

**MEMORANDUM OF UNDERSTANDING**  
**BETWEEN**  
**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, THE REPUBLIC OF**  
**INDIA**  
**AND**  
**CONSIGLIO NAZIONALE DELLE RICERCHE, RESEARCH INSTITUTE**  
**FOR GEO-HYDROLOGICAL PROTECTION, ITALY**  
**ON FRIENDSHIP AND CO-OPERATION, PROMOTION OF MUTUAL**  
**UNDERSTANDING, ACADEMIC, SCIENTIFIC THOUGHT AND**  
**PERSONNEL EXCHANGE**

**THIS MEMORANDUM OF UNDERSTANDING IS**  
**BETWEEN**

The **ISTITUTO DI RICERCA PER LA PROTEZIONE IDROGEOLOGICA (RESEARCH INSTITUTE FOR GEO-HYDROLOGICAL PROTECTION)** (hereinafter referred to as "CNR IRPI"), a research institute of the Italian Consiglio Nazionale delle Ricerche (National Research Council. CNR);

**AND**

The **INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, INDIA** (hereinafter referred to as "IIT Roorkee"), an Institute whose address is at Indian Institute of Technology Roorkee, Roorkee-247 667, Uttarakhand, India and shall include its lawful representatives and permitted assigns;

CNR IRPI and IIT Roorkee shall hereinafter be referred to singularly as "the Party" and collectively as "the Parties").

**CONSIDERING**

- A. That CNR IRPI is an established research institute within CNR of excellence and research and with a dynamic programme of collaborative arrangements with many international counterparts;
- B. That IIT Roorkee is an established educational institute with proven research and educational abilities, and with collaborative arrangements with many counterparts to share its expertise and enhance its academic links and co-operation; and
- C. the Parties are willing and have a mutual interest to establish a basis for scientific, technical and educational co-operation and collaboration, upon the terms as contained herein.

**THE PARTIES AGREE AS FOLLOWS:**

**ARTICLE 1: OBJECTIVE**

- 1.1 Subject to the terms of this Memorandum of Understanding and the laws, rules, regulations and national policies from time to time in force in each Party's country, the Parties shall endeavour to strengthen, promote and develop

international and research co-operation between the Parties on the basis of equality and mutual benefit.

## **ARTICLE 2: AREAS OF CO-OPERATION**

- 2.1 Both Parties agree to encourage to promote international academic and research co-operation in the following areas:
- (a) Institutional exchanges between faculty and researchers from each partner institution;
  - (b) Organisation of training programmes, symposia, conferences, short courses and meetings on research issues in hydrological problems of mutual interest;
  - (c) Exchange of information, resources and expertise pertaining to developments in hydrometeorological and hydrogeological monitoring (ground and satellite observations), flash floods, floods and droughts, groundwater and its management (including depletion, pollution and seawater intrusion risks), climate change and natural hazards (floods, landslides, melting glaciers, earthquakes) studies, methodologies, research and innovation;
  - (d) Acceptance of IIT Roorkee graduate students for collaborative research between the Parties for periods of study and/or research; and
  - (e) Co-operation in any other areas of interest of the Parties, as agreed to by the Parties.
- 2.2 For the purpose of implementing the co-operation in respect of any areas stated in paragraph 2.1, the Parties shall enter into legally binding agreements subject to terms and conditions as mutually agreed upon by the parties including clauses on "confidentiality", "suspension", "protection of intellectual property rights" and "settlement of disputes".

## **ARTICLE 3: FINANCIAL ARRANGEMENTS**

- 3.1 This Memorandum of Understanding shall not give rise to any financial obligation by one Party to the other Party.
- 3.2 Each Party shall bear its own cost and expenses in the implementation of this Memorandum of Understanding.
- 3.3 The activities referred to under this Memorandum of Understanding may be financed with funds allocated under the budgets of the Parties made available by appropriate agreements between Italian and Indian funding agencies.

## **ARTICLE 4: EFFECT OF THE MEMORANDUM OF UNDERSTANDING**

- 4.1 This Memorandum of Understanding serves as a record of the Parties' intentions, and does not constitute or create, and is not intended to constitute or create, obligations under domestic or international laws, shall not give rise to any legal process, and shall not be deemed to constitute or create any legally binding or enforceable obligations, express or implied.

