. In all cases, the University will provide MSDF with a copy of its consent forms (including its generally applicable privacy agreement with Students) and information about its collection process, and the University will undertake reasonable requests from MSDF regarding the same. Parental consent will be procured for information relating to the parents (for example, their income) or for information relating to the Scholar, if the Scholar is under 18 years of age. Finally, to the extent that such consent is withdrawn, the University will immediately notify MSDF on an immediate basis no later than 24 (twenty-four) hours of the withdrawal.
  - (ii) **Privacy Policy.** The University will create or maintain such privacy policy as required by applicable law, and display it as required.
  - (iii) **Transfer.** The Parties acknowledge that the transfer of Scholar information as described in this MOU is necessary for the performance of the Program and the

contractual provisions herein. Except for those intended recipients described in Clause 6.3(i)(d), MSDF will not share with third-parties any personal sensitive information about Students that has been provided by the University. The Parties agree that the provisions of this Clause 6 along with **Annexure III** are considered a valid contract, if and as required, under applicable privacy laws.

- (iv) **Maintenance.** The Parties must maintain reasonable security practices and procedures with respect to the collection and storage of any Scholar information protected by applicable privacy laws. The Parties also agree to delete such information when it is no longer necessary to maintain it or when the purpose for which it was collected has been discharged. Similarly, the Parties will have in place documented information security programs and policies that contain requisite managerial, technical, operational, and physical security control measures that are commensurate with the information assets being protected. As required by applicable law, the Parties will undertake periodic audits of security practices and procedures by an independent auditor.

- 6.4. Parties agree to data sharing in the manner as set out in **Annexure III**.

## **7. INTELLECTUAL PROPERTY AND PUBLICATION OF WORK PRODUCT.**

- 7.1. The Parties agree that all intellectual property created during set-up of the Program will be owned by the Party creating the materials.
- 7.2. Without limiting the foregoing, MSDF may publish, or otherwise make public, reports or other related work product created in connection with the Program. The University hereby consents to such use, and further agrees to provide the necessary consents and licenses to MSDF for any component of such materials that are owned by the University, pursuant to Clause 7.1 or otherwise. In all cases, any use of intellectual property created during the course of the Program will be subject to the provisions of Clause 5 and may not involve the monetization of such intellectual property without the express written consent of the other Party.
- 7.3. MSDF will, at its discretion, offer its tools, experience and technology developed for its programs in USA and South Africa, as needed and decided by MSDF, and MSDF will always retain all rights and ownership of all such intellectual property.

## **8. TERMINATION OF MOU.**

- 8.1. This MOU will automatically terminate upon occurrence of the earlier of, expiry of the Term or completion of the Program.
- 8.2. Either Party may terminate this MOU if they so wish to by providing the other Party prior written notice of 3 (three) months or such earlier period as may be mutually agreeable. Neither Party shall have any legal recourse against the other related to such unilateral termination subject however to fulfillment of the requirements set out in Clause 8.3 below.
- 8.3. Upon termination of this MOU for any reason, the Parties agree to work together in good faith and as expeditiously as reasonably possible to wind-down the Program and always with a goal of minimizing any unnecessary negative impact for Scholars.

- 8.4. Upon termination of the MoU, MSDF may seek internal approvals to continue the Direct Financial Aid to Scholars who have already been selected and enrolled in the program. MSDF will however, stop providing the Wrap-Around Support, and remove its staff from the University campus. Parties agree that the University is expected to continue providing the data as per Annexure III, as long as MSDF's Direct Financial Aid continues.

9. **MISCELLANEOUS.**

- 9.1. **Costs Incurred for the Program:** Unless otherwise agreed to in writing, each Party will bear its own costs related to Program development and set-up.

- 9.2. **Confidentiality:** The Parties agree that the existence and contents of this MOU will be held in confidence by both Parties. In addition, all information created and/or exchanged relating to set-up of the Program, implementation of the Program and all materials arising therefrom will be held in confidence by the Parties and disclosed only in accordance with the terms of this MOU.

9.3. **Warranties and Disclaimers.**

- 9.3.1. Both Parties confirm that they have the necessary approvals to fulfil their commitments under this MOU. In the event of any modification, suspension or cancellation of any Party's approvals that impact their ability to fulfill their commitment under this MOU, such Party shall promptly inform the other Party.

- 9.3.2. Each Party represents that it has the requisite authority, and has received all necessary approvals or authorizations, in order to execute this MOU, including those provisions described in Clause 2.2 above. More specifically, University has represented that the University's Registrar is entitled to execute this MOU for and on behalf of the University.

- 9.3.3. University represents that none of what is described in this MOU conflicts with any University policies or other internal authority to which the University or its activities are subject.

- 9.3.4. Except as expressly set out herein, (i) neither Party is making any other express or implied warranties to the other; and (ii) nothing in this MOU imposes an obligation on either Party to commit or transfer any funds, assets or any other resources in support of the Program.

- 9.4. **Non-Exclusive Relationship:** Although the Parties have come together with a shared vision as envisaged in Clause 2 above, both Parties acknowledge that nothing in this MOU shall prevent or restrict either Party's ability to enter into similar collaborations or arrangements with any third party.

- 9.5. **Severability.** The Parties hereby agree and acknowledge that the provisions of this MOU are subject to Applicable Law. To the extent that any provision or provisions of this MOU are unenforceable, they shall be deemed to be deleted from this MOU, and any such deletion shall not affect the enforceability of the remainder of this MOU.

- 9.6. **Entire Agreement.** This MOU represents the entire agreement between the Parties in relation to the subject matter contained in this MOU and shall supersede any previous understandings between the Parties whether oral or in writing, relating to the subject matter herein, and shall include all Annexures, Schedules and amendments executed by the Parties

mutually in writing.

- 9.7. **Counterparts.** This MOU may be executed in one or more counterparts including counterparts transmitted by electronic mail, each of which shall be deemed to be an original, but all of which signed and taken together, shall constitute one document. The delivery by electronic mail in "portable document format" (".pdf") of the counterparts along with the executed signature page of a Party will be as effective as signing and delivering the document in person.
- 9.8. **Amendment.** This MOU may not be amended, modified or supplemented except by a written instrument executed by both Parties. Any requested changes to this MOU shall be communicated to the other Party by email, and if the other Party is in agreement with the requested changes, the Parties shall promptly revise and re-execute an updated version of this MOU as needed.
- 9.9. **No Legal Partnership.** The Parties acknowledge and agree that the Parties do not intend to create a legal partnership or agency relationship, and that this MOU does not create a legal agency relationship or partnership between the Parties.
- 9.10. **Governing Law and Dispute Resolution.** This MOU shall be construed and governed in accordance with the laws of the Republic of India without reference to any conflict of laws principles. In the event of a disagreement or dispute relating to any matter in this MOU, the Parties will make good faith efforts to resolve the same within a reasonable time. If, however, the Parties are unable to resolve the disagreement within 90 (ninety) days, the Parties may jointly appoint an unbiased third party expert to mediate the disagreement. If, however, such third party is also not able to resolve the disagreement within 45 (forty-five) days of his/ her appointment, the Parties may invoke arbitration under the (Indian) Arbitration and Conciliation Act, 1996 and the dispute may be adjudicated upon by a sole arbitrator appointed in accordance with the (Indian) Arbitration and Conciliation Act, 1996.
- 9.11. **Survival.**

The following Clauses will survive termination of this MOU: 2.2 (*Effectiveness*), 3.3.3 (*Direct Financial Aid Not an Exclusive Aid*), 3.6.2 (*Caveat*), 5.1 (*Branding*), 5.2 (*Communications*), 5.3, 5.4, 5.5, 7.1, 7.2, 8.3, 8.4, 9.2 (*Confidentiality*), 9.4 (*Non-Exclusive Relationship*), 9.9 (*No Legal Partnership*), 9.10 (*Governing Law and Dispute Resolution*), and this 9.11 (*Survival*).

[Annexures follow]

## ANNEXURE I

### PRE-SCHOLARSHIP LAUNCH TIMELINES AND SUPPORT REQUIRED

S. No.	Stage	Timeline	Plan of Action	Support required from University
1.	Student Outreach Activities	August – September 2023	<p>(i) MSDF to display posters and banners at University campus and also during University events;</p> <p>(ii) MSDF to conduct information sessions on the proposed Program during University orientation sessions for the new academic year; and</p> <p>(iii) MSDF to conduct information sessions on the proposed Program on University campus during the academic year sessions.</p>	<p>(i) University to create a list of eligible Students as per the requirements of Clause 3.2 of the MOU and any other requirements that may be discussed (in consultation with MSDF) ("Target Student Pool");</p> <p>(ii) University to provide at least three slots for organizing the information session and provide the halls/ auditorium space to MSDF to organize the information sessions;</p> <p>(iii) University to send emails and push messages to the Target Student Pool informing them about the Program; and</p> <p>(iv) University to send weekly emails and WhatsApp messages with link to the application till such time the targeted number of applications are received. MSDF will communicate to the University once this is achieved.</p>
2.	Pre-application Stage	By September 15, 2023	MSDF to work with a third-party online application that will provide Students with an interface to apply ("Platform") to create login credentials for the Students that form part of the Target Student Pool.	University to share the information as detailed in <u>Annexure III – Item 1</u> of the Students forming part of the Target Student Pool after having taken consent of all such Students.
3.	Submission of Applications	October 2 – October 20, 2023	The applicants will be required to fill the application forms for the Program on the Platform.	University to verify the information shared by the applicants in the application form against the records available with the University including without limitation, the information detailed in <u>Annexure III – Item 2</u> .
4.	Background Verification of Applicants	November 2023	MSDF will task a third-party organization to undertake background and income verification of the applicants.	
5.	Interview and Selection	January 2024	MSDF staff to take interviews on University campus.	University to ensure that 4-5 rooms are provided on Campus for conducting the interviews of the

S. No.	Stage	Timeline	Plan of Action	Support required from University
				short-listed applicants.
6.	Announcement of Final List of Scholars	February 15, 2024	MSDF to announce the final list of Scholars. Those Students who agree to accept and sign on to the terms and conditions of the Program will be awarded the scholarship under the Program.	

## ANNEXURE II

### DIRECT FINANCIAL AID PAYOUTS AND WRAP-AROUND SUPPORT UPON LAUNCH OF PROGRAM AND SUPPORT REQUIRED

S. No.	Stage	Timeline	Plan of Action	Support required from University
1.	Registration on the Program Portal	February 2024	(i) MSDF to deploy the Program portal. (ii) Scholars will register on the Program portal; and (iii) At the time of registration, the Scholars will also indicate their need for accommodation, estimate of the accommodation cost and share bank details.	University to verify and endorse the Scholars' estimates for accommodation and the receipts of the fee paid at the start of the academic year.
2.	Wrap-Around Support	February 2024	Scholars are handed over their laptops along with insurance details for the laptops.	-
3.	Disbursement of Direct Financial Aid for University Tuition Fee	First installment in March 2024	(i) The funding for the University Tuition fees would be disbursed at least 3 days before the last date of tuition fee payment; and (ii) The Scholars must upload valid receipts post tuition fee payments.	University to confirm the tuition fee payment deadlines and issue receipts timely to the Students.
4.	Disbursement of first tranche of funding for accommodation	First installment in March 2024	(i) <u>Caveat:</u> Accommodation fee to be paid as part of the Direct Financial Aid only for the Scholars who express the need and have endorsed estimation from the University and/or receipts of hostel fee paid in the first semester. (ii) The funding for accommodation fee would be made every semester on students' valid estimate and reconciliation of receipts of previous semester; and (iii) The Scholars must upload valid receipts post accommodation fee payments.	University to confirm the accommodation fee payment deadlines and issue receipts timely to the Students, as may be applicable.


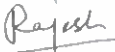


### ANNEXURE III


#### DATA SHARING REQUIREMENTS

S. No.	Stage	Timeline	Data required from University	Mode and Manner of Sharing
1.	Pre-Application Stage	By September 15, 2023	<p>The following information about all of the Students forming part of the Target Student Pool will be shared with MSDF:</p> <ul style="list-style-type: none"> <li>(i) Unique identifier University uses for the Student</li> <li>(ii) Name of Student</li> <li>(iii) Phone number</li> <li>(iv) Email address</li> <li>(v) Date of birth (DD/MM/YYYY)</li> <li>(vi) Course enrolled</li> <li>(vii) Category of admission</li> <li>(viii) Communication address</li> <li>(ix) Parents annual income (Less than 1 lakh, less than 2 Lakh, less than 3 lakh, less than 4 lakh Less than 5 lakh)</li> </ul>	Digital copy of data shared by University to MSDF in agreed-upon format
2.	Submission of Applications	October 2 – October 22, 2023	<p>The University will verify the information provided by the applicants in the application including without the limitation, the following:</p> <ul style="list-style-type: none"> <li>(i) Category of admission: Scheduled Caste, Scheduled Tribe, Other Backward Caste-Non-Creamy layer</li> <li>(ii) Year of qualifying intermediate Exams (Twelfth Standard)</li> <li>(iii) Aggregate percentage in intermediate Exams (Twelfth Standard)</li> <li>(iv) First semester aggregated grades of the semi-finalists</li> </ul>	<p>Applications live from 2<sup>nd</sup> to 15<sup>th</sup> October 2023</p> <p>MSDF shares the digital copy of the data in with the University by 15<sup>th</sup> October, 2023</p> <p>University to share verified list by 22<sup>nd</sup> October, 2023</p>
3.	Selection stage	5th Jan 2024	The University will provide the exam results of the first semester finalists who have qualified for the final round of interviews for the Program.	MSDF shares the digital copy of the data with the University for verification
4.	Performance related Data	During the Program, within 14 days of academic data becoming available	<p>At the commencement of the Program period, the University will either verify or directly share the following data with MSDF in relation to the Scholars:</p> <ul style="list-style-type: none"> <li>(i) Semester-wise attendance records of the Scholars by the end of every Semester;</li> <li>(ii) Semester-wise CGPA (Cumulative Grade Point Average) within 10 days of the announcement of results; branch, and category wise average CGPA</li> <li>(iii) any instance of disciplinary action taken against the Scholar should be reported immediately to MSDF; and</li> <li>(iv) any instance of admission withdrawal, restrictions or suspension and prolonged</li> </ul>	University to share digital copy of the data in the agreed-upon format

S. No.	Stage	Timeline	Data required from University	Mode and Manner of Sharing
			absence from University of more than 3 weeks, should be reported immediately to MSDF. (v) data pertaining to internships	
5.	Monitoring and Evaluation of the Program	Final year of the cohort, Interim report needs to be provided by 15th January 2026 and final report to be shared by 15th May 2027	<p>To monitor and assess the effectiveness of the Program, the University will collect and share the following data with MSDF as and when required:</p> <ul style="list-style-type: none"> <li>(i) Anonymized data of all Students (Scholars and non-Scholars) registered for placement, by course and category of admission;</li> <li>(ii) any relevant data that will help in improving Program outcomes.</li> <li>(iii) Anonymized data of all students placed through University process in the structure given below: <ul style="list-style-type: none"> <li>(a) Industry (to be agreed upon between Parties)</li> <li>(b) Starting Compensation</li> <li>(c) Family Income of the Student</li> <li>(d) Name of the course</li> <li>(e) Category of Admission</li> <li>(f) Academic CGPA</li> </ul> </li> </ul>	University to share digital copy of the data in agreed upon format

IN WITNESS WHEREOF the aforementioned Parties have signed this Memorandum of Understanding on the date mentioned against their signatures and the Memorandum of Understanding shall be deemed to have been executed and be in operation on the date mentioned above.

<p><b><u>Signed for and on behalf of DELHI TECHNOLOGICAL UNIVERSITY by,</u></b></p> <p></p> <p><b>Name: Prof. Madhusudan Singh</b> <b>Designation: Registrar, Delhi Technological University Registrar</b> <b>Date: August 9, 2023</b> Delhi Technological University (Formerly Delhi College of Engineering) Shahbad Daulatpur, Bawana Road Delhi-110042</p> <p><b>Witness:</b></p> <p></p> <p><b>Name: Prof. Rajesh Rohilla</b> <b>Address: HOD, T &amp; P department, Delhi Technological University</b></p>	<p><b><u>Signed for and on behalf of MICHAEL &amp; SUSAN DELL FOUNDATION by,</u></b></p> <p></p> <p><b>Name: Anand Srinivasan</b> <b>Designation: Chief Operating Officer</b> <b>Date: August 9, 2023</b></p> <p><b>Witness:</b></p> <p></p> <p><b>Name: Robert Lindsey</b> <b>Address: 6107 Highland Walk Dr Austin TX 78751</b></p>
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# **MEMORANDUM OF UNDERSTANDING**

## **BETWEEN**

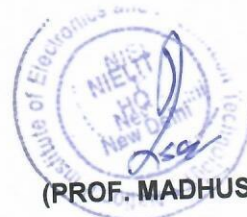
### **National Institute of Electronics & Information Technology (NIELIT)**

## **AND**

### **DELHI TECHNOLOGICAL UNIVERSITY(DTU)**



(SH. RAJNEESH KUMAR ASTHANA)



(PROF. MADHUSUDAN SINGH)

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## Memorandum of Understanding

This “**Memorandum Of Understanding**” (Here-in-after referred to as the “**MOU**”) is made and entered into on this the 30<sup>th</sup> Day of August 2023 (Here – in – after, for the sake of brevity referred to as the “**EFFECTIVE DATE**”), at NSUT, Dwarka, New Delhi.

### **BY & BETWEEN**

**The National Institute of Electronics & Information Technology, NIELIT Bhawan,** PlotNo. 3, PSP Pocket, Sector-8, Dwarka, New Delhi-110077, hereafter, referred to as “**NIELIT**” {Here – in – after, for the sake of brevity referred to as the “**NIELIT**” which expression unless excluded by or repugnant to the context or meaning hereof, shall be deemed to include its Successor (s), Administrator (s) or Permitted Assignee (s)}, being represented through its Authorized Signatory, Sh. Rajneesh Kumar Asthana, Registrar, NIELIT, of the **FIRST PART**,

### **AND**

**Delhi Technological University (DTU)** having its Head Office / Registered Office at - Shahbad Daulatpur, Bawana Road, Delhi – 110042. {Here – in – after, for the sake of brevity referred to as the “**DTU**” which expression unless excluded by or repugnant to the context or meaning hereof, shall be deemed to include its Successor (s), Administrator (s) or Permitted Assignee (s)}, being represented through its Authorized Signatory, Prof. Madhusudan Singh, Registrar, Delhi Technological University of the **SECOND PART**

**HERE – IN – AFTER**, individually referred to as the “**Party**” and collectively referred to as the “**Parties**” or the “**Universities**” or the “**Institutions**”.

**WHEREAS**, NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION TECHNOLOGY, herein after referred to as “**NIELIT**” is an Autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology (MeitY), Government of India, set up to carry out Human Resource Development and related activities in the area of Information, Electronics & Communications Technology (IECT). NIELIT is engaged both in Formal & Non-Formal Education in the area of IECT besides development of industry-oriented quality education and training programmes in the state-of-the-art areas

  
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**AND WHEREAS**, DELHI TECHNOLOGICAL UNIVERSITY is a non-affiliating, teaching and research university at Delhi to facilitate and promote studies, research, technology incubation, product innovation and extension work in Science, Technology and Management Education and also to achieve excellence in higher technical education and other matters.

**THAT**, NIELIT and DELHI TECHNOLOGICAL UNIVERSITY have mutually agreed to execute this MOU with the objective of facilitating mutual cooperation, for the promotion of Academic Excellence in both the Institutions. The areas of collaboration have been outlined in this MOU.

And have hereby decided that both parties would adhere to the following responsibility charter of listed below:

### **Section-1.0: MOU Signatories:**

The signatories of the MOU will be NIELIT and DTU.

### **Section-2.0: Objective:**

To develop skilled manpower in the domains of common interest such as management, technology, finance, digital skills, Emerging Technologies etc. through participatory mode such as summer internships, placements, field visits, workshops, conferences etc.

### **Section-3.0: Engagement and Scope:**

The scope of the Memorandum of Understanding is as under –

- (a) To design and deliver training and certification programmes in the domain for academicians and industry professionals at the national and international level;
- (b) To undertake collaborative research/consultancy in the relevant domains and new areas of expertise with the involvement of teams from NIELIT and DTU.
- (c) To mutually plan and conduct lectures/ workshops/ symposia/ conferences/ other similar events in mutually agreeable areas at the national/international level.
- (d) To mutually conduct Faculty Development Programmes as per the expertise on need basis on mutually agreed terms.
- (e) To jointly conduct Corporate training programmes for Govt. organizations/ PSUs/Industry professionals on mutually agreed terms.

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- (f) To offer to students summer internships, placements, field visits, academic projects, and exchange in areas of common interests.
- (g) To extend the Smart Lab facility developed by NIELIT Calicut to DTU.
- (h) To adopt the NSQF training programs of NIELIT as Credit Courses by DTU for the purpose of NEP Implementation.
- (i) To extend the Cyber Security/Cyber Forensic courses of NIELIT to the Students and Faculty of DTU.
- (j) To extend the Artificial Intelligence(AI) training run by NIELIT through India AI Lab to DTU in the Hub & Spoke Model.
- (k) To offer NIELIT's Virtual Academy Platform along with Virtual Lab facility to DTU as per NIELIT policy.
- (l) To extend the infrastructure and Lab Facility of DTU for conduction of various exams by NIELIT in Online/Offline mode on Payment basis.
- (m) To mutually consider Faculties of NIELIT and DTU for Higher Education, Quality Improvement Program (QIP), Student Exchange Program, High End Training etc.

#### **Section-4.0: Intellectual Property:**

All Intellectual Property, including, but not limited to, copyrights, software and database rights, patents, trade secrets, trademarks, rights in designs and all other Intellectual Property or other proprietary rights ("Intellectual Property") owned by one Party prior to the date of this MOU will continue to be owned by that party. All Intellectual Property rights made available by one Party to the other Party in connection with this MOU, or otherwise, will remain the sole property of, and vest in, the first Party or its licensors. Neither Party will gain, by virtue of this MOU, any rights in or to any Intellectual Property rights owned by the other Party. Any Intellectual Property rights created by any Party without use of or reference to the Intellectual Property rights or Confidential Information of the other Party will be and will remain the sole and exclusive property of the that individual Party. However, any IPR developed jointly by both parties will be held jointly.

  
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### Section-5.0: Duration of Engagement:

- (i). This MOU shall come into force upon affixing signatures of the representatives of the two Universities / Institutions and shall remain effective for three (3) years with effect from the date of its signing i. e., from 30<sup>th</sup> Aug. 2023 to 29<sup>th</sup> Aug. 2026.
- (ii). If either partner institution wishes to continue with the collaboration beyond three (3) years, a fresh proposal shall be submitted for mutual consent; and either of the institutions may notify the other for doing so not less than six (6) months prior to the expiry of the MOU.
- (iii). In the event of violation of any of the provisions specified in various clauses of this MOU that leads to a conflict and which may affect the objectives of this MOU at any time during the MOU period, either party may terminate this MOU by giving an advance notice in writing of Thirty (30) days, delivered by Registered Post to the Registered Office of the other Party. Nevertheless, neither Party shall be liable for performance delays or for non-performance due to force majeure or causes beyond its reasonable control.
- (iv). Unless otherwise agreed upon by the Parties, the termination of this MOU shall not affect the implementation of the on-going activities and / or programmes, which have been agreed upon before the date of the termination of the MOU.

### Section-6.0: CONFIDENTIALITY:

- (i). Confidential information includes all communication of information disclosed in documentary or tangible form between the Parties, including oral, written and machine-readable form, pertaining to the above which is indicated as confidential. In the case of such information disclosed orally or visually, the Disclosing Party shall confirm in writing the fact and general nature of each disclosure within (30) days after it is made.
- (ii). Confidential information includes information:
  - (a). Disclosed by, or on behalf of, the Disclosing Party to the Receiving Party,
  - (b). Otherwise learned or ascertained by the Receiving party from inspection and / or evaluation of sample (s) identified by the Disclosing

  
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party as confidential and provided to the Receiving party by or on behalf of the Disclosing Party {Sample (s)} and / or,

- (c). Otherwise learned or ascertained by the Receiving Party from the Disclosing Party.
- (iii). The Receiving Party will not disclose confidential information of the Disclosing Party to any other person and use at least the same degree of care to maintain the Information confidential as receiving party uses in maintaining as confidential its own confidential Information, but always at least a reasonable degree of care; due diligence will be taken by both the parties in maintenance of confidential information.
- (iv). The Receiving Party will use the confidential information only for the above-mentioned purpose.
- (v). The Receiving Party will restrict disclosure of the confidential information of the Disclosing Party solely to those employees, subsidiaries, parent and affiliated companies of Receiving Party having a need to know such Information in order to accomplish the purpose stated above.
- (vi). This MOU imposes no obligation on Receiving Party with respect to any portion of the confidential information received from Disclosing Party which:
- (a). Was known to Receiving Party prior to disclosure by Disclosing Party,
  - (b). Is lawfully obtained by Receiving Party from a third party under no obligation of confidentiality,
  - (c). Is, or becomes, generally known or publicly available other than by unauthorized disclosure, is independently developed by Receiving Party,
  - (d). Is disclosed by disclosing Party to a third party without a duty of confidentiality on the third party.
  - (e). Is required by law or decree.
- (vii). The confidential information shall remain the sole property of the Disclosing Party.

  
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- (ix). The obligation of non-disclosure of confidential information shall survive for 3 years after expiry / termination of this MOU.

### Section-7.0: INTERPRETATION:

This MOU has been executed in the English and the English language that be the controlling language for interpretation thereof. No other translation, if any, of this MOU into other languages shall be of any force or effect in the interpretation of this MOU or in determination of the intent of either of the Parties hereto.

### Section-8.0: NO PARTNERSHIP:

- (i). Nothing in this MOU shall be deemed to neither constitute or create an Association, Trust, Partnership or a Joint Venture between the parties nor constitute any Party the agent of any other Party for any purpose. Neither this MOU, nor any activities described herein, shall be construed as creating a Partnership, Joint Venture, Franchise, Agency or other such relationship. Neither Party is authorized, in any manner, to make any commitment on behalf of or to bind the other Party;
- (ii). The Parties shall ensure compliance with all statutory provisions applicable to and governing the employment of its employees and representatives, deployed and would ensure compliance to provisions of statutes, as amended and applicable from time to time for such employees and representatives. Under no circumstances shall employees, agents and representatives of either party, represent as or be construed as employees / agents of the other party to this MOU. Neither party shall enter into any independent arrangements with the other party's employees;

### Section-9.0: FORCE MAJEURE:

- (i). Neither Party will be liable for the delay or failure in performing obligations if the failure results from circumstances beyond its reasonable control (Such circumstances here – in – after referred to as “**Force Majeure**”), including but not limited to Acts of God, War / Hostilities, Riot or Civil Commotion, Fire, Flood or Earthquake, Tempest, Lightening or other Natural Physical Disaster; Restrictions imposed by the Government or other Statutory bodies which prevents or delays the execution of the MOU, then the Party so affected shall promptly notify the other Party in writing specifying the nature of the Force

  
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Majeure and of the anticipated delay in the performance of the MOU. From the date of the notification, regarding Force Majeure the MOU may be closed with the mutual consent of the Parties on "As is where is basis" or suspend the performance of the MOU for a period not exceeding 2 months;

- (ii). If at the expiry of the period of suspension, the reasons for suspension still remain / stand valid, NIELIT and DELHI TECHNOLOGICAL UNIVERSITY shall treat this MOU as terminated.
- (iii). On resumption of good relations / normal conditions, the Parties to this MOU shall consult each other and evolve a new MOU for NIELIT and DELHI TECHNOLOGICAL UNIVERSITY for future relations between them.

### **Section-10.0: REVISION, MODIFICATION AND AMENDMENT OF THE MOU:**

- (i). The obligations of the parties have been outlined in this MOU. However, during the operation of the MOU, circumstances may arise which may call for alterations or modifications of this MOU. These modifications / alterations will be mutually discussed and endorsed in the form of an "**Appendix of Addendum to the MOU**". These modifications / alterations will be mutually discussed and agreed upon in writing and shall be effective only if executed by the respective duly authorized signatories of each of the Parties hereto.
- (ii). Either Party may request in writing a revision, modification or amendment of all or any part of this MOU. Any revision, modification or amendment agreed to by the parties shall be reflected in writing and shall form part of this MOU. Such revision, modification or amendment shall come into force on such date as may be determined by parties.

### **Section-11.0: Governing Law and Dispute Resolution:**

This MOU shall be governed by and constructed in accordance with the laws of India

- (a) The Parties shall attempt to amicably settle all disputes arising out of this MoU and the obligations hereunder ("Dispute"). Either Party may give written notice of a dispute to the other Party within (10) days of the occurrence of the event

  
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which gives rise to such Dispute or the date such event comes to the notice of the applicable Party. Any dispute between NIELIT and DTU in connection with this MoU shall be referred to the designated officials of NIELIT and DTU for mutual discussions and negotiations. If no settlement can be reached through mutual discussions and negotiations within [15 days] of either DTU or, NIELIT, delivering a notice of the dispute to the other Party, then such matter shall be finally settled by arbitration in accordance with the provisions of Arbitration & Conciliation Act, 1996 or any other statutory amendments or modifications thereof ("Arbitration Act"). If both the parties cannot agree on a common arbitrator within 30 (Thirty) days of receiving the notice for arbitration by either party from the other party, then either party can approach the Court, by way of filing a petition under Section 11 of the Arbitration and Conciliation Act, 1996 and seek appointment of a neutral person to preside over as the Arbitrator. With respect to such arbitration, the following provisions shall apply:

- The arbitration proceedings shall be conducted in English;
- The place of arbitration shall be at Delhi;
- In respect of matters where a reference to the courts is permitted by the Arbitration Act, the courts at Delhi shall have exclusive jurisdiction;
- The costs of arbitration shall be borne as determined in the arbitration award; and
- The decision of the arbitrator(s) shall be final and binding on the Parties.

## **Section-12.0: INDEMNITY CLAUSE:**

- (i). NIELIT and DELHI TECHNOLOGICAL UNIVERSITY both have agreed to bear the responsibility for any third party claims, demands, proceedings, prosecutions, or actions against each other, arising out of and as a result of any callous, negligent, deficient action or omission by any employee of NIELIT or DELHI TECHNOLOGICAL UNIVERSITY, and has undertaken to keep each other (i. e., NIELIT or DELHI TECHNOLOGICAL UNIVERSITY) indemnified against all losses and damages suffered including expenses incurred by them while defending the claim (Inclusive of Legal Expenses) in City, or any other Court as a result of any such claim, demands, proceedings, prosecutions or actions. The Parties have agreed that this provision shall survive termination of the MOU.

- (ii). NIELIT and DELHI TECHNOLOGICAL UNIVERSITY shall indemnify, protect

  
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and save each other against all claims, losses, costs, damages, expenses, legal suits and other proceedings, resulting from infringement of any patent, trademarks, copyrights, etc. or other statutory infringement;

### **Section-13.0: SEVERABILITY:**

Any law restraining the validity and enforceability of any provision of this MOU shall not affect the validity or enforceability of the remaining provisions hereof and this MOU shall be deemed as not containing the invalid provisions. The remaining provisions of this MOU shall remain in full force and effect, unless the invalid or unenforceable provision comprises an integral part of or otherwise is inseparable from the remaining MOU. In such a case, the Parties to this MOU shall attempt to agree on a provision which is valid and enforceable and similar to the original provision.

### **Section-14.0: PUBLICITY:**

Any publicity by one Party, in which the name of other Party is to be used shall be done only with the explicit written permission of the other party and after the contents of the same are vetted / approved by the other party. If either party, to do so, it shall be considered a breach of the MOU.

### **Section-15.0: MATTERS NOT PROVIDED HERE – IN:**

If any doubt arises as to the interpretation of the provisions of this MOU or as to matters not provided there in the parties to this MOU shall consult with each other for each instance and resolve such doubts in good faith;

### **Section-16.0: GOVERNING LAW(S) AND JURISDICTION:**

The MOU shall be governed and interpreted by, and constructed in accordance with the substantive laws of India. All disputes differences, claims and demands arising under or pursuant to or touching upon this MOU shall be subject to the jurisdiction of Courts of Delhi / New Delhi.

  
(SH. RAJNEESH KUMAR ASTHANA)

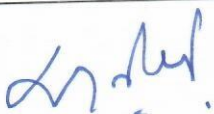

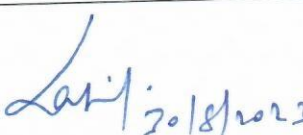

(Page 10 of 12)

  
(PROF. MADHUSUDAN SINGH)

## Section-17.0:

This MOU, written in English, is signed in two copies.


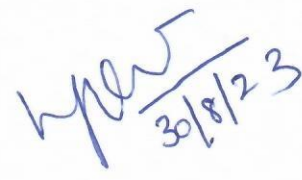
**IN WITNESS WHEREOF**, the parties hereto have caused this MOU to be made in English and executed by their respective duly authorized signatories on this the day and year first above written.


FOR & ON BEHALF OF: <b>NIELIT</b>		FOR & ON BEHALF OF: <b>DELHI TECHNOLOGICAL UNIVERSITY</b>	
Signature With Official Seal & Stamp (If any)		Signature With Official Seal & Stamp (If any)	
Name	SH. RAJNEESH KUMAR ASTHANA	Name	PROF. MADHUSUDAN SINGH
Designation	Registrar	Designation	Registrar
WITNESSES No. 1		WITNESSES No. 1	
Signature With Official Seal & Stamp (If any)		Signature With Official Seal & Stamp (If any)	
Name	Lalit Kumar Dabhi	Name	Dr. Kunwar Singh
Designation	Deputy Director	Designation	Asst. Professor
Name & Nos. of Identity Proof		Name & Nos. of Identity Proof	

(SH. RAJNEESH KUMAR ASTHANA)

(Page 11 of 12)

(PROF. MADHUSUDAN SINGH)

WITNESSES No. 2		WITNESSES No. 2	
Signature With Official Seal & Stamp (If any)		Signature With Official Seal & Stamp (If any)	
Name	Dr. S.K. DHURANDHAR	Name	Dr. Jyoti Yadav
Designation	EXECUTIVE DIRECTOR	Designation	Assistant Prof.
Name & Nos. of Identity Proof		Name & Nos. of Identity Proof	



(SH. RAJNEESH KUMAR ASTHANA)

(Page 12 of 12)



(PROF. MADHUSUDAN SINGH)



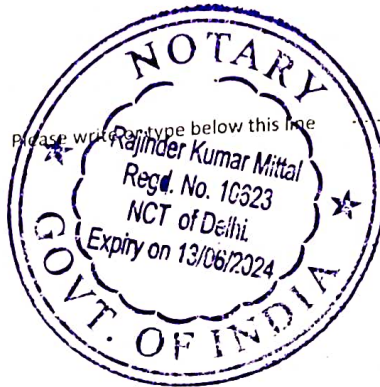
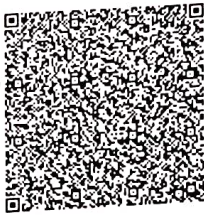
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## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

#### e-Stamp

Certificate No.	: IN-DL42420461303343V
Certificate Issued Date	: 28-Jul-2023 02:22 PM
Account Reference	: IMPACC (IV)/ dl944503/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL94450353492451660489V
Purchased by	: DELHI TECHNOLOGICAL UNIVERSITY INDIA
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: DELHI TECHNOLOGICAL UNIVERSITY INDIA
Second Party	: INDIAN CHEMICAL COUNCIL INDIA
Stamp Duty Paid By	: DELHI TECHNOLOGICAL UNIVERSITY INDIA
Stamp Duty Amount(Rs.)	: 20 (Twenty only)



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

*[Signature]*

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## GENERAL MoU FOR COLLABORATION By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

**And**

**Indian Chemical Council, ICC, Mumbai, INDIA**

This General Agreement for Collaboration is entered into as of 28 July 2022 (the "Effective Date"), by and between Indian Chemical Council, ICC an apex national body representing all branches of the Chemical Industry in India Headquarters in Maharashtra and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate Industry – Academia Bonding, R&D cooperation between the parties hereunder based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1 Collaborate to identify key R&D areas for immediate and future requirements with focus on establishment of a **Centre of Excellence for Polymer Compounding and Membrane Separation processes** in the country.
- 1.2 **Consulting chemical industries** and providing solutions in the area of polymer compounding and processing of virgin and recycled polymers and membrane separation processes.
- 1.3 **Assisting Governmental entities** as a think tank on polymer compounding and processing.
- 1.4 **Providing training to industrial professionals** on various characterization instrumentations.
- 1.5 Exploring Collaborated Educational and Research activities, submission of Research Proposal to any funding agencies.
- 1.6 Long and short term collaborative work on performance analysis, characterization, piloting and long-term evaluation of the developed products with both private and public sectors.
- 1.7 Perform techno-commercial analysis of the developed products and understand the relative merit against other available options.
- 1.8 Joint Training / Workshop/ Online courses/ Seminars/ Conferences/ Symposiums to exchange of knowledge between ICC and Delhi Technological University Researchers/ Members / Stakeholders.
- 1.9 Jointly file patent and get intellectual property (IP) rights for the developed technology/product/process/system.
- 1.10 To exchange information on research and educational programs.
- 1.11 Promote cooperation with third organizations (based on common) interest, international and domestic education, research and other networks.

Registrar

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



21/c

ICC

## ARTICLE II: THE AGREEMENT

- 2.1 At....., this agreement will be administered by Indian Chemical Council ( ICC ) and by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement.
- 2.2 As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3 Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

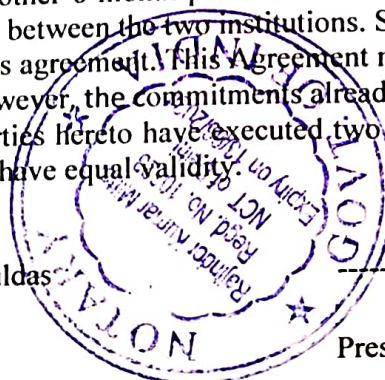
- 3.1 This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.2 Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.3 The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.4 With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation.
- 3.5 Both the institutes may not use the name, logo or trademarks of the other institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.6 The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of three (3) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 month prior to the end of the 3 year term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

Name of President: Mr Bimal Goculdas  
Indian Chemical Council, ICC  
Date:



President, Indian Chemical Council

Name of Registrar: Prof. Madhusudan  
Registrar, Delhi Technological University Delhi  
Date: 28 July 2023

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

Registrar, Delhi Technological University

ATTESTED

NOTARY PUBLIC, DELHI

28 JUL 2023



# दिल्ली प्रौद्योगिकी विश्वविद्यालय DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)



## Memorandum of Understanding (MoU) for the constitution of "ASIJA Memorial Scholarship" between DTU and Sh. Prem Kumar Asija

Date of Agreement: 01.03.2023

### POINTS OF AGREEMENT:

Sh. Prem Kumar Asija, an 1971 Electrical (Electronics) Engineering Batch Distinguished Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 6,00,000/- (Rupees Six Lacs Only)** towards "**ASIJA Memorial Scholarship**" for excellence in Engineering at DTU. This Scholarship is being instituted by Sh. Prem Kumar Asija in the memory of his parents **Sh. Kishan Chand Asija** and **Smt. Sheela Devi Asija** who made innumerable sacrifices to raise their kids to a level higher than their own. The contribution will be made as follows:

(A) An amount of Rs. 3,00,000/- (Rupees Three Lacs Only) will be deposited in an account "**DTU Medals and Scholarship**" with **A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. In the name of Donor, "ASIJA Memorial Scholarship" an amount of Rs. 60,000/- per annum shall be awarded, on Merit cum Means basis, to one student of Electronics and Communication Engineering discipline based on his/her academic performance from 1<sup>st</sup> to VI<sup>th</sup> semester for a period of five years. Only students with CGPA 8.0 or above will be eligible.

(B) For the remaining amount of Rs. 3,00,000/- (Rupees Three Lacs Only) the Fixed Deposit (FD) will be done, by DTU, for 5 years & 6 months. The interest earned for 5 years & 6 months @ 6.50% will be Rs. 1,27,694/-. The total amount (Deposit + Interest) will be Rs. 4,27,694/-. The scholarship amount can be increased to Rs. 85,000/- after the maturity of the FD for the next five years. The selection criteria will be same as for the first five years.

(C) Scholarships will start in the Academic year 2023 and shall be awarded at convocation in 2023.

(D) For local contact, Sh. Prem Kumar Asija

Contact Address: 55- South Park, Kalkaji, New Delhi-110019  
Phone: +91 9810069198, Email: [premkasija@gmail.com](mailto:premkasija@gmail.com)

Registrar  
(Delhi Technological University)

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shaheed Dr. Bhanu Prasad, Bawana Road,  
Delhi-110042

Sh. Prem Kumar Asija  
(DCE 1971 EC Alumnus)

DELHI-110042 DAULATPUR, BAWANA ROAD, DELHI-110042, INDIA

PH. : 011-27871018, 27871022, 43, 44, 45, FAX.: +91-11-27871023, WEBSITE : [www.dtu.ac.in](http://www.dtu.ac.in)



# DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

## Memorandum of Understanding (MoU) for the constitution of "Dr. C.S. Arora & Sushma Arora Scholarship" between DTU and Sh. Chander Shekher Arora

Date of Agreement: 10.02.2023

### POINTS OF AGREEMENT:

Sh. Chander Shekher Arora, an 1971 Mechanical Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 3,00,000/- (Rupees Three Lacs Only)** towards "**Dr. C.S. Arora & Sushma Arora Scholarship**" for excellence in Engineering at DTU. The contribution will be made as follows:

(A) An amount of Rs. 3,00,000/- (Rupees Three Lacs Only) will be deposited in an account "**DTU Medals and Scholarship**" with **A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. In the name of Donor, "**Dr. C.S. Arora & Sushma Arora Scholarship**" amounting to Rs. 60,000/- per annum shall be awarded to a girl student of B.Tech. 1<sup>st</sup> year whose parents annual income is minimum out of all the applicants. If more than 1 girl is eligible on income criterion, then the girl with highest JEE score may be awarded the scholarship.

(B) Scholarships will start in the Academic year 2023 and shall be awarded at convocation in 2023.

