



**WAPDA**  
Water and Power Development Authority

**MEMORANDUM OF UNDERSTANDING (MOU)**  
**BETWEEN**  
**NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY (NUST)**  
**AND**  
**WATER AND POWER DEVELOPMENT AUTHORITY (WAPDA)**

## **Memorandum of Understanding (MOU)**

**Between**

**National University of Sciences and Technology (NUST)**

**And**

**Water and Power Development Authority (WAPDA)**

### **PREAMBLE**

This Memorandum of Understanding (MOU) is entered into by and between **National University of Sciences and Technology (NUST)** hereafter “**NUST**” with a registered address at H-12, Islamabad, Pakistan and **Water and Power Development Authority** hereafter “**WAPDA**” with a registered address at Wapda House, Sharah-e-Quaid-e-Azam, Lahore, Pakistan. NUST and WAPDA are referred to collectively, as “**Parties**” or individually as “**Party**.”

### **1. Description of Parties**

#### **National University of Sciences and Technology (NUST)**

National University of Sciences and Technology (NUST) is a Pakistan leading university and premier national institution that has won global acclaim within a short span of time. Various constituent schools and colleges functioning under the umbrella of NUST are imparting high-quality education at both undergraduate and postgraduate levels in the disciplines of Engineering, Management and Social Sciences, Information Technology, Medicine and Basic Sciences. The School of Civil and Environmental Engineering (SCEE) providing education in civil and environmental engineering related disciplines with BE in Civil Environmental and Geo-informatics as well as advanced postgraduate degree programs in Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering and Management, Environmental Engineering, Remote Sensing and Geographic Information Systems, Construction Engineering and Management and Environmental Science.

#### **Water and Power Development Authority (WAPDA)**

WAPDA, the Pakistan Water and Power Development Authority, was created in 1958 as a semi-autonomous body for the purpose of coordinating and giving a unified direction to the development of schemes in Water and Power Sectors, which were previously being dealt with the respective Electricity and Irrigation Department of the Provinces. The present Charter of Duties of WAPDA is to investigate, plan and execute schemes for the following fields: (a) Hydel generation; (b) irrigation water supply and drainage; (c) prevention of water logging and reclamation of waterlogged and saline lands; (d) flood management; and (e) inland navigation.

### **2. PURPOSE & SCOPE**

Both parties recognize the need for the mutual cooperation to develop joint training and research activities for addressing water security and quality challenges through improved water governance and efficient water resources management. Parties will regularly consult on matter of common interests or other research areas in scope of both of the organizations that will bring benefits to both the parties or hereby agree to cooperate. Following functions will be performed by both the parties:

## **2.1. Functions:**

- 2.1.1. Planning and implementation of joint applied research projects and activities covering different aspects of water resources management including water demand and supply, efficient use of water, climate change, impact and adaptation, ground and surface water governance, water logging & salinity and water quality.
- 2.1.2. Raising public awareness about water management issues and providing evidence base analysis to policy makers to translate research results into policy actions.
- 2.1.3. Contribute to the capacity building events convened jointly or independently through scholarly lectures and presentations on analysis of water related issues. The Faculty of SCEE will be invited to deliver lectures in WAPDA Training Institutes on Project Management areas and other related topics when required as mutually agreed upon by both the parties.
- 2.1.4. Share the information on events and activities of common interest especially research projects related to water sustainability issues.
- 2.1.5. Exchange and training of scientific and technical personnel for research and development related to water security, water quality and water use for energy & food production.
- 2.1.6. Pursuing joint scientific research and development related to water security issues. Holding of joint conferences, seminars and workshops at National and International level
- 2.1.7. Access of NUST to data, library, and labs at the institutions and establishments of WAPDA and vice versa.
- 2.1.8. Internships of students at the establishments of WAPDA and its projects and facilitate student visits to different project sites relevant to their areas of study / research including hydro-projects sites under construction. The students will use data and information collected during these visits to complete their research. Co Supervision of student's research projects will be carried out. WAPDA may provide research areas and topics of research.
- 2.1.9. Provide access to available data and information as per WAPDA's policy to support thesis / dissertation research of graduate students in general and implementation of applied policy research program of NUST in particular.
- 2.1.10. Designate focal persons from both sides to strengthen and streamline coordination for programming, planning, review and evaluation meetings and development of joint proposals for future areas of activities.
- 2.1.11. Any other form of cooperation upon which both parties may agree