#### **ARTICLE 5: NO AGENCY**

- 5.1 Nothing contained herein is to be construed so as to constitute a joint venture partnership or formal business organisation of any kind between the Parties, or so to constitute either party as the agent of the other.

#### **ARTICLE 6: ENTRY INTO EFFECT AND DURATION**

- 6.1 This Memorandum of Understanding shall become effective as of the date of signatures of both parties, or if the dates or, if the dates vary, then the date of the later signature
- 6.2 This Memorandum of Understanding shall remain in effect for a period of FIVE (5) years.
- 6.3 This Memorandum of Understanding may be extended for such further period as may be agreed in writing by both parties.
- 6.4 If the Memorandum of Understanding is not renewed by mutual consent, the Memorandum of Understanding shall conclude at the end of the specified period, or after activities in progress have concluded.

#### **ARTICLE 7: REVISION, VARIATION AND AMENDMENT**

- 7.1 Either Party may request in writing a revision, variation or amendment of this Memorandum of Understanding.
- 7.2 Any such revision, variation or amendment agreed to by the Parties shall be in writing and shall form part of this Memorandum of Understanding.
- 7.3 Such revision, variation or amendment shall come into force on such date as may be determined by the Parties.
- 7.4 Any revision, variation or amendment shall not prejudice the implementation of any project, activity or co-operation arising from or based on this Memorandum of Understanding before or up to the date of such revision, variation or amendment.

#### **ARTICLE 8: TERMINATION**

- 8.1 This Memorandum of Understanding may be terminated by either party with a minimum of thirty (30) days written notice. Activities in progress at the time of termination of this Memorandum of Understanding shall be permitted to conclude as planned unless otherwise agreed.

#### **ARTICLE 9: NOTICES**

- 9.1 Any communication under this Memorandum of Understanding shall be in writing in the English language and delivered by registered mail to the address or sent to the electronic mail address or facsimile number of CNR IRPI, or to IIT Roorkee as the case may be, shown below or to such other address or electronic, mail address or facsimile number as either Party may have notified the other Party and shall, unless otherwise provided herein, be deemed to be duly given or made when delivered to the recipient at such address or electronic mail address or facsimile number which is duly acknowledged:

To: CNR IRPI  
Attention: Dr. Tommaso Moramarco, CNR IRPI Director  
Address: CNR IRPI, Via Madonna Alta 126, 06128 Perugia, Italy  
Tel.: +39 075 5014402 | Fax: +39 075 5014420  
e-mail: direttore@irpi.cnr.it

To: Indian Institute of Technology Roorkee  
Attention: Prof. Ajit Kumar Chaturvedi, Director, IIT Roorkee  
Address: Indian Institute of Technology Roorkee, Roorkee, Roorkee-247 667,  
Uttarakhand, India  
Tel.: +91-1332-285500 | Fax: +91-1332-285815  
e-mail: director@iitr.ac.in

#### **ARTICLE 10: ETHICAL STANDARDS**

- 10.1 The Parties will maintain the highest ethical standards in all activities conducted under this Memorandum of Understanding.

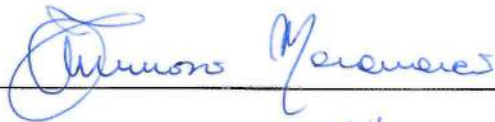
#### **ARTICLE 11: AUTONOMY OF THE PARTIES**

- 11.1 The Notwithstanding anything contained in this Memorandum of Understanding, each Party retains its autonomy to conduct research and development activities independently of this Memorandum of Understanding

This Memorandum of Understanding is signed in duplicate, both copies equally authentic and of equal effect.

For the Istituto di Ricerca per la Protezione Idrogeologica, of the Italian National Research Council

The Director, Dr. Tommaso Moramarco



Signed in Perugia, Italy, on <sup>11th</sup> June 2021.

For the Indian Institute of Technology Roorkee

The Director, Prof. Ajit Kumar Chaturvedi



Signed in Roorkee, India, on ... June 2021.