(C) For local contact, Sh. Chander Shekher Arora:  
Contact Address: C-77, East of Kailash New Delhi-110065  
Phone: +91 9868259509, Email: drcsarora@gmail.com

Registrar

(Delhi Technological University)

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahabad Daulatpur, Bawana Road,  
Delhi-110042

Sh. Chander Shekher Arora  
(DCE 1971 ME Alumnus)



# DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

**Memorandum of Understanding (MoU) for the constitution of "Jagjit & Paramjit Ahuja Scholarship" between DTU and Sh. Jagjit Singh Ahuja**

**Date of Agreement: 09.02.2023**

## POINTS OF AGREEMENT:

Sh. Jagjit Singh Ahuja, an 1971 Civil Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 3,00,000/- (Rupees Three Lacs Only)** towards "**Jagjit & Paramjit Ahuja Scholarship**" for excellence in Engineering at DTU. The contribution has been made as follows:

- (A) An amount of Rs. 3,00,000/- (Rupees Three Lacs Only) has deposited in an account "**DTU Medals and Scholarship**" with A/C number **36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. In the name of Donor, "**Jagjit & Paramjit Ahuja Scholarship**" amounting to Rs. 60,000/- per annum shall be awarded to a second year student of Civil Engineering discipline based on his/her academic performance from 1<sup>st</sup> to II<sup>nd</sup> semester, and with the family income below 5 Lacs.
- (B) Scholarships will start in the Academic year 2023 and shall be awarded at next convocation in 2023.
- (C) For local contact, Sh. Jagjit Singh Ahuja:  
Contact Address: 174, 3<sup>rd</sup> floor, Hargobind Enclave, Karkadooma, Delhi-110092  
Phone: +91 8447404746,  
Email: jagjitsinghahuja@gmail.com

**Registrar**

(Delhi Technological University)

**Registrar**  
**Delhi Technological University**  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

**Sh. Jagjit Singh Ahuja**  
(DCE 1971 CE Alumnus)



# DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

## Memorandum of Understanding (MoU) for the constitution of "Vijay Birbal Gold Medal" between DTU and Sh. Vijay Birbal

Date of Agreement: 03.02.2023

### POINTS OF AGREEMENT:

Sh. Vijay Birbal, a 1971 Mechanical Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) has contributed **Rs. 5,00,000/- (Rupees Five Lacs Only)** towards "Vijay Birbal Gold Medal" for excellence in Engineering at DTU. The contribution details are as follows:

(A) An amount of Rs. 5,00,000/- (Rupees Five Lacs Only) will be deposited in an account **"DTU Medals and Scholarship" with A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH, DELHI, for starting "Vijay Birbal Gold Medal" for excellence in Engineering. Every year, a Medal (preferably 100 gm silver medal with gold plating, having DTU logo on one side and donor's inscription on the reverse side), and a cash award of Rs. 40,000 shall be awarded to one final year student of Mechanical Engineering based on his/her academic performance from 1<sup>st</sup> to VI<sup>th</sup> semester (purely on merit basis). The award is for 10 years only and not for the life time.

(B) Scholarships will start in the Academic year 2023 and shall be awarded at convocation in 2023.

(C) For local contact, Sh. Vijay Birbal:  
Contact Address: A-481, Sarita Vihar, Mathura Road, New Delhi-110076  
Phone: +91 9312252929  
Email: vijaybirbal@rediffmail.com

Registrar

(Delhi Technological University)

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Sh. Vijay Birbal

(DCE 1971 ME Alumnus)



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Government of National Capital Territory of Delhi

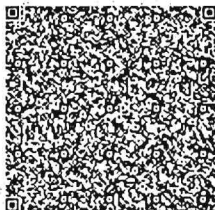
₹100

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Certificate No. : IN-DL31986253031075U  
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 Unique Doc. Reference : SUBIN-DLDL-SELF38385812349975U  
 Purchased by : RAVINDER SINGH  
 Description of Document : Article 5 General Agreement  
 Property Description : LEASE AGREEMENT IN BETWEEN DELHI TECHNOLOGICAL UNIVERSITY(DTU)FIRST PARTY AND DTU INNOVATION AND INCUBATION FOUNDATION(DTU-IIF) SECOND PARTY  
 Consideration Price (Rs.) : 100  
 (One Hundred only)  
 First Party : DELHI TECHNOLOGICAL UNIVERSITY  
 Second Party : DTU INNOVATION AND INCUBATION FOUNDATION DELHI  
 Stamp Duty Paid By : DTU INNOVATION AND INCUBATION FOUNDATION DELHI  
 Stamp Duty Amount(Rs.) : 100  
 (One Hundred only)

सत्यमेव जयते

₹100



SELF PRINTED CERTIFICATE TO BE  
 VERIFIED BY THE RECIPIENT AT  
 WWW.SHCILESTAMP.COM

IN-DL31986253031075U

Please write or type below this line

For DTU INNOVATION AND  
 INCUBATION FOUNDATION  
*[Signature]*  
 Authorised Signatory

Registrar  
 Delhi Technological University  
 (Formerly Delhi College of Engineering)  
 Shahbad Daulatpur, Bawana Road,  
 Delhi-110042.

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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.

## LEASE AGREEMENT

THIS LEASE AGREEMENT is made on the 15<sup>th</sup> day of December, 2022 “Effective Date” at Delhi Technological University, Shahbad Daulatpur, Bawana Road, Delhi-110042. India, Delhi “Place”

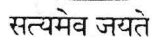
Between

**Delhi Technological University (DTU)**, established vide Delhi Act 6 of 2009 at Bawana Road, Delhi-42 (hereinafter referred to as the “LESSOR”) represented by Registrar, Prof. Madhusudan Singh S/O Shri Janardan Singh aged about 53 years, R/O Flat No. 7 Type V, Delhi Technological University, Bawana Road, Delhi-110042 which expression unless repugnant to the context or meaning thereof, will include its successors and assigns of **FIRST PART**.

And

**DTU INNOVATION AND INCUBATION FOUNDATION (DTU IIF)**, established as Section 8 company under Companies Act of Govt. of India which is an Incubation Centre i.e. Technology Business Incubator (TBI) of Delhi Technological University (DTU), and having its registered address at 3rd Floor, Central Library, DTU, Bawana Road, Delhi - 110042 (hereinafter referred to as the “LESSEE”) represented by its Chief Executive Officer and Director, Prof. Girish Kumar S/o Shri Chhumi Lal, aged about 52 years, R/O E-6, ITI PUSA Campus, Delhi-110012 which expression unless repugnant to the context or meaning thereof, shall include its successors and assigns) of **SECOND PART**.

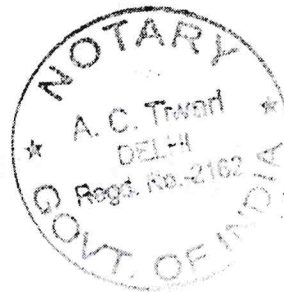
LESSOR and LESSEE are hereafter individually referred to as “Party” and collectively referred to as the “Parties”



# Government of National Capital Territory of Delhi

## e-Stamp

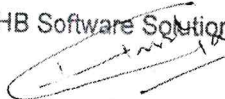
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Certificate Issued Date	: 19-Nov-2022 04:40 PM
Account Reference	: IMPACC (IV)/ dl774703/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL77470312382906255832U
Purchased by	: Delhi Technological University
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: Delhi Technological University
Second Party	: HBSS Connect Corp US
Stamp Duty Paid By	: Delhi Technological University
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



Please write or type below this line



HB Software Solutions India Pvt. Ltd.



Director



Registrar

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shabbad Daulpur, Bawana Road,  
Delhi-110042

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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.



# Memorandum of Understanding

Between

**Delhi Technological University**

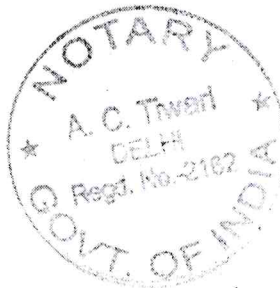
And

**HBSS Connect Corp., US**

(Represented locally by its Indian Partner M/s HB Software Solutions India Pvt Ltd.)

HB Software Solutions India Pvt. Ltd.

Director



Registrar

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

---

**Memorandum of Understanding  
between  
Delhi Technological University  
And  
HB Software Solutions**



This Memorandum of Understanding (MOU) is entered into on 19-11-2022 between **Delhi Technological University** (formerly Delhi College of Engineering), located at Shahabad Daulatpur, Main Bawana Road, Delhi, established under the Delhi Act 6 of 2009 by Government of NCT of Delhi and **M/s HBSS Connect Corp. (formerly HB Software Solutions)** with its headquarters at 1075, Westford Street, Lowell, MA and represented locally by **M/s HB Software Solutions India Private Ltd.** (authorized distributor of HBSS Software in India), with its office at 14/2 Infotech Center, Near Hanuman Mandir, Old Delhi-Gurgaon Road, Gurgaon.

**Delhi Technological University (formerly Delhi college of Engineering)** is a non-affiliating teaching-cum-research University focusing its attention on work quality human resource development, industry relevant and mission-oriented research, research centric innovations and on service to the community through development of socially relevant technologies. DTU is a tech university "Inspired by Talent and Powered by Innovations".

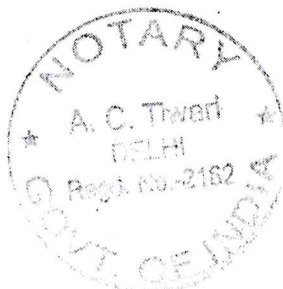
It has a checkered history spanning over 81 years and has a strong alumni base in India and abroad. The troika of education, research and innovations is the guiding philosophy of DTU and the University is firmly committed to empower India with the "Wings of Knowledge and Power of Innovation". It is committed to foster the power of science and ensure its effective integration to create the might of technology within the campus of the University.

**Whereas** HBSS provides training and technology solutions for operations and infrastructure management for organizations involved in:

- a) Transit call center set up.
- b) Citizen services (such as 104, 108, 102).
- c) Corporate and Employee Transportation.
- d) Carpooling.
- e) Defense Service Transportation.
- f) School Transportation.
- g) Public Transportation Services Viz. Fixed Route, Demand Response & Bus Rapid systems.
- h) Brokered transportation management.
- i) Mobile device technology for Vehicle Tracking, Manifest Management, Fleet Management, and Electronic Fare Card Systems.

HB Software Solutions India Pvt. Ltd.

Director



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## Purpose

DTU and HBSS wish to get into an understanding to do Research and Capacity building in the field of ITS and Electric Vehicles. Initially, the MOU will be put in place with Electrical and Mechanical Engineering departments of the DTU. However, the ambit of MOU may be expanded for other departments of DTU as the need may be.

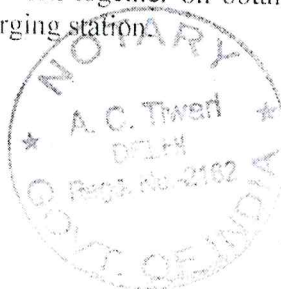
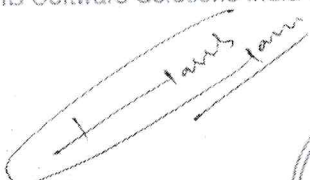
Whereas the Delhi Technological University (DTU) and HB Software Solutions (HBSS), wish to create a Joint Interface Committee (JIC) with members team headed by Dean (IRD), DTU with members from DTU & HBSS nominated by the VC of DTU and CEO of HBSS, with matching expertise in Electrical and Mechanical Engineering with specialization in relevant areas covered under this MOU. All decisions related to implementation of the following MOU will be taken by this Joint Interface Committee.

The MOU shall cover the following aspects and terms and conditions by the joint interface committee within the purview of rules and regulations of DTU and HBSS:

## Project Details

1. HBSS will work with DTU to develop an Intra Campus Transportation System using a Self-Sustained Mini Electric bus. The bus prototype will be jointly developed by HBSS and DTU in the DTU Labs. The vehicle will be designed in such a way that the vehicle will initially run-on Solar energy. The current generated through the rotating motor (with dynamo) will charge a set of batteries which will be used as an alternate source of energy once the solar power goes away. This will be the key idea to develop such a model.
2. HBSS can bring a significant value in this association by bringing in technologies from US and with DTU, we can innovate new technology models. These can help DTU to develop a prototype in EV (equipped with GPS) and that can be later utilized for further research purposes.
3. HBSS will donate 2-3 EVs that it is manufacturing in its Manesar plant. The EVs will be drivable by students and will operate on a similar pattern as zip car. These will be kept in the DTU Lab. These would be worked upon by HBSS engineers and DTU students to innovate the above-mentioned technology in the vehicle.
4. A solar charging-based charging station will also be developed to charge the EVs with the research scope to establish such Solar energy-based EV charging stations to meet the demand in Rural areas. HBSS and DTU will work together on obtaining grant to develop a 'rural' independently operated micro-EV-charging station.

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5. The EVs will provide transportation to the students within the campus of DTU spread across 166 acres. Since these vehicles will be operating within campus they may not have to be registered, though any experiment with these vehicles will be done under supervision of HBSS staff only. HBSS and DTU will partner for on-going research and make efforts to secure grants from the various research agencies/NGO/inter-governmental finance institutions or any agency working in the same research domain. This will help the students in intra-campus transportation and will help in hands-on experience for students.
6. HBSS will also investigate with DTU to provide on-campus in-curriculum internships to qualified students, during semesters and breaks.
7. The EVs would be equipped with CCTVs and will have a sensor within the bus where the students can punch a QRYde powered Smart card. The sensor will have a screen attached to it which will display the name, class, and enrolment number of the student. QRYde Transportation Management Software will generate a Report every day, weekly and on monthly basis to show as to who all students boarded the bus.
8. It is based on the green transportation concept with no cash payments involved to promote Digital India.
9. Apart from this HBSS and DTU will also research on EV batteries broadly on:
  - I. battery weight.
  - II. charging time.
  - III. cost performance ratio.
  - IV. battery safety.
  - V. BMS Accuracy.

### Joint Research and Development

1. HBSS with its vast experience in development and implementation of technologies pertaining to transportation systems will define problems/ cases which require research work involving indigenization of Intelligent Transport Systems technology adapted to Indian scenario. It will depute its personnel to work about ITS and battery powered electric vehicles and innovations in these areas.

The Joint Interface Committee (JIC) will nominate scientists/engineers/ faculty members from each side to undertake joint projects on the problems defined by HBSS. DTU will mark appropriate space in the DTU campus for a research lab meant for execution of the research project. The creation of facilities will jointly be done by both DTU and HBSS. The JIC will be entrusted to finalize the roadmap for such facility. The facility shall be capable of design, analysis, development, and prototyping of the technology providing a beneficial solution to the assigned problems by HBSS.

2. HBSS may consider giving fellowships to the PhD scholars who will work for the problems defined by HBSS. The disbursement of such scholarships will be through the JIC.

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Director

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3. The officers/ engineers nominated from HBSS having MTech/ME/MBA degree taking up such projects will stand a chance to get the work credited as their thesis work for PhD, provided they additionally complete the prescribed course work as per the PhD ordinance of DTU.
4. DTU and HBSS can collectively consider working upon the modalities to set up an ITS Lab at DTU. This can be taken up later if both entities agree to go ahead in this direction.
5. The DTU faculty and HBSS are encouraged to apply for research funding from various agencies of the Government of India. The budget component of these project proposals should have provision for independent grants to the two organizations with their respective overheads. Relevant area for joint research and consultancy projects can be decided upon mutual discussion.

### **Develop skilled manpower for Job opportunities in ITS**

With the background of developing and implementing technologies in transportation, HBSS in association with DTU may develop understanding to develop skilled professionals well versed in ITS and other technology areas of transportation. The said objectives may be undertaken by:

1. Specialized hands-on training/ seminars/ workshop on latest ITS technologies.
2. Sessions on how to build transportation businesses using ITS and electrical vehicles.
3. Helping students to indulge in research assignments related to feasibility studies pertaining rural and urban transportation. This will help them to gain experience.
4. Facilitate interactions with industry professionals in ITS from US to gain knowledge.

### **Internships for DTU students and visits for campus placement**

HBSS will entertain 3-5 students of DTU for summer internship/ training in their projects. Such students will be exposed to the various technology advancements in the field of ITS and electric vehicles.

### **Intellectual Property**

The prototype developed during this Research will be intellectual property of HBSS. DTU will not share this concept with any other business organization.

### **Confidentiality**

None of the parties shall use or replicate the information confidential to the business/ work of other party without written approval. Also, they will not partner with a business alliance of the other partner without the mutual agreement and consent. Implications imposed due to fraudulent practices carried upon by a partner shall not be the responsibility of the other partner.

HB Software Solutions India Pvt. Ltd.

Director

Registrar

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana P.  
Delhi-110042

## Tenure

This MoU is valid for a period of 3 years from the date of signing and would be re-evaluated after that for further extension by both the entities.

## Termination

This MoU can be terminated by any party by giving one month notice; prior to the proposed date of termination.


## Disputes

Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this MOU between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the agreement.

In case of any problem arising with respect to the performance of work under this MOU, the same will be referred to the VC, DTU and CEO, HBSS who will mutually resolve the matter.

In case the same is not resolved, then same may be referred to the sole arbitrator to be appointed by VC of DTU, who will decide the disputes as per the provisions of the Arbitrations and Conciliations Act, 2016 as amended from time to time, whose award shall be final and binding, subject to legal remedies available under the law. Such differences shall be a submission to arbitration under the Indian Arbitration and Conciliation Act, 2016 and any modifications, Rules, or re-enactment thereof. The arbitration proceedings will be held at Delhi.

Signed on 19<sup>th</sup> day of November 2022 at New Delhi

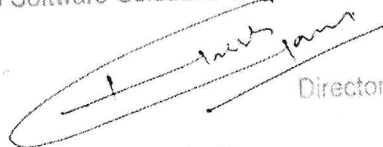
  
Registrar  
Delhi Technological University

Witnesses:  
1. Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

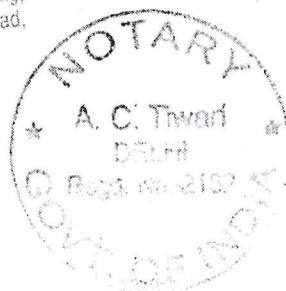
1.

2.

HB Software Solutions India Pvt. Ltd.

  
Director

Mr. Harsh Gaur  
Director,  
HB Software Solutions India P Ltd.



ATTESTED  
NOTARY PUBLIC  
DELHI INDIA  
19 NOV 2022



## **MEMORANDUM OF UNDERSTANDING**

**Between**

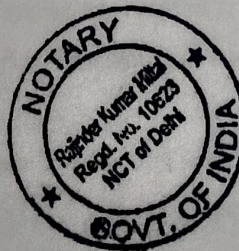
**Delhi Technological University**

**And**

**Vijay Shekhar Sharma**

**And**

**Paytm Foundation**



This MoU is made at New Delhi on the 28<sup>th</sup> day of October 2022 (hereinafter referred to as the "MoU".)

**BETWEEN**

Delhi Technological University, incorporated as a non-affiliating, teaching and research University pursuant to Delhi Technological University Act, 2009 (Delhi Act 6 of 2009), under the Government of NCT of Delhi having its office at Shahbad Daulatpur, Main Bawana Road, Delhi-110042 (hereinafter referred to as "DTU") which expression, unless repugnant to the context or meaning thereof, includes its successors and assigns, of the First Part;

**AND**

Shri Vijay Shekhar Sharma, son of Late Shri Sulom Prakash Sharma, currently residing at S-491, 2<sup>nd</sup> Floor, Block - S, Greater Kailash-2, Delhi, 110048 (hereinafter referred as "Donor/Vijay") will be responsible for donation of funds directly to Delhi Technological University, of the Second Part.

**AND**

Paytm Foundation, a Public Charitable Trust formed exclusively for philanthropic purposes inter - alia the area of education and financial & digital literacy with its registered office at First Floor, Devika Tower, Nehru Place, New Delhi-110 019 (hereinafter referred to as "Paytm Foundation" / "Foundation", which term shall, unless repugnant to the context or meaning thereof, mean and include its, administrators and successors) of the Third Part.

The DTU shall be represented by its authorized signatory, Registrar, DTU.

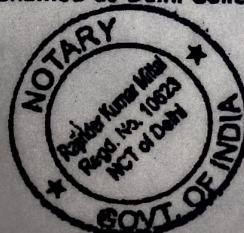
The Paytm Foundation is herein represented by Mr. Dharmender Jhamb (s/o Shri Ishwar Dass), or any other person as nominated by Paytm Foundation from time to time.

("DTU", "Donor" and "Paytm Foundation" shall hereinafter be referred to individually as a "Party" and collectively as "Parties").

**1. PREAMBLE**

WHEREAS, the Party of the First Part was initially established with the name of Delhi Polytechnic in the year 1941 and was renamed as Delhi College of Engineering in

2.



1965. In 2009, Delhi Technological University was reconstituted from Delhi College of Engineering by the Government of NCT of Delhi vide Delhi Technological University Act, 2009 (Act 6 of 2009). The Institution has an illustrious history spanning over 8 years.

WHEREAS the vision of DTU is to be a world-class university through education, innovation and research dedicated to the service of humanity.

WHEREAS the Donor is willing to donate a one-time lump sum of money to DTU for the noble cause as mentioned in Clauses 2.B in this MoU.

WHEREAS at the request of the DTU and the Donor, the Paytm Foundation has agreed to oversee the implementation of the Project (defined below in clause 2.B.4) carried out by DTU against the donation received from the Donor.

## 2. SCOPE OF MoU:

NOW THEREFORE, as duly communicated and agreed by and between the Parties, the conditions of this MoU are as follows:

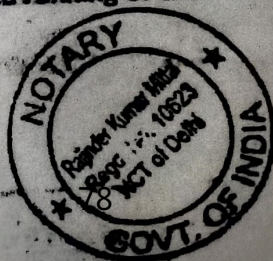
### A. Donor Responsibilities:

Donor will donate INR 2.00 crores (hereinafter referred to as "Donation") to Registrar, DTU Receipt A/C directly in lump-sum in Account No. 30875679275 which shall be utilized by DTU as per milestones defined in clause 2.D below. Other than the donation as agreed hereunder, the Donor will have no further role or responsibility under this MoU. The Donor is donating the amount for the purpose as mentioned in Clause 2. B below.

### B. DTU Responsibilities

B.1. DTU shall utilize funds donated by Donor for setting up a vehicle as a 'Lab on Wheels' ("Mobile Lab"). To this end, DTU shall:

- (i) Purchase one new vehicle, duly owned by and registered in the name of DTU, which will then be equipped with required infrastructure for the purpose set out below;
- (ii) Hire staff to ensure uninterrupted running of the Mobile Lab to various parts of Delhi, UP and other states;



- (iii) Select students/Instructor under the guidance of DTU faculty members at the Mobile Lab and implement an employability skills syllabus to be taught to the candidates registered for the certificate course;
- (iv) Identify districts or villages where the Mobile Lab will travel and conduct the employability skills sessions.

**B. 2. To establish test & training facilities for Electric Vehicle ("EV") Technology:**

To establish test and training facilities, hiring of technical manpower for running the Centre of Excellence for Electric Vehicles and Related Technologies (hereinafter referred to as "COE for EVRT").

**B. 3. Establish a scholarship:**

DTU shall establish a scholarship for 'tuition fees; and/or hostel fees; and/or any other academic fees' which shall be given to new student(s) per year for 5 (five) years. The scholarship is applicable to students in the second year of their graduation program in DTU in any engineering branch. The scholarship will be provided to the highest scorer from amongst the first year students from the Economically Weaker Section(EWS) category. For the limited purpose of the scholarship, the relevant clauses of this MoU shall survive for two (2) years from the expiration date.

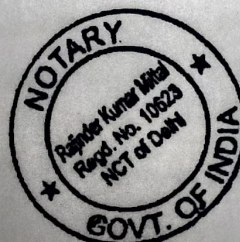
**B. 4. The Project:**

The initiatives described in clauses B. 1, B. 2 and B. 3 above shall collectively constitute the Project, which shall be operated at the sole risk and responsibility of DTU.

**B. 5. Vehicle Insurance:** DTU shall maintain all necessary insurance as required under applicable laws, for the ownership and operation of vehicle to be used for the purposes of section 2.B.4 above. On the other Party's request, DTU shall provide a certificate or other proof relating to insurance, describing the amount and coverage of its insurance.

**C. Paytm Foundation's Responsibilities.**

**C.1. Paytm Foundation may, at its option:**



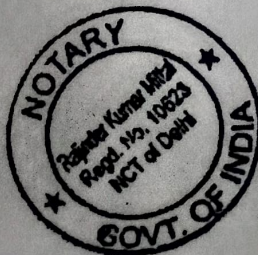
- Oversee the establishment of testing and training facilities and hiring technical manpower for the COE for EVRT, by DTU and provide necessary advisory as and when required;
- Oversee the setting up and operation of the Mobile Lab by DTU and provide necessary advisory as and when required;
- Use best efforts to assist in on boarding Environment Department of Delhi Technological University as an academic partner of Clean Air Project of UNEP; and
- Overall keep a track of Implementation of Project carried out by DTU against the Donation received from the Donor;

C.2. Paytm Foundation shall be consulted by DTU for any remaining or unspent portion of payments/donations received by DTU from the Donor.

#### D. Project Milestones

A committee shall be formed with personnel from DTU and Paytm Foundation who will monitor the implementation of the Project with following indicative milestones. The committee shall monitor the Project milestones and approve release of funds based on utilization certificate from DTU.

A	Mobile Lab	Cost (in Rs.)
1	Purchase of new vehicle	28,00,000
2	Purchase of Lab equipment	11,00,000
3	Launch of Vehicle	5,00,000
4	Salary and O&M costs for three(3) years	39,20,000
4a	Salary 25K per month for a licensed driver & 20K for cleaner (45000x36)	16,20,000
4b	35K per month for Lab Instructor (35000x36)	12,60,000
4c	15K per month for Fuel and O&M (15000x36)	5,40,000
4d	Contingencies	5,00,000
	<b>Total A</b>	<b>83,20,000</b>



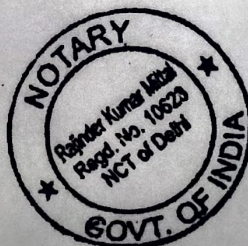
<b>B</b>	<b>To establish test &amp; training facilities for EVs</b>	
<b>1</b>	<b>Purchase of equipment and facilities for EV test &amp; training</b>	<b>81,30,000</b>
<b>2</b>	<b>Expenditure on Operation and Scheduled Maintenance</b>	<b>20,00,000</b>
<b>3</b>	<b>Expenditure on two doctoral (Ph.d) fellowships in CoE for EVRT @ Rs. 33000/per student for three(3) years</b>	
<b>4</b>	<b>Expenditure on Chair Professorship @Rs. 2,50,000 per month for three(3) years</b>	
	<b>Total B</b>	<b>1,01,30,000</b>
<b>C</b>	<b>Scholarship</b>	
	<b>Scholarship amount –Rs. 3lakh/ year</b>	
	<b>Total C</b>	<b>15,00,000</b>
<b>D</b>	<b>Miscellaneous expenses Total D</b>	<b>50,000</b>
	<b>Grand total (A+B+C+D)</b>	<b>2,00,00,000</b>

### 3. TENURE OF MoU

This MoU shall be effective from the date of execution and shall remain valid for a period of 36 months from the date of signing of MoU or till such time that any part of the Donation remains unspent, whichever is longer.

### 4. CONFIDENTIALITY

- 4.1 For the purposes of this MoU, the term "Confidential Information" shall mean all non-public written, electronic, oral, visual or intangible information disclosed by disclosing Party to the receiving Party or as may be voluntarily learnt or observed by receiving Party or its employees or representatives. Each Party will maintain the confidentiality of any information it receives from the other Party which is marked confidential or proprietary or which would, under the circumstances, appear to a reasonable person to be confidential or proprietary.



4.2 It may be necessary for disclosing Party to disclose or exchange certain confidential and proprietary information with receiving Party. The receiving Party undertakes on its behalf and on behalf of its employees/representatives/associates/ students etc. involved in the Project to maintain a strict confidentiality and refrain from disclosure thereof, of all or any part of the information and data exchanged/generated from the Project under this MoU for any purpose other than in accordance with this MoU and for the commercialization of the Project. Notwithstanding anything contained in this clause, the Donor and/or Paytm Foundation reserves the right to publicize the engagement under this MoU.

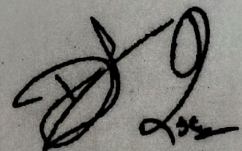
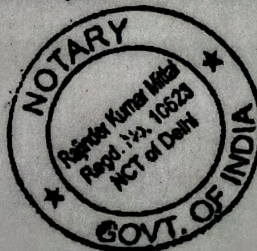
4.3 The confidentiality does not apply to information:

- i. that is in the public domain through no fault of a Party,
- ii. is required to be disclosed by law, except that receiving Party will disclose only such information as is legally required and will use reasonable efforts to obtain confidential treatment for any Confidential Information that is so disclosed and shall immediately notify the Disclosing Party on the aforesaid if the same not prohibited by applicable law;
- iii. is disclosed with the consent of the disclosing Party,
- iv. is independently developed by the receiving Party without use of any Confidential Information of the disclosing Party or
- v. was previously in the receiving Party's possession, as shown by its pre-existing records, without violation of any responsibility of confidentiality

4.4 The receiving Party shall not use the confidential information of disclosing Party except with the prior consent of disclosing Party or where the disclosure is to employees, agents or consultants on a need-to-know basis for the purposes of this MoU.

4.5 Notwithstanding anything contained in this MoU, either Party shall adhere to applicable laws including the provisions of the Information Technology Act, 2000 and/or such other applicable laws with respect to data security, breach of privacy and confidentiality.

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- 4.5 The Party(ies) agree that in case of breach of any provision of this Clause by any receiving Party, the disclosing Party shall be entitled to seek Injunctive relief, in addition to any other rights or remedies which they may have against such breach.

## 5. FORCE MAJEURE

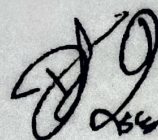
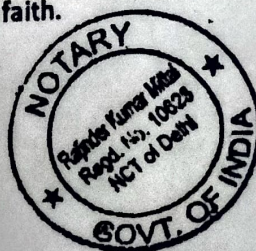
Neither Party shall be held responsible for non-fulfillment of their respective responsibilities under this MoU due to the exigency of one or more of the force majeure events such as but not limited to acts of god, war, flood, earthquakes, strikes not confined to the premises of the party, lockouts beyond the control of the Party claiming force majeure, epidemics, pandemic riots, civil commotions etc. provided on the occurrence and cessation of any such event the Party affected thereby shall give a notice in writing to the other within thirty (30) days of such occurrence or cessation. If the force majeure conditions continue beyond three (3) months, the Parties shall jointly decide about the future course of action which shall necessarily include deployment of any unspent amount of the Donation by DTU in a manner approved by the Donor and / or the Paytm Foundation.

## 6. TERMINATION OF ENGAGEMENT AND EXIT POLICY

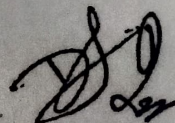
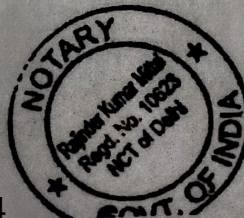
The Donor and/or Paytm Foundation can terminate this MoU at any point by giving one (1) month advance notice to the DTU in writing of its intention to terminate the MoU. Even after the termination of the MoU, DTU shall continue with the Project and ensure fulfillment of the objectives of the donation as provided in this MoU, or consult with Paytm Foundation for the next course of action, including any return of unutilized funds.

## 7. APPLICABLE LAW, JURISDICTION, DISPUTE RESOLUTION, AND MISCELLANEOUS

- 7.1 This MoU and the rights and responsibilities of the Parties under or arising out of this Agreement shall be construed and enforced in accordance with the laws of India.
- 7.2 The Parties shall endeavor to resolve any dispute relating to the rights, duties, terms and conditions contained in this MoU amicably through conciliation by engaging in discussions and mutual negotiations in good faith.



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- 7.3 Should there be a dispute between the Parties in pursuance of the MoU or relating to any aspect of cooperation then, such dispute shall be resolved by referring it to the Vice Chancellor, DTU and nominee of Donor who shall be jointly and mutually discuss and consider an amicable settlement.
- 7.4 The courts in New Delhi will have exclusive jurisdiction.
- 7.5 Each Party will be fully responsible for what it does as part of this collaboration; this includes being responsible for the actions of its respective staff, consultants, and other personnel and contractors.
- 7.6 Unless otherwise agreed, Intellectual Property Rights created under this MoU shall vest in Paytm Foundation. Paytm Foundation may grant DTU, a royalty free, non-exclusive license to print, copy, disseminate, or otherwise use this material in a lawful manner, provided that such use is for non-commercial purposes and that full acknowledgement of Paytm Foundation and DTU are prominently displayed within any such materials.
- 7.7 Either Party shall not use the other Party's name or any abbreviation thereof, in connection with its business or otherwise without the express prior written approval of the other Party in each case.
- 7.8 The Parties herein confirm that they shall not offer any gifts, payments, services, or other favors to the employees, personnel of the other Party where these would, or might appear to improperly influence the employee in performing his or her duties for such Party. Consistent with each Party's requirement that all business conducted adheres to applicable laws and regulations, the use of bribes, secret compensation or kickbacks is strictly prohibited. Each Party shall ensure that it and its sub-contractors and agents involved in the performance of this Agreement will comply with all applicable laws including anti-bribery, money laundering etc.
- 7.9 DTU shall be solely and wholly responsibly for conducting / operating the Project (or any part thereof), including any liability(ies), claim(s), demand(s), etc. that arise(s) from it. Notwithstanding anything to the contrary, the Donor and/or Paytm Foundation or its personnel shall not be liable for any claim, loss or damage, loss of profits, business, revenue and/or goodwill, whether actual, direct, special, indirect or

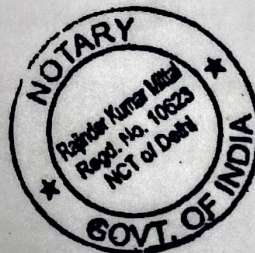


consequential. The Parties acknowledge that the role of the Donor is limited to the philanthropic Donation made by him and thus the Donor and/or Paytm Foundation shall not have any liability under this MoU. The Project shall be implemented at the sole risk and consequence of DTU.

7.10. DTU agrees to indemnify and hold harmless the Donor, Paytm Foundation and its assigns, officers, employees, and representatives from and against any losses, damages, liability, claims, costs, penalty and expenses (including, without limitation, reasonable attorney's fees) incurred by reason *inter alia* of (i) any breach or alleged breach by DTU of its obligations; (ii) any violation by DTU of applicable law or regulation (iii) any violation of third party intellectual property rights by the DTU, (iv) any accident or mishap arising as a result of the Project or any part thereof.

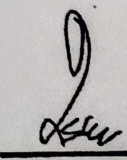
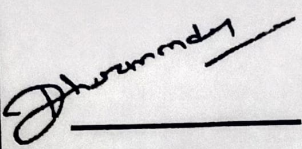
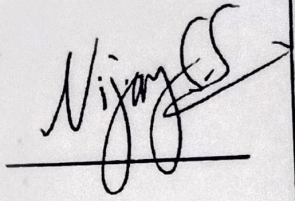
7.11 No amendment (including any modification or supplement) to this MoU will be valid unless it is in writing and signed by authorized representatives of the Parties.

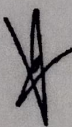
7.12 Failure to enforce compliance with any term or condition of this MoU shall not constitute a waiver of such term or condition of this MoU or the right to subsequently enforce such term or condition in the future. No waiver, by either party, of any provision of this MoU shall, in any event, become effective unless the same shall be in writing and such waiver shall be effective only in the specific instance described and for the purpose that the waiver is given.

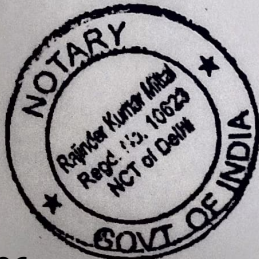


In witness thereof the parties have caused their authorized representatives to sign this MoU on the date mentioned hereunder.

Signed on this \_\_\_\_ day of October 2022.

<p>For &amp; on behalf of DTU, Govt. of NCT of Delhi</p> <p></p>	<p>For &amp; on behalf of Paytm Foundation:</p> <p></p>	<p>By Shri Vijay Shekhar Sharma</p> <p></p>
<p>Signature Name Designation Postal Address Seal</p> <p>Witness (Name &amp; Address)</p> <p>1.....</p>	<p>Signature Name Designation Postal Address Seal</p> <p>Witness (Name &amp; Address)</p> <p>1.....</p>	<p>Signature Name Designation Postal Address Seal</p> <p>Witness (Name &amp; Address)</p> <p>1.....</p>





ATTESTED  
  
NOTARY PUBLIC DELHI INDIA  
28 OCT 2022



Memorandum of Understanding (MoU) for awarding scholarship to Delhi Technical University (DTU) students between DTU and Sudha Kotwal Educational Charitable Trust

Date of Agreement: 26<sup>th</sup> September, 2022

**POINTS OF AGREEMENT:**

M/s Sudha Kotwal Educational Charitable Trust contributed Rs. 3,00,000/- (Rupees Three Lacs Only) towards scholarship to be given to DTU students under the name of scholarship "Sudha and Wasudeo Kotwal Scholarship" at DTU. The points of agreement are as follows:

- (A) The "Sudha Kotwal Educational Charitable Trust" has deposited an amount of Rs. 3,00,000/- (Rupees Three Lacs Only) in an account of DTU, namely, "DTU Medals and Scholarship" with A/C number 36423599642, IFSC: SBIN0010446, with the State Bank India, DCE BRANCH, DELHI for instituting the "Sudha and Wasudeo Kotwal Scholarship" of Rs. 60,000/- (Rupees Sixty Thousand Only) per annum for five years to be awarded to B. Tech (2<sup>nd</sup> year) student on merit-cum-means basis. The merit of the student shall be considered on the basis of academic performance in first year of B. Tech. The scholarship will be awarded to one B. Tech (2<sup>nd</sup> year) student every year who has been/will be admitted in DTU in five academic sessions starting from year 2022-23.
- (B) Sudha Kotwal Educational Charitable Trust has desired and agreed to deposit Rs 3.00 lacs in each coming year for 5 years for scholarship to be awarded to one student of DTU's B. Tech course in the 2<sup>nd</sup> year which will be decided mutually by the Trust and DTU. The number of eligible students shall be increased every year till five years and decreased subsequently in coming years. The number of students each year is given below:

Academic year	Number of student/s eligible for scholarship
2022-23	01
2023-24	02
2024-25	03
2025-26	04
2026-27	05
2027-28	04
2028-29	03
2029-30	02
2030-31	01

Contd...2/-

(C) The University will make its best efforts to identify the right recipient and is not bound to give all the details of selection process to the donor. The list of the beneficiaries will be uploaded on the University website.

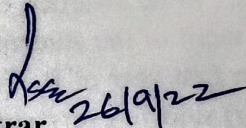
(D) The scholarship will be governed by the guidelines decided by the University. The eligible student/s shall be selected as per criteria decided by the designated Selection Committee of DTU.

(E) Scholarships will start in the year 2022 and shall be awarded in the Convocation ceremony.

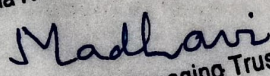
(F) For contact, Mr. Madhavi Kotwal Samson, Managing Trustee (SKECT)  
**Local Contact Address:** B-303, Yamuna Apartments, Alaknanda, New Delhi 110019, Email: skectrust2019@gmail.com

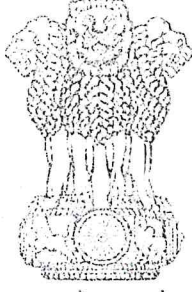
(G) The Designated Selection committee referred to above will be comprised of the following members:

- I. Hon'ble Vice Chancellor or his nominee
- II. Dean Student Welfare
- III. Dean, OEA (for "Sudha and Wasudeo Kotwal Scholarship" only)
- IV. Chairperson of Medals & Scholarship Committee
- V. One Trustee of M/s Sudha Kotwal Educational Charitable Trust

  
Registrar  
(Delhi Technological University)

**Registrar**  
**Delhi Technological University**  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

For Sudha Kotwal Educational Charitable Trust  
  
Madhavi Kotwal Samson  
(Managing Trustee, SKECT)



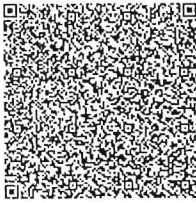
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## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

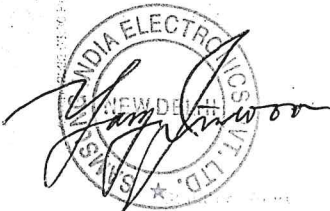
#### e-Stamp


Certificate No. : IN-DL13178417852237U  
Certificate Issued Date : 01-Apr-2022 03:36 PM  
Account Reference : IMPACC (SH)/ dlshimp17/ SUPREME COURT/ DL-DLH  
Unique Doc. Reference : SUBIN-DLDSLHIMP1714177377820869U  
Purchased by : SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED  
Description of Document : Article 5 General Agreement  
Property Description : Not Applicable  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED  
Second Party : Not Applicable  
Stamp Duty Paid By : SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED  
Stamp Duty Amount(Rs.) : 50  
(Fifty only)



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This e-stamp is an integral part of the Memorandum of Understanding entered into on this 7<sup>th</sup> day of July, 2022 by and between Delhi Technological University (DTU) and M/s. Samsung India Electronics Private Limited.



  
Registrar  
Delhi Technological University  
(Former Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is entered into on this 7<sup>th</sup> day of July, 2022 by and between

**Delhi Technological University (DTU)**, an academic institute which was established as Delhi Polytechnic in 1941 having its main campus and administrative office at Bawana Rd, Shahbad Daulatpur Village, Rohini, New Delhi, Delhi 110042, India, through its authorized signatory, **Prof. Madhusudan Singh, Registrar, DTU** (herein referred to as "**DTU**") as the party of the First Part;

and

**M/s. Samsung India Electronics Private Limited**, a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at 6<sup>th</sup> Floor, DLF Centre, Sansad Marg, New Delhi – 110001, for its Mobile Research & Development Division – Noida ("**SRI-Noida**") through its authorized signatory, **Mr. Jinwoo Yang (CFO)** (hereinafter referred to as "**SIEL**") the party of the Second Part.

Hereinafter, SIEL and DTU shall singularly be referred to as '**Party**' and collectively as '**Parties**'.

### Background

Samsung Group is a South Korean multinational conglomerate company headquartered in Samsung Town, Seoul. Samsung was founded by Lee Byung-chul in 1938 as a trading company which has now diversified into various services like Advertising, construction, entertainment, financial services, hospitality, information and communications technology services, medical services & retail.

