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**Centre for Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Prof Ajit Kumar Chaturvedi  
Director  
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Roorkee – 247667  
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INDIA

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27 April 2017

Dear Professor Chaturvedi

Further to your recent email correspondence with Dr Gwyn Rees, please find enclosed two signed copies of the MOU between CEH and IIT Roorkee for you to sign. Hopefully, formal exchange can happen when our Deputy Director, Prof Alan Jenkins, visits in August 2017.

The MOU formalises and cements the already strong scientific relationship that exists between our institutions. I very much look forward to seeing that relationship develop and flourish further through our future collaborations under the MOU.

Yours sincerely

Professor Mark J Bailey  
Director of the Centre for Ecology & Hydrology  
Enc.

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Ecology & Hydrology**  
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**MEMORANDUM OF UNDERSTANDING  
BETWEEN THE  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE  
AND THE  
CENTRE FOR ECOLOGY & HYDROLOGY (CEH)**

This Memorandum of Understanding (hereinafter referred to as the "**MOU**") is made and entered into on 1<sup>st</sup> May 2017 (hereinafter referred to as "**the Effective Date**"), by and between:

The **Indian Institute of Technology Roorkee (IIT Roorkee)**, located at Roorkee-247667, Uttarakhand, India, and the **Centre for Ecology & Hydrology (CEH)**, located at Maclean Building, Benson Lane, Crowmarsh Gifford, Wallingford, Oxfordshire, OX10 8BB, UK (hereinafter referred to together as "**the Parties**" and individually as "**a Party**").

In consideration of the mutual cooperation made hereinafter, the Parties hereby agree with the following general provisions and terms:

**Article I**

**Basic Principle and Scope of Cooperation**

Whereas the Parties agree to strengthen and promote their coordination through research collaboration for their mutual interests, therefore, the Parties agree to establish and implement cooperation including, but not limited to, the following areas:

- water-, energy- and food-security, including integrated water resources management, floods and drought risk prediction & management, freshwater ecosystems & water quality monitoring & modelling, land use & land cover dynamics, fluvial hydraulics, glacial hydrology, hydropower estimation, agriculture water management;
- environmental change assessment, impacts and mitigation;
- environmental monitoring and data management, including remote sensing/earth observation, field-, reach- and catchment-scale experimentation & monitoring.

This cooperation will be based on the following principles:

1. identifying opportunities for bilateral exchange of research scientists;
2. identifying opportunities for the appointment of joint staff and studentships;
3. identifying opportunities for the development of collaborative research projects and programmes.

## **Article II**

### **Parties' Understandings**

This MOU is intended only to provide the general principles and key guidance for initial cooperation between the Parties and does not contain all matters upon which Understanding must be reached in order for any transaction between the Parties to be consummated.

A separate and binding Understanding in respect of some or all of the matters referred to in Article I may be entered into between the Parties at a later stage but nothing in this MOU shall oblige any Party to do so. However, the understandings contained herein are intended to inform and shape any and all such Understandings executed between the Parties.

Whilst the Parties wish to signal their support for the development of collaborative research programmes by this MOU, the MOU does not constitute a binding legal Understanding or create any rights or obligations for the Parties, nor shall it prevent or restrict individual Parties from pursuing their individual interests.

## **Article III**

### **Funding and Resources**

All Parties agree to put their effort to support this initiative by resourcing staff exchange and collaborative research projects and programmes and in investigating further funding sources to extend these opportunities.

## **Article IV**

### **Confidentiality**

Each Party shall be obligated not to disclose any proprietary information of the other Party or any confidential information pertaining to the cooperation to any third party or its employees, without the prior written consent from the owner of the confidential information in question. In addition, the Parties and the recipient of such confidential information agree to sign a separate non-disclosure Understanding (NDA) for exchanges of confidential information in order to properly set out their rights and obligations (as may be appropriate).

## Article V

### Use of Trademarks, Logos and Other Intellectual Property Rights

This MOU shall have no effect on a Party's rights of ownership in its intellectual property rights and its confidential information, inventions and original work created by a Party before or after the Effective Date.

An individual research project (hereinafter referred to as a "**Project**") entered into between the Parties as a result of this MOU shall be governed by a separate and binding Understanding (hereinafter referred to as a "Project Understanding") which should be executed prior to commencement of a Project. Such Project Understandings should also contain terms regarding ownership and exploitation of intellectual property rights that may be created as a result of each Project.

Use of trademarks, logos and intellectual property rights of each Party shall require separate written Understanding between the relevant Parties. No licence shall be deemed to have been granted as a result of this MOU in respect of Parties' trademarks, logos or any other intellectual property rights.

The Parties acknowledge the benefits of positive publicity but recognise that public statements or press releases should be agreed in advance by all Parties prior to announcement.

## Article VI

### Term and Termination

This MOU shall commence on the Effective Date herein above and shall continue for 5 (five) years thereafter unless terminated by all the Parties or by an individual Party at any time. This MOU may be extended at any time by mutual written Understanding of the Parties wishing to extend it.

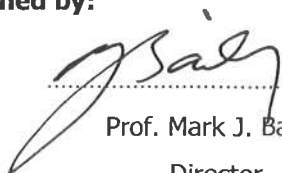
The termination of this MOU shall not affect any separate Understanding already in progress between the Parties.

## Article VII

### Amendment

This MOU may be amended, supplemented, or otherwise modified only by means of the mutual written consent of all the Parties.

Signed by:

  
Prof. Mark J. Bailey  
Director

Centre for Ecology & Hydrology, UK

27/4/17

  
Prof. Ajit K Chaturvedi  
Director

Indian Institute of Technology  
Roorkee

1/5/17



Centre for  
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## Programme

### MOU signing meeting on Aug 10, 2017 at IIT Roorkee between Centre for Ecology and Hydrology, UK Team and representatives of IIT Roorkee

- 1130 hrs: Welcome and introduction of participants
- 1133 hrs: About IIT Roorkee and water related activity in IIT Roorkee By Prof Ajit K Chaturvedi, Director IIT Roorkee
- 1138 hrs: About CEH, UK and ongoing work by Dr Alan Jenkins, Deputy Director CEH
- 1145 hrs: About the relationship between CEH and IIT Roorkee through today's meeting by Prof Arun Kumar
- 1150 hrs: Remarks by Head of the Departments
- Hydrology
  - Civil Engineering
  - Water resources
  - Earth Science
  - AHEC
- 1200 hrs: Remarks by Dr Harry Dixon, Sr. Hydrologist, CEH
- 1205 hrs: Remarks by Prof Manoranjan Parida, Dean SRIC
- 1210 hrs: Signing of Memorandum of Understanding

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← Bring all five Dept in one Common Platform | 19.5.2016  
• Prof. Alan Jenkins ⇒ Air Quality Assessment | 1st Meet →  
• DELHI-FLUX (Air Pollution and Human Health)  
• History of working together

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+ Working of diff. Depts as a Team | - Ethiopia/ Iranian team visiting  
+ International Exposure {outside UK}  
+ Engagement with U.K.  
• Patenting / Copy Right / New Proposal Submission  
ADCI, ADInnovation & Incubation  
\* Mega City Air Pollution