**MEMORANDUM OF UNDERSTANDING**  
BETWEEN  
**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, THE REPUBLIC OF INDIA**  
AND  
**CONSIGLIO NAZIONALE DELLE RICERCHE, RESEARCH INSTITUTE FOR GEO-HYDROLOGICAL PROTECTION, ITALY**  
**ON FRIENDSHIP AND CO-OPERATION, PROMOTION OF MUTUAL UNDERSTANDING, ACADEMIC, SCIENTIFIC THOUGHT AND PERSONNEL EXCHANGE**

**THIS MEMORANDUM OF UNDERSTANDING IS**

BETWEEN

The **ISTITUTO DI RICERCA PER LA PROTEZIONE IDROGEOLOGICA (RESEARCH INSTITUTE FOR GEO-HYDROLOGICAL PROTECTION)** (hereinafter referred to as "CNR IRPI"), a research institute of the Italian Consiglio Nazionale delle Ricerche (National Research Council. CNR);

AND

The **INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, INDIA** (hereinafter referred to as "IIT Roorkee"), an Institute whose address is at Indian Institute of Technology Roorkee, Roorkee-247 667, Uttarakhand, India and shall include its lawful representatives and permitted assigns;

CNR IRPI and IIT Roorkee shall hereinafter be referred to singularly as "the Party" and collectively as "the Parties").

**CONSIDERING**

- A. That CNR IRPI is an established research institute within CNR of excellence and research and with a dynamic programme of collaborative arrangements with many international counterparts;
- B. That IIT Roorkee is an established educational institute with proven research and educational abilities, and with collaborative arrangements with many counterparts to share its expertise and enhance its academic links and co-operation; and
- C. the Parties are willing and have a mutual interest to establish a basis for scientific, technical and educational co-operation and collaboration, upon the terms as contained herein.

**THE PARTIES AGREE AS FOLLOWS:**

**ARTICLE 1: OBJECTIVE**

- 1.1 Subject to the terms of this Memorandum of Understanding and the laws, rules, regulations and national policies from time to time in force in each Party's country, the Parties shall endeavour to strengthen, promote and develop

international and research co-operation between the Parties on the basis of equality and mutual benefit.

## **ARTICLE 2: AREAS OF CO-OPERATION**

- 2.1 Both Parties agree to encourage to promote international academic and research co-operation in the following areas:
- (a) institutional exchanges between faculty and researchers from each partner institution;
  - (b) organisation of training programmes, symposia, conferences, short courses and meetings on research issues in hydrological problems of mutual interest;
  - (c) exchange of information, resources and expertise pertaining to developments in hydrometeorological monitoring (ground and satellite observations), flash floods, floods and droughts, groundwater, climate change and natural hazards (floods, landslides, melting glaciers, earthquakes) studies, methodologies, research and innovation;
  - (d) acceptance of IIT Roorkee graduate students for collaborative research between the Parties for periods of study and/or research; and
  - (e) co-operation in any other areas of interest of the Parties, as agreed to by the Parties.
- 2.2 For the purpose of implementing the co-operation in respect of any areas stated in paragraph 2.1, the Parties shall enter into legally binding agreements subject to terms and conditions as mutually agreed upon by the parties including clauses on "confidentiality", "suspension", "protection of intellectual property rights" and "settlement of disputes".

## **ARTICLE 3: FINANCIAL ARRANGEMENTS**

- 3.1 This Memorandum of Understanding shall not give rise to any financial obligation by one Party to the other Party.
- 3.2 Each Party shall bear its own cost and expenses in the implementation of this Memorandum of Understanding.
- 3.3 The activities referred to under this Memorandum of Understanding may be financed with funds allocated under the budgets of the Parties made available by appropriate agreements between Italian and Indian funding agencies.

## **ARTICLE 4: EFFECT OF THE MEMORANDUM OF UNDERSTANDING**

- 4.1 This Memorandum of Understanding serves as a record of the Parties' intentions, and does not constitute or create, and is not intended to constitute or create, obligations under domestic or international laws, shall not give rise to any legal process, and shall not be deemed to constitute or create any legally binding or enforceable obligations, express or implied.