Samsung Electronics is the flagship subsidiary of the Samsung Group and has been the world's largest information technology company. In recent years, the company has diversified into consumer electronics. It is the world's largest manufacturer of mobile phones and smartphones fueled by the popularity of its Samsung Galaxy line of devices. The company is also a major vendor of tablet computers, particularly its Android-powered Samsung Galaxy Tab collection, and is generally regarded as pioneering the phablet market through the Samsung Galaxy Note family of devices.


Samsung's emphasis on Innovation and Research & Development is essential to its business. In order to inculcate a culture of global as well as local innovation, Samsung has a number of R&D centres strategically spread across the globe. India is amongst the hotspots of Samsung's innovation strategy. As a result of that, there are as many as three R&D Centers in India: Samsung Research Institutes in Bangalore, Delhi, and Noida.

Samsung has established SRI-Noida in 2007 in India with a firm belief towards success and realistic goals. SRI-Noida has transformed itself into one of the most competitive and proficient R&D centers of Samsung worldwide.

SRI-Noida is involved in the mobile commercialization for almost all regions. SRI-Noida is leveraging best synergy efforts as R&D, Advanced Project Development, Idea Incubations, QA & Internal Testing team work under the same roof. SRI-Noida has become one of the major centres of Mobile OS Upgrade Development besides focusing on advanced technologies like Big Data, Artificial Intelligence, Mobile Healthcare and Mobile Security.

### 1. OBJECTIVES OF THE MOU

- A) Samsung strongly believes in strengthening the industry academia partnership. With this in mind SRI-Noida has been working on several collaboration projects with different prestigious universities. Besides running projects, Samsung is also in the process of setting



up innovation labs at the universities. These labs are generally utilized by the faculties and scholars of the institutes for execution of their research projects.

- B) In order to strengthen its association with DTU and to work with the prestigious institution, SIEL supported and will continue to support for academic collaboration by way of setting up an innovation lab facilities at DTU campus and conducting various activities like joint research work by DTU & SIEL, technical talks & industry expert lectures, course/demonstrations, minor/major student projects & student technical contests at DTU subject to the consent of the concerned faculty and the department in this regard. Such request will be processed on a case by case basis as per DTU norms and mutual understanding with SIEL.
- C) SIEL will support/involve in running industry oriented research works and courses with DTU faculties and students as agreeable to DTU keeping in forefront the interest of the faculties and students.
- D) For experimentation/projects involved in their curriculum and inline with SEIL work, SIEL shall provide equipment (in continuation to earlier provided) to DTU on non-returnable basis for the Samsung Innovation Campus (SIC) lab, details whereof, are mentioned in Annexure-A of this MOU with the mutual understanding that DTU hands over such Equipment to the point of contact / Faculty in DTU (academic coordinator) for space / laboratory identification, installation, deployment for usage on terms agreed between Parties and upkeep / maintenance.

## 2. SCOPE OF COLLABORATION

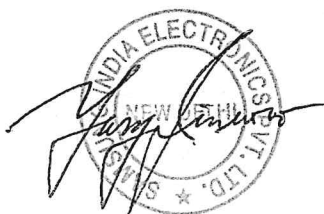
### A) The scope of the MOU will include the following activities by Parties:

#### (a) DTU

- i) DTU will continue the space provided and required for Samsung Innovation Campus, which will be used for research projects at DTU. A list of items to be provided in Annexure-A of this MOU. Both Parties agree that on a written demand by SIEL and only after DTU would have actually received physical possession of the items as mentioned in Annexure-A, DTU will confirm in writing that the items as mentioned in Annexure-A have been received by them and are being used as per terms of this MOU.
- ii) The equipment / Samsung Innovation Campus (SIC) laboratory could be utilized by UG/PG students for their projects, courses or research activities based on SIEL problem statements / challenges or practical assignments of DTU students, students of Delhi-NCR's other Technological Institutes, and sponsored research project from SIEL and SIC industry course practicals, if any.

#### (b) SIEL

- i) SIEL to provide workshops, internship, trainings, project suggestions, guest lectures or to run competitions events like hackathons, code-a-thons, to the faculties and students of DTU after approval from DTU.
- ii) SIEL to support on SIC courses to enhance skill set of DTU students as well as Delhi-NCR's other Technological Institutes' students as agreed by DTU and SIEL.
- iii) SIEL to provide and install equipment at the designated lab space for the laboratory course and at classroom for SIC courses identified at DTU and agreed by SIEL.



Registrar

From DTU

- 1) Head, Dept. of Computer Science and Engineering
- 2) Associate Head, Dept. of Computer Science and Engineering

From SIEL

- 1) Mr. Kyunyun Roo, MD, SRI-Noida (Head of Center)
- 2) Mr. Jinwoo Yang, CFO, SRI-Noida
- 3) Mr. Partha Ghosh, Head of CSR, SIEL
- 4) Dr. Ashish Kumar Namdeo, Open Innovation, SRI-Noida

**3. NON-EXCLUSIVITY**

The relationship of the Parties under this MOU shall be non-exclusive and both Parties including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind with any third party.

**4. CONFIDENTIALITY**

- A) The Parties shall not divulge (including displaying or duplicating) any materials or information received from the other party to any outside party except for the sole usage as outlined in the scope of activities stipulated in the MOU. This precludes any information already available in the public domain.
- B) Both the Parties agree not to publish any press release concerning joint activities without prior consent and agreement of each party as to the content of such a document.

**5. PROPERTY RIGHTS**

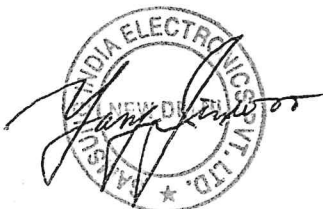
Except as the Parties may otherwise expressly agree in writing, each Party shall continue to own its existing Intellectual Property ("Existing Intellectual Property"), without conferring any interests therein on the other Party. Neither Party nor any third party shall acquire any right, title or interest in the other Party's Existing Intellectual Property by virtue of this Agreement or otherwise, except to the extent expressly provided herein.

**6. TERMS AND TERMINATION**

The MOU shall come into force from the date of signing this MOU (Effective Date) and will remain valid for a period of 3 years (reckoned from Effective Date). The validity can be extended thereafter by mutual agreement in writing signed by both the Parties with or without any change in the terms. SIEL or DTU, at any time during the term of this MOU may terminate this MOU by giving thirty (30) days' notice to the other Party of their intention to do so. However, such termination shall not be effective till the time a particular on-going course at that time, is completed. Subject to above, both the Parties agree that the terms of Clause No-5 of this MOU shall survive, irrespective of the MOU being in full force or effect or it being terminated, by efflux of time or as mentioned in this Clause No-6.

**7. AMENDMENTS**

If there is a need, the Parties may agree to amend the terms and conditions of this MOU in writing so as to reflect such a need.

**8. DISPUTE RESOLUTION**



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
92 Bahad Daulatpur, Bawana Road,  
Delhi-110042

Any difference arising out of or in connection with this MOU which cannot be mutually resolved amicably within the first 30 (thirty) days shall be referred for resolution to the signatories to this MOU within the next 30 days for a just decision.

## 9. GOVERNING LAWS

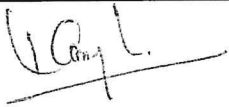
This MOU shall be governed and construed in accordance with the laws of India, and Courts of New Delhi shall have exclusive jurisdiction to decide any dispute arising out of this MOU.

In witness whereof the Parties have executed this MOU on this 7<sup>th</sup> day of July, 2022 "Effective Date".

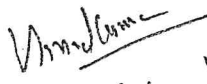
For M/s. Samsung India Electronics Pvt. Ltd.	For Delhi Technological University
	
Mr. Jinwoo Yang CFO	Prof. Madhusudan Singh Registrar, DTU

Witness:

1. \_\_\_\_\_

  
(Prof. Manoj Kumar)

1. \_\_\_\_\_

  
(Prof. Vinod Kumar)

Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## ANNEXURE-A

List of equipment for the identified research projects or course to be placed at designated Samsung Innovation Campus, at DTU. The list is for benchmarking purposes, and need not reflect the exact specifications of the deliverables.

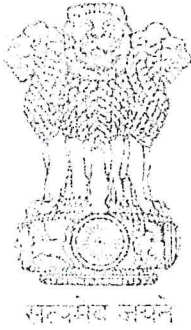
S. No.	Category	Item/Domain	Details
1	Course related equipments	Devices, Facilities	As per identified by course instructor and agreed by SIEL
2	Samsung Innovation Campus Renovation	Infrastructure	Renovation as per Samsung Standards, rebranding to Samsung Innovation Campus, Signage board etc.
3	Devices required for Projects	Health, AI, Security, Multimedia, Framework etc.	Research related devices as required and agreed by SIEL

**Note:**

- The above mentioned devices are part of Super-Set list, required for Lab and SIC courses at DTU.
- A sub-set of devices/items/equipments can be obtained from the above mentioned list after discussion with faculty and inspection of lab requirements at DTU.



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

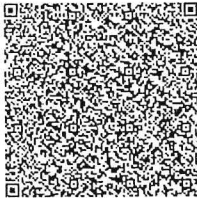


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### Government of National Capital Territory of Delhi

#### e-Stamp

Certificate No.	: IN-DL13099340864437U
Certificate Issued Date	: 01-Apr-2022 01:54 PM
Account Reference	: IMPACC (SH)/ dlshimp17/ SUPREME COURT/ DL-DLH
Unique Doc. Reference	: SUBIN-DLDSLHIMP1713773864946926U
Purchased by	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Second Party	: Not Applicable
Stamp Duty Paid By	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Stamp Duty Amount(Rs.)	: 50 (Fifty only)



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**This e-stamp is an integral part of the Memorandum of Understanding entered into on this 29<sup>th</sup> day of June, 2022 by and between M/s. Samsung India Electronics Private Limited and Delhi Technological University.**



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, 95 Jawahar Road,  
Delhi-110042

## Memorandum of Understanding

This Memorandum of Understanding (the "MOU") is entered into on this 29<sup>th</sup> day of June, 2022

Between

**M/s. Samsung India Electronics Pvt. Ltd.**, a company incorporated under the Companies Act, 1956 having its registered office at **6<sup>th</sup> Floor, DLF Centre, Sansad Marg, New Delhi - 110001** only for its **Mobile Research & Development Division – Noida ("SRI-N")** located at Part of the ground floor and 1st to 9th floor, Building 11, Candor TechSpace, Plot No 20 - 21, Sector 135, Noida, Uttar Pradesh 201304 ("Premises") through its authorized signatory, **Mr. Jinwoo Yang, CFO, SRI-N** (hereinafter referred to as the "**SIEL**" which expression shall, unless repugnant to the context or meaning thereof include and be deemed to include its nominees, successors and assigns) of the One Part

And

**Delhi Technological University**, an University established under **Govt. of Delhi, Act 6, of 2009** having its office at Delhi Technological University, Main Bawana Road Shahbad Daulatpur, Delhi 110042, India through its authorized signatory **Prof. Madhusudan Singh, Registrar** hereinafter referred to as "**DTU**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the OTHER PART

Hereinafter SIEL and DTU shall singularly be referred to as "Party" and collectively as "Parties".

Whereas SIEL and DTU are desirous of setting up a framework for Company-Sponsored Higher Education Program.

### **NOW THIS MOU WITNESSETH AS UNDER:**

#### **1. SCOPE OF MOU**

- 1.1 Doctor of Philosophy (PhD) program by DTU for minimum two (2) and maximum five (5) employees of SIEL each year.

#### **2. SALIENT FEATURES of the Understanding**

##### **2.1.1 Eligibility Criteria**

Bachelor's Degree in Engineering/ Technology and Master's degree in Engineering/ Technology in Computer Science and Engineering/ Software Engineering/ Information Technology/ Mathematics and Computing/ Electronics and Communication or equivalent with a minimum of 55% in aggregate or equivalent CGPA as determined by DTU


OR

Bachelor's Degree in Sciences/ Computer Applications and Master's degree in Computer Applications with Mathematics at B.Sc/ BCA level with a minimum of 75% in aggregate or equivalent CGPA as determined by DTU and having proven research capability

OR

Bachelor's Degree in Engineering/ Technology in Computer Science and Engineering/ Software Engineering/ Information Technology/ Mathematics and Computing/ Electronics and Communication or equivalent with a minimum of 75% in aggregate or equivalent CGPA as determined by DTU and having proven research capability



  
Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi 110042

All the eligible candidates will be required to pass through the admission process as followed by other PhD candidates at DTU.

Screening test is waived off for candidates from organizations having MoU with DTU. Candidates need to apply online on DTU portal for admission in summer session (July) or winter session (January) and appear for interview. Admission portals usually opens in May for summer session and November for winter session. The candidates may contact faculty members/ heads of the concerned academic departments for selecting their areas of research.

#### 2.1.2 Prospective Specialization

Candidates can choose from any of the 5 departments for research. The list of departments and areas of research may change every year based on seat availability and scope of research.

Suggested Area of research are listed along with department here:

**1. Computer Science and Engineering:** Machine Learning, High Performance Computing, Optimization Techniques, Parallel Computing, Web Technology, Image Processing, Soft Computing, Evolutionary Computing, AI, Information Security.

**2. Software Engineering:** Empirical Software Engg, machine learning, Software quality and testing, search based software engg, web engineering, opinion mining, social web, predictive modeling, deep learning, telemedicine, IoT, cryptography.

**3. Electronics and Communications Engineering:** VLSI Design, Computer Vision, Pattern Recognition, Object Tracking, Image Processing, Human Computer Interaction, Wireless sensor Networks, Microwave Engg, Antenna Design, Digital Signal Processing, RF Devices, Nano-electronics, Network Security, Cloud Computing, Optical Communication. Wireless Communication.

**4. Information Technology:-** Pattern Recognition, Soft Computing, Biometric Security Systems, Neural Networks/deep learning, fuzzy Neural Networks, Computer vision, Web mining, Internet Technologies, Data Mining, Multimedia systems, Image processing.

**5. Mathematics and Computing:** Information Theory, Graph Theory, Optimization Techniques, Fuzzy logic and optimization, Natural Language Processing, AI.

#### 2.1.3 Fees

Fees structure for academic year 2021-22 is: INR 29000/- (Rupees Twenty Nine Thousand Only) for the first year and INR 13000/- (Rupees Thirteen Thousand Only) from second year onwards per student. SIEL's employees shall pay fees directly to DTU.

Fee Structure for a particular batch will remain the same till the Program completion of such batch, as was applicable at the time of enrolment/ batch launch. DTU reserves the right for revision in fee structure for every financial year (April to March), which will be communicated to SIEL by DTU, either through website or e-mail.

#### 2.1.4 Duration of the program:

Candidates shall be allowed a maximum of seven (07) years to complete their research.

#### 2.1.5

In case any employee undergoing the above program leaves SIEL, then he/she shall be allowed to continue the program with DTU as per their discretion, unless SIEL has requested DTU to cancel the enrolment of such employee. However, SIEL will no longer sponsor the fees and the employee shall pay the fees directly to DTU.



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi 110028

- 2.2 The employees of SIEL admitted to the DTU's Program under this collaborative arrangement, will be treated as DTU's students and will be governed by the academic regulations and fee structure of DTU, and also by the service rules and regulations specified by SIEL.
- 2.3 Any patent or intellectual property right developed/invented or created by any SIEL employee during his/her PhD. course under this MOU shall be owned by SIEL.

3. **TERM & TERMINATION**

- 3.1 This MOU will initially be valid for a period of five (5) years from 4<sup>th</sup> July, 2022 (the "Effective Date") and the same can be extended on such other terms and conditions that may be mutually agreed upon in writing between the Parties.
- 3.2 Either Party may terminate this MOU at any time without cause upon giving not less than thirty (30) days prior written notice in that behalf.
- 3.3 The termination of this MOU shall be without prejudice to the rights and remedies of either Party which may have accrued upto the date of termination.
- 3.4 Any termination of this MOU (for whatever reason) shall not affect the coming into force or the continuance in force of any provision of this MOU which is expressly or by implication intended to come into or continue in force on or after such termination. Particularly, DTU shall be bound to complete the entire PhD Program for all SIEL employees who are enrolled in the Program upto the date of expiry or termination or upto the end of the Program without any changes in agreed upon terms and conditions.

4. **DISPUTE RESOLUTION & JURISDICTION**

- 4.1 All disputes and differences of any kind whatsoever, any claim, cross-claim, counter claim or set-off regarding any right, liability, act, omission on account of any of the Parties hereto arising out of or in relation to this MOU or any matter incidental thereto shall be managed between the parties and settled amicably.

5. **GENERAL**

5.1 **Relationship**

DTU agrees that that this MOU is strictly on a principal to principal basis. Under no circumstance SIEL shall be deemed to have directly instructed, communicated or corresponded with any of DTU employees in relation to Services under this MOU. This MOU is not intended to and shall not be deemed to bring into existence a relationship of principal and agent between SIEL and DTU.

5.2 **Confidentiality**

DTU and its employees/associates shall treat the terms and conditions of this indenture as strictly confidential and shall hold all information, data, material, instructions, communications, whether received in writing or oral form, from SIEL by DTU in strict confidence. The breach of this clause shall be construed as a material breach and SIEL may terminate this MOU forthwith in case of breach on the part of DTU. The Parties also agree:

- (i) to maintain and use the confidential information only for the purposes of this MOU and only as permitted/authorized herein;
- (ii) to only make copies as specifically authorized by the prior written consent of the other party and with the same confidential or proprietary notices as may be printed or displayed on the original;



Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Road Daulatpur, Bawana Road,  
Delhi-110042

- (iii) to restrict access and disclosure of confidential information to such of their employees, associates and agents on a "need to know" as is basis, and upon the execution of a written undertaking from such employees, associates and agents to maintain confidentiality of the confidential information disclosed to them;
- (iv) The Parties hereby agree to maintain the confidentiality of the Confidential Information for a period of five (5) years from the date of expiry/ termination of this MOU.
- (v) DTU agrees that any of SIEL's technical or business or commercial information that DTU employees, associates or agents acquire while on SIEL's Premises, or through access to SIEL's computer systems or databases while on or off SIEL Premises, shall be deemed Confidential information.
- (vi) All information provided by SIEL to DTU shall, at all times, remain the sole and exclusive property of SIEL. Upon termination/expiry of this MOU, confidential information shall be returned to SIEL or destroyed in accordance with the instructions of SIEL and evidence of such destruction provided to SIEL to its reasonable satisfaction. SIEL may at its sole option, witness the destruction.

### 5.3 Force Majeure

Upon the happening of a Force Majeure event preventing either Party from performing its respective obligations hereunder, the affected Parties obligation to perform such obligations shall be suspended during the period affected by Force Majeure. The Party suffering such event will promptly notify the other Party in writing and if the period of suspension lasts for longer than thirty (30) Days, then the either Party may decide at any time thereafter to terminate all or any part of this MOU.

### 5.4 Notices

The addresses and other information for service of notices to the Parties are as under.

#### IF TO SIEL:

**Samsung India Electronics Pvt. Ltd.**

Part of the ground floor and 1st to 9th floor,  
Building 11, Candor TechSpace, Plot No 20 - 21,  
Sector 135, Noida, Uttar Pradesh 201304

#### IF TO DTU:

Main Bawana Road  
Shahbad Daulatpur  
Delhi 110042

- (i) Any changes in the above particulars of a Party shall be conveyed to the other Party in writing without delay.
- (ii) Any notices sent under this MOU must be in writing and may be served by personal delivery with due acknowledgment or by registered post at the address given above or at such other Indian address as the relevant Party may give for the purpose of service of notices under this MOU.

### 5.5

#### Assignment

Either Party shall not assign or subcontract its rights or obligations under this MOU or any part thereof without the prior written consent of the other Party. Either Party shall be responsible for the acts, defaults and neglect of any assignee or any subcontractor performing any part or parts of the services and also for the acts,



4 Registrar  
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Shahbad Daulatpur, Bawana Road

defaults and neglect of the servants, agents, workmen and subcontractors of the assignee or subcontractor as if the said acts, defaults, and neglect were those of either Party.

**5.6 Continuing Obligation**

Unless and until this MOU expires or is lawfully terminated pursuant to any other provision of this MOU, both Parties shall continue to perform their respective obligations under this MOU.

**5.7 Indemnification**

Both Party ("Indemnifying Party") shall, indemnify, defend and hold harmless the other Party its officers, employees, successors and assigns ("Indemnified Parties") from and against any and all third party claims, damages, demands, liabilities, costs and expenses, arising by reason of any:

- (i) Breach of maintaining confidentiality or infringement of any intellectual property rights or any provision of the MOU by the other Party.
- (ii) Failure or non-compliance or negligence to comply with the applicable laws, rules or regulations by the other Party.
- (iii) Negligent or willful acts or omissions of either Party resulting in bodily injury or death to any person or loss or damage to any property (tangible or intangible) to the other Party.

It is hereby warranted that and the Parties shall include its employees, directors, representatives, associates or agents or persons with whom it has contracted or dealt with in any way in connection with its performance hereunder.

**5.8 Severability**

If any section, paragraph or clause in this MOU shall be held to be invalid or unenforceable in any jurisdiction, in which this MOU is being performed, then the meaning of such section, paragraph or clause shall be so constructed so as to render it enforceable to the extent feasible and if not feasible interpretation would save such section, paragraph or clause it shall be severed from the MOU. If such paragraph or clause is considered an essential element of this MOU, the Parties shall promptly negotiate a replacement thereof. In the event the Parties are unable to agree upon the replacement within 30 (thirty) days of the final rendering such terms invalid or unenforceable, SIEL may terminate this MOU upon 90 (ninety) days' written notice.


**5.9 Entire Agreement**

This MOU and documents attached herewith constitute the entire understanding between the Parties with respect to the subject matter hereof. No changes, amendments, modifications or waiver of any of the terms and conditions hereof shall be valid unless reduced to writing and signed by duly authorised representatives of both parties hereto.

**5.10 Anti-Bribery & Anti-Corruption**


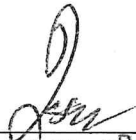
- (i) DTU (which includes, vendors/consultants/suppliers/contractors etc.) will comply with all applicable laws, statutes, regulations and codes relating to Anti-bribery and Anti-corruption and will not take any action or fail to take any action that would cause SIEL or any of its (affiliates) to fail to comply with any applicable Anti-corruption legislation.
- (ii) DTU shall maintain in place its own policies and procedures which will be equal or better than reasonable Anti - Bribery and Anti - Corruption Policy, considering applicable legislations in that regard.



  
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Delhi 110028


- (iii) DTU will comply with its above mentioned Policy, in all respect and shall ensure that no gratuities (in the form of entertainment, gifts or otherwise) or kickbacks shall be offered or given by it or any of its directors, senior executives, officers or other employees, consultants, contractors or agents to any of SIEL's executive or members of their immediate families with a view toward securing a favorable or preferential treatment from SIEL.
- (iv) DTU will promptly report SIEL (HR-Head of SRI-Noida) in case any request or demand for any undue financial or other advantage of any kind is received by it or its executive from any of SIEL's Executive.
- (v) DTU will ensure that person(s) associated with it (viz subcontractors, supplier or service provider) in performing services or providing goods in connection with this Agreement shall also have Anti -Bribery and Anti-Corruption Policy as are imposed on the Service Provider and as mentioned herein above.
- (vi) Failure to comply with these provisions shall constitute a material breach of the Agreement and notwithstanding any other provisions of the Agreement, SIEL shall have right to terminate the MOU. Further, in the aforementioned circumstances, DTU shall also be liable to indemnify SIEL for the losses suffered by it.

IN WITNESS WHEREOF the Parties have executed these presents on the day and year herein above written.

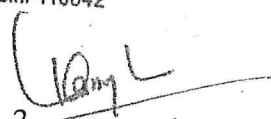
For Samsung India Electronics Pvt. Ltd.	For Delhi Technological University
	
Mr. Jinwoo Yang	Registrar
CFO	Prof. Madhusudan Singh Registrar DTU (Formerly Delhi College of Engineering) Gautam Daulatpur, Barwala Road, Delhi-110042

WITNESSES

1.

  
(Prof. Vinod Kumar)  
HOD (CS&E)

2.

  
(Manoj Kumar)  
Asso. Head CS&E dept.



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**DELHI TECHNOLOGICAL UNIVERSITY**  
(Formerly Delhi College of Engineering)



**MEMORANDUM OF UNDERSTANDING (MOU)**

This Memorandum of Understanding dated 14<sup>th</sup> Feb 2022

**By and Between**

**Lithion Power Private Limited**, a company incorporated under Companies Act, 1956 and having its registered office at 413, D Mall, Sector 10, Rohini, New Delhi 110085 (hereinafter referred to "Lithion", which expression shall unless it be repugnant to the context or meaning thereof shall mean and include its successors-in-interests and permitted assigns) of the One Part.

**And**

**Delhi Technological University**, an institution based in Delhi engaged in Technical Education, Innovation and Research & Development of the Technology.

**WHEREAS, Lithion Power Private Limited** is engaged in the business of manufacturing and development of batteries, battery management systems and other power sources

**WHEREAS, DTU** is an institution engaged in Research and development

(DTU and Lithion Power shall together be referred to as "Organisations")

**WHEREAS, Lithion Power** would like to enter into a MOU with DTU AND

**WHEREAS** an MOU has been entered based on the principle of reciprocity and expresses the interest of both Organisations in working together towards development of India specific electrical vehicle technology based on the below terms:

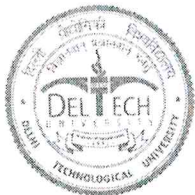
1. The organisations agree to encourage in the development of the following joint development programs based on their respective commercial and academic/educational needs:
  - Exchange of students (undergraduate and /or graduate) with a view to provide internships and real project experience.
  - Joint development of technology specifically for energy management in electrical vehicles.
  - Use of laboratory facilities on mutually agreed terms and conditions

For LITHION POWER PRIVATE LIMITED

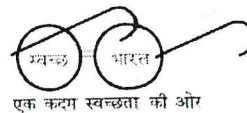
DIRECTOR

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

SHAHBAD DAULATPUR, BAWANA ROAD, DELHI-110042, INDIA  
Ph. : 011-27871018, 27871022, 43, 44, 45, FAX.: +91-11-27871023, WEBSITE : www.dtu.ac.in



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(Formerly Delhi College of Engineering)



(Areas and commercial agreement to start this collaboration are listed in Annexure 1. Both the institutions can revisit this list after mutual consultation.)

2. The parties recognize that the implementation of any exchange program will depend upon the academic interests and expertise of individual staff members and upon the availability of financial resources. Accordingly, the implementation of each exchange program based on this agreement shall be separately examined and determined by both organisations.
3. Faculty/Scientists/engineers of either organisation initiating collaborative work will take care of the usage of their organisation resources and conduction of activities as per organisation norms. A faculty member from DTU duly approved by VC, DTU will coordinate with an engineer/scientist from Lithion Power for the implementation of this initiative.
4. This MOU is not intended to be a legally binding document. It is meant to describe the nature and to suggest the guidelines of the cooperation described above. Nothing therefore shall diminish the full autonomy of either institution, nor will any constraints be imposed by either upon the other in carrying out the agreement.
5. The agreement shall become effective on the day representatives of both Organisations affix their signatures and seals, will be in force for a period of 5 years, and is subject to revision or modification by mutual agreement. It is also understood that either institution may terminate the agreement at any time, although it is assumed that such action would only be taken after mutual consultation in order to avoid any possible inconvenience to the other institution.

For LITHION POWER PRIVATE LIMITED

DIRECTOR

Mr. Piyush Gupta  
Director  
Lithion Power Private Limited

Registrar,  
DTU

Registrar  
Delhi Technological Unive  
(Formerly Delhi College of Engin  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



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**ANNEXURE 1**

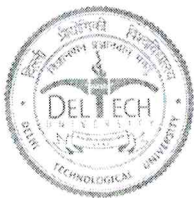
- 1) DTU (Assignee) and Lithion Power Pvt. Ltd. (Assignor) would like to collaborate on developing BLDC motor Controller. These technologies are used in Electric Vehicles
- 2) Lithion Power limited will share technology with researchers from DTU (Subject to Disclosure Agreements) about implementation and fabrication of BLDC motor controller for Electric Vehicles, the common objective being to work jointly on development of BLDC motor Controller and test them in industrial and real world applications.
- 3) Commercial Terms and Royalty
  - a. Both organizations will take care of their expenses.
  - b. DTU is not expected to incur any additional expenditure on procuring equipment or apparatus for the project.
  - c. Lithion Power Pvt. Limited. will endeavor to provide internship to students working on the project. Such students can be paid suitable stipends by Lithion Power Pvt Ltd
  - d. Additionally, DTU will be entitled for royalty.
    - I. The royalty will be calculated as 1% of "**Applicable Revenue**" from the Bill of Materials (BOM) developed ("**Developed Technology**") as part of this collaboration for a period of 5 years from the commercialization of the Developed Technology
    - II. **Applicable Revenue** is the revenue generated from sale of BLDC Controller. To, clarify,
      1. **Applicable revenue** will be **2 times** the cost of the Bill of Materials (BOM) of the Developed Technology produced.
      2. In case **Developed Technology** is part of another module developed, the applicable BOM will only be the relevant incremental **BOM**.
      3. **Applicable Revenue** is only applicable for **Developed Technology** as part of this agreement, and excludes all the other technology developed by Lithion Power or by any other 3<sup>rd</sup> party.

For LITHION POWER PRIVATE LIMITED

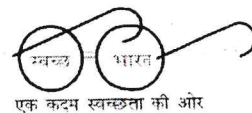
DIRECTOR

Registrar

SHAHBAD DAULATPUR, BAWANA ROAD, DELHI-110042, PH. : 011-27871018, 27871022, 43, 44, 45, FAX.: +91-11-27871023, WEB: [www.dtu.ac.in](http://www.dtu.ac.in)  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad-Daulatpur, Bawana Road,  
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4) Recognition and Publications

- Both organizations will acknowledge each other's participation and give credit for publication to one other. Any publication has to be approved by Head of Department @ DTU and one of the Directors of Lithion Power Pvt. Ltd.
- Commercial rights and patent for any IP developed will remain with Delhi Technological University.

5) Rights of Inventors:

- All the Inventors will have equal rights in the Intellectual Property generated from the project. Intellectual Property can be in the form of Patents, Trademark, Design, Copyright.

- This MOU will be in place for 5 years, Both organizations have a right to terminate this MOU by giving each other 1 month's notice.

For LITHION POWER PRIVATE LIMITED

DIRECTOR

Mr. Piyush Gupta  
Director  
Lithion Power Private Limited

Registrar,  
DTU

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



## ENGAGEMENT AGREEMENT

This Engagement Agreement (the "Agreement") is made on 11<sup>th</sup> day of March 2022 at New Delhi.

### BETWEEN

**DTU Innovation and Incubation Foundation**, a Company registered under the Companies Act 2013 having its registered office at 3<sup>rd</sup> Floor, DTU Central Library, Bawana Road, Delhi 110042 India, represented by its authorized signatory, hereinafter referred to as '**DTU-IIF**' on the ONE PART (which expression whenever used shall mean and include its successors, administrators and assigns),

And

**Startup Board Business Services Private Limited**, a Company registered under the Companies Act, 2013, having its registered office at 62 Samvid Tower, Cantt Road, Shahibaug, Ahmedabad 380001 Gujarat, and branch office at T-22A Green Park Extension New Delhi 110016, hereinafter referred to as '**TSB**' New Delhi of THE SECOND PART (which expression whenever used shall mean and include its successors, administrators and assigns).

Hereinafter DTU-IIF and TSB shall hereby individually be referred as "Party" and collectively as "Parties",

### WHEREAS:

- A. DTU-IIF marks a new era in the field of scientific entrepreneurship enabling aspiring individuals, scientists, students and faculty to incubate and build their start up through this incubation center.
- B. TSB is a Business advisory and services company working with the aim to invite, enable and thrive the start-ups through sharing know-how, mentorship, connections and investments.
- C. The parties have mutually agreed to collaborate on following points for effective and efficient engagement towards strengthening and streamlining innovation and incubation programs:
  1. The parties mutually agree to build a collaborative relationship to develop new business ventures and create sustainable social and economic value with the resources available with both organizations. The undersigned parties will put forth a good faith effort in providing resources, both tangible and intangible, in assisting each other in this collaborative relationship.



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Page 1 of 6

*Jish*

#### 14. Dispute Resolution

Any disputes arising between the Parties regarding the interpretation or implementation of this Agreement or any controversy or claim arising out of or relating to this Agreement, or any breach or alleged breach thereof, shall be settled by arbitration conducted by mutually appointed arbitrator in accordance with the provisions of the Arbitration and Conciliation Act, 1996 including any amendments thereto. The arbitration proceedings shall be held in the English language. The arbitration proceedings shall be held at Delhi, India.

#### 15. Severability

If any provision of this Agreement shall be held invalid in arbitration/in a court of law, the remaining provisions shall be construed as if the invalid provision was not included in this Agreement. The parties shall endeavour to replace such invalid provision with another provision which as far as legally possible reflects the original intent of the Parties.

#### 16. Counterparts

This Agreement shall be signed in two counterparts, each of which shall be deemed an original and which shall together constitute one Agreement.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN.

For DTU-IIF



Signature:

Name: Prof. Girish Kumar,  
CEO, DTU-IIF

For TSB

Signature:

Name: Mr. Ashish Jain,  
CEO, Startup Board Business  
Services (P) Ltd.

In Presence of

In Presence of

In Presence of

In Presence of

Date: 11<sup>th</sup> March 2022  
Place: Delhi

Date: 11<sup>th</sup> March 2022  
Place: New Delhi

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**NetEdge**

*Orchestrating Success  
through innovation*

## MEMORANDUM OF UNDERSTANDING

Between

**NetEdge Computing Solutions Pvt Ltd**

And

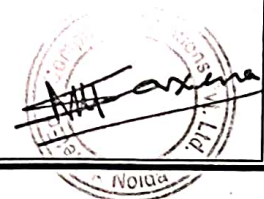
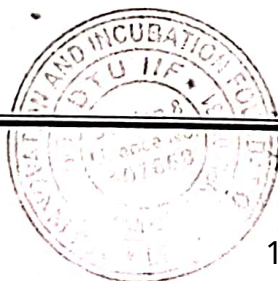


**DTU Innovation and Incubation Foundation**

14<sup>th</sup> June 2022

**CONFIDENTIAL**

*Kumar*



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## 20. Governing Law

This Agreement shall be subjected to and construed and interpreted in accordance with the laws of India applicable to contracts entered into and to be performed within the state without regard to any conflict of laws rules. Any disputes between the parties shall be submitted to the jurisdiction of the courts located in New Delhi, India.

## 21. Disputes

- 21.1. Both the parties shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with this Agreement.
- 21.2. In the event of any dispute both the parties reserve the right to suspend this Agreement till the resolution of the said dispute.
- 21.3. All disputes, differences or questions arising out of this Agreement including the interpretation of the terms herein or in regard to the obligations, failure or breach of any terms thereof by any of the parties and/or compensation/damages payable under the Contract or of any matter whatsoever arising under the Agreement which have not been settled amicably within 30 days from commencement of such informal negotiation shall be referred to a mutually agreed arbitrator.

## 22. Arbitration

All disputes, differences, claims and demands arising under or pursuant to or touching this agreement shall be settled by arbitration of a sole arbitrator to be appointed by the parties and failing such agreement, as per the Arbitration and Conciliation Act, 1996. The arbitration proceedings shall be carried out in New Delhi and in accordance with the Arbitration and Conciliation Act, 1996.

**IN WITNESS WHEREOF** the parties hereto have set and subscribed their respective hands as of the date first written above.

Signed for and on behalf of  
D.J Innovation and Incubation Foundation,  
New Delhi

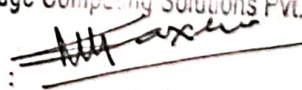
Signed for and on behalf of  
NetEdge Computing Solutions Pvt. Ltd, Noida

Signature :



Signature :

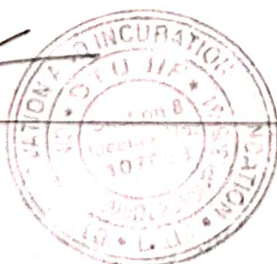
For NetEdge Computing Solutions Pvt. Ltd



Authorised Signatory

Name : Prof. Girish Kumar(CEO & Director)

Name : Dr. Manoj Saxena



14<sup>th</sup> June 2022

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Confidential



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Government of National Capital Territory of Delhi

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Certificate No.	: IN-DL13426503155443U
Certificate Issued Date	: 10-Nov-2022 02:32 PM
Account Reference	: SELFPRINT (PU)/ dl-sell/ NEHRU/ DL-DLH
Unique Doc. Reference	: SUBIN-DLDL-SELF0329797285531U
Purchased by	: RAVINDER SINGH
Description of Document	: Article 5 General Agreement
Property Description	: MEMORANDUM OF UNDERSTANDING IN BETWEEN NASSCOM AND DELHI TECHNOLOGICAL UNIVERSITY
Consideration Price (Rs.)	: 100 (One Hundred only)
First Party	: NASSCOM FOUNDATION
Second Party	: DELHI TECHNOLOGICAL UNIVERSITY
Stamp Duty Paid By	: DELHI TECHNOLOGICAL UNIVERSITY
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)

₹100



SELF PRINTED CERTIFICATE TO BE  
VERIFIED BY THE RECIPIENT AT:  
[WWW.SHCIESTAMP.COM](http://WWW.SHCIESTAMP.COM)

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Please write or type below this line



## Statutory Alert:

1. The authenticity of this stamp certificate should be verified at 'www.shciestamp.com' or using e-Stamp.
2. Any discrepancy in the details on the Certificate and on available on the website / Mobile App is to be reported to the concerned authority.
3. The onus of checking the legitimacy is on the users of the certificate.
4. In case of any discrepancy please inform the Competent Authority.

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Shahbad Daulatpur, Bawana Road,  
Delhi-110042

9.2. Any extraordinary event, which cannot be controlled by the parties, shall for the purpose of this MOU be considered as a Force Majeure event. Such events include acts of God, pandemic or epidemic, acts or omissions of any Government or agency thereof, compliance with rules, regulations or order of any Government Authority. Provided however, if either party claims that existence of any of the aforesaid conditions is delaying or disabling the performance by said party of its obligations under this MOU, such party shall give immediate notice to the other party of the existence of such conditions whose existence are claimed to delay or disable the performance of obligations as aforesaid.

10. **Governing Law and Jurisdiction:**

10.1. This MoU shall be governed by the laws of India and the parties to this MoU hereby agree that the Courts at Delhi shall have exclusive jurisdiction to try any dispute or difference arising between the parties out of this MoU and the parties further agree that no other Courts shall have jurisdiction to decide any dispute between the parties, arising out of this MoU.

10.2. In case the parties to this MoU commit any breach of the terms and conditions of this MoU or violates any statutory provisions or any Government or statutory guidelines or any guidelines issued by the controlling authority, then, in addition to any other remedy available as per law, the other parties shall have the right to terminate this MoU by serving at least 15 days written notice to the other parties. However, on such termination, all the parties shall continue to be liable to each other for completion of their mutual rights and obligations under this MoU, which were there on the date of the termination of this MoU.

11. **Termination**

Notwithstanding anything contained in this MOU, in case of termination or expiry of the Memorandum of Understanding dated April 1<sup>st</sup>, 2022 between NASSCOM Foundation and Ciena, the donor under which NASSCOM Foundation in collaboration with Ciena has developed the Ciena Spaces Program and by virtue of which this MOU has been entered into, it will automatically lead to the termination of this Agreement.

IN WITNESS WHEREOF, to show their assent, the duly authorized representatives of the parties hereto have signed the MoU and set their seals as below: -

For and on behalf of

For and on behalf of

**NASSCOM Foundation**

Sign & Stamp:



Name: Nidhi Bhasia

Designation: CEO, NASSCOM Foundation

Date: 10<sup>th</sup> November 2022

**Delhi Technological University**

Sign & Stamp:

Name: Prof. Madhusudan Singh

Designation: Registrar, DTU

Date: 10<sup>th</sup> November 2022

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

This Memorandum of Understanding is made at Delhi on the 10<sup>th</sup> day of November 2022.

**BETWEEN**

NASSCOM Foundation, a charitable trust registered under the Indian Trust Act, 1882 having its office at A1-125, 3rd Floor Safdarjung Enclave, New Delhi 110021, (hereinafter referred to as 'NF' which expression shall unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns), of the **ONE PART**

**AND**

Delhi Technological University, a University incorporated under the Delhi Act 6 of 2009, Govt. of Delhi having its registered office at Shahbad Daulatpur, Bawana Road, Delhi-110042 (hereinafter referred to as "DTU" which expression shall unless it be repugnant to the subject or context thereof, include its successors and permitted assigns), of the **SECOND PART**.

NF and DTU shall hereinafter be referred to individually as a "Party" and collectively as the "Parties", as the case may be.

**WHEREAS:**

- A. NF has partnered with DTU for implementing a skilling and entrepreneurship opportunity for students of The University through a Makerspace program funded by Ciena (hereinafter referred to as "Ciena Spaces").
- B. NF is authorized to implement this program and DTU is interested in implementing this program for its students
- C. In view of the above, the Parties being desirous of recording the terms and conditions on which NF shall implement the program, and DTU shall support for the purposes set forth herein, have decided to execute this AGREEMENT.

NOW, THEREFORE, in consideration of the above recitals, the mutual covenants of the Parties, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

**1. PROGRAM DESCRIPTION**

The objective of the Ciena Spaces program is to create a framework to maximize activation amongst students and give them an opportunity to understand and study aspects of the emerging technologies through on-line and hands-on learning and gain competitive strength to address social challenges more effectively through technology.

Ciena Spaces will look to create tech-social entrepreneurs from the students in DTU.



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Delhi-110042



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## Government of National Capital Territory of Delhi

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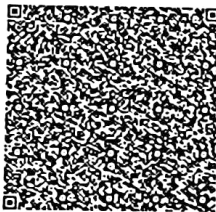
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Certificate No. : IN-DL03582013531269U  
 Certificate Issued Date : 19-Oct-2022 12:24 PM  
 Account Reference : SELFPRINT (PU)/ dl-self/ NEHRU/ DL-DLH  
 Unique Doc. Reference : SUBIN-DLDL-SELF85417838887651U  
 Purchased by : DTU IIF  
 Description of Document : Article 5 General Agreement  
 Property Description : MOU BETWEEN DTU INNOVATION AND INCUBATION FOUNDATION DTU DELHI AND FUN2DO LABS PVT.LTD.1/1291,ELAHI BUX RD, NAIWALA, KAROLBAGH NEWDELHI  
 Consideration Price (Rs.) : 100  
 (One Hundred only)  
 First Party : FUN2DO LABS PVT LTD  
 Second Party : DTU INNOVATION AND INCUBATION FOUNDATION DTU NEWDELHI  
 Stamp Duty Paid By : DTU INNOVATION AND INCUBATION FOUNDATION DTU NEWDELHI  
 Stamp Duty Amount(Rs.) : 100  
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*[Signature]*

For DTU INNOVATION AND  
 INCUBATION FOUNDATION

*[Signature]*  
 Chief Executive Officer

hereof. This MOU may not be amended or modified except by a subsequent writing executed by duly authorized representatives of both parties.

