



# **MEMORANDUM OF UNDERSTANDING**

BETWEEN

**CSIR-National Geophysical Research Institute, Hyderabad**

AND

**Central University of Haryana, Mahendragarh**

*for setting up a*

***GPS OBSERVATORY***

*at*

**Central University of Haryana**

This Memorandum of Understanding (MoU) is made on this day of 14 February 2022

BETWEEN

CSIR- National Geophysical Research Institute, Hyderabad, hereinafter referred as “CSIR-NGRI”.

AND

Central University of Haryana, Mahendragarh, hereinafter referred to as “CUH”

Individually referred to as a “Party” and collectively as the “Parties”.

### **Preamble:**

CSIR-NGRI is a premier multidisciplinary R&D organization in the field of Earth Science which is interested in setting up a permanent GPS observatory at CUH Campus Mahendragarh, Haryana.

WHEREAS, CUH is a premier Central University established under the Central Universities Act, 2009 of the Parliament and is fully funded by UGC, Government of India (GoI). It is one of the 15 Central Universities established by MHRD, GoI under the XIth Five Year Plan (2007-12) and is engaged in teaching and research in various disciplines.

Understanding of earthquake occurrence in the Delhi Aravalli fold belt requires monitoring of crustal deformation and earthquakes monitoring. CSIR-NGRI has undertaken a project to install several GPS sites to monitor crustal deformation across the Delhi Aravalli region. One such site is planned at Mahendragarh.

It is proposed to sign an MoU between CSIR-NGRI and CUH in order to consolidate the strengths of the participating organizations, by way of setting up a permanent GPS observatory at CUH, Mahendragarh.

**Now, therefore, it is hereby agreed to by and between CSIR-NGRI and CUH as follows:**

### **1. Aims and Objectives**

The purpose of the memorandum is to provide for the coordination of collaborative research, monitoring and data exchange in earthquake monitoring and crustal deformation and land movements in and around Mahendragarh between CSIR-NGRI and CUH.

### **2. Roles and responsibilities of CSIR-NGRI and CUH:**

The mutually agreed roles and responsibilities of CSIR-NGRI and CUH, for setting up and running of the GPS observatory will be as follows:

#### **CSIR-NGRI**

- i) CSIR-NGRI will provide the equipments and necessary financial grant and overall direction and guidance for setting up the GPS observatory to achieve its objectives and will monitor the geodetic data.
- ii) CSIR-NGRI will help conducting joint training programmes / workshops etc. for the benefit of the students and researchers.
- iii) CSIR-NGRI will allocate necessary funds for repairing if any and maintenance of the equipment from time to time.

#### **CUH**

- i) CUH will provide adequate space required for establishing the observatory (5 meter x 5 meter).
- ii) CUH will also provide basic facilities like water, electricity etc., to the observatory.
- iii) CUH will provide security and physical safety of observatory from theft, fire, illegal entry of persons etc. However, in case of unforeseen incident, matter will be dealt as per the existing C.U.H. provisions and practices.
- iv) CUH will encourage faculty members, M.Sc and Ph.D. students to take up projects and thesis in collaboration with the scientists from CSIR-NGRI and conduct the necessary R&D activity using the data generated from the observatory.

### 3. Coordinators

The respective Coordinators of CSIR-NGRI and CUH shall be responsible for all the communication between the two institutes and the implementation of the proposed objectives of the MoU :

CSIR-NGRI : Dr. V K Gahalaut, Chief Scientist (Coordinator)

CUH : Dr. Manish Kumar, Department of Geography, CUH (Coordinator)

Dr. Ran Bir Singh, Department of Civil Engineering, CUH (Co-Coordinator)

### 4. Intellectual Property and Publication Rights

The parties shall each have the right, at their discretion, to publish freely any results under this MoU. Publications, if any, shall be in the names of the investigators from both parties who actually plan and conduct experiments and /or analyse data. Any such results / publications from the observatory shall acknowledge CUH and CSIR-NGRI, and shall be shared jointly.

Nothing in this MoU shall affect the ownership of any pre-existing Intellectual Property Rights vested in either Party at the time of signature of this MoU, or generated by either Party outside of the scope of this MoU.

Information identified as 'Confidential', which is anything that one might reasonably considered to be confidential, when disclosed by either Party to the other Party shall be kept confidential by the receiving Party and will not be disclosed to any other person or organization.

Without prior permission of CUH, no other party/institution except CSIR-NGRI be allowed to use the data generated at CUH observatory.

### 5. Duration

The MoU will be valid for Five years, or the duration of the project, whichever is earlier, from the date of its signing. This MoU may be extended for a further period by the mutual agreement in writing of the Parties under mutually agreed terms and conditions.



## 6. Terms of Agreement and Resolution of Disputes

The Parties agree and acknowledge that nothing contained in this MoU constitutes any of them as agent, partner or trustee of any other of them, or to have authority or power to act for, or create or assume any responsibility or obligation on behalf of, any other Party.

The MoU can be terminated by either party upon ninety (90) days written notice. Unless otherwise agreed, the termination shall not affect the validity, duration or completion of projects under this MoU that were initiated prior to such termination.

Disputes if any, arising out of this MoU shall be settled amicably by the parties or be settled within the jurisdiction of Mahendragarh.

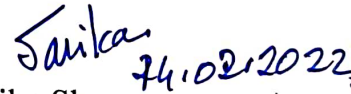
IN WITNESS, WHEREOF, the parties thereto have caused this MoU to be executed by their authorized representatives as on the date first written above.

For CSRI-NGRI



Dr. V. K. Gahalaut  
Chief Scientist  
CSIR-NGRI, Hyderabad

For CUH



Prof. Sarika Sharma  
Registrar  
Central University of Haryana  
Kulacharya Registrar  
हरियाणा केन्द्रीय विश्वविद्यालय  
Central University of Haryana  
महेन्द्रगढ़, हरियाणा - 123029  
Mahendergarh, Haryana - 123029

In the presence of

In the presence of

.....  
Signed and delivered by

Name:

Designation:

Witness

Date:

Place:



प्रधान बीडीजी / Head BDG  
राष्ट्रीय भूभौतिकीय अनुसंधान संस्थान  
National Geophysical Research Institute  
वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद  
Council of Scientific and Industrial Research  
Hyderabad - 500 007.

14 Feb 2022


Hyderabad

.....  
Signed and delivered by

Name: Prof. Tankeshwar Kumar.

Designation: कुलापति

Witness



Vice-Chancellor  
हरियाणा केन्द्रीय विश्वविद्यालय  
Central University of Haryana  
महेन्द्रगढ़, हरियाणा-123029  
Mahendergarh, Haryana-123029



