



## MEMORANDUM OF UNDERSTANDING (MOU)

**AGREEMENT FOR SCIENTIFIC COOPERATION IN RESEARCH BETWEEN THE  
INDIAN INSTITUTE OF TROPICAL METEOROLOGY, PUNE, INDIA  
(An Autonomous Institute under Ministry of Earth Sciences, Govt. of India)  
AND  
SRI RAMACHANDRA UNIVERSITY, PORUR, CHENNAI**

The Indian Institute of Tropical Meteorology (IITM), Pune is an autonomous premier research institute under Ministry of Earth Sciences, Govt. of India working on air quality and weather and their environmental impacts. The deteriorating air quality and extreme weather phenomenon in the metropolitan cities has become one of the major causes of societal concern as they are directly related to urban planning, Human Health and Agriculture. It is increasingly becoming important to make a common citizen aware of the current level of air quality and provide its forecast well in advance along with weather information so that preventive measures can be taken up. In view of the common wish to continue relations for scientific collaboration between the research institutions/university (located at scientifically strategic location) in the fields of mutual interest, the Indian Institute of Tropical Meteorology, Pune (hereinafter referred to as **IITM**) and Sri Ramachandra University, Porur, Chennai (hereinafter referred to as **SRU**), in harmony with the spirit of scientific collaboration within the country and to spread front line atmospheric sciences research in Indian universities that characterises relations between them, have agreed to sign the following:

### **Agreement for Scientific and Cultural Collaboration**

#### **(Objective)**

##### **Article 1**

The **SRU** and the **IITM** will endeavour to enhance research activities by supporting the other Party's research efforts under the principle of respecting mutual autonomy. In particular both Parties will contribute to the development of integrated modelling and monitoring systems for effective air pollution assessment and applied research both at regional and national scale.

#### **(Areas for and contents of collaboration)**

##### **Article 2**

Areas for collaboration between the two Parties will involve integrated monitoring and assessment modelling for air quality evaluation, impacts and planning, including:

- Regular monitoring of all major air pollutants along with meteorological fields,
- Validation of 3-D online chemical-transport modelling of air pollutants,
- Evaluation of impact of air pollution on Health and critical population exposure.

#### **(Exchange of research staff)**

##### **Article 3**

The exchange is defined principally in the following ways:

- a) The Parties will agree to the reciprocal exchange of staff and Ph.D. students for study visits, research, conferences, and will favour the exchange of scientific experience and knowledge.

- b) The Parties will share information about conferences, symposium and seminars organised at national level.
- c) The Parties will provide the basic infrastructural facilities in-kind to the visiting researchers for carrying out research activity in their organization /University /institute.

**(Administrative Aspects and Infrastructure)**

**Article 4**

- The Air Quality Monitoring System (includes expensive and sophisticated scientific instruments and related accessories) will be fully sponsored, procured by IITM. The IITM will also install and commission it in a suitable location in city campus and will also maintain it regularly through OMC (Operational and Maintenance Contract) by deputing one contract engineer. The scientific data product of the project may be utilized by both the parties in mutual collaboration for maximum scientific benefit. All the instruments provided by IITM and the data generated will remain the property of IITM. Dissemination of the data will remain the prerogative of IITM.
- The host institution (SRU) will provide all possible in-kind infrastructural facilities including a well-furnished laboratory room for installation and operation of instrument of a minimum size of 15 x15 ft<sup>2</sup> with adequate power points and power supply of around 7KW in a suitable location as per the SOP (Standard Operating Protocol) guidelines which may be decided mutually.
- The SRU will designate one scientist /staff who will act as local coordinator responsible for administrative as well as scientific work for this project from SRU.

**(Term of the agreement)**

**Article 5**

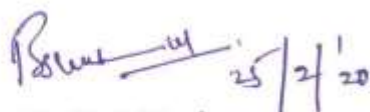
The agreement will come into act with the signatures of the appointed representatives of the two Parties & will have duration of five years. Both parties reserve the right to terminate the agreement by issuing two month's prior notice to that effect. After the expiry of current agreement, it may be renewed for additional terms upon the mutual approval from both Parties. Any dispute related to this Agreement shall be settled by negotiations between the two institutions. In case this is not successful, the dispute shall be resolved through arbitrator appointed by the two Parties by mutual agreement at the level of Scientist-F or above from IITM and collaborating institute. The rules and venue for the proceedings of arbitration shall be as mutually agreed between the Parties. The ruling of the arbitrator shall be final and binding on both parties.



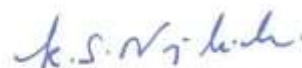
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Zimbra

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**Fwd: MAPAN list of instruments**

**From :** Arul Selvan <arul@ehe.org.in>  
**Subject :** Fwd: MAPAN list of instruments  
**To :** shahana bano <shahana.bano@tropmet.res.in>  
**Cc :** murthy@tropmet.res.in, hod ehe  
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Mon, Jun 08, 2020 07:11 PM

Dear Sir,

Herewith I am sending you the list of equipments which were operated in Sri Ramachandra Institute of Higher Education & Research, Porur, Chennai MAPAN station. Please let me know if you have any query.

1. Ozone Analyser - EC9810 with accessories
2. Nitric Oxide (NO), Total Oxides of Nitrogen & Nitrogen dioxide - EC9841 with accessories
3. PM10 - BAM-1020 with accessories
4. PM2.5 - BAM-1020 with accessories
5. Methane & Total Non Methane Hydrocarbon - Alpha 115 with accessories
6. Carbon Monoxide - EC9830 with accessories
7. Furnace
8. Desktop, CPU, Keyboard with accessories

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Thanks & Regards

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