**3.10 Costs and Liabilities:** Each party shall be responsible for its own costs and expenses in connection with this MOU, and neither party will be liable to the other for any costs, expenses, risks, or liabilities;

**3.11 Arbitration & Governing Law:** In the event any dispute arises between the parties in relation to or under this Agreement, the parties shall try to resolve the dispute in mutual trust and goodwill. In the event of such dispute or difference is not settled amicably by negotiation, the same shall be referred to a sole Arbitrator and the matter will be settled as per the provisions of the Arbitration & Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties. The seat of the Arbitration shall be New Delhi. All disputes arising under this MOU shall be subject to the jurisdiction of New Delhi only.

**3.12 Modification:** Modifications within the scope of the instrument shall be made by mutual consent of the parties, by the issuance of a written modification, signed and dated by all parties, prior to any changes being performed;

**3.13 Termination and Renewal:** This MOU shall be in full force and effect for 24 months from the Commencement Date unless otherwise terminated or renewed by either Party upon intimation by an Email. The e-mail address of the parties for the purpose of this provision are:

Fun2Do Labs Pvt. Ltd.	DTU Innovation and Incubation Foundation
saurabh@fun2dolabs.org	ceo.dtuiif@dtu.ac.in

IN WITNESS WHEREOF the parties have duly executed this MoU of the date first written above.

For & On Behalf of Fun2Do Labs  
Private Limited

Signature

Name: Mr. Saurabh Jain

Designation: Director

Witness:

1.

Dr. Pushpendra Singh

For & On Behalf of DTU Innovation and  
Incubation Foundation

For DTU INNOVATION AND  
INCUBATION FOUNDATION

Signature

Name:

Designation:

Chief Executive Officer

Witness:

2.

(Ravinder Singh)

**Memorandum of Understanding**

**between**

**The Rekhi Foundation**

**and**

**Delhi Technological University**

**for**

**Centre of excellence for the science of happiness (Supported by Rekhi Foundation )**

THIS MEMORANDUM OF UNDERSTANDING (hereinafter referred to as "MOU") is made on 12<sup>th</sup> day of November 2021.

**BY AND BETWEEN**

**Rekhi Foundation** represented by Dr. Satinder Singh Rekhi, having its office at 2051, last Chance Court, Gold River, CA, 95670, which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the **ONE PART**

**AND**

**Delhi Technological University ('DTU')**, a State University established under Act 6 of 2009 by the Government of Delhi, having its address at Shahbad Daulatpur, Main Bawana Road, Delhi- 110042, which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the **SECOND PART**

**WHEREAS**, DTU propose to establish "Centre of excellence for the science of happiness (Supported by Rekhi Foundation)", with aim to promote research, training and education and the practice of well-being for students and teachers through the application of happiness and well-being. (Hereinafter called as "Centre of Happiness")

**WHEREAS**, First Party wants to participate in this noble cause and want to sponsor certain activities under the "Centre of Happiness".

**WHEREAS**, First Party shall be represented by Dr. Satinder Singh Rekhi or his assignee,

**WHEREAS**, Second Party has authorized Dr. T. Vijay Kumar, Associate Professor, Department of Civil Engineering as Co-ordinator and Nodal Officer for correspondence and communication with Rekhi Foundation.

The two signing organisations shall be referred to as the Parties.

The Parties agree to the following terms and conditions:

## **ARTICLE 1: MANAGEMENT**

DTU will be responsible for establishing and managing "Centre of Happiness", project coordination, student management, finances and the learning environment.

Rekhi Foundation will develop and share the curriculum of happiness to DTU for delivering to Students.

DTU will actively promote "Centre of Happiness" at major platforms for mutually agreed periods.

## **ARTICLE 2: SPONSORSHIP**

Initially, Rekhi Foundation shall support "Centre of Happiness" by sponsoring Two (2) professors who will serve as Faculty to the Centre.

Rekhi Foundation will spent an amount of upto Rs. 200,000/- (Rupees Two Lakhs only) per month towards the remuneration of the aforesaid Professors, hospitality and other expenses like consumables etc.

Rekhi Foundation will also sponsor online training programs for DTU faculty to build in house expertise for up to 5 professors.

Rekhi Foundation will supplement the teaching in the "Centre of Happiness" from time to time.

Rekhi Foundation shall sponsor 5 to 10 paid Internship to students on Happiness Curriculum, as mutually agreed.

## **ARTICLE 3: PROMOTION**

DTU shall create a web page for the "Centre of Happiness" detailing the project.

The Activities of the "Centre of Happiness" and its initiation will be promoted through social media. Commencement, details and impact of the Centre of Happiness will be displayed on the website of DTU with a press release to this effect.

## **ARTICLE 4: MANAGEMENT COMMITTEE & PERIOD OF CONSULTATIONS**

- 4.1 The Rekhi Foundation and DTU will appoint representatives to manage and oversee the joint activities of the Centre. The Rekhi Foundation and DTU may meet as and when necessary but at least once in a quarter (Physically/ Virtually) to review progress in the implementation of the plans, define new areas for cooperation, and discuss matters related to the MOU.

## **ARTICLE 5: TERMINATION AND AMENDMENTS**

This MOU shall be in effect from the date of signing and shall remain valid for a period of five (5) years. It can be extended by both the Parties by entering into a written amendment.

Either Party may request termination of this MOU, in writing, with ninety (90) days prior written notice. Any activity in progress at the time of termination shall be permitted to conclude as planned unless otherwise agreed in writing.

Amendments to this MOU may be requested, in writing, by either Party and approved by the authorised signatories of both parties after due deliberations.



#### ARTICLE 6: MISCELLANEOUS

DTU shall submit quarterly reports to Rekhi Foundation on the progress and achievements of the "Centre of Happiness".

Nothing in this MOU shall be construed as creating any legal relationship between the Parties. This MOU is a statement of intent to foster genuine and mutually beneficial cooperation. Any conflict shall be managed between the parties amicably.

The Parties recognise that appropriate representation is important to emphasise their common interests, purposes and intentions in substantive terms. The Parties, therefore, intend to invite each other, where appropriate, to meetings, conferences, seminars and workshops relevant to cooperation in the priority areas set out in this MOU.

In complete agreement with the above, we, the two Parties' representatives, the Rekhi Foundation and the Delhi Technological University, sign this MOU.

Signed for and on behalf of Rekhi Foundation Satinder Singh Rekhi By its duly authorised officer on 12 <sup>th</sup> day of November 2021	Signed for and on behalf of Delhi Technological University By its duly authorised officer on ___ day of November 2021
Sign: 	Sign: 



## DELHI TECHNOLOGICAL UNIVERSITY

Established Under Govt. of Delhi Act 6 of 2009

(Formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042

### Memorandum of Understanding (MoU) for the constitution of "Mr. and Mrs. Laxmi and Raj Mrig scholarship" between DTU and Sh. Laxmi Mrig

**Date of Agreement: 28<sup>th</sup> day of August, 2021**

#### POINTS OF AGREEMENT:

Sh. Laxmi Mrig, a 1968 Electrical Engineering Batch Alumnus of Delhi College of Engineering (currently Known as Delhi Technological University) pledges to contribute **Rs. 6,00,000/- (Rupees Six Lacs Only)** towards **"Mr. and Mrs. Laxmi and Raj Mrig scholarship"** for pursuing Engineering at DTU. The contribution will be made as follows:

(A) An amount of Rs. 6,00,000/- (Rupees Six Lacs Only) will be deposited in an account **"DTU Medals and Scholars6hip" with A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI in the name of Donor, **"Mr. and Mrs. Laxmi and Raj Mrig scholarship"** Two Scholarships amounting to Rs. 60,000/- per annum each shall be awarded to TWO Female students pursuing engineering degrees preferably in electric power systems/Electrical Engineering. The recipients will be selected in accordance with established procedures for need and Merit. This Scholarship is for a period of 05 years only.

(B) Scholarships will start in the year 2021 and shall be awarded at this year's convocation in December 2021.

(C) For local contact, Sh. Laxmi Mrig:

Local Address:

Contact Address:

Phone:

Email:

- (D) Selection committee members:
  - (i) Hon'ble Vice Chancellor or his nominee
  - (ii) Dean Alumni Affairs
  - (iii) Chairperson of Medals & Scholarship Committee
  - (iv) Donor Sh. Laxmi Mrig or his representative

**Registrar**

(Delhi Technological University)

118

**Sh. Laxmi Mrig**

(DCE 1968 EE Alumnus)



सत्यमेव जयते

# INDIA NON JUDICIAL

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: DTU

: Article 5 General Agreement

: Not Applicable

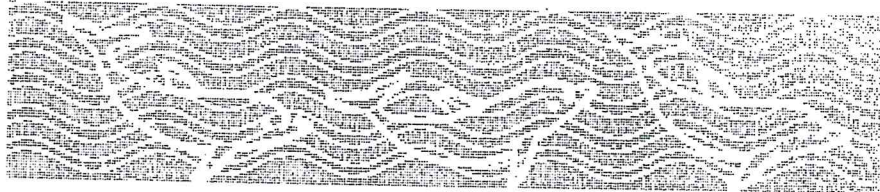
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: CPPRI

: DTU

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(One Hundred only)



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3. In case of any discrepancy please inform the Competent Authority.

12/c

## MEMORANDUM OF UNDERSTANDING

between

**Delhi Technological University**  
(Formerly Delhi College of Engineering)

and

**Central Pulp and Paper Research Institute (CPPRI), Saharanpur**

This Memorandum of Understanding is made this day 11<sup>th</sup> January 2021, between Delhi Technological University (DTU), (Formerly Delhi College of Engineering), having its Registered & H.O. at Shahabad Daulatpur, Bawana Road, Delhi through its Vice Chancellor/Registrar (hereinafter called the First party) of the ONE PART

and

The Central Pulp & Paper Research Institute (CPPRI) an Autonomous organization under Ministry of Commerce & Industry, DPIIT, Govt. of India having its Registered & Head office at Himmat Nagar, Paper Mills Road, Saharanpur (UP), (hereinafter called the Second party) through its Director, of the OTHER PART.

That for the purpose of this MoU both the parties shall hereinafter collectively be referred to as the 'PARTIES'.

The parties have discussed & consented and accordingly hereby agree to engage in the following mutual co-operative programmes :

- A) Joint Research & Development (R&D) activities
- B) Joint training & Development programmes.
- C) Submission of Joint Research Projects to various funding Agencies.
- D) Recognition of CPPRI by the DTU as a Centre of Research for Ph.D.
- E) Recognition of CPPRI Scientists as Research Guide by the DTU for Ph.D. scholars.
- F) Mobility and/or exchange of Faculty and students of each other in order to enhance the learning experience and inter-institutional understanding, on the defined terms and conditions under which they will engage in co-operative programmes.

For and in consideration of their mutual discussion and consents, the parties agree to work as follows:

- I. Both the sides will take care of the interest of the organizations in the respective areas to promote education and research.

1 of 6

*[Signature]*

*[Signature]*

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## 2. Mobility and/or exchange of Faculty

There may be mobility and/or exchange of Faculty /research members between the two institutions for short durations of time (no longer than one academic year) on the terms and conditions agreeable to both the parties. Faculty members teaching in undergraduate and postgraduate programmes at either party may visit the other institution and work for teaching staggered hours / term / year. The financial implications for such mobility shall be agreed upon by both the parties on a case to case basis.

The faculty under mobility as above shall teach programmes, participate in seminars, participate in executive & joint programmes, carry out research work and promote academic interest of both the institutions.

A request for mobility and/or exchange of Faculty shall be initiated by the home institution by sending a written proposal to the host institution. The proposal shall include the credentials of the visiting faculty members and a description of the scope of the teaching or research which the faculty member hopes to accomplish. The proposal shall also state the type of assistance or facilities which the faculty or researchers may require from the host institution.

Whenever possible, the faculty mobility shall be conducted on a reciprocal basis.

## 3. Mobility of Students

Each party will recognize the programmes offered by the other party for admission to the courses in the two institutions.

The Mobility and/or Exchange of students will happen as per any of the following:

Short term Mobility: Under this mobility, the students from one party shall visit the other party for a period of upto one month to study a particular course;

One Semester Mobility: Under this mobility and/or exchange, the students from one party shall visit the other party for studying one full semester;

One Year Mobility and/or exchange: Under this mobility and/or exchange, the students from one party shall visit the other party for a period of one academic year to study two semesters/three trimesters.

Whenever possible, the student mobility and/or exchange shall be conducted on a reciprocal basis.

Each institution will send and accept the exchange of a mutually acceptable number of students.



10/2

Students of one institution who desire to study at the other (either at the undergraduate, post-graduate or doctoral level) must obtain approval from the home institution and meet all admission standards of the host institution. A letter of recommendation from the Head of the Department or Dean or Head of the Institution must accompany the application form. Students accepted by the host institution will be expected to perform at the level of competency required for students in attendance at the host institution and shall be expected to abide by the rules and regulations of the host institution.

The application forms of one institution shall also be made available at the other institution for necessary information on the programmes and facilities offered by both the institutions.

The host institution shall have no responsibility for the expenses of a visiting student except as otherwise committed to the student.

The home institution shall make the initial selection of students for the mobility and/or exchange. The host institution shall make the final mobility and/or exchange decision in each case.

Each exchange student shall determine the study programme at the host institution in consultation with academic advisors of both the institutions.

The host institution shall evaluate the academic performance of each mobility and/or exchange student according to its rules and shall send the academic records/transcripts of each mobility and/or exchange student to the home institution. The home institution shall give credit to such students who are evaluated by the host institution.

Provided they have paid the prescribed fee at their home institution, a pre-determined number of mobility and/or exchange students shall not be required to pay tuition fees at the host institution. Other costs, including housing, travel, book, supplies, meals, and other incidental expenses arising out of the exchange, will be the responsibility of the mobility and/or exchange students. The host institution shall try to accommodate the mobility and/or exchange students in on-campus accommodation. Any provision of financial assistance to students by either of the institution shall be decided on a case to case basis.

Mobility and/or exchange students shall meet all requirements of the host institution including where appropriate, arrangement for their family members and dependents. Mobility and/or exchange students shall ensure that they keep their host institution fully informed of their movements and their contact details during the period of their

*By*

3 of 6

*Gen*  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daultpur, Bawana Road,  
Delhi 110042

mobility and/or exchange. The host institution will act as the point of contact between the institution and the student.

#### 4. Joint Training and Development Programmes

The Institutions may conduct Faculty Development Programmes and other training and development programmes with academic and technical support of both or single institution based on mutual discussions.

The certificates issued would bear the emblem/seal of both the institutions.

The monetary division would be based on mutual agreement varying from programme to programme.

#### 5. Joint Seminars, Conferences & Academic Meetings

Both the parties shall organize joint seminars, conferences and academic meeting at either institution for promoting academic and research.

The terms & Conditions of each joint activity to be carried out under the scope of this MoU shall be mutually agreed to through a written instrument by both the parties before the commencement of the joint activity except the provisions made herein this MoU. The said written instrument shall be deemed an integral part to this MoU and will be effective from the date by which it is signed by both the parties.

#### 6. Exchange of Research Work


Both the parties shall also exchange the literature (working papers, research articles, journals, research projects) developed at the institution jointly or independently to promote research.

Both the sides may undertake joint research work (working papers / research projects) in the areas of mutual interest.

All publications, research grants or other joint projects, emerging out of the collaborative efforts of both the parties shall recognize the efforts of each other. Both the parties agree to exchange publications, such as books, academic journals, studies and other research information, which is generated by either party as a result of joint efforts under this MoU. However, Both parties agree that they will not publish any result or any part of the work carried out by them in collaboration with each other under the scope of this MoU in any print/electronic media or in any form without prior written consent of the other party.



4 of 6

  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## 7 Twinning Programmes

Wherein a joint degree shall be given to the student from the home and the host country institution, a separate Memorandum of Understanding shall be signed giving the following details

The mandatory clearances for initiation of such programmes shall be taken from both the home and host country institutions.

The statutory clearances should include the approval of the proposed programmes from the following Statutory Bodies

1. Board of Studies of the Department concerned
2. Academic Council of the University
3. Board of Governors / Board of Management of the institutions
4. Clearance from UGC / AICTE etc. as per the requirement of the proposed programme.

Approval from the Ministry of Human Resource Development and Ministry of External Affairs, Government of India

The credit transfer scheme shall be worked out with the mutual consent of both parties involved.


The fee structure for the twinning programme shall be decided by both the parties by mutual consent.

## 8. Intellectual property rights:


Both the parties are expected to ensure protection of the Intellectual Property Rights of each other which may owe to be generated or likely to be generated during execution of work under the scope of this MoU. Both parties i.e. CPPRI & DTU shall be the joint applicants for any IPR and Scientific staff involved shall be included as the inventor/author to the IPR. The management and the benefits of any IPR generated through the work carried out under the scope of this MoU shall be shared in the ratio of 50:50 by both the parties. However the Guidelines for Intellectual property management and technology Transfer/Commercialization as amended from time to time shall be the reference for exploitation of generated Intellectual property.

## 9. Fee and Financials

There would be no financials involved in fulfilling this memorandum except when agreed separately.



5 of 6

  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi - 110028

10. This specific memorandum is open to either Side at any time to submit suggestions or recommendations for amendment or modification.
11. The agreement shall take effect when executed by the parties and shall last for a term of five years. The agreement shall be automatically renewed for additional three year periods, should neither party opt to terminate the agreement at that time. The agreement may be terminated by either party upon the provision of two months advance written notice to the other. If either party breaches a material term or condition of this agreement or an agreement entered into pursuant to this agreement, the other party shall have the right to immediate termination of the relationship upon written notice to the other. Consideration shall be given in providing notice of intent to terminate to the effect of termination upon existing programmes and project. Every notice which is to be given under this agreement shall be sent to the other party by e-mail and postal mail. However, any suggestion or recommendations for amendment or modification if any will take place through a written instrument to be deemed as an integral part to this MoU and shall be effective from the date by which the said written instrument is signed.
12. "In case any resentment is arisen during currency of the MoU in connection with any clause and/or whatsoever relating to this MoU, both parties shall try to resolve the same amicably. However, if the same could not be resolved amicably, the issue shall be referred to the vice-chancellor of one of the Universities imparting engineering degrees in Delhi, whose decision shall be final and binding on the parties".
13. The Court of law situated at Delhi/Saharanpur shall alone have the Jurisdiction to adjudicate all legal matters relating to this MoU.

For Delhi Technological University

For CPPRI, SAHARANPUR

1. Vice Chancellor/Registrar

**Registrar**  
**Delhi Technological University**  
 (Govt. of NCT of Delhi)  
 (Formerly Delhi College of Engg.)  
 Shahbad Daulatpur, Bawana Road,  
 Delhi-110042

Witness

1. [Signature] 20/1/2021  
 (Prof. S.K. Singh)

2. [Signature] 20/1/21  
 (A. K. Haritash)

1. Director

**निदेशक/Director**  
 केन्द्रीय लुग्दी एवं कागज अनुसंधान संस्था  
 Central Pulp & Paper Research Institut  
 सहारनपुर /Saharanpur - 247001 (U.P)

Witness

1. [Signature] 20/1/21 CDR K. SINGH

2. [Signature] 20/1/2021 (Arum Kumar)



**GENERAL AGREEMENT FOR ACADEMIC COOPERATION  
BETWEEN  
RIGA TECHNICAL UNIVERSITY, Riga, Latvia  
AND  
DELHI TECHNOLOGICAL UNIVERSITY, Delhi, INDIA**

**Riga Technical University**, 1, Kalku Street, Riga LV 1658, Latvia, represented by Prof. Dr. habil. Leonīds Ribickis, Rector of Riga Technical University, and

**Delhi Technological University**, Shahbad Daultapur, Bawana Road, Delhi - 110042, India represented by Prof. Samsher, Registrar and Prof. Vishal Verma, Dean International Affairs on behalf of the Vice Chancellor Prof. Yogesh Singh hereinafter jointly referred to as Parties, and individually – Party, establish this General Agreement to foster international cooperation in education and research.

1. Both parties agree to encourage the following activities, in particular to promote international academic cooperation:
  - (a) Exchange of educational and research materials, publications, and academic information;
  - (b) Exchange of faculty and research scholars;
  - (c) Exchange of students;
  - (d) Joint research and meetings for education and research;
  - (e) Promoting cooperation in doctoral (PhD) education.
2. This General Agreement shall be applicable to educational and research organizations attached to each party.
3. This General Agreement constitutes the entire agreement between the parties, and all prior discussions, agreements, and understandings, whether verbal or in writing, is merged in this agreement.
4. This General Agreement is not considered to be a contract creating legal and financial relationship between the parties. Rather, it is designed to facilitate and develop a genuine and mutually beneficial exchange process/research relationship. To carry out concrete programs, the parties will conclude other agreements as supplements to the present General Agreement specifying financial and juridical responsibilities.
5. **With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one**

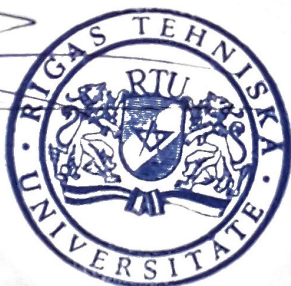
institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.

6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
7. This General Agreement shall become effective as of the date of signatures of both parties. The General Agreement may be amended by the written consent of the parties.
8. This General Agreement is in force for five years. The General Agreement may be extended for additional five-year periods upon the written consent of both parties. In such case this General Agreement should be reviewed to evaluate the progress and the quality of the mutual cooperation. If the General Agreement is not renewed by mutual consent, the General Agreement will conclude at the end of the specified time period, or after activities in progress have concluded.
9. This General Agreement may be terminated by either party with a minimum of 120 days written notice. Activities in progress at the time of termination of this General Agreement shall be permitted to conclude as planned unless otherwise agreed.
10. Each party shall designate a person or office to serve as liaison for implementing this General Agreement. For Riga Technical University, the contact will be International Cooperation and Foreign Students Department (tel. +371 67089343, e-mail: [laura.stale@rtu.lv](mailto:laura.stale@rtu.lv)). For Delhi Technological University the contact will be the Office of International Affairs (e-mail: [oia.dtu@dtu.ac.in](mailto:oia.dtu@dtu.ac.in) & [international.dtu@dtu.ac.in](mailto:international.dtu@dtu.ac.in)).

Signing for Riga Technical University

Signing for Delhi Technological University

Leonīds Ribickis  
Rector



Prof. Samsher  
Registrar, Delhi Technological University, Delhi

Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi



Date

27. 10. 2020.

Date



# DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009  
(formerly Delhi College of Engineering)

Shahabad Daulatpur, Bawana Road, Delhi-110042


## Memorandum of Understanding (MoU) for the constitution of "Passi Family Scholarship" between DTU and Sh. Manmohan Singh Passi

Date of Agreement: 26<sup>th</sup> day of August, 2020

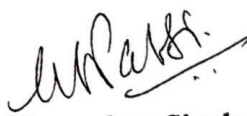
### POINTS OF AGREEMENT:

Sh Manmohan Singh Passi, a 1974 Electrical Engineering batch Alumnus of Delhi College of Engineering (currently known as Delhi Technological University) pledges to contribute **Rs. 7,30,000/- (Rupees Seven Lacs Thirty Thousand Only)** towards "**Passi Family Scholarship**" for excellence in Engineering at DTU. The contribution will be made as follows:

- (A) An amount of Rs. 7,30,000/- (Rupees Seven Lacs Thirty Thousand Only) will be deposited in an account "**DTU Medals and Scholarship**" with **A/C number 36423599642**, IFSC: SBIN0010446, SBI DCE BRANCH DELHI. In the name of Donor, "Passi Family Scholarship" amounting to Rs 60,000/- per annum each shall be awarded to TWO students (One male and one female, from economically challenged background) of 3rd year in any engineering or computer science discipline based on their academic performance from I to IV semester ( At least one of them must be from core Engineering branch, i.e. non-Computer Science branches).
- (B) DTU is answerable to the questions raised by Donor. Any kind of discrepancies/irregularity in the selection process will result in termination of Scholarship and will be awarded to the next suitably qualified candidate.
- (C) Scholarships will start in the year 2020 and shall be awarded at this year's convocation in December 2020.
- (D) For local contact, Sh. Manmohan Singh Passi:  
Local Address: C-579 New Friends Colony, New Delhi  
Contact Address: 4631 Gresham Drive, Eldorado Hills, CA 95762, USA  
Phone: 001-916-947-5807, Email: mspassil@gmail.com
- (E) Selection committee will be comprised of the following members:
  - I. Hon'ble Vice Chancellor or his nominee
  - II. Dean Alumni Affairs
  - III. Chairperson of Medals & Scholarships Committee
  - IV. Donor Sh Manmohan Singh Passi or his representative

  
**Registrar**  
(Delhi Technological University)

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

  
**Sh. Manmohan Singh Passi**  
(DCE 1974 EE Alumnus)

28 August 2020



GOVERNMENT OF INDIA  
MINISTRY OF COMMERCE & INDUSTRY  
OFFICE OF THE CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADEMARKS  
SEMICONDUCTOR INTEGRATED CIRCUITS LAYOUT DESIGN REGISTRY,  
BOUDHIK SAMPADA BHAWAN, PLOT NO. 32, SECTOR-14, DWARKA,  
NEW DELHI - 110078, INDIA  
E-mail: delhi-patent@nic.in Website: www.ipindia.nic.in  
Tel.: 011-25300200 Fax: 011-28034301,02

## **CONSULTANCY AGREEMENT**

This Consultancy Agreement ("Agreement") is entered into on .....<sup>27<sup>th</sup></sup>.....day of  
.....<sup>April</sup>..... 2022, by and between

**Controller General of Patents, Designs & Trademarks (CGPDTM) (hereinafter referred as CGPDTM) of the FIRST PART;**



**AND**

**Department of Electronics and Communication Engineering Delhi Technological University, Delhi (DTU) of the SECOND PART; (hereinafter referred as a consultant)**



**DELHI TECHNOLOGICAL UNIVERSITY**  
formerly Delhi College of Engineering  
(under Delhi Act 6 of 2009, Govt. of NCT of Delhi)  
Accredited with 'A' Grade (CGPA 3.22 out of 4.0) by NAAC (1st Cycle)  
ISO 9001:2015 Certified

The CGPDTM and the Consultant are collectively referred to as the "**Parties**" and individually as a "**Party**".

Anant Prakash Srivastava  
Assistant Controller of Patents & Designs  
Govt. of India, Patent Office  
(Ministry of Commerce & Industry)  
Boudhik Sampada Bhawan, Plot No. 32,  
Sector-14, Dwarka, New Delhi-110078

Registered  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Revised  
Official Designation  
(Name of the person or organization)  
Shaded Designated Areas  
Shaded

**WHEREAS,**

The CGPDTM has appointed the Consultant to provide services in the SICLDR application agreement contract along with and referenced with those stated in the proposal and prior communication (subject: Regarding technical evaluation/Report of SIC Layout-Design stored in the GDS-II format) and communications thereafter, and;

**WHEREAS**

The Consultant has accepted this Agreement in terms of the appointment letter dated \_\_\_\_\_ issued by the CGPDTM subject to the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the Parties agree as follows:

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Dautapur, Bawana Road,  
131 Delhi-110042

*Grant*

Amrit Prakash Singhania  
Associate Professor of Electronics Engineering  
Department of Electronics Engineering  
(Institute of Engineering & Technology)  
B-Block, Sector-17, Gurgaon, Haryana-122001  
Sect-17, Gurgaon, Haryana-122001



## A. DEFINITIONS

Employer /CGPDTM	means Controller General of Patents, Designs & TradeMarks acting through the Head of Semiconductor Integrated Circuits Layout-Design Registry (SICLDR)
Consultant/DTU	Department of Electronics and Communication Engineering, Delhi Technological University, Delhi.
Govt. Department	All Departments under the control of the Central Govt. of India.
IPR	Intellectual Property Rights.
IP	Intellectual Property.
SICLD	Semiconductor Integrated Circuits Layout Design
SICLDR	Semiconductor Integrated Circuits Layout Design Registry
GDSII	Graphic Design System (Geometrical database standard for information interchange )
Contract/consultancy agreement	Contract agreement signed by the Parties and all the attached documents listed in it, that is the General Conditions (GC), the project Specific Conditions (SC), and the Appendices.
Day	A calendar day
Law Governing Contract	This Contract/consultancy, its meaning and interpretation, <u>and the relation between the Parties shall</u> be governed by the Applicable Laws of India and shall be subject to the jurisdiction of the Courts at New Delhi.
Project-specific information	Such part of the Instructions to Consultants used to reflect specific project and assignment conditions.
Instructions to Consultants	the document which provides Consultants with all information needed to prepare their proposals
Personnel	professionals and support staff provided by the Consultant and assigned to perform the Services or any part thereof.
Proposal	Technical Proposal and the Financial Proposal
Assignment/job/service	work to be performed by the Consultant pursuant to this consultancy agreement as described in TOR.
"Terms of Reference"	The document explains the objectives, scope of work,

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road,  
133Delhi-110042



*Part 5*

Aravind Prakash Choudhary  
Assistant Controller of Patents & Designs  
Govt. of India, Patent Office  
(Ministry of Commerce & Industry)  
Building No. 10, 1st Floor, Plot No. 10,  
Sector 14, Connaught Place, New Delhi-110008



(TOR)	activities, tasks to be performed, respective responsibilities of the Employer and the Consultant, and expected results and deliverables of the Assignment/job.
Applicable Law	Semiconductor Integrated Circuits Layout Design (SICLD) Act 2000 and the Semiconductor Integrated Circuits Layout-Design (SICLD) Rules 2001 AND including other applicable laws.
Local Currency	Currency of the Government of India (Rupees)
Performance Security	The irrevocable and unconditional bank guarantee provided by the Consultant from a scheduled Indian bank as a guarantee for the performance of its obligations in respect of the consultancy agreement;
Work Order	A specific directive or order to perform a defined scope for a defined duration and fee.
Corrupt Practice	The offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the selection process or in consultancy agreement execution.
Fraudulent Practice	A misrepresentation of facts in order to influence a selection process or the execution of a consultancy agreement to the detriment of the Client, and includes collusive practice among consultants (prior to or after submission of proposals) designed to establish prices at artificial non-competitive levels and to deprive the Client of the benefits of free and open competition.
Authorized Representatives	Any action required or permitted to be taken, and any document required or permitted to be executed, under this contract agreement by the Consultants may be taken or executed by the officials.

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

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Prank

Amant Prakash, CTO, BAWANA  
Associate Engineer, BAWANA  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Handwritten text, possibly a signature or initials, located at the bottom left of the page.

## B. TERMS OF REFERENCE (ToR)

### B1. PROJECT BACKGROUND

With a view to implementing its mandate, the O/o CGPDTM endeavors to ensure timely delivery of IP services in a transparent and applicant-friendly manner. Intellectual Property Rights (IPR) framework in a country is ever-evolving and dynamic in nature. The Office is taking all relevant and necessary steps to implement the objectives of the National IPR Policy including strengthening IPR administration and management. This is to ensure ease of access to all stakeholders, to provide an efficient IP ecosystem, and to build up the pace for industrial growth in the country.

Semiconductor Integrated Circuits Layout-Design Registry (SICLDR) is the office where the applications on Layout-Designs of integrated circuits are filed for registration of created IPR. The jurisdiction of this Registry is the whole territory of India. The Registry, as per the provisions laid down in the Semiconductor Integrated Circuits Layout Design (SICLD) Act 2000 and the Semiconductor Integrated Circuits Layout-Design (SICLD) Rules 2001, examines the layout-designs of the Integrated Circuits and issues the Registration Certificate to the original layout-designs of the Semiconductor Integrated Circuits.

Accordingly, the O/o CGPDTM wishes to obtain technical evaluation Reports of the Semiconductor Integrated Circuits Layout-Design (SICLD) GDS-II files through consultancy service from an organization that has sufficient required resources/facilities, like a laboratory, manpower, and software and hardware tools to fulfill the objective.

### B2. OBJECTIVES

The main objectives for which Technical report is to be established including but not limited to are the following:

- Reading and interpretation of GDS-II file, filed with an application for registration of SICLD and give information of technical details;
- Provide suggestion/ opinion, as feasible, on the SICLD's Originality, Distinctiveness, being Capable of distinguishing from any other layout design, and commercial exploitation anywhere in India or in a convention country;

Registrar  
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Shahbad Daulatpur, Bawana Road,  
Delhi-110042

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Grant

Amrinder Singh, Secretary  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Delhi-110043  
Dr. J. P. Singh, Director,  
Delhi College of Engineering,  
Delhi Technological University,  
Delhi-110043

- Detailed technical features including but not limited to, statistical validation of the technology used, technology file and layer (mask) mapping table, area, power consumption, numbers of ports, net, layers, poly, capacitors and other components used and other necessary information.
- Mention of Schematic of Layout Design claimed for registration (in SPICE format).
- Provide suggestion/ opinion Layout Versus Schematic (LVS) rule check report and verification of Block diagram of layout design along with (a) External IPs used; (b) Library/library component used; (c) All blocks connected.
- Provide suggestions/opinions if any rectification/ corrective actions are required there in the application.
- The consultant will also arrange training or transfer of knowledge to the O/o CGPDTM, SICLDR officials in the form of a training workshop or any other suitable mode for understanding and interpretation of the SICLD GDS-II file.

### B3. SCOPE OF SERVICES

1. **SCOPE:** The Scope shall include:

- To read and interpret the assigned GDS-II file.
- Prepare and submit a detailed technical report that features including but not limited to, opinion on the SICLD applied for, statistical validation of the technology used, technology file and layer (mask) mapping table, area, power consumption, numbers of ports, net, layers, poly, capacitors and other components used and other necessary information.

Further, for extraction of the Layout and the technical report of the design, the following information will be needed to execute the proposal:

- The application for SIC Layout design in GDS-II format;
- Schematic of Layout Design claimed for registration (in SPICE format);
- Technology file along with Layer mapping table; LVS Rule Check; Cumulative area of 3rd party IPs; opinion on its originality;

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

Amrit Prakash Choudhary  
Assistant Director of Planning & Development  
Cell of Technical Education  
(Ministry of Education & Skill Development)  
Government of India, New Delhi-110018







#### **B5: PAYMENT**

The Payment of the consultancy work shall be done on a quarterly basis and only after satisfactory completion of the allocated work.

#### **B6: LOCATION**

The Services shall be performed by the consultant at such location(s) as necessary to carry out the consultancy services and achieve the objectives as stated in the ToR and the Scope of work.

### **C. DEVIATION IN SCOPE OF WORK**

The Office of the CGPDTM reserves the right to increase or decrease the scope of work. However, the increase and decrease in the scope of work shall be agreed upon mutually.

### **D. SUBLETTING OF WORK:**

The contract shall be nontransferable and hence the contractor shall not be entitled to assign or sublet the work or any part of it to any other person or party, failing which the contract shall be terminated immediately.

### **E. JURISDICTION**

The disputes, if any, arising between the Consultant and CGPDTM shall be resolved amicably, failing which it shall be referred to an Arbitrator, mutually acceptable to both parties, appointed by the CGPDTM as per the Arbitration and Conciliation Act, 1996.

Alternatively, this shall be subject to the exclusive jurisdiction of courts at Delhi.

### **F. ADVANCES**

There shall be no advance payment applicable.

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## G. PERFORMANCE GUARANTEE (PG):

A sum @ 5% of the consultancy cost shall be deposited as Performance Guarantee by Consultant in favor of Controller of Patents & Designs, in the form of bankers cheque/ demand draft/ bank guarantee from any scheduled bank, within 30 days after receipt of Letter of Acceptance (LOA).

## H. CLAIM

Under no circumstances, the Consultant is entitled to claim any charges over and above the charges prescribed in the terms of this contract agreement of consultancy. The O/o CGPD TM shall not be liable and responsible for any damage/loss of any nature and magnitude caused to the Consultant or its employee in the performance of the duty under this consultancy agreement.

## I. NOTICE AND INSTRUCTIONS

The Consultant shall furnish the complete address of its permanent office, laboratory, and local office along with telephone numbers, fax numbers, email id, etc. to O/o CGPD TM. Any notice or instructions given to the consultant under the terms of the consultancy agreement shall be deemed to have been served on him if it has been sent at a local office or to the address of the organization last notified by the Consultant or delivered to its authorized signatory.

## J. INDEMNITY

The Consultant shall defend, indemnify and hold harmless CGPD TM, its affiliates and their officers, directors, employees deployed by CGPD TM from and against any claims, losses, damages, liabilities, costs, and expenses, including without limitation, reasonable attorney's fee and costs as incurred, arising in any manner out of any breach by the Consultant of any provision contained in this agreement or any law in force in India.

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Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



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Anant

Anant Prakash Srivastava  
Assistant Controller of Patents & Designs  
Govt. of India, Patent Office  
(Ministry of Commerce & Industry)  
Boudhik Sampada Bhawan, Plot No. 32,  
Sector-14, Dwarka, New Delhi-110078



## K. AUTHORIZED REPRESENTATIVES (OFFICER IN CHARGE) FOR DECISION

The decision of the O/o CGPDTM acting through its authorized official (s), with regards to the satisfactory completion of the work, shall be final and binding on the Consultant.

## L. TERMINATION OF THE CONTRACT

In case of failure of the Consultant in fulfilling the consultancy agreement, the O/o CGPDTM may at its discretion, terminate the consultancy agreement either wholly or in part by giving 15 days advance notice to the Consultant assigning reasons thereof. On termination of the consultancy agreement, it shall be the responsibility of the Consultant to remove his manpower and return the material provided by CGPDTM within two days of the date specified. The O/o CGPDTM shall not indemnify any loss caused to the Consultant by such terminations, whatsoever it may be.

That, if at any stage during the period of the consultancy agreement any case involving moral turpitude is instituted in a court of law against the Consultant or its employees, the O/o CGPDTM reserves exclusive and special rights for the outright termination of the consultancy agreement without any notice to the consultant and in that event the consultant shall not be entitled to any compensation from the O/o CGPDTM.

If the performance of the Consultant is found poor despite repeated instructions, the O/o CGPDTM may recover up to 10% (ten percent) of the awarded amount towards Liquidated Damages and the performance guarantee may also be forfeited; and/or terminate the consultancy agreement after giving 15 days notice. The Consultant shall not be entitled for compensation for any loss which it may incur on such termination.

## M. CONFIDENTIALITY

The Consultants, and the Personnel of either of them shall not, either during the term or after the expiration of this consultancy agreement, disclose any proprietary or confidential information relating to the Project/ Application files, the Services, this consultancy agreement, or operations without the prior written consent of the O/o CGPDTM. In case of 3rd party information gathered in the execution of the consultancy, similar confidentiality shall be maintained.



## N. DEFAULT BY THE CONSULTANT

If the Consultant fails to start the work or submit the reports on the specified date and timelines, and/or repudiates the consultancy agreement before the expiry of such period without any reasonable grounds acceptable to the O/o CGPDTM, the O/o CGPDTM without prejudice to any other remedy may recover damages for breach of the consultancy agreement at the rate of 2% (two percent) of the awarded amount and black list the consultant from the award of any work in future for a certain period as the O/o CGPDTM may deem fit.

## O. PROHIBITION OF CONFLICTING ACTIVITIES

The Consultants shall not engage, and shall not cause their Personnel to engage, either directly or indirectly, in any of the activities, such as during the term of this consultancy agreement, any business or professional activities in the SICLDR domain which would conflict with the activities assigned to them under this consultancy agreement;

## P. FAIRNESS AND GOOD FAITH

The Parties undertake to act in good faith with respect to each other's rights under this consultancy agreement and to adopt all reasonable measures to ensure the realization of the objectives of this consultancy agreement.

## Q. DOCUMENTS PREPARED BY THE CONSULTANTS TO BE THE PROPERTY OF THE O/o CGPDTM IN PERPETUITY

All the data, report, material, and other documents prepared by the Consultants for the O/o CGPDTM under this consultancy agreement shall become and remain the property of the O/o CGPDTM, and the Consultants shall, not later than upon termination or expiration of this consultancy agreement, deliver all such documents to the O/o CGPDTM, together with a detailed inventory thereof. Such documents, as prepared, should not be used by the consultant unless specifically permitted by the O/o CGPDTM in writing.

Anshu Prakash Srivastava  
Assistant Controller of Examinations & Assessments  
Govt. of India, Public Office  
(Ministry of Education, India)  
Bachchan Samprada Bhawan, Plot No. 32,  
Sector-14, Gurgaon, New Delhi-120078

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

000-110013  
United Nations, Geneva, 1964  
Library of Congress at University  
of California, Berkeley  
000-110013

## R. FORCE MAJEURE

(a) For the purposes of this consultancy agreement of consultancy, "Force Majeure" means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action ( except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.

(b) Force Majeure shall not include any event which is caused by the negligence or intentional action of a party or such Party's Sub-consultants or agents or employees, nor any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this consultancy agreement and avoid or overcome in the carrying out of its obligations hereunder.

(c) Force Majeure shall not include insufficiency of funds, manpower, or failure to make any payment required hereunder.

### 1. MEASURES TO BE TAKEN IN CASE OF FORCE MAJEURE

(a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfill its obligations hereunder with a minimum of delay.

(b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.

(c) The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

(d) Not later than thirty (30) days after the Consultant, as a result of an event of Force Majeure, have become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

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Assistant Professor (Mechanical Engineering)  
Assistant Professor of Mechanical Engineering  
C.O.E. (Formerly Delhi College of Engineering)  
(Ministry of Education, Government of India)  
Bawana Campus, Bawana Road, Delhi-110042  
Sector-14, Gurgaon, New Delhi-122 015



## 2. EXTENSION OF TIME IN CASE OF FORCE MAJEURE

Any period within which a Party shall, pursuant to this consultancy agreement, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such activities as a result of Force Majeure.

## S. OPERATION OF THE CONSULTANCY AGREEMENT

The Parties recognize that it is impractical in this consultancy agreement to provide for every contingency which may arise during the life of the consultancy agreement, and the Parties hereby agree that it is their intention that this consultancy agreement shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this consultancy agreement either Party believes that this consultancy agreement is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but failure to agree on any action pursuant to this Clause shall not give rise to a dispute subject to arbitration in accordance with Clause.

