



त्रिपुरा त्रिपुरा TRIPURA

00AA 529122

3/11/14
Registrar,
Tripura University
Suryamaninagar-799022

MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING is made on the **Third day** of **November, 2014** at Agartala

between

TRIPURA UNIVERSITY (a Central University) having office address at- P.O. Suryamaninagar, PIN-799022, P.S.- Amtali, District- West Tripura, State- Tripura; established under the Tripura University Act, 2006 being authorised and represented presently by it's Joint Registrar (Registrar In-Charge) **Dr. Kalyan Bijoy Jamatia**, an Indian Citizen.

...hereinafter referred to as 'Tripura University' or 'the University', which expression, unless repugnant to the context or meaning thereof includes its successors in business and permitted assignees) as party of the FIRST PART.

2

Tripura
Suryan

Society for Applied Microwave Electronics Engineering and Research, an autonomous society under the Ministry of Communication and Information Technology, Government of India, and having its office address at: I.I.T. Campus, Hill Side, Powai, Post Box No: 8448 Mumbai, Maharashtra, India Pincode – 400076; represented through it's Head, Industrial & Meteorological Systems Division, **Mr. Anil A. Kulkarni**, (Scientist-F), as authorised signatory for and on behalf of **“Society for Applied Microwave Electronics Engineering and Research”**;

.....(herein referred to as the SAMEER) which expression shall unless repugnant to the context or meaning thereof, be deemed to mean and include its representatives, administrators, successors, permitted assignees, and executors of the SECOND PART.

Whereas the Department of Physics of Tripura University and SAMEER propose to work together on ***“Installation of indigenously developed Lightning Detection Network in North-East India & development of Lightning Location Algorithm”***, hereinafter referred to as **collaborative work, funded by Department of Electronics and Information Technology Government of India, under the North East Initiative.**

AND WHEREAS Tripura University is interested in developing and using ***Lightning Detection Network system*** for research purpose and SAMEER having the expertise in the development of Atmospheric Instrumentation would primarily develop the ***Lightning Detection Nodes***.

AND WHEREAS, the Memorandum of Understanding (MOU) defines the role and responsibilities of the participating institutes, monitoring and other matters related to the collaborative work.

The parties herein agree to the following:-

1.0 ROLE OF SAMEER

SAMEER, Mumbai Shall:

1. Design and develop Lightning Detection Network for research purpose.
2. To carry out the developmental work in close collaboration with Tripura University.

3. To train relevant Tripura University personnel to install the Lightning Detection Nodes at different locations in the North Eastern Region of India and provide technical support during the installation.
4. To provide technical support during the field trials.

2.0 ROLE OF TRIPURA UNIVERSITY

Tripura University shall:

1. Provide Basic infrastructure like Laboratory space, Electricity, and Utilities for the installation of the *Lightning Detection Network*.
2. Participate with SAMEER in developing *Lightning Detection Network* by developing software to estimate the location and other parameters of the Cloud to Ground (CG) Lightning.
3. Install Lightning *Detection Nodes* and carry out the field trials of the *Lightning Detection System* jointly with SAMEER.
4. Involve researchers, students, Academicians and industries to participate in the project to conduct experiments.
5. Maintain the system for a minimum period of 5 years after satisfactory installation of the system.
6. Generate Research report for submission to SAMEER and DeitY to monitor the outcome of R&D.
7. Take any other initiative necessary for the collecting the Lightning data and analysis for the North Eastern region for Atmospheric Research.

3.0 DURATION OF MOU

The agreement between SAMEER and Tripura University will be valid for Five years from the date of signing.

4.0 RIGHTS OF OWNERSHIP / TECHNOLOGY TRANSFER AND UTILIZATION

- 4.1 The resources pooled together by SAMEER and Tripura University for the collaborative work will be owned by the respective organisation.
- 4.2 The know-how and software generated during the agreement period through the collaborative efforts of SAMEER and Tripura University will be the joint property of two organisations. The intellectual property generated in the form of patents will be owned equally by two organisations.
- 4.3 The know-how developed may be transferred to other entrepreneurs on a non-exclusive basis on such terms and conditions as may be mutually decided by SAMEER-Tripura University.
- 4.4 It shall be the responsibility of SAMEER and Tripura University to

5.0 PROJECT MONITORING:

The progress of work carried out within the framework of this agreement will be periodically reviewed by scientists from SAMEER and Tripura University

6.0 ARBITRATION

In the event of any question, dispute or difference whatsoever arising between the parties hereto, such disputes or differences shall be initially attempted to be resolved by mutual consultation at the level of Director of SAMEER, Mumbai and Vice Chancellor of Tripura University.

In case, the dispute cannot be resolved on mutual consultation, the matter shall be referred to an Arbitrator (who shall be the one as mutually agreed upon). The Arbitrator's decision shall be final and binding.

In witness whereof, the parties have caused this MoU to be signed in two original instruments by their duly authorised/ competent representatives on the date first above written. One original is held by the *Tripura University* and the other original is kept by said SAMEER.

SIGNED AND DELIVERED by the with-
named 'FIRST PARTY', **TRIPURA
UNIVERSITY** through its Joint Registrar
(Registrar In-Charge) **Dr. Kalyan Bijoy
Jamatia** by his hands and the seal of
Tripura University.

Dr. Kalyan Bijoy
3/11/14

(Registrar In-Charge)

Registrar,
Tripura University
Suryamaninagar-799022

SIGNED AND DELIVERED by the
withinnamed 'SECOND PARTY', **Society
for Applied Microwave Electronics Engi-
neering and Research**, (SAMEER) through
its authorised signatory **Mr. Anil A.
Kulkarni** by his hands and the seal of
'SAMEER'.

Anil A. Kulkarni

(Head, Industrial & Meteorological Systems Division)

अनिल अ. कुलकर्णी / Anil A. Kulkarni
मुख्य, आइ. एम. एस. विभाग / Head, I.M.S. Division
प्रायोगिक सूक्ष्मतरंग इलेक्ट्रॉनिक्स अभियांत्रिकी तथा अनुसंधान संस्था
Society for Applied Microwave Electronics Engineering & Research
अनुसंधान तथा विकास प्रयोगशाळा, इलेक्ट्रॉनिक्स एवम् सूक्ष्म प्रौद्योगिकी
विभाग, संशोधन एवम् सूचना प्रौद्योगिकी अकादमी, भारत सरकार
(R & D Lab of Dept. of Electronics & Information Technology,
Ministry of Communications and Information Technology,
Government of India)

In presence of:

1. Man Mohan Reang
3/11/14
(एम. एम. रिआंग)
(M. M. Reang)
संयुक्त कुलसचिव
Joint Registrar
त्रिपुरा विश्वविद्यालय
Tripura University.

2. Nirmal Reang
3/11/2014
NIRMAL REANG
सहायक कुलसचिव (शैक्षिक)
Asst. Registrar (Academic)
त्रिपुरा विश्वविद्यालय
Tripura University

3. Khondae
(Ajay Khondae)
Scientist - D

4.



विनोद कुमार शर्मा / Vinod Kumar Sharma
कुलसचिव / Registrar
प्रायोगिक सूक्ष्मतरंग इलेक्ट्रॉनिकी इंजीनियरी तथा अनुसंधान संस्था
Society For Applied Microwave Electronics Engineering And Research
आई आई टी परिसर, / I.I.T. CAMPUS, पवई / Powai, मुंबई / Mumbai - 400 076.