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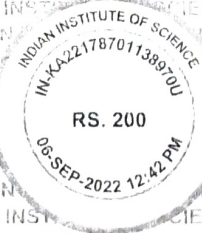
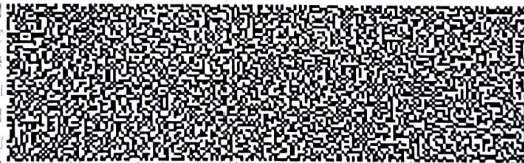
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MEMORANDUM OF UNDERSTANDING

BY AND BETWEEN

INDIAN INSTITUTE OF SCIENCE

AND

BIHAR STATE DISASTER MANAGEMENT AUTHORITY



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MEMORANDUM OF UNDERSTANDING

BETWEEN

**Indian Institute of Science (IISc)
Bangalore, Karnataka**

And

**Bihar State Disaster Management Authority (BSDMA)
Patna, Bihar**

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MEMORANDUM OF UNDERSTANDING

Between

Indian Institute of Science (IISc), Bangalore- 560012

And

Bihar State Disaster Management Authority (BSDMA), Patna, Bihar-800001

This Memorandum of Understanding hereinafter referred to as "MoU" is entered into on this 06th September, 2022

by and between:

The Indian Institute of Science (IISc), located in Bangalore, Karnataka on one part, and **Bihar State Disaster Management Authority (BSDMA)**, located in Patna, Bihar on the other part.

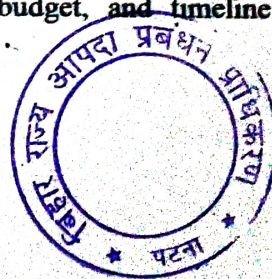
Indian Institute of Science, a Trust registered under the Charitable Endowments Act, 1890, is a deemed to be university and an autonomous educational institution funded by the Ministry of Education, Government of India (hereinafter referred to as "IISc"). IISc is one of the oldest premier Research and Development (R&D) institutions in India, located in Bangalore-560012, employing highly qualified, trained, and established scientific personnel with knowledge and expertise in many branches of Science and Engineering.

and

Bihar State Disaster Management Authority, is a statutory body created under the provisions of the Disaster Management Act, 2005 passed by the Parliament. As per the provisions of the Act, Bihar State Disaster Management Authority (hereinafter referred to as "BSDMA") has been created at the state level, located in Patna-800001, which is headed by the Hon'ble Chief Minister of Bihar, a full-time Vice Chairman (with Cabinet Minister rank), and a few experts as its members (with Minister of State rank). BSDMA is undertaking several measures focused on Disaster Risk Reduction (DRR) and mitigation.

1. **IISc and BSDMA** (hereinafter referred to as "the Institutions") desire and intend to develop cooperation and collaboration through this MoU in "**Developing Flood Forecast Model for Kosi River Basin**". This MoU aims to have a long-term association for an effective synergy in knowledge sharing and support in flood simulation and flood forecasting for the Kosi River Basin in Bihar. The aim of this collaboration is for a broader agreement:

1.1. To carry out projects related to flood forecasting and overall hydrological studies in Bihar with knowledge sharing and advisories for improving the existing system, but not restricted to any other objectives which are not mentioned. Project proposals with specific objectives, budget, and timeline are to be prepared and shared separately.



- 1.2. To develop Urban Flood Forecast System for Patna city in coordination with the Agency designated by BSDMA and provide technical handholding for emulating and customizing the system to other major cities of Bihar. The detailed technical proposal with budget and timeline is to be separately shared.
- 1.3. To conduct training programs, on a demand basis, for the Officers/Scientists designated by BSDMA on the Development, Maintenance, and Upgradation of Flood Forecast Model and thereby enhance the institutional capabilities to handle the Flood Forecast Framework. The financial aspect of such a training program is to be worked out based on the number of Trainees and the Duration of the Training Program.
- 1.4. Team of project staff/experts from IISc (consisting of not more than 3 persons at a time) to visit Patna on a need basis to review the progress of the new flood forecast model for the Kosi river being conceived. BSDMA is to bear all the expenses towards travel, boarding, and lodging for the visiting team with a suitable honorarium.
2. This MoU is not intended to create legal or binding obligations on either institution. It serves only as a record of the institution's current intentions. Before any of the activities set out in this Memorandum of Understanding (MoU) are implemented, to ensure the activities can be accomplished in conformity with the law and to enable the principles set out in this MoU to be implemented, the Institutions shall enter into a formal and binding separate agreement or agreements with each other which will detail the specific form and content of the activities and cover the responsibilities and rights of each Institution. Such agreements will be negotiated in good faith.
3. This MoU commences from the date of the last signing and shall be in force for 3 years. The MoU may be terminated at any time by mutual consent or by 6 months' notice by either Institution. It may be amended, modified, extended, or renewed only with the written consent of both Institutions. The Institutions may agree to renew this MoU six months before end of the 3-year term.
4. The specific terms of this MoU do not preclude the development of future collaborative ventures or projects not mentioned in this document.
5. This MOU shall be signed in 2 counterparts each of which shall be deemed to be an original

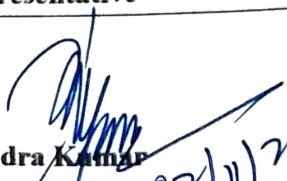

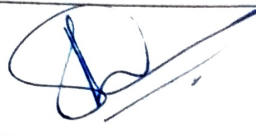
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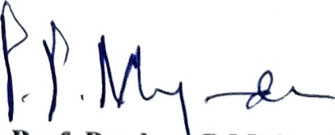


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This MoU is signed subject to the approval of the respective research/administrative bodies on the day, month, and year written above.

Signed for and on behalf of:

BSDMA Representative	IISc Representative
<p> Name: Minendra Kumar Title: Secretary, BSDMA Date: 02 NOV 2022 Seal: </p>	<p> Name: Capt Sridhar Warriar (Retd.) Title: Registrar Date: 29-11-2022 Seal: <p>ಕೃಷ್ಣ ಶ್ರೀಧರ್ ವಾರ್ರಿಯರ್ (ರೀಟೈರ್ಡ್)/ಕಪ್ತಾನ ಶ್ರೀಧರ ವಾರ್ರಿಯರ್ (ಸೇವಾನಿವೃತ್ತ) Capt. Sridhar Warriar (Retd.) ಕುಲಸಚಿವರು/ಕುಲಸಚಿವ/REGISTRAR ಭಾರತೀಯ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ/ಭಾರತೀಯ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ/INDIAN INSTITUTE OF SCIENCE ಬೆಂಗಳೂರು/ಬೆಂಗಳೂರು/BENGALURU - 560 012</p></p>

Witness No. 1	Witness No. 2
<p> Name: Dr. Uday Kant Misra Title: Vice Chairman, BSDMA Address: Bihar State Disaster Management Authority, Patna, Bihar</p>	<p> Name: Prof. Pradeep P Mujumdar Title: Chairman Professor Address: Interdisciplinary Centre for Water Research Indian Institute of Science</p>