## T. LIABILITY OF THE CONSULTANTS

Subject to the provisions of this consultancy agreement for consultancy and additional provisions, if any, set forth in the consultancy agreement, the Consultants' liability under this consultancy agreement shall be as provided by the Applicable Law.

## U. TRAINING OR TRANSFER OF KNOWLEDGE:

The consultant may arrange a training or transfer of knowledge to the O/o CGPDTM, SICLDR/Department staff. The ToR shall be referred to indicate the objectives, nature, scope, and goals of the necessary training programme, including details on trainers and trainees, skills to be transferred, timeframe, and monitoring and evaluation arrangements. The cost of the training programme shall be explicitly included in the consultant's consultancy agreement and in the budget for the assignment/consultancy.

Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Anant

Anant Prakash, Secretary  
Assistant Controller of Examinations  
Gen. Office, Faculty Office  
(Ministry of Education, Government of India)  
B-Block, Sector-14, Connaught Place, New Delhi-110078



## V. INCOME TAX AND OTHER STATUTORY TAXES (CONSULTANTS RESPONSIBILITY)

Income Tax, VAT, Service Tax, and all other statutory taxes, charges, levies, etc shall be deducted from each running bill at the rates prevalent during the period.

Unless otherwise specified in the consultancy agreement document, the Consultants, and Personnel's shall pay such taxes, duties, fees, and other impositions as may be levied under the Applicable Law

## W. ENTIRE AGREEMENT:

This agreement including all its annexes, if any, constitutes the entire agreement of the parties with respect to the subject thereof and shall not be modified, amended, or changed except by a writing executed by the authorized representatives of both the parties. Either party agrees to be responsible for faithful compliance with the terms and conditions of this agreement.

CGPDTM or any person authorized by the competent authority i.e. CGPDTM, shall not be held responsible for any omission or errors on the part of consultancy work.

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Registrar  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

14  
Grant

Anand Prakash Chaudhary  
Assistant Controller of Examinations  
Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daultpur, Bawana Road, Delhi-110042



IN WITNESS WHEREOF the parties hereto have signed and executed this agreement on this 27<sup>th</sup> day of April, 2022.

Department of Electronics and  
Communication Engineering, Delhi  
Technological University, Delhi (DTU)

Controller General of Patents,  
Designs & Trademarks (CGPDTM)

By:

Name: (Prof. Madhusudan Singh)  
Registrar

Title: Delhi Technological University  
(Formerly Delhi College of Engineering)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

Mailing Address:

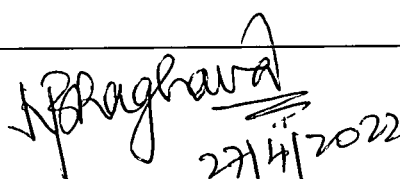
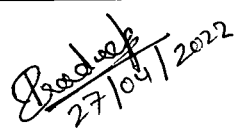
By:

Name:

Title:

Mailing Address:



	Witness 1:	Witness 2:
Signature	 27/4/2022	 27/04/2022
Name	N S RAGHAVA	Pradeep Shukla
Address:	HOD & Prof, ECE DEPT., DTU, DELHI - 110042	Boudhik Sampada Bhawani., Plot no. - 32 Dwarka Sector - 14 New Delhi - 110075

Dell-1100S  
Dell Computer, Dallas Road,  
Round Rock College of Engineering)  
Dell Technological University  
Register



Department of Electronics  
and Communication Engineering  
**DELHI TECHNOLOGICAL UNIVERSITY**

**VLSI CAD Laboratory**

**HARDWARE AND SOFTWARE TOOLS**

**HARDWARE**

1. Server PC
2. Client PCs
3. Spartan FPGA Kits
4. Altera FPGA Board
5. VLSI Universal FPGA-CPLD development system along with daughter board & I/O Boards.

**SOFTWARE TOOLS**

1. Visual T-CAD ((2Perpetual Licenses)
2. SYMICA EDA( AMS) Design CDS-Tool Kit (10 License Perpetual)
3. CADENCE-University Tool Bundle (Perpetual License) consist of Full custom/Analog mixed signals/RFIC design flow, Formal verification, HDL based design, DFM, Technology CAD, High speed PCB design flow, DFT/AT PG.
4. Mentor Graphics Toolset
5. Redhat Enterprise Linux Server ES 5.X.
6. ORCAD p spice A/D Mixed Mode Simulation & ORCAD Optimizer.

Anand Kumar  
Assistant Professor  
Co-ordinator, Pattern Group  
(Ministry of Science & Technology)  
Building 2, Sector 14, Gurgaon, Haryana 122 002  
Section-14, Gurgaon, Haryana-122 002



## CURRICULAM VITAE

1. **Name** : N. S. Raghava
2. **Permanent Address** : B5/16, Second Floor,  
  
Sri Krishna Enclave,  
  
Sector 17, Delhi -110085  
  
Ph: 9711724842 (M)
3. **Nationality** : Indian
4. **University Education** : PhD ( Electronics and Communication Engineering) from  
Delhi University in the area of Microstrip Antennas  
and Master's from BIT's, Pilani and Undergraduation from  
Osmania University attained first class with distinction.
5. **Professional Experience** : 33 years  
Worked in M/S Synergetics Hyderabad as maintenance  
Engineer to maintain hardware and software of computers  
from 1988 to March 1990.  
Worked as Lecturer in Sri Siddartha Institute of  
Technology, Maralur, Tumkur, Karnataka for seven years  
Worked as Lecturer in Directorate of Training and  
Technical Education for two years  
Working as Professor in Delhi Technological University till  
today
5. **Fields of Interest** Microstrip Antenna, Communication Engineering, Image  
Processing and Information Technology, Materials
6. **Research Statement**  
  
"Design and Analysis of Wide Band Efficient Microstrip Antenna using Electronic Band  
Gap structures"
7. **Publications:**  
  
International Journals and Conferences 92  
National Conferences 04
8. **Administrative Experience** : Some of the experience is specified here
  - 1) Member of National Board of Accreditation.
  - 2) Member of Bureau of Indian Standards for Transmitting Equipment for Radio Communications  
Sectional Committee since five years.
  - 3) Head of the department of Electronics and Communication Engineering, Delhi Technological  
University, Delhi.
  - 4) Head Computer Centre for four years
  - 5) Coordinator, TIFAC CORE in Fiber Optics and Optical Communication, Delhi College of  
Engineering.
  - 6) Member of Central Counseling Board, Ministry of HRD, Govt. of India.
  - 7) Deputy Center In charge, Delhi Centre, Central Counseling Board, Ministry of HRD, Govt. of  
India, 2004-05, 2005-06, 2006-07.
  - 8) Member of Committee constituted by Secretary (GAD), Delhi Secretariat, I. P. Estate Delhi.
  - 9) Coordinator, Department Of Information Technology, Delhi College of Engineering, 2005-07.
  - 10) Member of Central Purchase Committee, Delhi College of Engineering, 2004 - 2006.
  - 11) Member of Departmental Purchase Committee, Department Of Electronics and

- Communication Engineering, Delhi College of Engineering, 1998 - 2006.
- 12) Member of Library Committee, Delhi College of Engineering, 2005 - Till Date.
  - 13) Member of Courses Committee, Department of Electronics and Communication Engineering, Delhi College of Engineering, 1999 – 2005.
  - 14) Member of Courses Committee, Department of Information Technology, Delhi College of Engineering, 2005- till date.
  - 15) Deputy Superintendent of B. E. Theory Examination, Delhi College of Engineering, 1999 – 2004.
  - 16) Deputy Superintendent of M. E. Theory Examination, Delhi College of Engineering, 1999 – 2000.
  - 17) Superintendent of Practical Examination, Department of Electronics and Communication Engineering, Delhi College of Engineering, 1999 – 2002.
  - 18) Superintendent of Practical Examination, Department of Information Technology, Delhi College of Engineering, 2005-2006.
  - 19) Chairman of National board of accreditation – visited many universities, Colleges to evaluate the department of Electronics and Communication Engineering for compliance of the accreditation
  - 20) Member of National board of accreditation – visited many universities, Colleges to evaluate the department of Electronics and Communication Engineering for accreditation.

## 9. Projects:

### Completed:

1. **UAS-DTU PROJECT:** Multidisciplinary students have worked on Unmanned Aircraft Systems in an autonomous aerial vehicle development project, targeted for AUVSI's student UAS competition. Waypoint navigation and aerial imagery are some of key qualities of this project. This project was initiated in the year 2008 with 5 lakhs and has been successfully completed. The students have achieved Directors award for best team effort and cash prize of 1500US\$ under UAS project.

2. **UAS-DTU PROJECT:** Delhi Technological University has signed an MOU with Lockheed Martin Aeronautics Company again for first time for the SPONSORED RESEARCH AGREEMENT for a span of two years and will be funding \$300,000. I am the faculty advisor of the project.

3. **UAS-DTU PROJECT:** Delhi Technological University has signed an MOU with Lockheed Martin Aeronautics Company again for the second time for the SPONSORED RESEARCH AGREEMENT for a span of two years and will be funding \$100,000. I have lead the team of 32 students as faculty advisor of the project.

4. **UAS-DTU PROJECT:** Delhi Technological University has signed an MOU with Lockheed Martin Aeronautics Company again for the third time for the SPONSORED RESEARCH AGREEMENT: "RO-RO C130J University Challenge" and will be funding 25000US\$ in first phase. I have lead the team of 20 students as faculty advisor of the project.

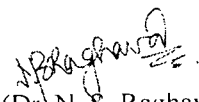
5. **ADANI-UAS-DTU PROJECT:** Delhi Technological University has signed an MOU with Adani Defence Systems and Flaire Unmanned Systems for The Indian Air Force organised Mehar Baba Swarm Drone Competition in line with the Make-in-India initiative to develop swarm drones to utilize varied domains, including humanitarian assistance and disaster relief operations. It was conceptualized to evolve proprietary design, development, manufacturing and production of low cost-high impact solutions for swarm drone technology. The prize included a development contract worth **Rs 100 Crore**.

Launched in October 2018, Team UAS-DTU participated in this competition and qualified phases I and II defeating industry giants including TATA and DRDO and became the only undergraduate Team to make it to the top 5 Finalists in phase III of the competition.

In phase III, the Team collaborated with Adani Defence Systems and Flaire Unmanned Systems and successfully demonstrated an Aerial Swarm of 25 UAVs for HADR scenarios, won the competition, and bagged the trophy for "Best Communication Architecture".

**Awards: In association of Unmanned Vehicles System International SUAS Competiton**

1. Awardee of 2nd CCI Technology **EDUCATION EXCELLENCE AWARDS 2014.**
2. Unveiling of **Aarush X1- UAV** system by **ex-DRDO chief Dr. V.K.Saraswat** and public flight demonstration was held.
3. 3<sup>rd</sup> overall position in AUVSI SUAS 2014 competition held in Maryland, U.S.A. (with first position in Flight Readiness Review and 2<sup>nd</sup> position in Journal paper)
4. 6<sup>th</sup> overall Position in AUVSI SUAS 2013 competition held in Maryland, U.S.A. with second position in Flight Readiness Review.
5. 3<sup>rd</sup> overall position in an AUVSI SUAS 2012 competition held in Maryland, U.S.A.at and also the team.bagged safety award.
6. 7th overall position in AUVSI SUAS 2011 competition held in Maryland, U.S.A.
7. 10th overall position in AUVSI SUAS 2010 competition held in Maryland, U.S.A..
8. The Director's Award in AUVSI SUAS 2009 competition held in Maryland, U.S.A.
9. Awarded the Best Communication Architecture in the competition held in India for **100 crore** the project for proprietary design, development, manufacturing and production of low cost-high impact solutions for swarm drone technology in the year 2021.
10. AUVSI SUAS
11. In 2018, the Team secured 2nd position in the Journal paper.
12. SAE India is a National level competition held annually in Chennai in the presence of DRDO and ISRO officials. In 2017, the Team participated in the competition under the Regular category and secured 1st position overall and 1st in technical presentation.
13. In 2018, the Team participated under the Regular and Micro category and secured 1st position overall in both.
14. Aero India Drone Olympics:The Ministry of Defence organised Drone Olympics in 2019 to encourage the UAV industry to provide an opportunity to the Armed Forces to assess the capabilities of UAVs. The Team participated and secured the first position in the competition for swarm formation flying of UAVs.

  
(Dr.) N. S. Raghava)  
Professor and Head  
of the department  
Dept of ECE, DTU



# Rajeshwari Pandey

## Electronics and Communication Engineering

Phone:--

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### Qualifications

Ph.D

### Areas of Interest

Microelectronics, Analog Circuits and Decides, Analog IC Design

**Educational Qualification** B.Tech, M.E, Ph.D

**Research Areas** Analog Integrated Circuit Design, Microelectronics

#### Highlights

- Inspiring teacher with Effective Communication
- Uphold high morale and ethics of this noble profession

#### Subjects Taught

- Electronic devices and Circuits
- Basic and Advanced courses in Digital Electronics
- Microprocessors
- Analog Filter design
- Analog Integrated Circuits

#### Accomplishment

- Teaching Excellence award from Delhi Technological University for Academic year 2018-19.
- Commendable Research award from Delhi Technological University for year 2018 and 2019.
- Best paper Award for "OTRA based shadow filters" in IEEE India Conference (INDICON), Dec 2015.

- Participated in IUCEE, Project GENTLE (Global Education Network for Teaching and Learning Engineering), in collaboration with In| pods Oct.2014. Received a letter of appreciation and cash prize.
- Served as Chairperson of IEEE WIE, Delhi Section of Region 10 for two consecutive terms from 2007-2009.
- Served as Treasurer of IEEE WIE, Delhi Section of Region 10 for two consecutive terms from 2009-2011.
- Received two letters of appreciation from IEEE USA, for excellent contribution in achieving the mission of WIE during 2007-2008 and 2007-2011.
- Secured INR 3 Lakh funding from AICTE for organizing various seminars/workshops/short term training program/ expert lectures under the aegis of WIE, IEEE in 2009.
- Qualified ISO QMS Internal Auditor from IIQM, Jaipur.

## LIST OF PUBLICATIONS

### Books/ Book Chapters

Co-authored book: Realization of analog controllers using OTRA, LAP Lambert Academic Publisher, West Germany, 2012, ISBN no. 978-3-659-16439-2

Co-authored book chapter: N. Pandey, R. Pandey, R Verma, Higher-order fractional elements: realizations and applications, Fractional-Order Design: Devices, Circuits, Systems, 403, 2021 Elsevier

### International Journal

1. K Suneja, N Pandey, **R Pandey**, Systematic Realization of CFOA Based Rössler Chaotic System and Its Applications, Arabian Journal for Science and Engineering, 1-12., 2022
2. S Yadav, S Rewari, **R Pandey**, Junctionless Accumulation Mode Ferroelectric FET (JAM-FE-FET) for High Frequency Digital and Analog Applications  
Silicon, 1-11, 2022.
3. G Varshney, N Pandey, **R Pandey**, Electronically Tunable Fractional-order Multivibrator using OTA and Its Application as Versatile Modulator, AEU-International Journal of Electronics and Communications, 2021
4. P Gupta, R Pandey Dual Output Voltage Differencing Buffered Amplifier Based Active-C Multiphase Sinusoidal Oscillator International Journal of Engineering 34 (6), 1438-1444 2021
5. L Goswami, N Aggarwal, P Vashishtha, SK Jain, S Nirantar, J Ahmed, MA M Khan, **R Pandey**, G Gupta Fabrication of GaN nano-towers based self-powered UV photodetector Scientific reports 11 (1), 1-10 2021
6. G Varshney, N Pandey, **R Pandey**, Generalization of shadow filters in fractional domain International Journal of Circuit Theory and Applications, 2021
7. G Varshney, N Pandey, **R Pandey** Electronically Tunable Multifunction Transadmittance-Mode Fractional-Order Filter, Arabian Journal for Science and Engineering 46 (2), 1067-1078, 2021
8. S Singh, S Jain, **R Pandey**, N Pandey Adaptive biased current differencing trans-conductance amplifier, AEU-International Journal of Electronics and Communications 128, 153494, 2021
9. L Goswami, N Aggarwal, R Verma, S Bishnoi, S Husale, **R Pandey**, G Gupta, Graphene quantum dot-sensitized ZnO-nanorod/GaN-nanotower heterostructure-based high-performance UV photodetectors, ACS applied materials & interfaces 12 (41), 47038-47047, 2020

10. L Goswami, N Aggarwal, M Singh, R Verma, P Vashishtha, SK Jain, J Tawale, Ri Pandey, G Gupta GaN nanotowers grown on Si (111) and functionalized with Au nanoparticles and ZnO nanorods for highly responsive UV photodetectors, ACS Applied Nano Materials 3 (8), 8104-8116, 2020
11. L Goswami, N Aggarwal, S Krishna, M Singh, P Vashishtha, SP Singh, S Husale, RPandey, G Gupta Au-nanoplasmonics-mediated surface plasmon-enhanced GaN nanostructured UV photodetectors, ACS omega 5 (24), 14535-14542, 2020.
12. S Singh, Jatin, N Pandey, R Pandey, Electronically Tunable Grounded Capacitance Multiplier, IETE Journal of Research, 1-12, 2020
13. L Goswami, R Pandey, G Gupta Ultra-thin GaN nanostructures based self-powered ultraviolet photodetector via non-homogeneous Au-GaN interfaces Optical Materials 102, 109820, 2020.
14. N Pandey, R Pandey, R Anurag, R Vijay, A Class of Differentiator-Based Multifunction Biquad Filters Using OTRAs, Advances in Electrical and Electronic Engineering 18 (1), 31-40, 2020
15. R Verma, N Pandey, R Pandey Novel CFOA based Capacitance multiplier and its application, AEU-International Journal of Electronics and Communications, 2019
16. P Gupta, R Pandey Voltage Differencing Buffered Amplifier based Voltage Mode Four Quadrant Analog Multiplier and its Applications, International Journal of Engineering 32 (4), 528-535, 2019
17. R Verma, N Pandey, R Pandey, CFOA based low pass and high pass fractional step filter realizations, AEU-International Journal of Electronics and Communications 99, 161-176, 2019
18. Komanapalli, R Pandey, N Pandey, Operational Transresistance Amplifier Based Wienbridge Oscillator and Its Harmonic Analysis, Wireless Personal Communications, 1-17, 2019
19. G Komanapalli, R Pandey, N Pandey New sinusoidal oscillator configurations using operational transresistance amplifier, International Journal of Circuit Theory and Applications, 2019
20. R Verma, N Pandey, R Pandey Realization of a higher fractional order element based on novel OTA based IIMC and its application in filter, Analog Integrated Circuits and Signal Processing 97 (1), 177-191, 2018
21. S Oruganti, N Pandey, R Pandey Electronically tunable high gain current-mode instrumentation amplifier, AEU-International Journal of Electronics and Communications 95, 16-23, 2018
22. G Komanapalli, N Pandey, R Pandey, "New realization of third order sinusoidal oscillator using single OTRA", AEU-International Journal of Electronics and Communications 93, 182-190, 2018
23. L Goswami, R Pandey, G Gupta "Epitaxial growth of GaN nanostructure by PA-MBE for UV detection application" Applied Surface Science 449, 186-192, 2018
24. S. Oruganti, Y. Gilhotra, N. Pandey and R. Pandey, "OTRA Based Piece-Wise Linear VTC Generators and Their Application in High-Frequency Sinusoid Generation" Advances in Electrical and Electronic Engineering vol.15, no.5, pp. 806-814, 2018
25. P. Gupta, N. Pandey and R. Pandey, "High CMRR Wide Bandwidth Instrumentation Amplifier Based on VDBA," Recent Advances in Electrical & Electronic Engineering vol.11, no.2, pp. 239-247, 2018.
26. K. Gurumurthy, N. Pandey and R. Pandey, "New Realization Of Third Order Sinusoidal Oscillator Using Single OTRA," AEU-International Journal of Electronics and Communications vol. 93, pp. 182-190, 2018.
27. S. Oruganti, N. Pandey and R. Pandey "Electronically Tunable High Gain Current-Mode Instrumentation Amplifier," AEU-International Journal of Electronics and Communications Vol. 95, pp. 16-23, 2018.
28. L. Goswami, R Pandey and G Gupta "Epitaxial growth of GaN nanostructure by PA-MBE for UV detection application" Applied Surface Science vol.449, pp.186-192, 2018.
29. G. Aggarwal, H. Garg, N. Bansal, P. Gangwar, R. Pandey, "Single OTRA based Low Voltage Square Root Circuit," International Journal of Advance Research and Innovation vol. 5 no. 4 (2017) pp.431-432, 2017.

30. Rakesh Verma, Neeta Pandey, Rajeshwari Pandey, Electronically Tunable Fractional Order Filter, Arab J Sci Eng (2017) 42: 3409. <https://doi.org/10.1007/s13369-017-2500-8>
31. N. Pandey, D. Nand, R. Pandey, Generalised operational floating current conveyor based instrumentation amplifier, IET Circuits, Devices & Systems 10 (3), 209-219, 2016
32. Rajeshwari Pandey, Neeta Pandey, and Navin Singhal Single VDTA Based Dual Mode Single Input Multi output Biquad Filter, Hindawi Publishing Corporation Journal of Engineering Volume 2016, Article ID 1674343, 10 pages <http://dx.doi.org/10.1155/2016/1674343>
33. Suman Kumari, Stuti Gupta, Neeta Pandey, Rajeshwari Pandey, Rashika Anurag LC-ladder filter systematic implementation by OTRA, International Journal Engineering Science and Technology, Vol. 19, Issue 4, 2016
34. R. Anurag, N. Pandey, R. Chandra and R. Pandey (2016). Voltage Mode Second Order Notch/All - Pass Filter Realization Using OTRA. OTRA. i-manager's Journal on Electronics Engineering, 6(2), Dec-Feb 2016
35. Priyanka Gupta, Kunal Gupta, N. Pandey, R. Pandey, CDBA based current instrumentation amplifier, Journal of Communications Technology, Electronics and Computer Science, pp. 11-15, 2016
36. R. Mullick, N. Pandey, R. Pandey Multi Input Single Output Biquadratic Universal Filter using OTRA i-manager's Journal on Circuits and Systems, vol. 3, no. 3, pp.30-37 2015
37. Rashika Anurag, N. Pandey, R. Pandey Ritu Vijay, OTRA based precision rectifier i-manager's Journal on Electronics Engineering, vol. 6, no. 1, pp. 22-28, 2015
38. Rohan Chandra, Ravi Teja, N. Pandey, R. Pandey, OTRA based R-2R ladder and weighted resistor DAC realizations, Int. J. Electrical and Electronic Engineerings, vol.7, 2, 2015
39. Neeta Pandey, Rajeshwari Pandey, Approach for third order quadrature oscillator realisation, IET Circuits, Devices & Systems 9 (3), 161-171, 2015.
40. Rishi Pal, Rajeshwari Pandey, Neeta Pandey, Ramesh Chandra Tiwari, Single CDBA Based Voltage Mode Bistable Multivibrator and Its Applications, Circuits and Systems 6 (11), 237-251, 2015
41. Rajeshwari Pandey, Neeta Pandey, Surabh Chittranshi, Sajal K Paul, Operational Transresistance Amplifier Based PID Controller, Advances in Electrical and Electronic Engineering 13 (2), 171-181, 2015.
42. Rajeshwari Pandey, Neeta Pandey, Romita Mullick, Sarjana Yadav and Rashika Anurag "All Pass Network based MSO using OTRA, Advances in Electronics Volume 2015 (2015), Article ID 382360, 7 pages
43. Honey Gahlawat, Hemant Kumar, Jatin Kamnani, Gaurav Dagar and Rajeshwari Pandey (2015). Voltage Mode Universal First Order Filter Employing Single OTRA. i-manager's Journal on Electronics Engineering, 5(4), Jun-Aug 2015, Print ISSN: 2229-7286, E-ISSN: 2249-0760, pp.24-30.
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45. Rajeshwari Pandey, Neeta Pandey, Gurumurthy Komanapalli, and Rashika Anurag, OTRA Based Voltage Mode Third Order Quadrature Oscillator, ISRN Electronics, Volume 2014 (2014), Article ID 126471, 5 pages
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47. Ayush Tayal, Neeta Pandey, Rajeshwari Pandey, Residue adder based high speed 8-bit Vedic multiplier, International Journal of Electrical and Electronics Engineers ISSN- 2321-2055 (E) <http://www.arresearchpublication.com> IJEEE, Vol. No.6, 2014, pp. 158 - 162.
48. Neeta Pandey, Kirti Gupta, Rajeshwari Pandey, Rishi Pandey, Tanvi Mittal, Novel oscillators in subthreshold regime, International Journal of Electrical and Electronics Engineers, Vol. 6, 2014, pp. 151 - 156

49. NavinSinghal,RajeshwariPandey, Neeta Pandey, Dual mode biquadratic filter using single VDTA, International Journal of Electrical and Electronics Engineers,Vol..6, 2014, pp. 134 – 139
50. Neeta Pandey, SakshiArora, RinkuTakkar, and RajeshwariPandey, DVCCCTA-Based Implementation of Mutually Coupled Circuit, ISRN Electronics, Vol. 2012 (2012), Article ID 303191, 6 pages
51. Neeta Pandey , RajeshwariPandey, Current Mode Full-Wave Rectifier Based on a Single MZC-CDTA Active and Passive Electronic Components Volume 2013 (2013), Article ID 967057, 5. pages
52. Neeta Pandey, AseemSayal, MananTripathi and RajeshwariPandey, Realization of S-G Shapers for Detector Readout Front Ends, Elixir Signal Processing 66 , pp. 20690-20699, 2014.
53. Rajeshwari Pandey, Neeta Pandey, and Sajal K. Paul Electronically Tunable Transimpedance Instrumentation Amplifier based on OTRA, Journal of Engineering (Hindawi) Volume 2013, Article ID 648540, 5 pages, doi.org/10.1155/2013/648540.
54. Mayank Bothra, Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, Operational Trans-Resistance Amplifier Based Tunable Wave Active Filter, Radioengineering, 22, pp. 159 -166, 2013
55. Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, Voltage Mode Pulse Width Modulator Using Single Operational Transresistance Amplifier, Journal of Engineering, Volume 2013, Article ID 309124, 6 pages, doi.org/10.1155/2013/309124.
56. Rajeshwari Pandey, Neeta Pandey, TusharNegi, and VivekGarg, CDBA Based Universal Inverse Filter, ISRN Electronics, Volume 2013 (2013), Article ID 181869, 6 pages
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59. Rajeshwari Pandey, Neeta Pandey, B. Sriram, and Sajal K. Paul, Single OTRA Based Analog Multiplier and Its Applications, ISRN Electronics, Vol. 2012 (2012), Article ID 890615, 7 pages
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62. Rajeshwari Pandey, Neeta Pandey, Sajal K. Paul, Ajay Singh, B. Sriram, Kaushalendra Trivedi, Voltage Mode OTRA MOS-C Single Input Multi Output Biquadratic Universal Filter, Advances in Electrical and Electronic Engineering, vol.10, pp. 337-344, 2012.
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#### **International Conference:**

1. R. Verma, N. Pandey, R. Pandey "Electronically Tunable Fractional Order All Pass Filter," IOP Conference Series: Materials Science and Engineering 225 (1), 012229, 2017. doi:10.1088/1757-899X/225/1/012229.
2. P. Gupta, R. Pandey, N Pandey, "Voltage Mode Single CDBA Based Multifunction Filter" IOP Conference Series: Materials Science and Engineering 225 (1), 012243, 2017. doi:10.1088/1757-899X/225/1/012243.

3. G. Komanapalli, N. Pandey, R. Pandey, "Single OTRA Based Low Frequency Sinusoidal Oscillator Realization, IOP Conference Series: Materials Science and Engineering 225 (1), 012151 doi:10.1088/1757-899X/225/1/012151.
4. G. Komanapalli, N. Pandey, R. Pandey OTRA based second and third order sinusoidal oscillators and their phase noise performance AIP Conference Proceedings 1859 (1), 020017 <https://doi.org/10.1063/1.4990170>.
5. S. Oruganti, Y. Gilhotra, N. Pandey, R. Pandey "New topologies for OTRA based programmable precision half-wave and full-wave rectifiers," proc. IEEE conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE), 2017. doi. [10.1109/RDCAPE.2017.8358291](https://doi.org/10.1109/RDCAPE.2017.8358291)
6. Priyanka Gupta, Rajeshwari Pandey "Single VDBA based Multifunction Filter," International Conference on Sustainable Computing Techniques in Engineering, Science and Management 27-28 January 2017 Jain College of Engineering Belgaum, India
7. Priyanka Gupta, Rajeshwari Pandey, Neeta Pandey, "Voltage Mode Single CDBA Based Multifunction Filter," International Conference on Advanced Material Technologies (ICAMT)-2016 Indo American Institutions - Technical Campus (IAITC), Visakhapatnam, Andhra Pradesh, India. 27-28 December 2016
8. Gurumurthy Komanapalli, Neeta Pandey, Rajeshwari Pandey, "Single OTRA Based Low Frequency Sinusoidal Oscillator Realization", International Conference on Advanced Material Technologies (ICAMT)-2016 Indo American Institutions - Technical Campus (IAITC), Visakhapatnam, Andhra Pradesh, India. 27-28 December 2016
9. Rakesh Verma, Neeta Pandey, Rajeshwari Pandey, "Electronically Tunable Fractional Order AllPass Filter", International Conference on Advanced Material Technologies (ICAMT)-2016 Indo American Institutions - Technical Campus (IAITC), Visakhapatnam, Andhra Pradesh, India. 27-28 December 2016
10. A. Goel, R. Pandey, N. Pandey, S. Yadav, Operation Trans-resistance Amplifier based low-voltage reference 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) July 2016
11. C. Malhotra, V. K. Ahalawat, V. V. Kumar, R. Pandey, N. Pandey, Voltage differencing buffered amplifier based quadrature oscillator 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) July 2016
12. V. Venkatesh Kumar, Chetna Malhotra, Varun Ahalawat, Neeta Pandey, Rajeshwari Pandey, Voltage and current mode OFCC based Semi Gaussian shapers 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) July 2016
13. Prateek Tripathi ; Prateek Pahalwan ; Prashant Gola ; Neeta Pandey ; Rajeshwari Pandey Design of digitally controlled OTRA based filter for hearing aid application. 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) July 2016
14. A. Jain, N. Pandey, R. Pandey, Realization of frequency-hopping filters using CDTA and VDTA, 3rd International Conference on signal processing and integrated networks, 2016
15. Nitish, Neeta Pandey, Kirti Gupta, Rajeshwari Pandey, "DFAL based Implementation of Frequency Divider-by-3, 2015 Annual IEEE India Conference (INDICON), Dec 2015.
16. Rashika Anurag, Rajeshwari Pandey, Neeta Pandey, Mandeep Singh, Manish Jain, OTRA based shadow filters, 2015 Annual IEEE India Conference (INDICON), Dec 2015
17. S.M. Antony, S.S. Prashanthi, S. Indu, R. Pandey, "Design of High Speed Vedic Multiplier Using Multiplexer Based Adder," 19-21, Nov. 2015 IEEE International Conference on Control, Communication and Computing (ICCC 2015).
18. R. Pal, R.C. Tiwari, N. Pandey, R. Pandey, "Pulse Width Modulator using CDBA based relaxation oscillator" IEEE International Conference ICIIS-2014. DOI 10.1109/ICIINFS.2014.7036564
19. Rajiv Ranjan, Rajeshwari Pandey, Neeta Pandey and Gavendra Singh "Linear Phase Detector Using OTRA" IEEE International Conference SPIN-2015.
20. Rajeshwari Pandey, Neeta Pandey, Gurumurthy Komanapalli, Alok Kumar Singh and Rashika Anurag New realizations of OTRA based sinusoidal oscillator IEEE International Conference SPIN-2015.

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29. Rajeshwari Pandey, Neeta Pandey, Ajay Singh, B. Sriram, Kaushalendra Trivedi, Grounded Immittance Simulator Using Single OTRA with a Signal Processing Application, ICECT 2011, April 2011.pp. 404-406.
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31. Rajeshwari Pandey, Neeta Pandey, Rajendra Kumar, Garima Solanki, A Novel OTRA Based Oscillator with Non Interactive Control, Proc. of International conference on Communication and Computer Technology, (ICCCT-10), September 17-19, 2010, MNNIT, Allahabad. pp. 658 – 660.
32. Rajeshwari Pandey, Mayank Bothra, Multiphase sinusoidal oscillators using operational trans-resistance amplifier, IEEE Symposium-on-Industrial-Electronics & Applications, 2009. ISIEA 2009. pp. 371-376.

#### **Member of professional societies**

1. IEEE, Women in Engineering (WIE), an affinity group of IEEE for 15 years
2. Life Member IETE, ISTE.

#### **Seminar/Workshops /Short term course/Conferences organized**

##### **Coordinator**

- Expert lecture on "Introduction to Computer Networking" speaker Mr. A.R.Chandrashekhar, Regional Head North-West zone, TVS Interconnect on 24th Oct 2008
- Workshop on Analog Circuit Design Using PSPICE 10th Dec 2008
- Easy Way To Healthy Life By Mrs. Chellamal Natarajan 26th Feb 2009
- Two weeks' program on "Analog Integrated Circuit Design using EDA tools" during Jan 24-Feb 04, 2011.
- Two days' workshop on "Programmable System on Chip" from 29.03.12 to 30.03. 12




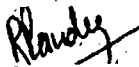
- One-week Faculty Development Program on "Advanced Signal Processing and Embedded Systems" Sponsored by AICTE and IEEE WIE Delhi Section at Delhi Technological University held during April 9 - 13, 2012.
- TEQIP II sponsored lecture series on VLSI Design Jan.18-31,2016
- Workshop on Cadence tool bundle Feb.1-2,2016
- GIAN Program on "Circuits, Microsystems and Packaging Techniques Intended for Automated Brain Machine Interface" held December 20 -24, 2016.
- One-day workshop on "Teaching Pedagogy" 7April 2018
- 'Two days' workshop on Cadence Virtuoso 4-5 June 2018

#### **Member Organising Committee**

- 5th IEEE India International Conference on Conference on Power Electronics (IICPE), Dec 6-8, 2012. (Co event management chair)
- Workshop on "Outcome based Accreditation Process and parameters" Sept.21-22,2012
- IEEE symposium on "International Symposium on Standards Engineering and Technology 2012" during Oct. 4-6, 2012 at Delhi Technological University. (Program CO Chair)
- One week UGC sponsored short term training program on "Signal Processing in Modern Electrical Systems" from Dec. 9 to 13, 2013 at DTU.
- IEEE Delhi Student Congress held during Jan.10-11, 2015.
- FDP on "Recent Trends in Pattern Analysis and Machine Learning" July 11-15,2016
- One Day Workshop on "Raising Awareness on Plagiarism and Copyrights" March 20, 2018 at DTU.

#### **Institutional Governance responsibilities**

- Associate Dean Acad (UG)
- OIC VLSI CAD laboratory
- Member Admission Committee
- Member Board of Studies ECE
- Member Departmental Research Committee, CSE and IT Departments
- Member Departmental Purchase Committee
- Member Departmental Complaint Committee
- ISO Internal Auditor
- Member Scrutiny committee for the post of Associate Professors and Assistant Professors
- Member Ordinance and Regulation Drafting Committee
- Member Counselling Committee
- Member Anti Ragging Committee
- Member Convocation Committee
- Member Committee for Orientation to newly admitted students

आयकर विभाग		भारत सरकार
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Neeta Pandey

**Electronics and Communication Engineering**

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## Qualifications

M. E. (Microelectronics) Ph. D.

## Areas of Interest

Analog and Digital VLSI Design, Current mode ADC Design

## Summary

Motivated **Teaching Professional** with approximately 31 years teaching and research experience in Electronics and Communication Engineering. Accomplished lecturer who effectively articulates information and responds honestly to questions from students.

## Highlights

- Inspiring teacher with Effective Communication
- Uphold high morale and ethics of this noble profession

## Subjects Taught

- VLSI Design
- Deep Submicron VLSI Design
- Basic and Advanced courses in Digital Electronics
- Computer Architecture
- Analog Filter design
- Analog Integrated Circuits

## Honours, awards and recognitions acquired by faculty

- Member Editorial Board - AEU Int. J. Electronics and Communication, Advances in Electrical and Electronics Engineering
- Excellence in research Award from Delhi Technological University Delhi for research papers published in year 2018, 2019 and 2020
- Outstanding Branch Counsellor award from IEEE USA 2008 and cash prize of US \$500.
- Outstanding Branch Counsellor award from IEEE Delhi Section 2008.
- Inclusion in Marquis Who's who 2010
- National Scholarship for class 10

- Designated reviewer for International Journals published by Wiley, IEEE, IET, Taylor and Francis, Springer and Elsevier.
- Technical Program Chair for IEEE conference on Signal Processing, VLSI and Communication Engineering, 2019
- Designated reviewer for International Conferences
- Member of Technical Program Committee of International Conferences
- Member of professional societies such as IEEE, Women in Engineering (WIE), an affinity group of IEEE, ISTE.
- Technical Program Chair for IEEE conference on Signal Processing, VLSI and Communication Engineering

### **Accomplishment**

- Contributing author to 148 review publications in various international journals and 115 international conferences.
- Co-authored books
  - Model and Design of Improved Current Mode Logic Gates, Springer 2020
  - IC Analog Filter, LAP Lambert Academic Publishing, 2011, ISBN 978-3-8433-6007-4
  - Wave Filter: A Wave Active Equivalence Design Approach LAP Lambert Academic Publishing, 2011, ISBN 978-3844381696, 2011
  - Realization of analog controllers using OTRA, LAP Lambert Academic Publisher, West Germany, 2012, ISBN no. 978-3-659-16439-2
  - Dynamic Current Mode Logic: Concepts to Advancements, LAP LAMBERT Academic Publishing, 2021, ISBN-13: 978-620-4-20810-7
- Co-authored book chapter
  - N. Pandey, R. Pandey, R Verma, Higher-order fractional elements: realizations and applications, Fractional-Order Design: Devices, Circuits, Systems, 403, 2021 Elsevier
- **Awards/ Recognition**
  - Outstanding Branch counsellor award from IEEE USA 2008 and cash prize of US \$500.
  - Outstanding Branch Counsellor award from IEEE Delhi Section 2008
  - Inclusion in Marquis Who's who 2010
  - Participated in IUCEE, Project GENTLE (Global Education Network for Teaching and Learning Engineering), in collaboration with Inpods Oct.2014. Received a letter of appreciation and cash prize.
  - Best paper Award for "OTRA based shadow filters" in IEEE India Conference (INDICON), Dec 2015.
  - Commendable Research Excellence Award in 2018,2019 and 2020.
  - Listed in 2% scientist by Stanford.

### **Memberships**

- Member of professional societies such as IEEE (Senior Member), Women in Engineering (WIE), an affinity group of IEEE, ISTE.

## **Publications:**

### **Journal Paper**

#### **In press**

1. D Singh, K. Gupta, N. Pandey, A Novel Low-Power Nonvolatile 8T1M SRAM Cell, Arabian Journal for Science and Engineering, 1-17, online 1/9/2021 (SCI – 2.334)
2. K Suneja, N. Pandey, R. Pandey, Systematic Realization of CFOA Based Rössler Chaotic System and Its Applications. Arabian Journal for Science and Engineering, 1-17, online 17/1/2022 (SCI – 2.334)
- 3.