## **ARTICLE 5: NO AGENCY**

- 5.1 Nothing contained herein is to be construed so as to constitute a joint venture partnership or formal business organisation of any kind between the Parties, or so to constitute either party as the agent of the other.

## **ARTICLE 6: ENTRY INTO EFFECT AND DURATION**

- 6.1 This Memorandum of Understanding shall become effective as of the date of signatures of both parties, or if the dates or, if the dates vary, then the date of the later signature
- 6.2 This Memorandum of Understanding shall remain in effect for a period of THREE (3) years.
- 6.3 This Memorandum of Understanding may be extended for such further period as may be agreed in writing by both parties.
- 6.4 If the Memorandum of Understanding is not renewed by mutual consent, the Memorandum of Understanding shall conclude at the end of the specified period, or after activities in progress have concluded.

## **ARTICLE 7: REVISION, VARIATION AND AMENDMENT**

- 7.1 Either Party may request in writing a revision, variation or amendment of this Memorandum of Understanding.
- 7.2 Any such revision, variation or amendment agreed to by the Parties shall be in writing and shall form part of this Memorandum of Understanding.
- 7.3 Such revision, variation or amendment shall come into force on such date as may be determined by the Parties.
- 7.4 Any revision, variation or amendment shall not prejudice the implementation of any project, activity or co-operation arising from or based on this Memorandum of Understanding before or up to the date of such revision, variation or amendment.

## **ARTICLE 8: TERMINATION**

- 8.1 This Memorandum of Understanding may be terminated by either party with a minimum of thirty (30) days written notice. Activities in progress at the time of termination of this Memorandum of Understanding shall be permitted to conclude as planned unless otherwise agreed.

## **ARTICLE 9: NOTICES**

- 9.1 Any communication under this Memorandum of Understanding shall be in writing in the English language and delivered by registered mail to the address or sent to the electronic mail address or facsimile number of CNR IRPI, or to IIT Roorkee as the case may be, shown below or to such other address or electronic, mail address or facsimile number as either Party may have notified the other Party and shall, unless otherwise provided herein, be deemed to be duly given or made when delivered to the recipient at such address or electronic mail address or facsimile number which is duly acknowledged:

To: CNR IRPI  
Attention: Dr. Fausto Guzzetti, CNR IRPI Director  
Address: CNR IRPI, Via Madonna Alta 126, 06128 Perugia, Italy  
Tel.: +39 075 5014402 | Fax: +39 075 5014420  
e-mail: direttore@irpi.cnr.it

To: Indian Institute of Technology Roorkee  
Attention: Prof. Ajit Kumar Chaturvedi, Director, IIT Roorkee  
Address: Indian Institute of Technology Roorkee, Roorkee, Roorkee-247 667,  
Uttarakhand, India  
Tel.: +91-1332-285500 | Fax: +91-1332-285815  
e-mail: director@iitr.ac.in

#### ARTICLE 10: ETHICAL STANDARDS

10.1 The Parties will maintain the highest ethical standards in all activities conducted under this Memorandum of Understanding.

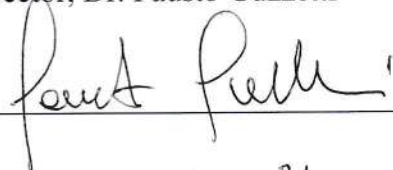
#### ARTICLE 11: AUTONOMY OF THE PARTIES

11.1 The Notwithstanding anything contained in this Memorandum of Understanding, each Party retains its autonomy to conduct research and development activities independently of this Memorandum of Understanding

This Memorandum of Understanding is signed in duplicate, both copies equally authentic and of equal effect.

For the Istituto di Ricerca per la Protezione Idrogeologica, of the Italian National Research Council


The Director, Dr. Fausto Guzzetti

  
\_\_\_\_\_



IL DIRETTORE  
Dott. Fausto Guzzetti

Signed in Perugia, Italy, on 31 July 2017.

  
For the Indian Institute of Technology Roorkee  
The Director, Prof. Ajit Kumar Chaturvedi

\_\_\_\_\_  
Signed in Roorkee, India, on 31 July 2017.