

Dr. Sahay

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MEMORANDUM OF UNDERSTANDING

BETWEEN

Department of Science and Technology, Govt. of Bihar, Patna

AND

Bihar State Disaster Management Authority, Patna

FOR

Field Stations in Bihar Seismic Telemetry Plan

AT

Various Institutions under the control
of Dept. of Science & Technology.



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BACKGROUND OF THE MoU

Bihar Seismic Telemetry Network (BSTN) was proposed by the Expert Committee constituted in the Chairmanship of Prof A. S. Arya, Member Bihar State Disaster Management Authority (BSDMA). BSTN was approved by the Chief Minister cum Chairman, BSDMA in the 7th meeting of BSDMA with an instruction to the Chief Secretary, Bihar to finalize the modalities of establishment of BSTN.

Accordingly a meeting was organized under the Chairmanship of Chief Secretary, Bihar; the proceeding of this meeting is attached on **Annexure -1**. In this meeting, it was decided that the Disaster Management Department, Government of Bihar shall be administrative department for BSTN and BSDMA shall establish and operate BSTN. There would be one Central Receiving Station (CRS), at Patna Science College, Patna and ten Field Stations in various districts of Bihar in the campus of institutions running under Department of Science & Technology, Government of Bihar.

With an objective of setting up of these ten field stations, Bihar State Disaster Management Authority decided to sign a memorandum of understanding with Department of Science and Technology, Government of Bihar which also underlines the basic framework for setting up Bihar Seismic Telemetry Network in the state.

OBJECTIVES OF BSTN

Presently small magnitude earthquake events might not be recorded since only one station of the Indian Meteorological Department has been operational in the state of Bihar at Valmiki Nagar. Main objective for establishment of Seismic Telemetry Network would be to regularly monitor the minor earthquakes (Richter Magnitude = 3.0) in real time basis and in the event of a significant earthquake, alert the disaster management authorities for initiating relief and rescue operation without loss of time.

FIELD STATIONS

Field Stations shall be established in a room, whose floor would be 13' below the ground level, where specially designed seismic pillar shall be constructed. Field Stations Building shall be enclosed with a minimum fencing area of 20' x 20', for security. A Schematic drawing of Field Station Room is attached on **Annexure-2**.

The seismic sensors (installed over seismic pillar) will continuously communicate with CRS through VSAT (installed over the roof of Field Station Building). Power for operation of equipment shall be available through solar panel (installed over the roof of Field Station Building). The Field Stations shall be unmanned. Only Scientists from CRS will visit and enter into the Field Stations to maintain the equipment such as seismic sensors, VSAT and solar power and other systems installed within the Field Stations.

SELECTION OF SUITABLE LOCATION FOR FIELD STATIONS

On request from BSDMA, the Department of Science & Technology addressed to the Principals/ the Directors of institutions under the Department, for cooperation in selection of Field Station in their campus. The letters from BSDMA is



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attached on Annexure-3 and that from Department of Science & Technology is attached on Annexure-4.

In collaboration with National Centre for Seismology, Ministry of Earth Science, Govt. of India, the Ground Noise Survey was conducted by BSDMA, within the campus of the institutions under Department of Science & Technology, in various districts of Bihar, with cooperation from the Principals/ the Directors of the institutions.

The report submitted by National Centre for Seismology selects suitable location for Field Stations in each campus. The suitable location in eight selected campus are Government Polytechnic Colleges at Patna, Purnea, Chhapra, Gopalganj and Sitamarhi; and Government Engineering Colleges at Darbhanga, Muzaffarpur and Motihari. Location of Field Stations in eight selected campus are shown on Field Station Layout plan and are attached on Annexure-5.

MODALITIES FOR ESTABLISHING FIELD STATIONS OF BSTN

Department of Science & Technology would allow providing minimum space of 20' x 20' in the Field Stations in the campus of Government Polytechnic Colleges and Government Engineering Colleges in above eight districts. After construction of the Field Stations, the space shall be properly fenced. Only Scientists from CRS will visit and enter into the Field Stations time to time. The institutions under Department of Science & Technology will have responsibility of external security of the Field Stations established in their campus.

No obstructions would be created by the institutions which will obstruct the communication through VSAT and No vibratory machinery would be installed nearby by the institutions which will create false ground vibration. No external power would be utilized from institutions.

"BSDMA shall do the general insurance of the proposed 10 (ten) field stations, which will cover for theft and fire incidents of the field stations. The premium for General Insurance of the field stations would be borne by BSDMA. The Principals of Government Polytechnic/ Engineering Colleges would be warden of the field stations."

EFFECTIVE DATE AND DURATION OF MoU

This MoU shall be effective from the date signing by competent authorities of both parties.

Any clause or article of the MoU may be modified or amended by mutual agreement of both parties.

AMENDMENTS

Any amendment and/or addenda to the MoU shall be in writing and signed by the parties hereto and shall only after such execution be deemed to form part of the MoU and have the effect of modifying the MoU to the extent required by such amendment or addenda.

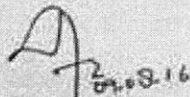


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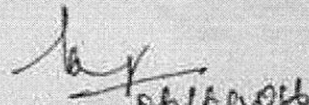
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RESOLUTION OF DISPUTES

The dispute or difference whatsoever arises between parties in relation to or in connection with this MoU; both the parties shall resolve the dispute/difference amicably between themselves.


Director

Department of Science Technology,
Govt. of Bihar
Patna


Secretary

Bihar State Disaster Management Authority,
Dept. of Disaster Management,
Govt. of Bihar, Patna
Patna



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