#### **Published**

1. S. Singh, S. Jain, R. Pandey, N. Pandey Adaptive biased current differencing trans-conductance amplifier, AEU - International Journal of Electronics and Communications, 128, 153494, Jan 2021. (SCI – 3.183)
2. M. Gupta, K. Gupta, N. Pandey A data-independent 9T SRAM cell with enhanced ION/IOFF ratio and RBL voltage swing in near threshold and sub-threshold region, International Journal of Circuit Theory and Applications, 49, 4, Apr 2021, 953-969. (SCI – 2.038)
3. M. Gupta, K. Gupta, N. Pandey, Comparative Analysis of the Design Techniques for Low Leakage SRAMs at 32nm, Microprocessors and Microsystems, 85, 2021. (SCI – 1.525)
4. M. Gupta, K. Gupta, N. Pandey, A novel PVT-variation-tolerant Schmitt-trigger-based 12T SRAM cell with improved write ability and high ION/IOFF ratio in sub-threshold region, International Journal of Circuit Theory and Applications, 49, 11, November 2021 Pages 3789-3810 (SCI – 2.038)
5. S Gupta, N. Pandey, RS Gupta, Analytical modeling of dual-metal gate stack engineered junctionless accumulation-mode cylindrical surrounding gate (DMGSE-JAM-CSG) MOSFET, Appl. Phys. A, 127, 2021, 520. (SCI – 2.584)
6. S. Gupta, N. Pandey, RS Gupta, Temperature dependency and linearity assessment of dual-metal gate stack junctionless accumulation-mode cylindrical surrounding gate (DMGS-JAM-CSG) MOSFET, Physica Scripta 96 (12), 124055 (SCI – 2.487)
7. N. Kumar, M. Kumar, N. Pandey, Unified floating immittance emulator based on CCTA, Microelectronics Journal 118, 105289, 2021 (SCI – 1.605)
8. R. Arundepakvel, Jatin, P. Khatter, N. Pandey, Shahram Minaei, A novel design for voltage inverting metamutator and its applications, Microelectronics Journal, 113, 2021. (SCI – 1.605)
9. N. Yadav, N. Pandey, D. Nand, Leakage reduction in dual mode logic through gated leakage transistors, Microprocessors and Microsystems, 84, 2021. (SCI – 1.525)
10. A. S. Kumar, S. Jain, N. Pandey, Clock Aligned Input Adiabatic Logic, Microelectronics Journal, 114, 105122, 2021. (SCI – 1.605)
11. R. Sivaram, K. Gupta & N. Pandey, Impact of multi threshold transistor in positive feedback source coupled logic (PFSCCL) fundamental cell, Analog Integrated Circuits and Signal Processing, 109, 173-185, 2021. (SCI – 1.337)
12. G. Varshney, N. Pandey, R. Pandey, Electronically Tunable Multifunction Transadmittance-Mode Fractional-Order Filter, Arabian Journal for Science and Engineering, 46, 1067–1078, 2021. (SCI – 2.334)
13. G. Varshney, N. Pandey, R. Pandey, Electronically tunable fractional-order multivibrator using OTA and its application as versatile modulator, AEU-International Journal of Electronics and Communications 141, 153956, 2021 (SCI – 3.183)
14. G. Varshney, N. Pandey, R. Pandey, Generalization of shadow filters in fractional domain, International Journal of Circuit Theory and Applications, 49, 10, October 2021, Pages 3248-3265 (SCI – 2.038)
15. P. Kumar, N. Pandey, SK Paul, Electronically Tunable VDTA-Based Multi-function Inverse Filter, Iranian Journal of Science and Technology, Mar 2021. (SCI – 1.194)

16. O. K. Gupta, N. Pandey M. Gupta, Improved reversed nested miller frequency compensation techniques using flipped and folded flipped voltage follower with resistor for three stage amplifier AEU - International Journal of Electronics and Communications, 142, 154004, 2021. (SCI – 3.183)
17. C. Parashar, A. Kumar Trivedi, A. Agarwal, N. Pandey, Footer Voltage Controlled Dual Keeper Domino Logic with Static Switching Approach, Advances in Electrical and Electronic Engineering, 18, 4, 255-263, 2020. **Scopus**
18. R. Jain, K. Gupta, N. Pandey, Hybrid Dynamic CML with Modified Current Source (H-MDyCML): A Low-Power Dynamic MCML Style, Advances in Electrical and Electronic Engineering, 19, 1, 57-65, 2021. **Scopus**
19. R. Jain, K. Pahwa, N. Pandey, Booth-Encoded Karatsuba: A Novel Hardware-Efficient Multiplier, Advances in Electrical and Electronic Engineering 19 (3), 272-281, 2021. **Scopus**
20. M. Bhardwaj, S. Pandey, N. Pandey, A Novel Design of High-Performance Low Power Phase-Frequency Detector for CMOS PLL Frequency Synthesizer, International Journal of Sensors Wireless Communications and Control, 10, 6, 2020, 838-845. **Scopus**
21. S. Singh, Jatin, N. Pandey, R. Pandey, Electronically Tunable Grounded Capacitance Multiplier, IETE Journal of Research, 1-12, 2020 (SCI - 2.333)
22. N. Pandey, R. Pandey, R. Anurag, R. Vijay, A Class of Differentiator-Based Multifunction Biquad Filters Using OTRAs, Advances in Electrical and Electronic Engineering 18 (1), 31-40, 2020 **Scopus**
23. P. Sharma, S. Gupta, K. Gupta, N. Pandey, A low power subthreshold Schmitt Trigger based 12T SRAM bit cell with process-variation-tolerant write-ability, Microelectronics J., 97, 104703, 2020 (SCI – 1.605)
24. G. Komanapalli, R. Pandey, N. Pandey New Electronically tunable low-frequency quadrature oscillator using operational transresistance amplifier, IETE Journal of Research, 1-9, 2020 (SCI - 2.333)
25. S. Jain, N. Pandey, Single Clock Diode Based Adiabatic Logic Family at Sub-90nm Regime, Advances in Electronics Engineering, 245-259, 2020
26. R. Jain, N. Pandey, Realization of Various Topologies of Adders Based on H-DyCML, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9, 1885-1191 2020
27. V. Bhanoo, A. Gangal, N. Pandey, Subthreshold Low-Transconductance M-CDTA based Low Frequency Current Mode Universal Filter, International Journal of Engineering Trends and Technology, 68(5), 16-22, 2020
28. R. Singh, N. Pandey, A Low Power and Area Efficient Design of Dadda Multiplier by exploring 4:2 Compressors and Brent Kung Adder, International Journal of Advanced Science and Technology, 29, 10044-10054, 2020.
29. P. Kumar, N. Pandey, S. K. Paul, Realization of Resistorless and Electronically Tunable Inverse Filters Using VDTA, Journal of Circuits, Systems and Computers 28 (09), 1950143, 2019
30. G. Komanapalli, R. Pandey, N. Pandey, Operational Transresistance Amplifier Based Wienbridge Oscillator and Its Harmonic Analysis, Wireless Personal Communications 108 (1), 1-17, 2019
32. E. Yuce, R. Verma, N. Pandey, S. Minaei, New CFOA-based first-order all-pass filters and their applications. AEU - International Journal of Electronics and Communications, 103, 57-63, 2019. (SCI – 3.183)
33. S. Gupta, K. Gupta, B. H. Calhoun, N. Pandey, Low-Power Near-Threshold 10T SRAM Bit Cells With Enhanced Data-Independent Read Port Leakage for Array Augmentation in 32-nm CMOS. IEEE Transactions on Circuits and Systems I: Regular Papers, 66(3), 978–988, 2019. (SCI-3.605)
34. M. Gupta, K. Gupta, N. Pandey. A design of low leakage cache memory cell for high performance processors. Journal of Information and Optimization Sciences 40 (2), 279-290, 2019
35. R. Verma, N. Pandey, R. Pandey. CFOA based low pass and high pass fractional step filter realizations. AEU-International Journal of Electronics and Communications 99, 161-176, 2019 (SCI – 3.183)
36. P. Bajpai, N. Pandey, K. Gupta, J. Panda, LECTOR incorporated differential cascode voltage swing logic (L-DCVSL), Analog Integrated Circuit and Signal Processing 100 (1), 221-234, 2019 (SCI – 1.337)
37. M. Tiwari, N. Pandey, SK Paul, M. Rizvi. Programmable CCCII: Reliability Analysis and Design Methodology. IET Circuits, Devices & Systems, 13, 4, 487-493, July 2019. (SCI – 1.297)
38. G. Komanapalli, R. Pandey, N. Pandey. New sinusoidal oscillator configurations using operational transresistance amplifier. International Journal of Circuit Theory and Applications, 47, 5 Pages 666-685 May 2019 (SCI – 2.038)

39. A Mann, N Malhotra, N. Pandey Adaption of Power Gating in Positive Feedback Adiabatic Logic Circuits, *International Journal of Advance Research and Innovation*, 7 (3), 281-284, 2019
40. A Jain, N. Pandey, P. Jain, FPGA-Based Architecture for Implementation of Discrete Sine Transform, *Advances in System Optimization and Control*, 13-22, 2019
41. P. Pahalwan, P. Tripathi, P. Gola, N. Pandey, D Nand, Programmable Gain Amplifier Using Operational Floating Current Conveyors, *AEU-International Journal of Electronics and Communications*, 90, 163-170, 2018. (SCI – 3.183)
42. S. Gupta, K. Gupta, N. Pandey, Pentavariate Vmin Analysis of a Subthreshold 10T SRAM Bit Cell With Variation Tolerant Write and Divided Bit-Line Read *IEEE Transactions on Circuits and Systems I*: 65, 10, 3326 – 3337, 2018. (SCI-3.605)
43. V. Bhatnagar, P. Kumar, N. Pandey, S Pandey, A dual V<sub>t</sub> disturb-free subthreshold SRAM with write-assist and read isolation, *Journal of Semiconductors* 39 (2), 025002, 2018. **Scopus**
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45. S. Oruganti, N. Pandey, R. Pandey, Electronically tunable high gain current-mode instrumentation amplifier, *AEU-International Journal of Electronics and Communications* 95, 16-23, 2018 (SCI – 3.183)
46. R Verma, N. Pandey, R. Pandey, Realization of a higher fractional order element based on novel OTA based IIMC and its application in filter, *Analog Integrated Circuits and Signal Processing*, 97 (1), 177-191, 2018. (SCI – 1.337)
47. G. Komanapalli, N. Pandey, R. Pandey, New realization of third order sinusoidal oscillator using single OTRA, *AEU-International Journal of Electronics and Communications* 93, 182-190, 2018 (SCI – 3.183)
48. S. Oruganti, Y Gilhotra, N. Pandey, R. Pandey, OTRA Based Piece-Wise Linear VTC Generators and Their Application in High-Frequency Sinusoid Generation, *Advances in Electrical and Electronic Engineering* 15 (5), 806-814, 2018 **Scopus**
49. D Nand, N. Pandey, New Configuration for OFCC-Based CM SIMO Filter and its Application as Shadow Filter, *Arabian Journal for Science and Engineering*, 1-12, 2018 (SCI-2.334)
50. N. Pandey, B. Choudhary, K. Gupta, A Mittal, New Sleep-Based PFSCCL Tri-State Inverter/Buffer Topologies, *Journal of Circuits, Systems and Computers*, 1750186, 2017
51. R. Verma, N. Pandey, R. Pandey, Electronically Tunable Fractional-Order Filter, *Arabian Journal for Science and Engineering*, 1-14, 2017 (SCI-2.334)
52. N. Pandey, V. Kumar, A. Goel, A. Gupta, Electronically tunable LC high pass ladder filter using OTRA, 10.21917/ijme.2017.0079, 2017
53. S. Gupta, K. Gupta, N. Pandey, A 32-nm Subthreshold 7T SRAM Bit Cell With Read Assist, *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, 25 12, 3473-3483, 2017 (SCI-2.312)
54. L. Safari, N. Pandey, N. Herencsar, F Khateb, Special Issue on Current-Mode Circuits and Systems; Recent Advances, Design and Applications, *AEU-International Journal of Electronics and Communications*, 2017 (SCI – 3.183)
55. K. Gupta, N. Pandey, M. Gupta, Dynamic positive feedback source-coupled logic (D-PFSCCL) *International Journal of Electronics* 103 (10), 1626-1638, 2016 (SCI – 1.336)
56. N. Pandey, K. Gupta, B. Choudhary, New Proposal for MCML Based Three-Input Logic Implementation, *VLSI Design* 2016 Article ID 8712768
57. P. Bajpai, N. Pandey, K. Gupta, S Bagga, J Panda, On Improving the Performance of Dynamic DCVSL Circuits, *Journal of Electrical and Computer Engineering* 2017 Article ID 8207104
58. V. Bhatia, N. Pandey, Modified Tang and Pun's Current Comparator and Its Application to Full Flash and Two-Step Flash Current Mode ADCs, *Journal of Electrical and Computer Engineering* 2017 Article ID 8245181

59. G. Komanapalli, N. Pandey, R. Pandey New Realization of Quadrature Oscillator using OTRA International Journal of Electrical and Computer Engineering (IJECE) vol. 7, No. 1815-1823 Aug 2017
60. R. Verma, N. Pandey, R. Pandey, Electronically Tunable Fractional Order All Pass Filter, IOP Conference Series: Materials Science and Engineering 225 (1), 012229, 2017
61. P. Gupta, R. Pandey, N. Pandey, Voltage Mode Single CDBA Based Multifunction Filter IOP Conference Series: Materials Science and Engineering 225 (1), 012243, 2017
62. G. Komanapalli, N. Pandey, R. Pandey, Single OTRA Based Low Frequency Sinusoidal Oscillator Realization, IOP Conference Series: Materials Science and Engineering 225 (1), 012151, 2017
63. D. Nand, N. Pandey, Transadmittance Mode First Order LP/HP/AP Filter and its Application as an Oscillator, IOP Conference Series: Materials Science and Engineering 225 (1), 012150, 2017
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65. N. Pandey, G Varshney, R. Pandey, Differential Voltage Current Conveyor Realization based on CMOS Inverters, i-Manager's Journal on Electronics Engineering 7 (2), 14, 2016
66. N. Pandey, R. Pandey, N. Sabharwal, Realization of Diode-Free OTRA based Time Marker Generator, i-Manager's Journal on Electronics Engineering 7 (1), 16, 2016
67. K. Gupta, P Gupta, R. Pandey, N. Pandey CDBA -Current Based Instrumentation Amplifier, Journal of Communications Technology, Electronic s and Computer Science, 4, 2016
68. Nitish, N. Pandey, K. Gupta, M K Saini, DFAL based flexible multi-modulo prescaler, ICTACT Journal on Microelectronics, 273-280, 2016
69. N. Saxena, S Dutta, N. Pandey, An Efficient Hybrid PFSCCL based Implementation of Asynchronous Pipeline, i-Manager's Journal on Circuits & Systems 4 (3), 6 - 14, 2016
70. N. Pandey, K. Gupta, G Bhatia, B. Choudhary, MOS Current Mode Logic Exclusive-OR Gate using Multi-Threshold Triple-Tail Cells, Microelectronics Journal. 57, 13-20, 2016 (SCI – 1.605)
71. N. Pandey, K. Gupta, B. Choudhary, New proposal for MCML based three input logic implementation, VLSI Design, 2016, Article ID 8712768, 10 pages
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73. D. Nand, N. Pandey, A new proposal for OFCC based Instrumentation Amplifier, International Journal of Electrical and Computer Engineering, 7, 1, 31 – 39, 2016. (SCIE-4.360)
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75. P. Kumar, N. Pandey, S K Paul, Operational Simulation of LC Ladder Filter Using VDTA, Active and Passive Electronic Components, 2017, Article ID 1836727, 8 pages Scopus
76. V. Bhatia, N. Pandey, Modified Tang's Current Comparator and Its Application to Full Flash and Two-Step Flash Current Mode ADCs, Journal of Electrical and Computer Engineering, 2017, Article ID 8245181, 12 pages
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81. K. Gupta, N. Pandey, M. Gupta, Dynamic Positive-Feedback Source-Coupled Logic (D-PFSCCL), *International Journal of Electronics*, 103, 10, 1626-1638, 2016 (SCI – 1.336)
82. N. Pandey, R. Pandey, Approach for third order quadrature oscillator realisation, *IET Circuits, Devices & Systems* 9 (3), 161-171, 2015. (SCI – 1.297)
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93. A. Tayal, N. Pandey, R. Pandey, Residue adder based high speed 8-bit Vedic multiplier, *International Journal of Electrical and Electronics Engineers* No.6, 158 – 162, 2014. **Scopus**
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100. N. Pandey, S. K. Paul, Mixed mode universal filter, *J Circuit Syst. Comp.*, 22, 1, 1250064, 2013.
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#### National Conference:

1. N. Pandey, S. K. Paul, A. Bhattacharyya, Single CCII- and CCCII-based all pass filters- New generic configurations, International Conference on Electronic and Photonic Materials, Devices and Systems – 2006
2. N. Pandey and S. K. Paul, All pass filter based on CCCII with negative intrinsic resistance, Horizon of Telecommunications held in Calcutta from Feb. 3 – 5, 2003.
3. N. Pandey and S. K. Paul, All pass filter based on CCII and CCCII, National Conference on Microchip Design and Technology held in Maharaja Surajmal Institute of Technology, Delhi from Mar. 6-8, 2003.
4. I. J. Kumar and N. Pandey, Fuzzy logic approach to cryptosystem synthesis, National Conference on Information Security held in Bharati Vidyapeeth's College of Engineering from Jan. 8-9, 2003.
5. V. Bhatia, N. Pandey and H. M. Rai, Improving Signal Processing with ADCs based on current mode algorithm, in National Seminar on Cutting edge technologies in electronic communication held in Sant Longowal Institute of Technology Mar. 14, 2004.
6. N. Pandey and V. Bhatia, Improving Signal Processing with ADCs : A current mode approach, in National Conference on VLSI Design and Technology held in Bharati Vidyapeeth's College of Engineering from Apr. 15-16, 2004.
7. N. Pandey, S. K. Paul, A. Bhattacharyya, A Novel Electronically Tunable Filter for Multi Standard Wireless Receiver, Proceedings of IETE Mid Term Symposium 2005, 179-184

**आयकर विभाग**  
**INCOME TAX DEPARTMENT**



**भारत सरकार**  
**GOVT. OF INDIA**

**NEETA PANDEY**

**TRIBHUWAN CHANDRA JOSHI**

**18/09/1966**

**Permanent Account Number**

**ARMPP7575Q**

*Neeta Pandey*

**Signature**



08062007

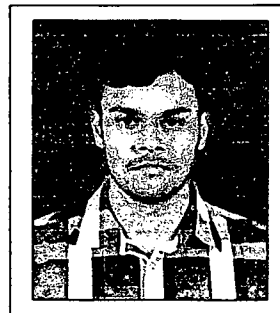
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**ONE PAGE PROFILE**

1. Name: Mr. Akshay Mann
2. Designation: Assistant Professor
3. Department: Electronics & Communication & Engineering, Delhi Technological University, Delhi

**4. Education Qualification:**

- B.Tech.(ECE): Gautam Budha Technical University Lucknow, U.P.
- M.Tech.(IT): Indian Institute of Information Technology Allahabad, U.P.
- GATE: Seven times GATE qualified from 2011 to 2017.



**5. Work Experience:**

- Teaching –
  1. Assistant Professor, Dept. of ECE, DTU, Delhi (2020-Current)
  2. Assistant Professor, SMVDU, Katra ,J&K (2018-2020)
  3. Lecturer, NIT Hamirpur, HP (2016-2018)
  4. Assistant Professor, GEHU, Dehradun, UK (2013-2016)
  5. Teaching Assistant, IIIT Allahabad, UP (2011-2013)

Total: 10 (in years)

- Research – NIL
- Industry – NIL

**6. Area of Specialization:** Microelectronics, Mixed-signal Design

**7. Course taught at Under Graduate /Post Graduate Level :** VLSI Design, MEMS, VLSI Technology, Digital Electronics, Analog Electronics, Network Analysis & Synthesis, Electromagnetic Field Theory, Microprocessor & Interfacing, Probability & Stochastic processes, Ad-Hoc Networks, Mixed-signal Design.

**8. Research Guidance :** [Please provide numbers only]

- No. of Papers published in national/International Journals/Conferences – 04
- Masters – 06
- Ph.D. – NIL

**9. Projects Carried Out:** Worked on TEQIP-III sponsored Research Project titled “Design of an ADC with Sampling frequency of Hundreds of Mega samples per second for 5G communication” as Principal Investigator. The total amount of the research project is Rs. 7,77,000.



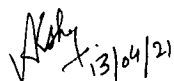
दिल्ली प्रौद्योगिकी विश्वविद्यालय  
**DELHI TECHNOLOGICAL UNIVERSITY**  
(Formerly Delhi College of Engineering)

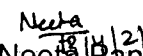


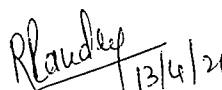
**CERTIFICATION BY THE CONSULTANT**

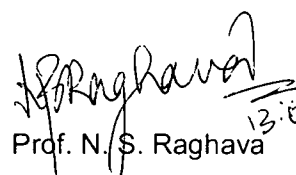
We, the undersigned, Prof. N. S. Raghava, Prof. Rajeshwari Pandey, Prof. Neeta Pandey and Mr. Akshay Mann, Department of Electronics and Communication Engineering, Delhi Technological University, Delhi - 110042 certify that we will be available for the entire duration of the current project (technical evaluation/ Report of SIC Layout-Design stored in the GDS-II format of SICLDR applications). If we leave this assignment in the middle of the completion of the work, CGPGTM would be at liberty for taking action as deemed fit.

We have no objection if my services are extended by the O/o CGPD TM for this work in the future.

  
Mr. Akshay Mann

  
Prof. Neeta Pandey

  
Prof. Rajeshwari Pandey

  
Prof. N. S. Raghava

Date: 13.04.2021



दिल्ली प्रौद्योगिकी विश्वविद्यालय  
**DELHI TECHNOLOGICAL UNIVERSITY**  
(Formerly Delhi College of Engineering)



**CONSULTANCY SUBMISSION FORM**

FROM: Department of Electronics and Communication Engineering  
Delhi Technological University

To:

SICLD Registry, O/o CGPDTM  
Boudhik Sampada Bhawan,  
Plot no. 32, Dwarka sector 14,  
New Delhi 110075

Subject: Submission of Technical and Financial proposal for engagement as a consultant for "technical evaluation/ Report of SIC Layout-Design stored in the GDS-II format of SICLDR applications".


I/We, the undersigned, offer to provide the consulting services for the above in accordance with the consultancy agreement document and our Proposal. I/We are hereby submitting our Proposal, (unconditional) sealed under a separate envelope for the above-mentioned work.

Further, all information and documents submitted during the tenure of this consultancy agreement are true and correct to the best of our knowledge and belief.

I/We undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from consultancy agreement negotiations.

I/We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

  
13.04.2024

Prof. N. S. Raghava  
Head of the Department  
Electronics and Communication Engineering  
Delhi Technological University



दिल्ली प्रौद्योगिकी विश्वविद्यालय  
**DELHI TECHNOLOGICAL UNIVERSITY**  
(Formerly Delhi College of Engineering)



FINANCIAL PROPOSAL SUBMISSION FORM

FROM: Department of Electronics and Communication Engineering  
Delhi Technological University

To:

SICLD Registry, O/o CGPDTM  
Boudhik Sampada Bhawan,  
Plot no. 32, Dwarka sector 14,  
New Delhi 110075

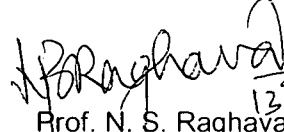
Subject: Engagement as a consultant for technical evaluation/ Report of GDS-II files of SICLDR applications.

I/We, the undersigned, offer to provide the consulting services for the above work in accordance with your Request and TOR, consultancy agreement document, and our Proposal. Our attached financial proposal is for the sum of Rs 35000/- (Rupees Thirty Five Thousand only) each file which amounts to Rs 3.5 lakhs for 10 such layout design files. This amount is inclusive of the applicable taxes.

Our financial proposal shall be binding upon us subject to the modifications resulting from consultancy agreement negotiations, up to the expiration of the validity period, if any of the proposal.

I/We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

  
13.04.2021

Prof. N. S. Raghava  
Head of the Department  
Electronics and Communication Engineering  
Delhi Technological University



## Memorandum of Understanding

between

Delhi Technology University (DTU), India

And

National Formosa University (NFU), Taiwan

In order to promote co-operation between **Delhi Technology University** and **National Formosa University**, the following memorandum of understanding has been agreed upon:

Whenever feasible, both universities will encourage direct contact and co-operation between their faculty members, departments, and schools.

The two universities will endeavor to co-operate in education and research areas of mutual interest. Within fields that are mutually acceptable, the following general forms of co-operation will be pursued:

1. Faculty member and student exchange/internship programs.
2. Joint research and development activities.
3. Professional language teaching and cultural exchange programs.
4. Cooperative certificate programs.
5. Credit Transfer
6. Joint supervision of PhD research work.

Themes of joint activities and the most appropriate way of utilizing the results achieved, arrangement for specific visits, exchanges, and other forms of co-operation will be developed mutually in each specific instance. Agreements entered into by the Delhi Technology University may be subject to review and approval by the Council of DTU.

As and when specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for such specific agreements.

With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.

Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.


The MOU/Agreement can be amended or changed by mutual written consent.

Both parties understand that all financial arrangements will have to be negotiated and will depend on the availability of funds.

Hereupon the signatures of the representatives of both universities will follow in the hope of promoting mutual friendship and co-operation. This Memorandum of Understanding (MOU) shall become effective once signed by both universities and remain valid for five years. At the end of this period, the MOU shall be subject to renewal or modifications by mutual consent of both parties. The agreement will remain in effect until one party notifies the other of its wish to terminate the agreement at least ninety days before the end of the academic year.

  
Prof. Samsheer  
Registrar, Delhi Technological University Delhi

Date: 20200315

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi



Ph.D. Wen-YuhJywe  
President, National Formosa University

  
Dean/Director International Affairs

**MEMORANDUM OF UNDERSTANDING (MOU)**  
**BETWEEN**  
**NATIONAL DISASTER MANAGEMENT AUTHORITY,**  
**Ministry of Home Affairs**  
**Government of India**

And

**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**  
**For**  
**Development of Earthquake Disaster Risk Index Phase -II**

This MEMORANDUM OF UNDERSTANDING is made on this 3<sup>rd</sup> day of Dec, 2020 BETWEEN the National Disaster Management Authority, Government of India (hereinafter referred to as NDMA) and Malaviya National Institute of Technology Jaipur (hereinafter referred to as MNIT Jaipur).

**WHEREAS** NDMA has decided to award the work relating to "Development of Earthquake Disaster Risk Index Phase -II" to MNIT Jaipur at the cost indicated against Scheme as applicable:

S.No.	Scheme	Cost (Rs.in Lakh)	Duration
1	EDRI Phase-II	116.224 (including all taxes as applicable)	24 months

This Memorandum of Understanding (MoU) defines the role and responsibilities of the participating agencies, timeline, payment schedule, monitoring and other matters related to Resources Mapping on Earthquake Engineering under the Other Disaster Management Project (ODMP) Scheme.

**NOW THE PARTIES HERETO AGREE AS FOLLOWS: -**

**1. Role of National Disaster Management Authority:**

The NDMA shall provide funds to the extent of Rs. 116.224 lakhs or as per actual expenditure whichever is lower to MNIT Jaipur. i. e. evaluation cost of the above Project / Scheme, as applicable as per rules, for undertaking the evaluation work of this project/Scheme. No additional funds would be provided in case of delay of work, extension of project by NDMA etc.

NDMA shall facilitate field investigations, collection of data or engineering information, etc., wherever, it is required. However, the end responsibility for the same shall be with MNIT Jaipur.

NDMA shall monitor the project through a committee chaired by NDMA.

## 2. Role of MNIT Jaipur

MNIT Jaipur shall be the implementing agency for undertaking the project in collaboration with the NDMA

MNIT Jaipur shall carry out the activities as mentioned in the project proposal document.

MNIT Jaipur shall be responsible for accomplishing objectives identified and activities listed.

MNIT Jaipur shall effectively utilize the fund given by NDMA for the purpose of head for which, it was granted as per GoI norms and ensure timely progress of project work.

MNIT Jaipur shall submit technical and financial reports and other documents to NDMA on a quarterly basis.

NDMA shall provide the fund to MNIT Jaipur and further, MNIT Jaipur shall disburse to ISM Dhanbad and DTU.

MNIT Jaipur shall maintain a separate ledger account for funds received from NDMA for the project and submit report to NDMA as under GFR 233.

## 3. Effective Date and Duration of Memorandum of Understanding (MoU):

This Memorandum of Understanding shall be effective from the date of 1<sup>st</sup> release of funds to MNIT Jaipur, after signing of MoU between all parties. This Memorandum of Understanding will remain in force for the duration of work by MNIT Jaipur.

## 4. Methodology

(I) The methodology to be adopted for the present study is given below:

- a. Review EDRI assessment methodologies, controlling factors, tools and techniques to identify the gaps in the existing seismic risk assessment methods, thereby selecting specific parameters for building a risk assessment model that has features of interim assessment and easy replication channel for better management.
- b. Study of the 60 Indian cities lying in Zone IV and V using secondary data for finalisation of criterion to be used for the selection of cities to be considered for the development of EDRI,
- c. Study of urbanisation process in selected cities through satellite images, review of current situation with respect to factors contributing to the earthquake vulnerabilities,
- d. Geo-spatial data collection and GIS database creation related to building typologies, urban densities, soil characteristics, geological characteristics, socio economic profile of cities, infrastructure and health facilities etc., from satellite images, geotagged photographs through rapid visual survey (RVS) for the selected cities and identification

- of factors contributing to the earthquake vulnerabilities for different cities to be considered for the risk assessment,
- e. Assessment of Seismic Hazard in terms of peak ground acceleration and spectral acceleration and generation of micro level seismic hazard maps using GIS.
  - f. Assessment of Exposure using GIS in terms of importance factor for buildings and floor area ratio or built-up density and other suitable variables.
  - g. Assessment of vulnerabilities spatially, considering Life threatening factors and Economic Loss Inducing factors using GIS.
  - h. Assessment of Earthquake Disaster Risk Index (EDRI) for buildings and 60 cities spatially in GIS considering spatial variation of earthquake hazard, exposure and vulnerability representing factors and prioritisation of cities with respect to relative risk.
  - i. Preparation of consolidated technical report including city wise discussion.
  - j. Formulating recommendations for adaptation and mitigation for reduction of earthquake risk in the cities.

## (II) Project Team

The project team will consist of one Principal Investigator (Dr. Mahesh Kumar Jat, MNIT Jaipur) and along with two Co-PI Dr. Shilpa Pal Associate Professor, from DTU and Dr. Rajib Sarkar Assistant Professor from ISM Dhanbad. The P. I. may include CO-PI from MNIT Jaipur as per the need of the project.

## (III) Work Element & Project Duration:

The activities will be carried out in a period of 24 months from date of transfer of first instalment of the payment.

NDMA will monitor and evaluate the progress of the project through monitoring committee.

**Stage 1:** Establishment of project requirements and hiring of research staff (2<sup>nd</sup> Month)

**Stage 2:** Finalization of methodology based upon learning from the EDRI Phase I (9<sup>th</sup> Month)

**Stage 3:** Data collection through the field visit of the projected cities & Database creation (18<sup>th</sup> Month)

**Stage 4:** Evaluation of EDRI in terms of a) vulnerability of buildings b) expected level of damage to the buildings c) corresponding expected loss of life and property (19<sup>th</sup> Month)

**Stage 5:** Consolidated Report of EDRI for 60 cities with detailed analysis of outcome and methodology adopted along with consultation of stakeholders (20<sup>th</sup> Month)

**Stage 6:** Individual city report with list of major contributing factors to the overall risk, along with a separate report for the policy maker. (24<sup>th</sup> Month)




PERT Chart indicating the actual timeline of the project, review and deliverables:

Stages	Months	2	4	6	8	10	12	14	16	18	20	22	24
Stage 1	2 months												
Stage 2	9 months												
Stage 3	18 months												
Stage 4	19 months												
Stage 5	20 months												
Stage 6	24 months												

#### (IV) Deliverable

- EDRI in terms of a) vulnerability of buildings b) expected level of damage to the buildings c) corresponding expected loss of life and property.
- Consolidated Report of EDRI for 60 cities with detailed analysis of outcome and methodology adopted,
- Individual city report with list of major contributing factor to the overall risk, along with specific mitigation measures to reduce the earthquake risk,
- Comparison of cities with similar risk indices

Outcome indicators will be as under:

- Number of cities for which EDRI is evaluated.
- Number of cities for field visits.
- Number of individual reports.

(V) Payment Schedule (inclusive of faculty time, travel cost and institutional overheads).

#### Financial Requirements:

S. No.	Budget Head	Amount in Lakh Rs.
1	Salaries/wages	56.9
2	Consumables including office maintenance	6.0
3	Travel	16.0
4	Contingencies – Telephone, internet, meeting expenses and other miscellaneous expenses	7.0
5	Equipment	11.0
	<b>Sub Total (to be related to MNIT Jaipur)</b>	<b>96.9</b>
	Institute Overhead (approximately 20%)	19.4
<b>Total</b>		<b>116.224</b>

**Note:**

Above budget includes the TA/DA of PI, Project Officers involved in the project for carrying the envisaged activities.

- It will not include TA/DA expenses of officer's/ monitoring committee members. MNIT Jaipur will bear the expenses of monitoring committee members out of the received project grant, if applicable.
- Project will start on the day of receiving the amount in MNIT Jaipur account. Fund disbursement shall be according to the timeline given below:
  - 40% at the time of signing of MoU.
  - 30% at the end of stage 1<sup>st</sup> & 2<sup>nd</sup> after submission of UC/ Statement of Expenditure for earlier release fund.
  - 10% at the end of stage 4<sup>th</sup> and submission of utilization certificate by MNIT Jaipur and acceptance of UC and deliverables by NDMA.
  - 20% (institute overhead) at the end of stage 6<sup>th</sup> and submission of utilization certificate by MNIT Jaipur and acceptance of UC and deliverables by NDMA.

**(VI) Account Details:**

Please see below the bank details of MNIT Jaipur:

Name of the Bank	: ICICI Bank
Address of the Bank	: ICICI Bank, MNIT Branch, Jaipur -302017
Account Name	: Registrar, MNIT Jaipur (Sponsored Research)
Account Number	: 676801700388
Branch Name	: MNIT Jaipur Branch
IFSC Code	: ICIC0006768

**Note:**

- Separate ledger account will be opened by the MNIT Jaipur.

**(VII) Monitoring & Control:**

NDMA shall monitor the project through a committee headed by NDMA.

5. **Penalty Clause:** The MNIT Jaipur shall execute the work as per terms & conditions specified in this MoU and complete it within 24 months from the date of 1<sup>st</sup> instalment transferred to MNIT Jaipur account. In case there is any delay in activities to be carried out by the implementing agency which are beyond control of MNIT Jaipur, the time for completion shall be suitably extended by NDMA on formal request with reasons for delays received from executing agency. In case there is any delay in completion of activities beyond the stipulated time which are solely attributable to Executing Agency or their representative(s), the Executing Agency shall be liable to pay liquidated damages to NDMA. The liquidated damage shall be 0.5% per week subject to maximum of 10% of project cost as per MOU.



5/7



6. **Termination:**

The NDMA may without prejudice to any other remedy available for breach of any conditions of the MoU, by a written notice of 30 calendar days issued to MNIT Jaipur to terminate the Agreement for failure on the part of any party to properly utilize amount, non-availability of services / funds as decided or other unforeseen reasons leading to the impact on the project.

7. **Rights and Ownership / Technology Transfer and Utilization:**

7.1 The know-how generated from the project will be the property of NDMA. It shall be the responsibility of project investigators to take necessary action for protection of the intellectual property arising out of the Project through proper instruments, such as, patents, copyrights, etc.

7.2 The know-how developed shall be transferred to NDMA for its utilization. The know-how may also be transferred to other agencies/ organizations on a non-exclusive basis on such terms and conditions as may be determined by NDMA.

7.3 It shall be the responsibility of project investigators to ensure that the financial support of NDMA is suitably acknowledged in the publications (papers, reports, etc.) of the Project work.

8. **Secrecy:**

It is hereby agreed that the participating agencies shall not disclose any information and data collected to others without consultation with NDMA, apart from using the information and data for NDMA purposes.

9. **Arbitration:**

In the event of any dispute between parties hereto, such disputes or difference shall be resolved amicably by mutual consultation. If such resolution is not possible, then the unresolved disputes or differences shall be referred to arbitration of the sole arbitrator to be appointed by NDMA on the recommendation of the Secretary, Department of Legal Affairs (i.e. Law Secretary, Government of India). The provisions of Arbitration and Conciliation Act, 1996, or of any modifications or re-enactments thereof shall be applicable to the arbitration under this clause. The venue of such arbitration shall be Delhi or any other place, as may be decided by the arbitrator.


The language of arbitration proceedings and that of all documents and communication between the parties shall be English.

10. **Governing Law:**

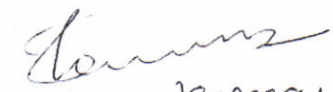
This MoU shall be governed by the Indian Laws for the time being in force.



IN WITNESS WHEREOF the parties hereto have signed sealed and delivered this Agreement on the day, month and year above written in presence of: -

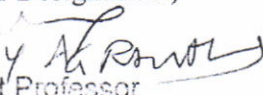
  
Signed by: Prof. Mahesh K. Jat  
Professor and P.I.  
(with Name, Designation and Seal)  
(for and on **PROFESSOR** IT Jaipur)  
Department of Civil Engineering  
Malaviya National Institute of Technology  
JAIPUR-302017

1. Witness:  
(Name and Designation.)

  
(Prof. Sudhir Kumar)  
Professor, CED, MNIT Jaipur.

**PROFESSOR**  
Department of Civil Engineering  
Malaviya National Institute of Technology  
JAIPUR-302017

2. Witness:  
(Name and Designation.)

  
(VINAY KUMAR)  
Assistant Professor  
Department of Civil Engineering  
Malaviya National Institute of Technology  
Jaipur-302017

Signed by:


(with Name, Designation, and Seal)  
(for and on behalf of NDMA)

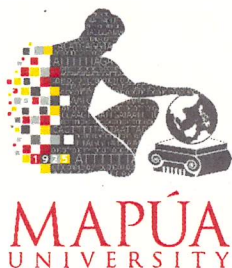
  
सुनील सिंह रावत  
SUNIL SINGH RAWAT  
अवर सचिव / Under Secretary  
राष्ट्रीय आपदा प्रबंधन प्राधिकरण  
National Disaster Management Authority  
गृह मंत्रालय / Ministry of Home Affairs  
नई दिल्ली / New Delhi-110029

1. Witness: \_\_\_\_\_  
(Name and Designation.)

  
ABHISHEK SHARMA, SRO (MIT.)

2. Witness: \_\_\_\_\_  
(Name and Designation.)

  
Pradeep Kumar  
SRO (MIT.)



## Memorandum of Understanding

between

Delhi Technological University (DTU), India

And

MAPUA UNIVERSITY (MU), Philippines



This Memorandum of Understanding (the “MOU”) is made and executed by and between:

**MAPUA UNIVERSITY**, hereinafter referred to as “**MAPUA**”, an educational institution organized and existing under the laws of the Philippines, with principal office at 658 Muralla Street, Intramuros, Manila, Philippines 1002, herein represented its President, **Dr. Reynaldo B. Veal**;

-and-

**DELHI TECHNOLOGICAL UNIVERSITY**, herein referred to as **DTU**, a premier university organized and existing under the laws of India, with principal office at Shahbad Daultapur, Bawana Road, Delhi - 110042, herein represented by its Registrar, Prof. Samsher and Dean International Affairs, Prof. Vishal Verma on behalf of the Vice Chancellor Prof. Yogesh Singh;

(each referred to as the “**Party**” or collectively as the “**Parties**”)

**-WITNESSETH:** That-

**WHEREAS**, **MAPUA** is a premier institution of higher learning in the Philippines with established and well-recognized academic programs in Engineering, Architecture and Design, Science, Information Technology, Health Sciences, Multimedia Arts, Psychology, Business and Management, and various programs in Graduate School;

**WHEREAS**, **DTU** is a premier institute of higher learning in India established in 1941 with well-recognized academic programs in Engineering, Applied Sciences, Business and Management and Design;

**WHEREAS**, **MAPUA** and **DTU** desire to collaborate in the joint and/or collaborative research; hosting of research students and faculty, joint conferences and fora; visiting professor program, and joint training/academic programs;

**NOW, THEREFORE**, for and in consideration of the foregoing premises and the mutual covenants and undertakings hereinafter set forth, the parties have agreed as follows:

### I

1.1 This understanding covers the alliance between **MAPUA** and **DTU** on the following activities:

- a) Hosting and supervising research students
- b) Hosting and supervising teaching and/or non-teaching researchers
- c) Joint and/or collaborative research project
- d) Joint scientific paper publication
- e) Joint supervision of PhD students
- f) Joint conferences and/or fora
- g) Joint training for capacity building
- h) Credit transfer under degree academic programs

1.2 Parties may enter into subsequent agreements specifying the terms and conditions to implement the above-mentioned activities subject to mutual consent, availability of funds, and the approval of each party.

## II

- 2.1 No modification or alteration of any part of this Agreement shall be considered as having made unless executed in writing and duly signed by the parties hereof.
- 2.2 Neither of the parties shall be liable in any way for failure to observe or perform any provision hereof if such failure shall be caused by any laws, rule or regulation of any constituted public authority or to any cause beyond the control of party in default.
- 2.3 Any dispute or differences that may arise in the course of implementation or the interpretation of the provisions of this Understanding shall be resolved by the parties through mutual consultations and in good faith.
- 2.4 Any intellectual property resulting from this Understanding or any subsequent agreement specifying the terms and conditions for the activities herein covered shall be subject to the IP policies of both MAPUA and DTU. In case of conflict between the IP policies, parties shall endeavor to resolve the matter amicably.
- 2.5 This agreement shall be valid and in effect for a period of five (5) years, reckoned upon signing of both parties, unless sooner terminated by either party with written notice of at least sixty days (60) prior to intended date of termination without prejudice to activities or obligations already contracted prior to serving the notice of termination.
- 2.6 The parties may renew this Agreement under the same or modified terms and conditions, as may be agreed upon by the parties, by serving written notice of renewal upon the other party by at least thirty (30) days prior to the expiration of the original term hereof.

IN WITNESS HEREOF, the parties, through their respective representatives have signed this Agreement.

### MAPUA UNIVERSITY

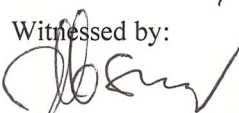
By:

  
**REYNALDO B. VEA, Ph.D.**

*President and CEO*

Date: *FEBRUARY 28, 2020*

Witnessed by:

  
Delta B. Senoro, Ph.D.  
Director, International Linkages  
For Research and Development



OFFICE OF INTERNATIONAL LINKAGES  
FOR RESEARCH AND DEVELOPMENT

MAPUA UNIVERSITY

### DELHI TECHNOLOGICAL UNIVERSITY


By:

  
**Prof. Samsher**

*Registrar*

Date:

Witnessed by:

  
Prof. Vishal Verma  
Dean International Affairs

**Registrar**  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



# **Memorandum of Understanding**

**Between**



**DELHI TECHNOLOGICAL UNIVERSITY  
DELHI-110042**

**and**



**CSIR-CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION  
CHANDIGARH-160030**

## Memorandum of Understanding

This Memorandum of Understanding (MoU) is entered into on the 11<sup>th</sup> day of February, 2020 at Chandigarh. This MoU sets for the terms and understanding between:

**Delhi Technological University, Delhi** (formerly Delhi College of Engineering) is a non-affiliating teaching-cum-research University. Delhi College of Engineering, (initially established as Delhi Polytechnic) came into existence in the year 1941 to cater the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. The institution was set up at historic Kashmere Gate campus as a follow up of the Wood and Abott Committee of 1938. In 1952 the college was affiliated with University of Delhi and started formal Degree level Programmes. From July 2009, the Delhi College of Engineering became Delhi Technological University (here-in-after referred to as 'DTU') a non-affiliating Technological University vide Delhi Government Act 6 of 2009.

and

**Central Scientific Instruments Organisation, Chandigarh** (hereinafter referred to as "CSIR-CSIO"), a constituent laboratory of Council of Scientific & Industrial Research [CSIR - a Society registered under the Societies Registration Act (XXI of 1860) having its Registered Office at Anusandhan Bhawan, 2, Rafi Marg, New Delhi-110001], represented by the Director having its office at Sector-30, Chandigarh - 160 030.

### 1. Preamble

- **Delhi Technological University**  
Delhi Technological University (formerly Delhi College of Engineering) is a non-affiliating teaching-cum-research University engaged in fostering excellence in education, research and innovations in engineering and technology, applied sciences and management.
- **CSIR-CSIO**  
CSIR-CSIO is a premier R&D organization engaged in undertaking research, design and development of scientific & industrial instruments. CSIR-CSIO is also a participating lab for M.Tech and Ph.D. program under Academy of Scientific & Innovative Research (AcSIR).

