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15-Dec-2021 01:29 PM NONACC (SV)/ rj3120104/ KOTA/ RJ-KT SUBIN-RJRJ312010495974612883427T RAJASTHAN TECHNICAL UNIVERSITY KOTA RAJASTHAN Article 32 Indemnity Bond MOU BETWEEN RTU AND CEERI 0 (Zero) RAJASTHAN TECHNICAL UNIVERSITY KOTA RAJASTHAN CSIR CEERI RAJASTHAN TECHNICAL UNIVERSITY KOTA RAJASTHAN • 200 (Two Hundred only) 20 (Twenty only) : 40 (Forty only) 260 (Two Hundred And Sixty only)

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MEMORANDUM OF UNDERSTANDING FOR INSTITUTIONAL

COLLABORATION

BETWEEN

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

AND

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE (CSIR-CEERI)

This Memorandum of understanding (hereinafter referred to as "MoU")entered into on this xxth day of September, 2020 by and between:

Rajasthan Technical University (hereinafter referred to as "RTU"), which was established in 2006 by the Government of Rajasthan to enhance technical education in the state and is existing at Rajasthan Technical University, Rawatbhata Road, Kota - 324010.

AND

CSIR-Central Electronics Engineering Research Institute, which is a constituent establishment of the Council of Scientific and Industrial Research, New Delhi, having its campus and administrative office in Pilani - 333 031, Rajasthan, India.

CSIR-Central Electronics Engineering Research Institute, (hereinafter referred to as "CSIR-CEERI") established in 1953, is a constituent establishment of the Council of Scientific and Industrial Research (CSIR), New Delhi, having its campus and administrative office in Pilani - 333 031, Rajasthan, India.It is devoted to R&D activities in the following areas:(1) Advanced Electronic Systems: Image processing and DSP, Internet of Things (IoT), Embedded System Design, Electronic Instrumentation, Industrial Control & Automation, Power Electronics, Robotics, VLSI Design (Digital, Analog, Mixed Signal), etc.,(2) Advanced Semiconductor Electronics: MEMS, Microsensors, Opto-electronic Technologies, Photonic Devices and Sub-systems, Nano-electronics, LTCC and Advanced Packaging technologies, etc.,(3) Microwave Tubes: Klystron, Magnetron, Travelling Wave Tubes, Gyrotron, Plasma Tubes, Tera Hertz devices etcCSIR-CEERI also has Centres at Chennai and Jaipur.

Collectively hereinafter referred to as "institutions" Rajasthan Technical University Registrar

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This MoU is based on the principal of reciprocity and expresses the interest of both institutions in exchanging scholars, students, academic information and materials in the belief that the research and educational process at both institutions will be enhanced and the mutual understanding between their respective scholars and students will be increased by the establishment of such exchange programs as per CSIR Guidelines.

- 1. The institutions agree to encourage the development of the following exchange programs based on their respective academic and educational needs:
 - Exchange of scientific staff
 - Exchange of students)undergraduate and /or graduate(
 - Joint supervision of M.Tech, M.S and Ph.D .students
 - Exchange of academic information and materials
 - Exchange of periodicals and other publications .
 - Organization of joint research programs
 - Organization of joint conferences

Kota

- Organization of other academic exchanges agreeable to both institutions
- Use of laboratory facilities on mutually agreed terms and conditions

Areas to start this collaboration are listed in Annexure1. Both the institutions can revisit this list after mutual consultation. The above activities shall be undertaken as per CSIR guidelines.

- 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 institutions. The institutions shall enter into separate agreements regarding the individual exchange programs.
- 3. Faculty/Scientists of either of the institute initiating collaborative work will take care of the usage of their institute resources and conduction of activities as per institute norms .A faculty member from RTU will coordinate with a scientist from CSIR-CEERI for the implementation of this initiative.
- 4. Each institution will adhere to the intellectual laws of India .Intellectual property developed during the visit of an exchange student/researcher/faculty/staff will be governed by the rules of the host institute unless otherwise specified .The two institutions shall jointly own results clearly defined collaborative projects and exchange programs .This joint ownership also than Technical University

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entitles each party to explore commercialization .However,transfer of jointly developed technology and associated sharing of revenue shall be governed by a separate agreement .This cost of IP filing will be equally shared by both Institutions.

Furthermore, if one institution receives any information from the partner under a clearly defined non-disclosure agreement, necessary and reasonable care will be taken to protect the intellectual property received .

- 5. 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 .Any disputes shall be resolved through mutual discussion between the highest officials of the respective institutions.
- 6. Any addition, deletion and /or alteration to this MoU may be effected by writing .A document containing the additions, deletions and /or alterations, and signed by all Parties hereto, shall from an annexure to and be deemed to be a part of this MoU.
- 7. The agreement shall become effective on the day representatives of both institutions 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 at least six months in advance in order to avoid any possible inconvenience to the other institution.

IN WITNESS WHEREOF, the institutions hereto have offered signatures:



For: CSIR-CentralElectronics Engineering Research Institute, Pilani, India

Signature:

Date: Seal:

> प्रमुख, प्रौद्योगिकी व्यवसाय विकास यूनिट Head, Technology Business Development Unit सौएसआईआर-सीरी / CSIR-CEF

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Witness: poper Bhaly Signature: (separe Brekg Name: Designation: Asstt. Prof. RTU Kot

Witness: Signature: Dogand. Name: D. Panky B. Agarmh Designation: Pay, Sai

Signature: Row Witch

Name: RANJON MANESHUAR) Designation: Prof. RTU, Kota Signature: Name: Designation: Kuldip Sinfl KULPJPSINIGY principal scientis)

Annexure 1

MoU between RTU. Kota and CSIR-CEERI

Areas from RTU, Kota (*but not limited to*)

- 1. Machine Learning
- 2. Sensor Design
- 3. Imaging and Multimedia
- 4. IoT and Smart Embedded systems
- 5. Energy Harvesting Systems
- 6. VLSI Design and CAD

Areas from CSIR-CEERI (*but not limited to*)

- 1. Computer Vision, Machine Learning and Artificial Intelligence Algorithms
- 2. Signal Processing
- 3. Instrumentation & Optimization Techniques
- 4. IoT Technology and systems
- 5. Cyber Physical Systems
- 6. VLSI Design, Embedded Systems and Real time Embedded and IoT Applications
- 7. MEMS and Microfluidics based Sensors
- 8. Nano-sensors, Nano-devices and Advanced Packaging
- 9. GaN-based Optoelectronic Devices and Photonics Crystal based Structures and Devices
- 10. RF MEMS based Switches, Filters and Devices
- 11. Power Electronics
- 12. Microwave Devices

CSIR-CEERI has expertise in Semiconductor Process & Device fabrication with state-of-the-art facilities. RTU has Electronics courses in UG/PG/PhD in Semiconductor, CMOS, VLSI Design and related fields. Students from RTU shall visit CSIR-CEERI to get a practical understanding of Semiconductor Design & Fabrication process. This may be included, as a part of their curriculum where students of affiliated college shall get a chance to this visitand undertake training at CSIR-CEERI as per CSIR Guidelines. Colleges/ RTU shall bear the charges for this practical session. CSIR-CEERI shall demonstrate following to the students:

- Demonstration of Semiconductor process Units
- Integration of Components on a device
- Characterization of device

Registrar

Registran Rajasthan Toomhoal University Kota