### 2. Areas of Common Interest

Both the Institutes have agreed today (February 11, 2020) to enter into a scientific collaborative understanding on the terms and conditions enumerated in this MoU. For the purpose of this MoU, the general areas of interest common to both organizations are mentioned below. CSIR-CSIO and DTU (both also referred as institutes/institutions) shall seek to promote:

- i. Exchange of Staff and Students (Faculty, Technical staff, Research Scholars, Students (PG), Undergraduate Students (UG) and research project employees etc.) in relation to Pursuing academic and research Programs for the mutual benefit of both institutions. This includes joint supervision of full time or part time Ph.D. scholars as per the governing rules of the Institutes.
- ii. Sharing of expertise, domain knowledge and available facilities in mutually agreed research areas (viz. Physics, Photonics, Optics, Material Science and engineering, Nano science and Nanotechnology, electronics, Computation and any other areas of Common interest in Science and engineering for basic research as well as for research and development of techniques, Instrumentation, etc.
- iii. Promoting interaction among the scientists, professors and research scholars of both the organizations by exchange visits and/or organizing brainstorming sessions to identify, formulate and pursue joint research programs including externally funded schemes, Research projects and consultancy activities in emerging thrust areas of mutual interest.
- iv. Promoting cooperation among working groups on mutually agreed research and collaboration in Teaching under AcSIR (Academy of Scientific & Innovative Research).
- v. Exchange of Academic and Research Material for joint Publications and Intellectual Property (IP) rights. Such IP would acknowledge joint inventorship of personnel / students of both the Institutions, as applicable.
- vi. Technology Management and Technology Transfer.
- vii. Writing of Books/ Booklets jointly in the common areas listed above or in any other area of mutual interest.
- viii. Provision of cultural and intellectual enrichment Opportunities for Staff and Students of both institutions.
- ix. Any other areas of mutual interest.

### 3. Areas of Cooperation

The areas of Cooperation will be defined and modified from time to time by the Coordination Committee set up for the purpose,

- (A) Staff exchange activities covering visits to either institution for any of the following purposes
  - i. Undertaking joint research project
  - ii. Attachment of staff for purposes of curriculum development & review, attending courses and up gradation in teaching & research skills
  - iii. Participation in seminars, colloquia and other academic discussions
  - iv. Contributions to teaching programs
  - v. Co-supervision of graduate, postgraduate and Ph.D. Students
  - vi. Conduct study tours and joint consultancy and research work

- vii. Facilitation for pursuing academic courses (postgraduate, doctoral) for CSIR-CSIO employees at DTU
- (B) Student exchange activities (for Undergraduate, Postgraduate and Doctoral Students) cover visits to either institution for any of the following purposes:
  - i. Participation in Research
  - ii. Internship for DTU Students at CSIR-CSIO
  - iii. Internship for AcSIR students at DTU
  - iv. Carrying out experiments by the students across the laboratories of both the Institutes
- (C) Exchange of relevant Academic Materials will be carried out subject to mutual agreement of the institutions.

#### **4. Implementation of Cooperation / Coordination Committee**

Implementation of cooperation based on this MOU shall be dealt with between the relevant Faculties and Divisions/ Departments of both Institutions. Wherever necessary, a specific plan shall be worked out for each activity setting forth detailed arrangements for collaboration. Such plans shall be subject to approval of the appropriate authorities of each institution. To facilitate development of such plans, each institution shall nominate its staff to coordinate activities arising under this agreement.

The following will constitute the Coordination Committee to monitor and review the collaborative program between the two institutions:

- i. Vice Chancellor or his nominee(s)
- ii. Director, CSIR-CSIO or his nominee(s)
- iii. Coordinators from DTU and CSIR-CSIO

The coordination committee shall

- Consider new R&D proposals for joint collaboration, its implementation, financial arrangements
- Review the identified programs and consider the modification in the areas of co-operation between two Institutes
- Consider the continuance of the MoU

#### **5. Protection of IPR**

In broad terms, the IPR issues will be based on the following:

- i. All research results and foreground information as well as foreground intellectual Property rights, generated during the joint research work, whether or not legally projected, shall be owned jointly by DTU and CSIR-CSIO.
- ii. DTU and CSIR-CSIO shall consult each other before publishing any research results and foreground information generated during the joint research to ensure that no proprietary information is released and that foreground intellectual property rights are not jeopardized. Post consultation, any such

publication proposal, shall be deemed approved in the event there is no objection from the party seeking to oppose within a period of thirty (30) days of receipt of a content(s) of such a publication, both parties agree to suitably modify/ amend the content thereof in order to avoid disclosure of confidential information or patentable material. In any case, a party may delay publication till a period of ninety (90) days or the filing of a provisional application whichever ever earlier. DTU and CSIR-CSIO shall confer and consult each other regarding preparing, filing prosecuting, maintaining of Intellectual Property Rights applications including patent applications covering research results and foreground information generated during the joint work.

- iii. DTU and CSIR-CSIO shall not disclose any research result and foreground information, generated during the joint research, to any third party without seeking prior written permission from each other. Any scientific information exchanged / shared between the Parties for joint research / supervision will not be transferred to third party without consent of the parties.

#### **6. Terms of Collaboration**

- i. DTU and CSIR-CSIO agree to enter into collaboration on research & development, faculty and student exchange with pre-defined objectives, scope of work and mutual obligations, terms & conditions, financial arrangements Intellectual Property Rights and similar contractual obligations.
- ii. In so far as any third party is concerned, this MoU will be valid only when a letter from both parties is enclosed specifically expressing concurrence and an officer identified by name representing respective institutes and responsible for the specified project.
- iii. In case either party wins a joint consultancy project by projecting this MoU, a liability is created immediately in respect of royalty/ premium due to either party. Either party shall concur with the liability. The exact amount of liability will be arrived at after mutual consent by both the parties based on DST/DSIR/CSIR/MHRD guidelines.
- iv. In case either party decides to permit use of its equipment's, facilities, manpower to the other for executing a project, the scope of such a project, cost estimates of the project modalities of payment and all other related aspects would be worked out jointly by DTU and CSIR-CSIO through separate proposals as per DST/DSIR/CSIR/MHRD guidelines.
- v. Participating Staff and Students involved in any activities under this MoU must adhere to laws of the country and rules & regulations of the host institutions.
- vi. Ownership of any research findings shall be vested in both parties through this MoU and any publications regarding the same shall only be possible after prior approval from both parties.

**7. Disclaimer**

This MoU is not intended by DTU and CSIR-CSIO to constitute, create, give effect to, or otherwise recognize a joint venture, agency, partnership or formal business organization of any kind. Each party hereto shall act as an independent entity and neither shall act as an agent of either organization for other purposes. Neither party has the authority to bind the other party.

**8. Non-exclusive**

The agreement reflected by the provisions of this MoU is non-exclusive in nature and both the parties can enter into cooperative arrangements with other parties to suit their organizational needs.

**9. Confidentiality**

The parties understand that in the course of their association, they shall have access to confidential information provided by the other party. Accordingly, the parties agree that such information shall be maintained in the strictest confidence and trust, except such information which, by its nature, is not confidential or which is in the public domain or which the party comes to know about other than through violation of any law or legal obligation, provided that such party may be entitled to disclose such information if legally required to be disclosed to a Competent Authority. Failure to maintain confidentiality shall entitle the affected party to terminate the MoU.

**10. Period of Validity**

The MoU would be valid for a period of five (05) years from the date of signing by the parties. At the end of validity period of the MoU, a fresh MoU with similar/modified terms may be considered for the renewal.

**11. Reviews**

The MoU shall be reviewed periodically by both the parties and additions/deletions can be done with mutual consent.


**12. Termination**

The MoU can be terminated by either party after giving one month's written notice to the other party subject to fulfillment of commitments already agreed upon. Provisions of this MoU shall continue to apply to ongoing activities until their completion.

- 13.** The MoU constitutes the understanding between the parties hereto. Except as otherwise provided herein, no addition, amendment or modification of this MoU shall be effective unless it is in writing and signed by both parties by their respective authorized signatories.


14. Any disputes arising out of this MoU will be settled by mutual negotiations between the parties.

The undersigned, duly authorized, have signed this Memorandum of Understanding at CSIO, Chandigarh on February 11, 2020. It has been executed in two copies which are equally valid. One copy is retained by CSIR-CSIO and other by Delhi Technological University.

  
(Prof. Samsher)

Registrar.


Delhi Technological University  
Bawana Road, Delhi-110042  
**Delhi Technological University**  
(Formerly Delhi College of Engg.)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042


  
(Surender S Saini)

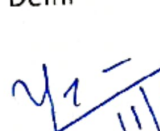
Principal Scientist & Head, BIPP

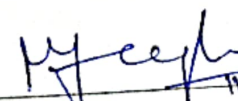
CSIR-Central Scientific Instruments Organisation  
Head, Business Initiatives and Project Planning  
Sector 30 C, Chandigarh - 160 030  
CSIR-Central Scientific Instruments Organisation  
सेक्टर 30 सी, चण्डीगढ़ - 160 030 (भारत)  
Sector 30 C, Chandigarh - 160 030 (India)


Witnesses:

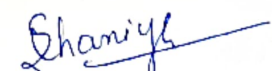
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DTU Delhi


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DTU Delhi

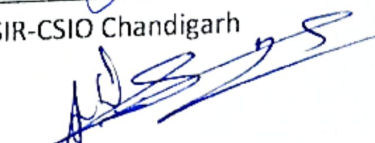
3.   
DTU Delhi

4.   
DTU Delhi

1.   
CSIR-CSIO Chandigarh

2.   
CSIR-CSIO Chandigarh

3.   
CSIR-CSIO Chandigarh

4.   
CSIR-CSIO Chandigarh

Date: 11.02.2020

Place: Chandigarh



**MEMORANDUM OF UNDERSTANDING**  
**By and Between**  
**Delhi Technological University, Bawana Road,**  
**Delhi, INDIA**  
**And**  
**La Trobe University, Victoria, Australia, 3086**



This Memorandum of Understanding is entered into as on .....07.02.2010 (the "Effective Date"), by and between La Trobe University, Victoria, a public research University established under the La Trobe University Act 2009 and located in Kingsbury Drive, Bundoora, Victoria, Australia, 3086, on behalf of its Pro Vice-Chancellor (International) and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

This Agreement serves only as a record of the Parties' general intentions and does not intend to constitute or create any legally binding or enforceable obligations, express or implied, under domestic or international law except where expressly stated. The purpose of this Agreement is to facilitate academic and research cooperation between the parties hereunder based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1 Joint educational and research activities;
- 1.2 Joint degree programs;
- 1.3 Team taught courses, including online courses;
- 1.4 Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.5 Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.6 Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.7 Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.8 Extend invitations for attending scholarly meeting and national and international conferences;
- 1.9 Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.10 Organizing activities jointly in social and cultural areas;
- 1.11 Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

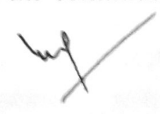
- 2.1 At....., this Agreement will be administered by La Trobe University and by Delhi Technological University. This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement.
- 2.2 As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3 Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

- 3.1 This Agreement encourages the exchange of students between the two Universities.
- 3.2 This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3 Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4 The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5 With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6 Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7 Confidentiality: the Parties acknowledge that they will come into possession of information, which the other considers to be confidential, including Personal Information ("Personal Information" means information and opinions recorded in any form about an individual whose identity is apparent, or can reasonably be ascertained, from the information or opinion). Each party covenants and agrees that it shall not, at any time, disclose to any third party, any Personal Information or any other confidential information of the other Party without first having obtained the prior written consent of the other Party. This is a legally binding obligation that will survive the termination of this Agreement.
- 3.7 The Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years. This Agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this Agreement. This Agreement may be terminated by either side with at least thirty(30) days written notice. However, the commitments already in progress must be fulfilled.



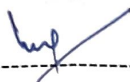
IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.



Prof. Samsher

Registrar, Delhi Technological University, Delhi

Date: (Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042



Prof. Vishal Verma

Dean (International Affairs)

Delhi Technological University, Delhi





Professor Richard Speed

Deputy Vice Chancellor (International)

La Trobe University, Victoria, Australia

Date:



Authorise Signatory/ Witness



**GENERAL AGREEMENT FOR COLLABORATION**  
**By and Between**  
**Delhi Technological University, Bawana Road, Delhi, INDIA**  
**and**  
**Universitas Mercu Buana, Jakarta, INDONESIA**



This General Agreement for Collaboration is entered into as on 29.01.2020 (the "Effective Date"), by and between Universitas Mercu Buana, a private research University located in Jakarta, Indonesia, and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

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**General Areas of Collaboration**

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- 1.3 Team taught courses, including online courses;
- 1.4 Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.5 Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.6 Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.7 Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.8 Extend invitations for attending scholarly meeting and national and international conferences;
- 1.9 Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.10 Organizing activities jointly in social and cultural areas;
- 1.11 Promote cooperation with third organizations based on common interest, international education, research and other networks;

**ARTICLE II: THE AGREEMENT**

- 2.1 This agreement will be administered by Universitas Mercu Buana by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement.
- 2.2 As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3 Neither institution is responsible for any financial support under this Agreement.

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- 3.2 This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3 Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4 The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5 With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6 Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7 The MOU/Agreement can be amended or changed by mutual written consent.

### ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 month prior to the end of the 5 year term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.


IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

  
Prof. Samsher  
Registrar,  
Delhi Technological University  
Date: 

  
Prof. Vishal Verma  
Delhi Technological University  
Dean (International Affairs)



Prof. Dr. Ngadino Surip  
Rector,  
Universitas Mercu Buana  
Date: 29.01.2020

  
Dr. Adi Nurmahdi  
Director of Innovation, Alumni and  
International Cooperation,  
Universitas Mercu Buana





## MEMORANDUM OF UNDERSTANDING

Between

**Nanjing University of Aeronautics and Astronautics**  
(hereinafter referred to as "NUAA")

and

**Delhi Technological University**  
(hereinafter referred to as "DTU")



**WHEREAS**, Delhi Technological University (DTU) and Nanjing University of Aeronautics and Astronautics (NUAA) desire to strengthen and expand the mutual contacts between the two universities; and establish a comprehensively strategic relationship;

**WHEREAS**, DTU and NUAA desire to promote the enrichment of their teaching and learning, research and discovery, and engagement missions; and

**WHEREAS**, DTU and NUAA desire to provide for an exchange of faculty and students and other collaboration between the two universities on the terms and conditions hereinafter set forth;

**NOW THEREFORE**, it is mutually agreed as follows:

### **I. Scope of Agreement**

This Agreement shall include, but not be limited to, the following types of collaboration:

- a. Short and Long-term Faculty Exchange
- b. Undergraduate and Graduate Student Exchange
- c. Visiting Student Programs
- d. Administrative Support Programs
- e. Collaborative Research and Discovery, Learning and Teaching, and Engagement
- f. Other mutually agreed educational programs

### **II. Period of Agreement**

This Agreement becomes effective on the date of the last signature and will remain in full force and effect for a period of five (5) years. Prior to the expiration date, the agreement may be reviewed for possible renewal for a further five (5) year period. In addition, either party may terminate this agreement as indicated in Section III below.

### **III. Termination**

This Agreement may be terminated prior to the Termination Date in any of the following ways:

- a. Termination by Agreement. The Parties may mutually agree to terminate this Agreement in writing, on the terms and dates stipulated therein.
- b. Early Termination. Either Party may terminate this Agreement at any time with or without cause by delivering written notice of termination to the other Party at least ninety (90) days prior to such early termination.
- c. Termination for Cause. Either Party may terminate this Agreement upon a material breach by the other Party which is not cured within thirty (30) days of written notice of such

breach to the other Party. Any second or subsequent material breach within a particular one (1) year term, whether such breach is of the same kind or not, shall be grounds for immediate termination of this Agreement.

- d. Ongoing Obligations Upon the termination of this Agreement, the provisions herein shall cease to be in force and effect: provided, however, that termination of this Agreement shall have no effect on the following obligation of either party: (i) obligations accruing prior to the date of termination; and (ii) obligations, promises, or covenants contained herein that are expressly made to extend beyond the term of this Agreement, including without limitation, confidentiality of information.

#### **IV. Activities Under This Agreement**

It is expected that activities taking place under this Agreement will be initiated primarily by academic units and International Offices within each university, and in coordination with their respective administrative units concerned with international activities. All activities undertaken must conform to the policies and procedures in place at each institution.

#### **V. Planning and Management of Activities**

Each distinct collaboration program or activity will be described in a separate Activity Agreement drawn up jointly by the collaborating units and signed by authorized signatories of each Party. Such agreements will specify the names of those individuals on each campus responsible for the implementation of the program.

#### **VI. Funding of Activities**

The specific activity agreements shall be developed, and each will require a separate written agreement which will set forth the terms and conditions including intellectual property ownership and financial costs and obligations explicitly. Collaborating units are encouraged to work together to identify and secure any outside funding which may be needed. Projects requiring funding must be approved by both institutions. This Memorandum of Understanding (MoU) shall be the basis for aforementioned activity agreements.

With regards to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.

#### **VII. Use of Name**

NUAA will not use the name of DTU, nor of any member of DTU's program staff, in any publicity, advertising, or news release without the prior written approval of an authorized representative of DTU. DTU will not use the name of NUAA, or any employee of NUAA, in any publicity, advertising, or news release without the prior written approval of NUAA.

#### **VIII. Nondiscrimination**

DTU and NUAA agree that no person shall on the grounds of race, color, national origin, gender, sexual orientation, or creed be excluded from participation under the terms of this Agreement.

**IX. Modification**

The terms of this Agreement may be changed or modified only by written amendment signed by authorized representative appointed by both universities.

**X. Prevailing Language**

Should this document be executed in two languages, the English version of this Memorandum of Understanding represents the understanding of both Parties. Any other version is provided as a translation. In the event of conflict between the two versions, the English version will prevail.

**XI. Non-Binding**

This Agreement is non-binding and solely for the purpose of establishing a basis upon which DTU and NUAA will continue discussions. Either DTU or NUAA may at its sole discretion terminate discussions for any reason by giving written notice of termination to the other. In the case of a dispute that arises relating to any aspect of cooperation under this Agreement, the parties may attempt to resolve such dispute through friendly negotiation, or either party may elect to terminate the agreement pursuant to the previous provision. Upon termination, the parties will have no further obligations hereunder.

FOR DELHI TECHNOLOGICAL UNIVERSITY

FOR NANJING UNIVERSITY OF AERONAUTICS  
AND ASTRONAUTICS

23.12.19

Name: Prof. Samsher  
Designation: Registrar,

Date: 23.12.2019

Witnessed: 23/12/19

Name: Prof. Vishal Verma  
Designation: Dean (International Affairs)  
Delhi Technological University, Delhi  
Email :dean.ia@dtu.ac.in

Zheng Yong'an

ZHENG Yong'an  
Designation :Chancellor

Date: 23/12-2019

Witnessed:

Name: Prof. Luo Jie ( Wallace)  
Designation: Foreign Expert & Visiting Professor  
Nanjing University of Aeronautics & Astronautics  
Email :luojie@nuaa.edu.cn



**GENERAL AGREEMENT FOR COLLABORATION**  
By and Between  
**Delhi Technological University, Bawana Road, Delhi, India**  
and  
**University of Transport Technology (UTT),  
Hanoi, Vietnam**



This General Agreement for Collaboration is entered into as on 10.2.2020 (the “Effective Date”), by and between **University of Transport Technology , Hanoi, Vietnam**, a public research University located in, Hanoi, Vietnam and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education’s role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

#### **ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

##### **General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Joint degree programs;
- 1.3. Team taught courses, including online courses;
- 1.4. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.5. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.6. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.7. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.8. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.9. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.10. Organizing activities jointly in social and cultural areas;
- 1.11. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **University of Transport Technology , Hanoi, Vietnam** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

Prof. Samsher  
Registrar, Delhi Technological University  
Date:

Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University

TRƯỜNG  
ĐẠI HỌC  
CÔNG NGHỆ  
GIAO THÔNG  
VẬN TẢI  
Date: PGS-TS. ĐÀO VĂN ĐÔNG  
10.02.2020



**GENERAL AGREEMENT FOR COLLABORATION**  
**By and Between**  
**Delhi Technological University, Bawana Road, Delhi, INDIA**  
**and**



**Balitar Islamic University, Blitar, Jl. Imam Bonjol No. 14-16, A Sananwetan Kota Blitar, East Java,**  
**INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Balitar Islamic University, Blitar**, located in **Blitar**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Balitar Islamic University, Blitar** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

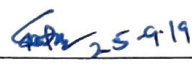
## ARTICLE III: GENERAL TERMS


- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

  
25.9.19  
Registrar  
Prof. Samsher  
Registrar, Delhi Technological University  
(Govt. of NCT of Delhi)  
Date: Shahdara Daulatpur, Bawana Road  
Delhi - 110044

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Drs. H. Soebiantoro, M.Si  
Rector, Balitar Islamic University  
Date:  
  
REKTOR

**GENERAL AGREEMENT FOR  
COLLABORATION By and Between  
Delhi Technological University, Bawana Road, Delhi, INDIA  
And  
Dr. Soetomo University, 84 Semolowaru Street, Surabaya, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between Dr. Soetomo University, located in Surabaya, Indonesia and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## **ARTICLE II: THE AGREEMENT**

- 2.1. At Delhi Technological University, this agreement will be administered by Dr. Soetomo University Surabaya and by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## **ARTICLE III: GENERAL TERMS**

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
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- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## **ARTICLE IV: DURATION**

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

*[Signature]* 25/9/19

Prof. Samsher  
Registrar, Delhi Technological University Delhi  
Date: 25 September 2019

Registrar  
**Delhi Technological University**  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

*[Signature]* 25/09/19

Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi



*[Signature]*

Dr. Bachrul Amiq, S.H., M.H.  
Rector, Dr. Soetomo University Surabaya  
Date: 25 September 2019



## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

and



**Mandala College of Economics, Jl. Sumatra No.118-120, Tegal Boto Lor, Summersari, Kec.**

**Summersari, Kabupaten Jember, East Java 68121, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Mandala College of Economics**, located in **Jember**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
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- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Mandala College of Economics** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

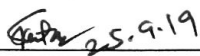
## ARTICLE III: GENERAL TERMS

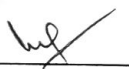
- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
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- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.


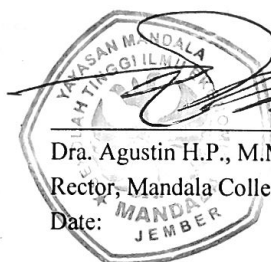
## ARTICLE IV: DURATION

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IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

  
Prof. Samsher Registrar  
Registrar, Delhi Technological University  
(Govt. of NCT of Delhi)  
Date: Shabbir Daulatpur, Bawana Road  
Delhi-11004

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Dra. Agustin H.P., M.M.  
Rector, Mandala College of Economics  
Date: 



## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**



and

**Universitas PGRI Adi Buana, Jl. Dukuh Menanggal XII No. 4, Surabaya East Java, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Universitas PGRI Adi Buana**, located in **Surabaya**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Universitas PGRI Adi Buana** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrator at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.


## ARTICLE III: GENERAL TERMS


- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

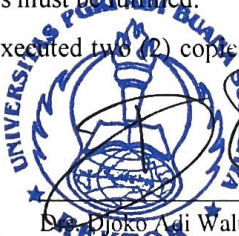
## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

 25-9-19 Registrar  
Delhi Technological University  
Prof. Samsher (Govt. of NCT of Delhi)  
Registrar, Delhi Technological University, Delhi  
Date: Delhi-110042

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Dr. Djoko Adi Walujo, S.T., M.M, DBA  
Rector, Universitas PGRI Adi Buana  
Date:

## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

and

**STIE Wilwatikta Surabaya, Klampis Anom II/2, Surabaya East Java,  
INDONESIA**



This General Agreement for Collaboration is entered into as of 25 September 2019, and between **STIE Wilwatikta Surabaya**, located in **Surabaya**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **STIE Wilwatikta Surabaya** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.


## ARTICLE III: GENERAL TERMS

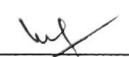
- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.


## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
Babbar Daulatpur, Bawana Road  
Delhi-110040  
Date:

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Drs. H. Bambang Supriyanto, M.M.  
Rector, STIE Wilwatikta Surabaya  
Date:



**GENERAL AGREEMENT FOR COLLABORATION**  
**By and Between**  
**Delhi Technological University, Bawana Road, Delhi, INDIA**  
**and**



**STIKI Malang, Jl. Raya Tidar No.100, Karangbesuki, Malang, East Java 65149, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **STIKI Malang**, located in **Malang**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

#### **ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

##### **General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **STIKI Malang** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

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- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
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- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

*25.9.2015*  
\_\_\_\_\_  
Registrar  
Prof. Samsher  
Delhi Technological University  
(Gurgaon University Delhi)  
Registrar, Delhi Technological University Delhi  
Date: *25.9.2015*  
Daulatpur, Bawana Road  
Delhi-110042

*Wp*  
\_\_\_\_\_  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

*Eva Handriyanti*  
\_\_\_\_\_  
Dr. Eva Handriyanti, S.Kom., M.MT  
Rector, STIKI Malang  
Date: \_\_\_\_\_





## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

and

**Sekolah Tinggi Teknik Malang (STTM), Jl. Soekarno Hatta No. 94, Malang East Java,  
INDONESIA**



This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Sekolah Tinggi Teknik Malang (STTM)**, located in **Malang**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
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- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Sekolah Tinggi Teknik Malang (STTM)** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.


## ARTICLE III: GENERAL TERMS


- 3.1. This Agreement encourages the exchange of students between the two Universities.
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- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.


## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

 25-9-19 Registrar  
Prof. Samsher, Delhi Technological University  
Registrar, Delhi Technological University, Delhi  
Date: 25-9-19, Bawana Road  
Delhi-110047

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Dr. Anas Firman Adi, SE, S.Kom, M.KPd  
Rector, Sekolah Tinggi Teknik Malang (STTM)  
Date:





**GENERAL AGREEMENT FOR COLLABORATION**  
**By and Between**  
**Delhi Technological University, Bawana Road, Delhi, INDIA**



and  
**Universitas Wisnuwardhana Malang, Jl.Terusan Danau Sentani No. 99, Malang East Java,**  
**INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Universitas Wisnuwardhana Malang**, located in **Malang**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1. Joint educational and research activities;
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- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Universitas Wisnuwardhana Malang** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
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- 2.3. Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

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IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

4/25/19  
Registrar  
Prof. Samsher  
Registrar, Delhi Technological University  
(Govt. of NCT of Delhi)  
b. 103 Daulatpur, Barua Road  
Date: Delhi, 1004

Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

Prof. Dr. Suko Wiyono, S.H., M.H.  
Rector, Universitas Wisnuwardhana Malang  
Date:





## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

and



**University of Kanjuruhan Malang, Jl. S. Supriadi No. 48, Malang 65148, East Java, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **University of Kanjuruhan Malang**, located in **Malang**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

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- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **University of Kanjuruhan Malang** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
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## ARTICLE III: GENERAL TERMS

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

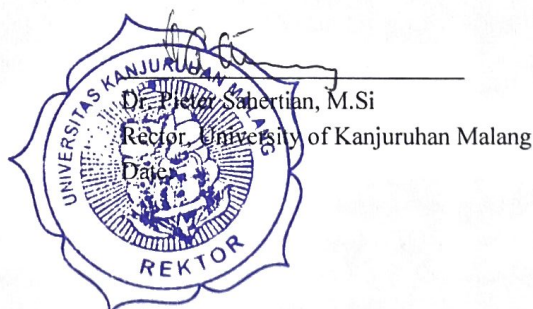
IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

25-9-19  
Prof. Samsher  
Registrar, Delhi Technological University Delhi  
Date: **Registrar**

**Delhi Technological University**  
(Govt. of NCT of Delhi)

Shabbir Daulatpur Bawan Road

Delhi  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi



**GENERAL AGREEMENT FOR  
COLLABORATION By and Between  
Delhi Technological University, Bawana Road, Delhi,  
INDIA And  
University of Pesantren Tinggi Darul 'Ulum (Unipdu), Jombang, Indonesia**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between Unipdu University, located in Jombang, Indonesia and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## **ARTICLE II: THE AGREEMENT**

- 2.1. At Delhi Technological University, this agreement will be administered by Unipdu and by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## **ARTICLE III: GENERAL TERMS**

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
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- 3.7. The MOU/Agreement can be amended or changed by mutual written consent.

## **ARTICLE IV: DURATION**

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

Sub 25-9-17  
\_\_\_\_\_  
Prof. Samsher  
Registrar, Delhi Technological University Delhi  
Date: **Registrar**  
**Delhi Technological University**  
**(Govt. of NCT of Delhi)**  
**(Formerly Delhi College of Engg.)**  
**Shahbad Daulatpur, Bawana Road,**  
**Delhi 110042**



Prof. Dr. H. Ahmad Zahro, MA  
\_\_\_\_\_  
Rector, Unipdu  
Date:

Sub 25-9-17  
\_\_\_\_\_  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

## **GENERAL AGREEMENT FOR COLLABORATION By and Between**

**Delhi Technological University, Bawana Road, Delhi, INDIA**

**And**

**Widya Kartika University, 1 Sutorejo Prima Utara II Street, Surabaya, INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Widya Kartika University**, located in **Surabaya**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### **ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### **General Areas of Collaboration**

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
- 1.3. Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.4. Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.5. Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.6. Exchange scholarly information including research papers, indices to thesis, books and magazines on relevant subjects and potential joint projects where possible and appropriate;

- 1.7. Extend invitations for attending scholarly meeting and national and international conferences;
- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## **ARTICLE II: THE AGREEMENT**

- 2.1. At Delhi Technological University, this agreement will be administered by **Widya Kartika University** and by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## **ARTICLE III: GENERAL TERMS**

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3. Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4. The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5. With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.

3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.

3.7. The MOU/Agreement can be amended or changed by mutual written consent.

#### ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of **five (5) years** and will be renewed automatically as long as neither institution gives notice of termination to the other 6 months prior to the end of the 5 years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.



*Sub 25/5/19*

Prof. Samsher

Registrar, Delhi Technological University Delhi

Date:

**Registrar**  
**Delhi Technological University**  
**(Govt. of NCT of Delhi)**  
**(Formerly Delhi College of Engg.)**  
**Shahbad Daulatpur, Bawana Road,**  
**Delhi-110042**



F. Priyo Suprobo, S.T., M.T.

Rector, Widya Kartika University

Date:

*Ver 25/09/19*

Prof. Vishal Verma

Dean (International Affairs)

Delhi Technological University, Delhi



## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road, Delhi, INDIA**

and

**Universitas PGRI Madiun, Jl. Setiabudi No.85, Madiun, East Java,  
INDONESIA**



This General Agreement for Collaboration is entered into as of 25 September 2019, and between **Universitas PGRI Madiun**, located in **Madiun**, Indonesia and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties here under based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1. Joint educational and research activities;
- 1.2. Team taught courses, including online courses;
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- 1.8. Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1. At Delhi Technological University, this agreement will be administered by **Universitas PGRI Madiun** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrative at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.


## ARTICLE III: GENERAL TERMS


- 3.1. This Agreement encourages the exchange of students between the two Universities.
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- 3.6. Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
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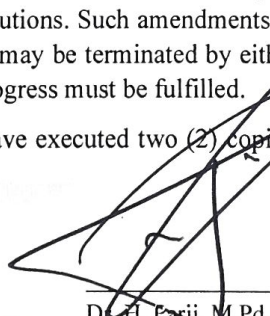
## ARTICLE IV: DURATION

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IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

 25-9-19 Registrar  
Prof. Samsher  
Registrar, Delhi Technological University (Delhi)  
Date: 25.9.2019 Daulatpur, Bawana Road  
Delhi-110042

  
Prof. Vishal Verma  
Dean (International Affairs)  
Delhi Technological University, Delhi

  
Dr. H. Farji, M.Pd.  
Rector, Universitas PGRI Madiun  
Date:



**GENERAL AGREEMENT FOR  
COLLABORATION By and Between  
Delhi Technological University, Bawana Road, Delhi,  
INDIA  
And**

**STT Atlas Nusantara Malang, Jl Teluk Pacitan No 14 Arjosari Malang East Java 65126,  
INDONESIA**

This General Agreement for Collaboration is entered into as of 25 September 2019, and between **STT Atlas Nusantara Malang**, located in **Malang**, Indonesia and Delhi Technological University, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

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- 1.9. Organizing activities jointly in social and cultural areas;
- 1.10. Promote cooperation with third organizations based on common interest, international education, research and other networks;

## **ARTICLE II: THE AGREEMENT**

- 2.1. At Delhi Technological University, this agreement will be administered by **STT Atlas Nusantara Malang** and by Delhi Technological University. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2. As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administration at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3. Neither institution is responsible for any financial support under this Agreement.

## **ARTICLE III: GENERAL TERMS**

- 3.1. This Agreement encourages the exchange of students between the two Universities.
- 3.2. This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
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*Samsher* 25/5/19

Prof. Samsher

Registrar, Delhi Technological University Delhi

Date:

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042



Eddy Prihatno, MT

Rector, STT Atlas Nusantara Malang

Date:

*Vishal Verma* 25/9/19

Prof. Vishal Verma

Dean (International Affairs)

Delhi Technological University, Delhi

# MEMORANDUM OF UNDERSTANDING

BETWEEN

DELHI TECHNOLOGICAL UNIVERSITY

AND

ADANI DEFENCE SYSTEMS & TECHNOLOGIES LIMITED

AND

FLAIRE UNMANNED SYSTEMS PRIVATE LIMITED

13 Sep 2019



16/9/19

Registrar

Delhi Technological University  
(Govt. of NCT of Delhi)

Shahbad Daulatpur, Bawana Road

For FLAIRE UNMANNED SYSTEMS PVT. LTD.

DIRECTOR

# MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter "MOU") is made and entered into on 12<sup>th</sup> of September, 2019 at Ahmedabad, by and between:

1. Adani Defence Systems & Technologies Limited, a company duly organized and existing under the laws of India and its registered office at Adani House, Near Mithakhali Six Roads, Navrangpura, Ahmedabad 380 009, (India). (hereinafter referred to as 'ADSTL' which expression shall include its successors and assigns)
2. Delhi Technological University, formerly known as the Delhi College of Engineering, a premier public university located in New Delhi, India and existing under the laws of India with its registered office located at Main Bawana Road, Shahbad, Daulatpur Village, Rohini, Delhi, 110042, (India). (hereinafter referred to as 'DTU' which expression shall include its successors and permitted assigns) represented by authorized signatory as nominated by the DTU.
3. Flaire Unmanned Systems Private Limited, a company duly organized and existing under the laws of India and is having its registered office at A 603, Garden Estate Apartment, Plot No. 5 B, Sector 22, Dwarka, Delhi 110075, (hereinafter referred to as 'FLAIRE', which expression shall include its successors and permitted assigns).

## RECITALS

- Whereas** 'ADSTL' is a wholly owned subsidiary of Adani Enterprises Limited. ADSTL is a potential contractor for design, development, manufacture, repair and overhaul of aerospace and defence platforms for the Indian Armed Forces as well as civil aviation markets which include but not limited to Unmanned Systems.
- Whereas** 'DTU' is one of India's premier institution in Engineering and Technology offering Under Graduate programs and Post Graduate programs in addition to MBA in its School of Management. The University has an illustrious history spanning over 71 years, its predecessor, Delhi College of Engineering, has been reconstituted as Delhi Technological University in July 2009 through Delhi Act 6 of 2009.
- Whereas** 'FLAIRE' is a company established with the objective of research, design, development, manufacturing and marketing of Unmanned Systems, including Unmanned Vehicles and related equipment.
- Whereas** 'ADSTL' and 'DTU' and 'FLAIRE' are desirous to undertake research pertaining to 'Unmanned Systems Technology' and to collaborate for participation in the 'Meher Baba Competition'.

ADSTL and DTU and FLAIRE hereinafter also referred to individually as "Party" or collectively as "Parties".

NOW, THEREFORE, in consideration of these premises and of the mutual

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Registrar  
Delhi Technological University  
vt. of NCT of Delhi  
Daulatpur, Bawana Road  
Delhi-110042

For FLAIRE UNMANNED SYSTEMS PVT. LTD.



DIRECTOR

covenants and conditions hereinafter set forth, the Parties hereby agree as follows:

**1. Purpose of MOU :**

- 1.1 Parties to jointly identify the potential areas of commercially and legally viable research and development (R&D) programs in the field of Unmanned Systems, including aerial systems, naval systems and ground systems, as agreed by Parties.
- 1.2 Execute research work for jointly identified projects funded by 'ADSTL' or 'FLAIRE' in the emerging fields of unmanned systems through 'DTU', which are duly approved by the board of 'ADSTL'
- 1.3 Understanding and developing further collaboration scope for programs as per business needs of 'ADSTL' or 'FLAIRE' :-
  - a. Indigenous development of scalable technologies which can be demonstrated using drone platforms for commercial purposes.
  - b. Design & Development of other Unmanned platforms (Unmanned Ground Vehicles /Unmanned Underwater Vehicles).
- 1.4 Exclusive relationship between the Parties for effective participation in 'Meher baba competition'.
- 1.5 Exclusive use of technologies / platforms / solutions developed by DTU in the unmanned segment, by 'FLAIRE'.
- 1.6 Commercialization of technologies/ platforms / solutions developed by a Party either individually or jointly with other Party(ies), in the field of unmanned systems by 'FLAIRE'.

**2. Mehar Baba Competition – Status**

'DTU' has participated in the Phase 1 and Phase 2 of 'Meher Baba Competition' and a total of five teams have qualified for 'Phase 3', including 'DTU' in collaboration with 'FLAIRE'. Based on the discussion between 1<sup>st</sup> August and 30<sup>th</sup> August 2019, 'DTU' has shared their competencies and capabilities to qualify and win in 'Meher Baba Competition'. Further, 'DTU' has shared an estimate of INR 2,50,00,000/- [Rupees Two Crores Fifty Lakhs only] [excluding duties and taxes] to build the required platforms and supporting infrastructure for successful participation in the Phase III event/trials scheduled in November 2019, held by Indian Air Force, for the 'Meher Baba Competition'.

'ADSTL' believes on the face value of the competencies and cost estimation given by 'DTU' for successful participation in 'Meher Baba Competition'. Additionally over and above the INR 2,50,00,000/- [Rupees Two Crores Fifty Lakhs only] mentioned above, 'ADSTL' has kept aside a contingency budget INR 50,00,000/- [Rupees Fifty Lakh only] to ensure a total investment of INR 3,00,00,000/- [Rupees Three Crore only] [excluding duties and taxes] for Mehar Baba Competition.

**3. Strategic Collaboration:**

Within 2 days of the execution of this MOU, the 'Steering Committee' shall be formed which will convene periodical meetings and the results of these meetings shall be recorded. The duties and tasks for each Party shall include the following:

- a. Evaluate the emerging trends in unmanned systems and provide thought leadership on implementable technological solutions that can be commercialized.
- b. Review the progress made on projects being executed and steer them towards the mutually agreed objectives.

**Registrar**

Delhi Technological University  
(Govt. of NCT of Delhi)  
Shabbad Daulpur, Barwan Road  
Delhi-110042

2

FOR FLAIRE UNMANNED SYSTEMS PVT. LTD.



*Karish*

DIRECTOR

*File*

- c. Establish collaboration model between 'Parties' for the projects. ('Meher Baba competition' will be the first of the series)
- d. The 'Steering Committee' shall appoint a 'Project Committee' & the 'Project Committee' shall be responsible for execution of any project.
- e. 'Steering Committee' will finalize the budget for Development & Testing regarding any mutually agreed projects and 'Project Committee' shall adhere to that budget.

#### 4. Roles & Responsibilities :

##### 4.1. Role of ADSTL:

###### Long Term:

- Interact with 'DTU' to identify focus areas and build a long term roadmap for research & development in Unmanned Systems segment.
- Sponsor programs for research at 'DTU' as per business needs of 'ADSTL', as approved by the 'ADSTL' Board of Directors.
- Engage in recruitment of suitable candidates from 'DTU' for 'ADSTL', aligned to the business needs.

###### For 'Meher Baba Competition':

- Support 'FLAIRE' through fund infusion/Investment upto INR 3,00,00,000/- (Rupees Three Crores only) [Excluding duties and taxes] for participating in 'Meher Baba Competition'.
- Provide program management and 'logistical support' for 'DTU' team to participate in the 'Meher Baba Competition' (costs included in above mentioned infusion/investment).
- Execute production order which arises as a result of winning 'Meher Baba Competition' through 'FLAIRE' or any other Adani Affiliate, if so needed.

##### 4.2. Role of 'DTU':

###### Long Term:

- Interact with relevant industry people to identify potential focus areas for research & development.
- Provide thought leadership in Unmanned system domain to select potential projects.
- Provide necessary technical support, infrastructure, expertise, resources on unmanned projects funded by 'ADSTL'.
- Any technology / platform / solution developed by 'DTU' in unmanned segment shall be available for exclusive use to 'FLAIRE', on mutually agreed terms and conditions.

###### For 'Meher Baba Competition':

- Provide necessary technical support, infrastructure, expertise, resources, and transfer know-how in execution of 'Meher Baba Competition' requirements.
- Transfer ownership of IP Rights which have been developed for 'Meher Baba Competition' from 'DTU' to 'FLAIRE', against the financial and logistical support provided by 'FLAIRE' to participate in Phase III of 'Meher Baba Competition'. This shall be irrespective of FLAIRE winning or losing the 'Meher Baba Competition'.
- DTU shall take the responsibility of development of two drones meeting the requirements of Phase III of 'Meher Baba Competition', by 01<sup>st</sup> November 2019 as its contribution in the Consortium.
- The project timelines for preparation towards Phase III of Meher Baba Competition, as provided by 'DTU' is placed in Annexure B. 'DTU' shall execute the project in a timely manner duly supported by FLAIRE / ADSTL.

- The Bill of Materials[BoM] required for Phase III of Mehar Baba Competition , as provided by DTU is placed as Annexure C. It is imperative that the program gets delivered within the specified BoM and within 5% variance of investment proposed i.e INR 3,00,00,000 /- [Rupees Three Crores Only]. Ensure 'Design, development and product readiness for Phase III of 'Mehar Baba Competition' as per the specification and project timelines.

#### 4.3. Role of 'FLAIRE'

##### Long Term:

- Exclusive manufacturing for designated unmanned technologies designed and developed by the party / 'parties'.
- Seek Mentorship of Chief Mentor, UAS-DTU for programs in the field of Unmanned Aerial Systems. Professor N S Raghava shall be the Chief Mentor to 'FLAIRE' for 'Mehar Baba Competition', the remuneration for which shall be determined as per the policies of Adani group.
- Engage in recruitment of suitable candidates from 'DTU' for 'FLAIRE' aligned to the business needs.

##### For 'Mehar Baba Competition':

- FLAIRE shall pay 2.0% of revenue earned from orders executed for Indian Air Force through 'Mehar Baba Competition' to 'DTU', for the support, knowledge transfer, documentation, designs, expertise provided to execute 'Mehar Baba Competition' and the subsequent follow-up order.

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- Projects executed by 'DTU', which were not funded by 'FLAIRE', the IPR shall reside exclusively with 'DTU'.
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#### 6. Equity Infusion into FLAIRE

- 6.1. Based on INR 3,00,00,000/- [Rupees Three Crores only] investment being done by ADSTL, it shall take 100% ownership of FLAIRE, by means of purchase of current shares.
- 6.2. FLAIRE shall reserve 15% of equity as vested ESOP to key personnel who contribute positively to help win 'Mehar Baba Competition' and play an active role in the long term to build capabilities in FLAIRE, it will be given out based on ADSTL 's discretion with due inputs from 'DTU'.
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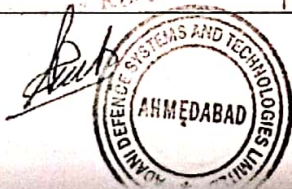
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(of NCT of Delhi)

For FLAIRE UNMANNED SYSTEMS PVT. LTD.



DIRECTOR

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#### 7. Representations and Warranties

- 7.1. Each Party represents and warrants that it has and shall maintain at all times, all consents, authorizations, licenses, permissions or approvals required for the performance of obligations herein.
- 7.2. Each Party represents that all the obligations hereunder shall be performed in a workmanlike manner and with professional diligence, skill and care, as is exercised by a professional firm with prudent and global standards as per generally accepted industry practices, for similar engagements.
- 7.3. Each Party represents and warrants that no actions, suits, proceedings, investigations, litigation, arbitration or administrative proceedings of any kind, in any court or before any arbitrator or any other governmental authority, are at present or pending against it/him or threatened, which has or could prevent it from complying with its/his obligations hereunder.
- 7.4. Each Party represents that none of the provisions of this MOU, nor the obligations to be performed hereunder by the Party, contravenes or is in conflict with any law, judgment, decree, order or regulation of any governmental authority, or with any contract or agreement with, or any obligations owed to, any other person, association, firm, corporation, government or other entity to which such Party is subject to.
- 7.5. Each Party represents and warrants that it shall not infringe any third party intellectual property rights while performing the obligations hereunder.

#### 8. Indemnity

DTU shall indemnify, defend and hold harmless ADSTL, FLAIRE, its officers, directors, employees, members, shareholders and representatives (the "Indemnified Party(ies)") promptly upon demand at any time and from time to time, from and against any and all claims or losses to which any Indemnified Party may become subject to, which in any way relate to, or result from:

- 8.1. a breach or negligent performance of any obligation or covenant under this MOU by DTU;
- 8.2. any negligence, misconduct or fraud whatsoever attributable to DTU;
- 8.3. any misrepresentation by DTU or any such representation and warranty being rendered inaccurate or false; any alleged or actual infringement of any third party's intellectual property rights, breach of confidentiality obligations;

Any claim that may arise from damage caused, by the Unmanned Systems Technology during the trials or the Competition, to any person or property will be dealt jointly by 'DTU' and 'FLAIRE'.

#### 9. Definitive Documents

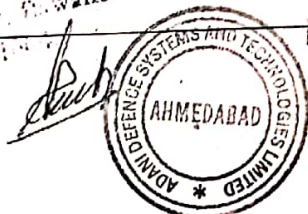
Pursuant to execution of this MoU and further discussions between the Parties, the Parties shall enter into definitive documents as may be required to give full effect to the understanding under this MoU, in accordance with applicable laws.

#### 10. Exclusivity

It is agreed and undertaken by DTU and FLAIRE that during the term of this MOU, the DTU and FLAIRE shall only deal exclusively with ADSTL and shall not enter into any other agreements with any other Person and shall not undertake any direct/indirect business or work relating to the purpose of this

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T. of NCT of Delhi  
Daulatpura, Gurgaon Road  
Delhi 110028



FOR FLAIRE UNMANNED SYSTEMS PVT. LTD.

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DIRECTOR

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MOU, except with the written permission of the ADSTL.

**11. Confidentiality :**

The Parties acknowledge that, in the course of their discussion under this MOU, it may be necessary for one Party to provide documentation, technical and business information, intellectual property, in whatever form recorded (collectively, 'Confidential Information'), to the other Party(ies). Confidential Information shall only be disclosed by the receiving Party to its officers, directors, employees and representatives who have a need to know such Confidential Information in connection with the performance of this MOU. All Confidential Information provided or disclosed by either Party hereunder shall remain as the property of the disclosing Party and shall not be disclosed to any third party unless such information is legally required by the law or the government authorities.

The content of this MoU shall during the term of this MoU for whatever reason be kept strictly confidential and not be disclosed to any third party without the prior written consent of the disclosing Party.

**12. Term and Termination.**

Unless the Parties agree otherwise, this MOU shall be effective from the date of the execution of the MOU and remain valid for a period of 120 (One hundred and twenty ) months, which may be mutually extended by the Parties. Both the parties shall have the right to terminate this Agreement by giving one (1) month's written notice.

In case DTU commits a breach of this MOU, breach of confidentiality obligations, infringement of IPR, commits fraud, misconduct, negligence, becomes insolvent, or makes an assignment for the benefit of its creditors, ADSTL shall reserve the right to terminate this MOU.

In case ADSTL commits a breach of this MOU, breach of confidentiality obligations, infringement of IPR, commits fraud, misconduct, negligence, becomes insolvent, or makes an assignment for the benefit of its creditors, DTU shall reserve the right to terminate this MOU.

**13. Amendment.**

No modification of the terms of this MOU shall be effective unless it is in writing and is agreed to and signed by duly authorised representatives of the Parties.

**14. Assignment.**

Neither Party shall assign this MOU or any of its rights, interests nor shall obligations hereunder without the prior written consent of the other Party and any assignment without such consent shall be void.

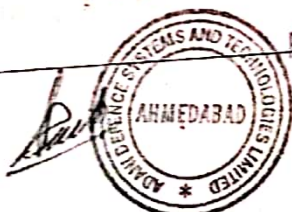
**15. Public Announcements**

No Party may make any public announcements and statements with respect to the arrangements contemplated under this MoU, without the written consent of the other Parties.

**16. Costs and Expenses**

16.1. ADSTL shall provide 'logistical support' for 'DTU' team to participate in Phase III of 'Mehar Baba Competition', the budget for which shall be formulated and agreed by 'Steering Committee'. The pre-approved expenses incurred by the team members for Phase III shall be claimed for reimbursement by submitting appropriate bills of expenditure.

16.2. The expenditure incurred by the team towards participation in



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*Karish*  
DIRECTOR

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Phase II for logistical arrangement shall be reimbursed by ADSTL to DTU up to maximum of Rs. 5,00,000/- (Rupees Five lakhs only), subject to submission of suitable proof of expenditures.

16.3. Any cost of operation within 'DTU' premises will be borne by 'DTU'

16.4. Logistical Support shall include Travel expenses (Train/Bus/dedicated vehicle) as deemed appropriate by the Steering Committee. It shall also include Lodging, Boarding and transportation support for transportation of Goods & Products for trials. Travel policies of Adani group shall be applicable. This is applicable for members participating from 'DTU' as approved by the 'Steering Committee'

#### 17. Binding Effect.

This MoU shall have binding effect on the Parties for entire scope of the document.

#### 18. Governing Law and Dispute Settlement.

This MOU shall be governed by and interpreted in accordance with the laws of India.

In the event a dispute arises in relation to or in connection with the MoU, or any clause hereof, the Parties shall attempt in the first instance to resolve such disputes through amicable discussions among Parties.

If the dispute is not resolved through such discussions within 7 (seven) days, the Parties may refer the dispute to arbitration.

The arbitration proceedings shall be held in New Delhi and the arbitration proceedings shall be conducted in English language. The arbitration shall be conducted by a sole arbitrator, mutually appointed by the Parties. The arbitration shall be conducted in accordance with Arbitration and Conciliation Act, 1996, as amended from time to time.

IN WITNESS WHEREOF, each of the Parties has caused this MOU to be signed by its duly authorized representative as of the date first above written.

For and on behalf of 'ADSTL'	Witness for and behalf of 'ADSTL'
------------------------------	-----------------------------------

[Signature]

[Signature]

[Name] MADHAN KUMAR K.

[Name] SAURODEEP BOSE

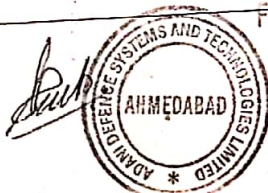
[Title] SENIOR MANAGER

[Title] Asst Manager

[Place/Date] DELHI, 13 Sep 19.

[Place/Date] DELHI, 13 Sep 2019

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FOR FLAIRE UNMANNED SYSTEMS PVT. LTD.

[Signature]

DIRECTOR

[Signature]

For and on behalf of 'DTU'

Witness for and behalf of 'DTU'

*[Signature]*  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
Shahbad Daulatpur, Rowana Road  
Delhi-110041

[Name] Prof. Samsher

[Title] Registrar

[Place/Date] D.T.U. / 16.9.19

*[Signature]*

[Name] PROF. N. S. RAGHAVA

[Title] HEAD OF THE DEPARTMENT  
ELECTRONICS & COMMUNICATION  
DEPT., DTU

[Place/Date] 16.09.19

For and on behalf of 'FLAIRE'

Witness for and behalf of 'FLAIRE'

*[Signature]*  
DIRECTOR

[Name] HARSH PANWAR

[Title] Director

[Place/Date] Delhi / 13/sept/2019

*[Signature]*

[Name] PRANJAL SMIVA

[Title] DIRECTOR

[Place/Date] Delhi,



For FLAIRE UNMANNED SYSTEMS PVT. LTD.

*[Signature]*

DIRECTOR

*[Signature]*

# MEMORANDUM OF UNDERSTANDING

BETWEEN

DELHI TECHNOLOGICAL UNIVERSITY

AND

ADANI DEFENCE SYSTEMS & TECHNOLOGIES LIMITED

AND

FLAIRE UNMANNED SYSTEMS PRIVATE LIMITED

13 Sep 2019



16/9/19

Registrar

Delhi Technological University  
(Govt. of NCT of Delhi)

Shahbad Daulatpur, Bawana Road

For FLAIRE UNMANNED SYSTEMS PVT. LTD.

DIRECTOR

# MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter "MOU") is made and entered into on 12<sup>th</sup> of September, 2019 at Ahmedabad, by and between:

1. Adani Defence Systems & Technologies Limited, a company duly organized and existing under the laws of India and its registered office at Adani House, Near Mithakhali Six Roads, Navrangpura, Ahmedabad 380 009, (India). (hereinafter referred to as 'ADSTL' which expression shall include its successors and assigns)
2. Delhi Technological University, formerly known as the Delhi College of Engineering, a premier public university located in New Delhi, India and existing under the laws of India with its registered office located at Main Bawana Road, Shahbad, Daulatpur Village, Rohini, Delhi, 110042, (India). (hereinafter referred to as 'DTU' which expression shall include its successors and permitted assigns) represented by authorized signatory as nominated by the DTU.
3. Flaire Unmanned Systems Private Limited, a company duly organized and existing under the laws of India and is having its registered office at A 603, Garden Estate Apartment, Plot No. 5 B, Sector 22, Dwarka, Delhi 110075, (hereinafter referred to as 'FLAIRE', which expression shall include its successors and permitted assigns).

## RECITALS

- Whereas** 'ADSTL' is a wholly owned subsidiary of Adani Enterprises Limited. ADSTL is a potential contractor for design, development, manufacture, repair and overhaul of aerospace and defence platforms for the Indian Armed Forces as well as civil aviation markets which include but not limited to Unmanned Systems.
- Whereas** 'DTU' is one of India's premier institution in Engineering and Technology offering Under Graduate programs and Post Graduate programs in addition to MBA in its School of Management. The University has an illustrious history spanning over 71 years, its predecessor, Delhi College of Engineering, has been reconstituted as Delhi Technological University in July 2009 through Delhi Act 6 of 2009.
- Whereas** 'FLAIRE' is a company established with the objective of research, design, development, manufacturing and marketing of Unmanned Systems, including Unmanned Vehicles and related equipment.
- Whereas** 'ADSTL' and 'DTU' and 'FLAIRE' are desirous to undertake research pertaining to 'Unmanned Systems Technology' and to collaborate for participation in the 'Meher Baba Competition'.

ADSTL and DTU and FLAIRE hereinafter also referred to individually as "Party" or collectively as "Parties".

NOW, THEREFORE, in consideration of these premises and of the mutual

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Registrar  
Delhi Technological University  
vt. of NCT of Delhi  
Daulatpur, Bawana Road  
Delhi-110042

For FLAIRE UNMANNED SYSTEMS PVT. LTD.



DIRECTOR

covenants and conditions hereinafter set forth, the Parties hereby agree as follows:

**1. Purpose of MOU :**

- 1.1 Parties to jointly identify the potential areas of commercially and legally viable research and development (R&D) programs in the field of Unmanned Systems, including aerial systems, naval systems and ground systems, as agreed by Parties.
- 1.2 Execute research work for jointly identified projects funded by 'ADSTL' or 'FLAIRE' in the emerging fields of unmanned systems through 'DTU', which are duly approved by the board of 'ADSTL'
- 1.3 Understanding and developing further collaboration scope for programs as per business needs of 'ADSTL' or 'FLAIRE' :-
  - a. Indigenous development of scalable technologies which can be demonstrated using drone platforms for commercial purposes.
  - b. Design & Development of other Unmanned platforms (Unmanned Ground Vehicles /Unmanned Underwater Vehicles).
- 1.4 Exclusive relationship between the Parties for effective participation in 'Meher baba competition'.
- 1.5 Exclusive use of technologies / platforms / solutions developed by DTU in the unmanned segment, by 'FLAIRE'.
- 1.6 Commercialization of technologies/ platforms / solutions developed by a Party either individually or jointly with other Party(ies), in the field of unmanned systems by 'FLAIRE'.

**2. Mehar Baba Competition – Status**

'DTU' has participated in the Phase 1 and Phase 2 of 'Meher Baba Competition' and a total of five teams have qualified for 'Phase 3', including 'DTU' in collaboration with 'FLAIRE'. Based on the discussion between 1<sup>st</sup> August and 30<sup>th</sup> August 2019, 'DTU' has shared their competencies and capabilities to qualify and win in 'Meher Baba Competition'. Further, 'DTU' has shared an estimate of INR 2,50,00,000/- [Rupees Two Crores Fifty Lakhs only] [excluding duties and taxes] to build the required platforms and supporting infrastructure for successful participation in the Phase III event/trials scheduled in November 2019, held by Indian Air Force, for the 'Meher Baba Competition'.

'ADSTL' believes on the face value of the competencies and cost estimation given by 'DTU' for successful participation in 'Meher Baba Competition'. Additionally over and above the INR 2,50,00,000/- [Rupees Two Crores Fifty Lakhs only] mentioned above, 'ADSTL' has kept aside a contingency budget INR 50,00,000/- [Rupees Fifty Lakh only] to ensure a total investment of INR 3,00,00,000/- [Rupees Three Crore only] [excluding duties and taxes] for Mehar Baba Competition.

**3. Strategic Collaboration:**

Within 2 days of the execution of this MOU, the 'Steering Committee' shall be formed which will convene periodical meetings and the results of these meetings shall be recorded. The duties and tasks for each Party shall include the following:

- a. Evaluate the emerging trends in unmanned systems and provide thought leadership on implementable technological solutions that can be commercialized.
- b. Review the progress made on projects being executed and steer them towards the mutually agreed objectives.

**Registrar**

Delhi Technological University  
(Govt. of NCT of Delhi)  
Shabbad Daulpur, Barwan Road  
Delhi-110042

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DIRECTOR

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- c. Establish collaboration model between 'Parties' for the projects. ('Meher Baba competition' will be the first of the series)
- d. The 'Steering Committee' shall appoint a 'Project Committee' & the 'Project Committee' shall be responsible for execution of any project.
- e. 'Steering Committee' will finalize the budget for Development & Testing regarding any mutually agreed projects and 'Project Committee' shall adhere to that budget.

#### 4. Roles & Responsibilities :

##### 4.1. Role of ADSTL:

###### Long Term:

- Interact with 'DTU' to identify focus areas and build a long term roadmap for research & development in Unmanned Systems segment.
- Sponsor programs for research at 'DTU' as per business needs of 'ADSTL', as approved by the 'ADSTL' Board of Directors.
- Engage in recruitment of suitable candidates from 'DTU' for 'ADSTL', aligned to the business needs.

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*Karsh*

*Jilini*

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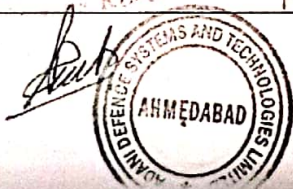
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- 7.3. Each Party represents and warrants that no actions, suits, proceedings, investigations, litigation, arbitration or administrative proceedings of any kind, in any court or before any arbitrator or any other governmental authority, are at present or pending against it/him or threatened, which has or could prevent it from complying with its/his obligations hereunder.
- 7.4. Each Party represents that none of the provisions of this MOU, nor the obligations to be performed hereunder by the Party, contravenes or is in conflict with any law, judgment, decree, order or regulation of any governmental authority, or with any contract or agreement with, or any obligations owed to, any other person, association, firm, corporation, government or other entity to which such Party is subject to.
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DIRECTOR

*Archi*

MOU, except with the written permission of the ADSTL.

**11. Confidentiality :**

The Parties acknowledge that, in the course of their discussion under this MOU, it may be necessary for one Party to provide documentation, technical and business information, intellectual property, in whatever form recorded (collectively, 'Confidential Information'), to the other Party(ies). Confidential Information shall only be disclosed by the receiving Party to its officers, directors, employees and representatives who have a need to know such Confidential Information in connection with the performance of this MOU. All Confidential Information provided or disclosed by either Party hereunder shall remain as the property of the disclosing Party and shall not be disclosed to any third party unless such information is legally required by the law or the government authorities.

The content of this MoU shall during the term of this MoU for whatever reason be kept strictly confidential and not be disclosed to any third party without the prior written consent of the disclosing Party.

**12. Term and Termination.**

Unless the Parties agree otherwise, this MOU shall be effective from the date of the execution of the MOU and remain valid for a period of 120 (One hundred and twenty ) months, which may be mutually extended by the Parties. Both the parties shall have the right to terminate this Agreement by giving one (1) month's written notice.

In case DTU commits a breach of this MOU, breach of confidentiality obligations, infringement of IPR, commits fraud, misconduct, negligence, becomes insolvent, or makes an assignment for the benefit of its creditors, ADSTL shall reserve the right to terminate this MOU.

In case ADSTL commits a breach of this MOU, breach of confidentiality obligations, infringement of IPR, commits fraud, misconduct, negligence, becomes insolvent, or makes an assignment for the benefit of its creditors, DTU shall reserve the right to terminate this MOU.

**13. Amendment.**

No modification of the terms of this MOU shall be effective unless it is in writing and is agreed to and signed by duly authorised representatives of the Parties.

**14. Assignment.**

Neither Party shall assign this MOU or any of its rights, interests nor shall obligations hereunder without the prior written consent of the other Party and any assignment without such consent shall be void.

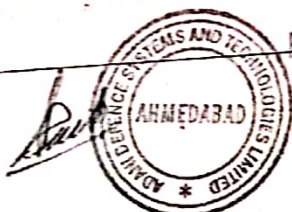
**15. Public Announcements**

No Party may make any public announcements and statements with respect to the arrangements contemplated under this MoU, without the written consent of the other Parties.

**16. Costs and Expenses**

16.1. ADSTL shall provide 'logistical support' for 'DTU' team to participate in Phase III of 'Mehar Baba Competition', the budget for which shall be formulated and agreed by 'Steering Committee'. The pre-approved expenses incurred by the team members for Phase III shall be claimed for reimbursement by submitting appropriate bills of expenditure.

16.2. The expenditure incurred by the team towards participation in



For FLAIRE UNMANNED SYSTEMS PVT. LTD.

*Karish*  
DIRECTOR

*Adhish*

Phase II for logistical arrangement shall be reimbursed by ADSTL to DTU up to maximum of Rs. 5,00,000/- (Rupees Five lakhs only), subject to submission of suitable proof of expenditures.

16.3. Any cost of operation within 'DTU' premises will be borne by 'DTU'

16.4. Logistical Support shall include Travel expenses (Train/Bus/dedicated vehicle) as deemed appropriate by the Steering Committee. It shall also include Lodging, Boarding and transportation support for transportation of Goods & Products for trials. Travel policies of Adani group shall be applicable. This is applicable for members participating from 'DTU' as approved by the 'Steering Committee'

#### 17. Binding Effect.

This MoU shall have binding effect on the Parties for entire scope of the document.

#### 18. Governing Law and Dispute Settlement.

This MOU shall be governed by and interpreted in accordance with the laws of India.

In the event a dispute arises in relation to or in connection with the MoU, or any clause hereof, the Parties shall attempt in the first instance to resolve such disputes through amicable discussions among Parties.

If the dispute is not resolved through such discussions within 7 (seven) days, the Parties may refer the dispute to arbitration.

The arbitration proceedings shall be held in New Delhi and the arbitration proceedings shall be conducted in English language. The arbitration shall be conducted by a sole arbitrator, mutually appointed by the Parties. The arbitration shall be conducted in accordance with Arbitration and Conciliation Act, 1996, as amended from time to time.

IN WITNESS WHEREOF, each of the Parties has caused this MOU to be signed by its duly authorized representative as of the date first above written.

For and on behalf of 'ADSTL'	Witness for and behalf of 'ADSTL'
------------------------------	-----------------------------------

[Signature]

[Signature]

[Name] MADHAN KUMAR K.

[Name] SAURODEEP BOSE

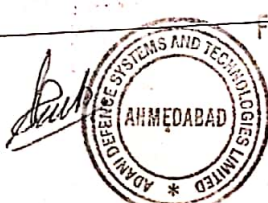
[Title] SENIOR MANAGER

[Title] Asst Manager

[Place/Date] DELHI, 13 Sep 19.

[Place/Date] DELHI, 13 Sep 2019

7



FOR FLAIRE UNMANNED SYSTEMS PVT. LTD.

[Signature]

DIRECTOR

[Signature]

For and on behalf of 'DTU'

Witness for and behalf of 'DTU'

*[Signature]*  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
Shahbad Daulatpur, Rowana Road  
Delhi-110041

[Name] Prof. Samsher

[Title] Registrar

[Place/Date] D.T.U./16.9.19

*[Signature]*

[Name] PROF. N. S. RAGHAVA

[Title] HEAD OF THE DEPARTMENT  
ELECTRONICS & COMMUNICATION  
DEPT., DTU

[Place/Date] 16.09.19

For and on behalf of 'FLAIRE'

Witness for and behalf of 'FLAIRE'

*[Signature]*  
DIRECTOR

[Name] HARSH PANWAR

[Title] Director

[Place/Date] Delhi/13/sept/2019

*[Signature]*

[Name] PRANJAL SMIVA

[Title] DIRECTOR

[Place/Date] Delhi,



For FLAIRE UNMANNED SYSTEMS PVT. LTD.

*[Signature]*

DIRECTOR

*[Signature]*



## GENERAL AGREEMENT FOR COLLABORATION

By and Between

**Delhi Technological University, Bawana Road,  
Delhi, INDIA**

and

**EPF, ÉCOLE D' INGÉNIEUR – E – S**

**Sceaux/ Troyes/ Montpellier**

**3 bis Rue Lakanal, 92330 Sceaux, France**



This General Agreement for Collaboration is entered into as of 18.02.2019 (the "Effective Date"), by and between EPF, ÉCOLE D' INGÉNIEUR–E–S, a Graduate School of Engineering, located in 3 bis Rue Lakanal, 92330 Sceaux, France and **Delhi Technological University**, located in New Delhi, India.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

### ARTICLE I: SCOPE OF THE COLLABORATION

The purpose of this Agreement is to facilitate academic and research cooperation between the parties hereunder based upon the principles of mutual benefit and may include the following general cooperation areas:

#### General Areas of Collaboration

- 1.1 Joint educational and research activities;
- 1.2 Joint degree programs;
- 1.3 Team taught courses, including online courses;
- 1.4 Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of such accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.5 Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.6 Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.7 Exchange scholarly information including research papers, indices to theses, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.8 Extend invitations for attending scholarly meeting and national and international conferences;
- 1.9 Organizing joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.10 Organizing activities jointly in social and cultural areas;
- 1.11 Promote cooperation with third organizations based on common interest, international education, research and other networks;

## ARTICLE II: THE AGREEMENT

- 2.1 At Delhi, India this agreement will be administered by **EPF, ÉCOLE D' INGÉNIEUR - E - S** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement).
- 2.2 As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s) including but not limited to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3 Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

- 3.1 This Agreement encourages the exchange of **2 students per semester** between the two Universities.
- 3.2 This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3 Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4 The activities of this Agreement must be carries out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5 With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6 Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7 The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of five (5) years and will be renewed automatically as long as neither institution gives notice of termination to the other 6 month prior to the end of the 5 year term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.

IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

Prof. Vishal Verma  
Dean International Affairs  
Delhi Technological University, Delhi

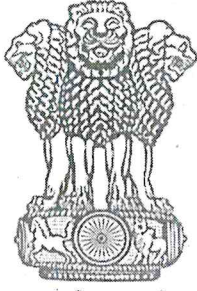


Prof. Samsher  
Registrar, Delhi Technological University Delhi

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daultpur, Bawana Road,  
Delhi-110042

Mr. Jean - Michel NICOLLE  
Directeur Général  
EPF, ÉCOLE D' INGÉNIEUR-E-S, Sceaux, France

18/02/19



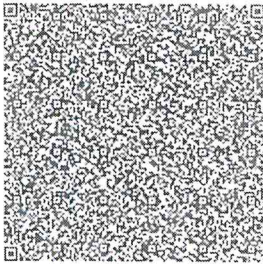
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## INDIA NON JUDICIAL

### Government of National Capital Territory of Delhi

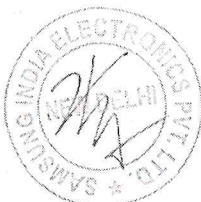
#### e-Stamp

Certificate No.	: IN-DL36890637126108Q
Certificate Issued Date	: 11-Jun-2018 03:56 PM
Account Reference	: IMPACC (IV)/ dl776103/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL77610377391343302210Q
Purchased by	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Second Party	: Not Applicable
Stamp Duty Paid By	: SAMSUNG INDIA ELECTRONICS PRIVATE LIMITED
Stamp Duty Amount(Rs.)	: 50 (Fifty only)



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

**This e-stamp is an integral part of Memorandum of Understanding and is entered on this 17<sup>th</sup> January, 2019 by and between M/s. Samsung India Electronics Private Limited and Delhi Technological University**



*[Signature]*

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Rawana Road,  
Delhi-110042

#### Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.delhi-stamp.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.

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is entered into on this 17<sup>th</sup> day of January, 2019

by and between

**Delhi Technological University**, an academic institute which was established as Delhi Polytechnic in 1941 having its main campus and administrative office at Delhi, India, through its authorized signatory, **Prof. Samsher, Registrar, Delhi Technological University (DTU)** (herein referred to as "DTU") as the party of the First Part

and

**M/s. Samsung India Electronics Private Limited**, a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at 6<sup>th</sup> Floor, DLF Centre, Sansad Marg, New Delhi – 110001, for its Mobile Research & Development Division – Noida ("SRI-Noida") through its authorized signatory, **Mr. Youngbae Kim (CFO - Research & Development Division, Noida)** (hereinafter referred to as "SIEL") the party of the Second Part

Hereinafter, SIEL and DTU shall singularly be referred to as 'Party' and collectively as 'Parties'.

### Background

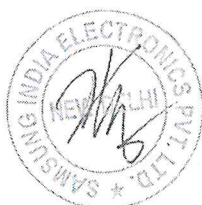
Samsung Group is a South Korean multinational conglomerate company headquartered in Samsung Town, Seoul. Samsung was founded by Lee Byung-chul in 1938 as a trading company which has now diversified into various services like Advertising, construction, entertainment, financial services, hospitality, information and communications technology services, medical services & retail.


Samsung Electronics is the flagship subsidiary of the Samsung Group and has been the world's largest information technology company. In recent years, the company has diversified into consumer electronics. It is the world's largest manufacturer of mobile phones and smartphones fueled by the popularity of its Samsung Galaxy line of devices. The company is also a major vendor of tablet computers, particularly its Android-powered Samsung Galaxy Tab collection, and is generally regarded as pioneering the phablet market through the Samsung Galaxy Note family of devices.

Samsung's emphasis on Innovation and Research & Development is essential to its business. In order to inculcate a culture of global as well as local innovation, Samsung has a number of R&D centres strategically spread across the globe. India is amongst the hotspots of Samsung's innovation strategy. As a result of that, there are as many as three R&D Centers in India: Samsung Research Institutes in Bangalore, Delhi, and Noida.

Samsung has established SRI-Noida in 2007 in India with a firm belief towards success and realistic goals. SRI-Noida has transformed itself into one of the most competitive and proficient R&D centers of Samsung worldwide.

SRI-Noida is involved in the mobile commercialization for almost all regions. SRI-Noida is leveraging best synergy efforts as R&D, Advanced Project Development, Idea Incubations, QA & Internal Testing team work under the same roof. SRI-Noida has become one of the major centres of Mobile OS Upgrade Development besides focusing on advanced technologies like Big Data, Artificial Intelligence, Mobile Healthcare and Mobile Security.



  
Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

## 1. OBJECTIVES OF THE MOU

- A) Samsung strongly believes in strengthening the industry academia partnership. With this in mind SRI-Noida has been working on several collaboration projects with different prestigious universities. Besides running projects, Samsung is also in the process of setting up innovation labs at the universities. These labs are generally utilized by the faculties and scholars of the institutes for execution of their research projects.
- B) In order to strengthen its association with DTU and to work with the prestigious institution, SIEL seeks support for academic collaboration by way of setting up an innovation lab at DTU campus and conducting various activities like joint research by DTU & SIEL, technical talks & industry expert lectures/demonstrations, minor/major student projects & student technical contests at DTU subject to the consent of the concerned faculty and the department in this regard. Such request will be processed on a case by case basis as per DTU norms and mutual understanding with SIEL.
- C) SIEL will support/involvement in running industry oriented research works with DTU faculties and students as agreeable to DTU keeping in forefront the interest of the faculties and students.
- D) For experimentation/projects involved in their curriculum and in line with SIEL work, SIEL shall provide equipment to DTU on non-returnable basis for the Samsung innovation lab, details whereof, are mentioned in Annexure-A of this MOU with the mutual understanding that DTU hands over such Equipment to the point of contact / Faculty in DTU (academic coordinator) for space / laboratory identification, installation, deployment for usage on terms agreed between Parties and upkeep / maintenance.

## 2. SCOPE OF COLLABORATION

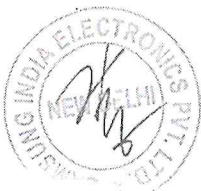
### A) The scope of the MOU will include the following activities by Parties:

#### (a) DTU

- i) DTU will provide space to setup the required laboratory, which will be used for research projects at DTU. A list of Equipment is provided in Annexure-A of this MOU. Both Parties agree that on a written demand by SIEL and only after DTU would have actually received physical possession of the Equipment as mentioned in Annexure-A, DTU will confirm in writing that the Equipment as mentioned in Annexure-A have been received by them and are being used as per terms of this MOU.
- ii) The equipment / laboratory could be utilized by UG/PG students for their projects or research activities based on SIEL problem statements / challenges (endorsed / accepted by academic coordinator) or practical assignments of DTU students, students of Delhi-NCR's other Technological Institutes, and for sponsored research project from SIEL and industry course practicals, if any.

#### (b) SIEL

- i) SIEL to provide workshops, internship, trainings, project suggestions, guest lectures or to run events like hackathons, code-a-thons, to the faculties and students of DTU after approval from DTU



*gph*

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

- ii) SIEL to offer sponsored research projects to the faculties as per the requirement from the SEIL
- iii) SIEL to provide and install equipment at the designated lab space for the laboratory course identified at DTU.

From DTU

- 1) Head, Dept. of Computer Science and Engineering (Prof.(Dr.) Rajni Jindal)
- 2) Ms. Divyashikha Sethia
- 3) Ms. Minni Jain

From SIEL

- 1) Dr. Seounghoon Oh, MD, SRI-Noida
- 2) Mr. Youngbae Kim, CFO, SRI-Noida
- 3) Mr. Wonseok Yang, Vice President, SRI-Noida
- 4) Mr. Naresh Kumar Gupta, Vice President, SRI-Noida

### 3. NON-EXCLUSIVITY

The relationship of the Parties under this MOU shall be non-exclusive and both Parties including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind with any third party.

### 4. CONFIDENTIALITY

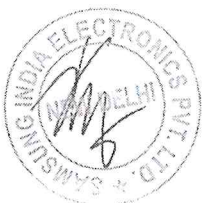
- A) The Parties shall not divulge (including displaying or duplicating) any materials or information received from the other party to any outside party except for the sole usage as outlined in the scope of activities stipulated in the MOU. This precludes any information already available in the public domain.
- B) Both the Parties agree not to publish any press release concerning joint activities without prior consent and agreement of each party as to the content of such a document.

### 5. PROPERTY RIGHTS

All applications with regard to any patent or intellectual property right developed/invented or created by DTU solely or in collaboration with any employee or intern of SIEL using the ideas/concepts either written or oral given by SIEL, shall be made jointly by SIEL or its parent company or any other Samsung entity as mentioned herein above and DTU in Indian Patent Office or abroad as applicable and the application in the Patent Office shall be filed by SIEL and also all the related expenses shall be borne by SIEL.

However, only SIEL will have exclusive right to use the created Intellectual Property for Commercialization purpose. DTU will have right to use the created Intellectual Property only for further research and development, academic and teaching purposes and for no other purpose whatsoever, after the filing of the created Intellectual Property in the appropriate Patent Office.

For the sake of clarity and avoidance of doubt, the Term "Commercialization" for the purpose of this MOU shall have the following meaning:



*Signature*

Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Badli Road,  
Delhi-110042

"The term Commercialization shall mean and include but will not limit to, a process by which a new product or service, under the MoU shall be introduced in the general market. It shall also include research, production, distribution, marketing, sales and customer support required to achieve commercial success/profitability in respect to such new product or services".

## 6. TERMS AND TERMINATION

The MOU shall come into force from the date of signing this MOU (Effective Date) and will remain valid for a period of 3 years (reckoned from Effective Date). The validity can be extended thereafter by mutual agreement in writing signed by both the Parties with or without any change in the terms. SIEL or DTU, at any time during the term of this MOU may terminate this MOU by giving thirty (30) days' notice to the other Party of their intention to do so. However, such termination shall not be effective till the time a particular on-going course at that time, is completed. Subject to above, both the Parties agree that the terms of Clause No-5 of this MOU shall survive, irrespective of the MOU being in full force or effect or it being terminated, by efflux of time or as mentioned in this Clause No-6.

## 7. AMENDMENTS

If there is a need, the Parties may agree to amend the terms and conditions of this MOU in writing so as to reflect such a need.

## 8. DISPUTE RESOLUTION

Any difference arising out of or in connection with this MOU which cannot be mutually resolved amicably within the first 30 (thirty) days shall be referred for resolution to the signatories to this MOU within the next 30 days for a just decision.

## 9. GOVERNING LAWS

This MOU shall be governed and construed in accordance with the laws of India, and Courts of New Delhi shall have exclusive jurisdiction to decide any dispute arising out of this MOU.

In witness whereof the Parties have executed this MOU on this 21<sup>st</sup> day of January, 2019 "Effective Date".

For M/s. Samsung India Electronics Pvt. Ltd.	For Delhi Technological University
	Registrar Delhi Technological University (Govt. of NCT of Delhi) (Formerly Delhi College of Engg.) Shahbad Daulatpur, Bawana Road, Delhi-110042
Mr. Youngbae Kim CFO (Mobile Research & Development Division-Noida)	Prof Samsher Registrar, DTU

Witness:

I. \_\_\_\_\_

I.  \_\_\_\_\_

## ANNEXURE-A

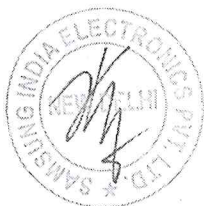
List of equipment for the identified research projects to be placed at designated Samsung Innovation Lab, at DTU. The list is for benchmarking purposes, and need not reflect the exact specifications of the deliverables. Samsung would undertake the responsibility of Lab Renovation in an existing infrastructure, as per its standards.

S. No.	Category	Item/Domain	Details
1	Smart Campus	Digital Signage	Video Wall (LFD for Video Wall (3x3) (UD55A))
			MII-Premium License
			Set Back Box
2	Service Costs		Lab Infrastructure. Installation Cost for installing the VideoWall, Misc. Expenditure (Shipping and Custom Duties)
3	Lab Renovation	Infrastructure	Lab Renovation as per Samsung Standards
4	Devices required for Projects	Health, AI, Security	Dell PCs (Intel Core i7/i5, 8/4GB, 1TB, Win 10 Pro) Desktop, EMOTIV devices, EEG Cap, ES wristband, NEULOG Devices, My Signals, Mobile Tablets, Dex Devices

**Note:**

The above mentioned devices are part of Super-Set list, required for Lab setups at DTU.

A sub-set of devices can be obtained from the above mentioned device list after discussion with faculty and inspection of lab requirements at DTU.



Registrar  
Delhi Technological University  
(Govt. of NCT of Delhi)  
(Formerly Delhi College of Engg.)  
Shahbad Daulatpur, Bawana Road,  
Delhi-110042

11/c

**GENERAL AGREEMENT FOR COLLABORATION**  
**By and Between**  
**Delhi Technological University, Bawana Road, Delhi, INDIA**  
**And**  
**Technical University of Crete, Chania, Crete, GREECE**

This General Agreement for Collaboration is entered into as of **January 10, 2019** (the "Effective Date"), by and between **Technical University of Crete**, a public research University located in **Chania, Crete, Greece**, and **Delhi Technological University**, located in **New Delhi, India**.

RECOGNIZING the mutual interest in the fields of education, research, training and development and dissemination of knowledge and also

RECOGNIZING the importance of institutions of higher education's role in promoting international collaboration

THE PARTIES HEREBY agree to establish collaboration according to terms and conditions set out in the articles following hereunder.

**ARTICLE I: SCOPE OF THE COLLABORATION**

The purpose of this Agreement is to facilitate academic and research cooperation between the parties hereunder based upon the principles of mutual benefit and may include the following general cooperation areas:

**General Areas of Collaboration**

- 1.1 Joint educational and research activities;
- 1.2 Joint postgraduate degree programs;
- 1.3 Team-taught courses, including online courses;
- 1.4 Exchange of visiting scholars for the purpose of conducting research. The individual visitors will be responsible for the cost of their accommodation and for their own travel costs. If visiting scholars register in academic course(s) they will be required to pay the normal tuition fees to the host institution;
- 1.5 Discussion for the exchange of undergraduate and graduate students for collaborative or independent research based on the policies of both institutions;
- 1.6 Placement of students in paid internships and co-ops, when possible through placements by the host university, providing they meet the legal criteria of the host country;
- 1.7 Exchange of scholarly information, including research papers, indices to theses, books and magazines on relevant subjects and potential joint projects where possible and appropriate;
- 1.8 Extended invitations for attending scholarly meeting and national and international conferences;
- 1.9 Organization of joint Seminars/Conferences/Workshops/Symposiums etc. in the two countries;
- 1.10 Organization of activities jointly in social and cultural areas;
- 1.11 Promotion of cooperation with third organizations based on common interest, international education, research and other networks;



*Signature*



## ARTICLE II: THE AGREEMENT

- 2.1 This agreement will be administered by **Technical University of Crete** and by **Delhi Technological University**. (This Agreement may also involve other colleges or institutes by mutual consent, which may be added later by written addendum to this Agreement.
- 2.2 As specific projects in education or research are developed, each will require a separate written agreement which will set forth the terms and conditions of the project(s), including, but not limited, to intellectual property ownership and funding sources. These agreements must be approved and signed by appropriate administrate at each institution. This Memorandum of Understanding (MOU) is the basis for specific agreements.
- 2.3 Neither institution is responsible for any financial support under this Agreement.

## ARTICLE III: GENERAL TERMS

- 3.1 This Agreement encourages the exchange of students between the two Universities.
- 3.2 This Agreement is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.
- 3.3 Nothing in this Agreement obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the parties.
- 3.4 The activities of this Agreement must be carried out in accordance with appropriate laws and regulations existing in each country and institution.
- 3.5 With regard to intellectual property, each institution will adhere to the intellectual property laws of its respective nation. Intellectual property developed during the visit of a faculty or student visitor will be governed by the rules of the host institution, unless otherwise specified by an alternate agreement. In general, the two institutions shall jointly own jointly developed intellectual property resulting from clearly defined collaborative projects. Whenever one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary steps will be taken to protect the intellectual property received, to the extent permissible by law.
- 3.6 Both the Universities may not use the name, logo or trademarks of the other University/Institution and shall also not use the reference of employees, agents, or affiliates, in any advertising, promotional or sales literature, or other publicity, public announcement or suggestion of endorsement without the prior written approval of the other partner.
- 3.7 The MOU/Agreement can be amended or changed by mutual written consent.

## ARTICLE IV: DURATION

This Agreement may be modified only by mutual written consent. The Agreement will be in effect from the Effective Date for a period of **five (5) years** and will be renewed automatically as long as neither institution gives notice of termination to the other six (6) months prior to the end of the five years term. This agreement will be amended by the exchange of letters between the two institutions. Such amendments, once approved by both the institutions, will become part of this agreement. This Agreement may be terminated by either side with at least ninety (90) days written notice. However, the commitments already in progress must be fulfilled.



by

Signature




IN WITNESS WHEREOF, the parties hereto have executed two (2) copies of this instrument, each of which shall be considered an original and have equal validity.

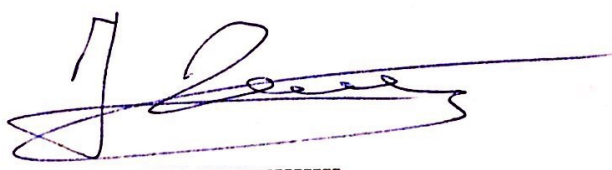
  
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**Professor Vishal Verma**  
Dean – International Affairs


Delhi Technological University



  
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**Associate Professor Michail G. Lagoudakis**  
Vice Rector of  
Administrative, Academic and Student Affairs  
Technical University of Crete

  
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**Professor Samsher**  
Registrar  
Delhi Technological University

  
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**Professor Michalis Zervakis**  
Vice Rector of Research and Lifelong Learning  
Technical University of Crete

  
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**Professor Evan Diamadopoulos**  
Rector  
Technical University of Crete

Date: January 10, 2019