### **3. REPRESENTATION AND COMMUNICATION**

- 3.1. All activities conducted under this MoU must be approved by the authorised signatories to this MoU or as agreed between the Parties from time to time, subject to the availability of funds and resources of each Party. All activities shall be undertaken in accordance with established policies and procedures of the Parties, and the same shall also be subject to other legally binding commitments and agreements entered into between the Parties in respect of specific activities and projects, in accordance with Section 2.1 of this MoU.
- 3.2. For the purpose of this MoU, all communications will be made through e-mail and letterhead where required. All meetings between the appointed representatives shall be held as deemed necessary and in accordance with section 3.3 below.
- 3.3. The appointed representative/s of the Parties shall meet as often as possible and at a mutually convenient time and venue agreed upon between the Parties. The objective of these meetings shall be to review the implementation of this MoU and such appointed representatives will be bound to jointly carry out a comprehensive review of achievements under this MoU within a year of the date of signing.
- 3.4. Beneficiaries under this MOU will be selected on the basis of merit without regard to race, national or ethnic origin, colour, religion, age, gender, marital status, physical handicap etc. Both parties will accept the participant selected by the other party if mutually acceptable academia and/or professional qualifications and standards are met.

### **4. INFORMATION, PUBLICATIONS AND INTELLECTUAL PROPERTY**

- 4.1. As stated above, any specific joint projects with legally binding obligations will be set forth in separate written agreements. Treatment of intellectual property rights developed through collaborations under this MoU will be determined between the Parties through mutual consultation and separate written agreements on a case-by-case basis.
- 4.2. All information, data, methods, tools, research results, and other intellectual assets developed by any Party prior to signature of this MOU shall remain the property of that Party.
- 4.3. All information, data, methods, tools, research results, and other intellectual assets developed through joint collaboration shall remain the property of both parties and can be used by mutual consent and approvals by representatives.
- 4.4. The Parties will not transfer to third parties or sell or commercialize in any form the intellectual property conceived or made during collaborative projects/research without prior written approval of the other Party.
- 4.5. The Parties agree that there is no intention to share any confidential or proprietary information in any collaboration under this MOU. If either Party wishes to disclose information it considers to be confidential or proprietary to the other Party, the Parties will enter into a written non-disclosure agreement.
- 4.6. Any publication, presentations and other communications created jointly as a result of collaborative research or activities conducted under the MoU shall be reviewed and approved in accordance with the policies of both Parties prior to publication or presentation and with appropriate recognition of each Party's contributions. The source of information or research results will be appropriately referenced and/or acknowledged in any publication by each Party.

## 5. AMENDMENTS

- 5.1. This MoU may be amended or modified only by mutual consent of the Parties in writing. The Parties expressly waive all provisions contained in any past agreement or correspondence, which negate, limit, extend or conflict with the provisions herein.
- 5.2. The working arrangements set forth in this MoU will be reviewed from time to time by the appointed representatives designated, such appointed representatives will be responsible for the implementation of the objectives set forth herein.

## 6. DURATION

This MoU shall be effective for a period of 3 years from the date of final signature. It may be modified or extended by mutual written agreement by the Parties. This MoU may be terminated by either party upon 60 days advance written notice.

## 7. POINTS OF CONTACT

The following designated officials will be the points of contact for the implementation of this MOU:

**NUST:** Prof. Dr. Hamza Farooq Gabriel, HoD (WRE&M), NICE, SCEE, NUST, Islamabad.  
E-mail: [hamza.gabriel@nice.nust.edu.pk](mailto:hamza.gabriel@nice.nust.edu.pk) Tel.: 051-90854159, 03224590247

**WAPDA:** Mr. Khalid Pervaiz, Chief Engineer (Coordination) C&M Water(Ex-officio), 520-Wapda House, Lahore. Telephone: 0333-4496955, Fax: 042-99202154, E-mail: [evaluation\\_directorate@yahoo.com](mailto:evaluation_directorate@yahoo.com)

**The Parties to this Memorandum of Understanding hereby confirm their agreement to its terms by the following signatures:**

For &On behalf of:  
NUST



Name: Engr. Muhammad Asghar

**Title: Rector,**  
National University of Sciences & Technology (NUST),  
Sector H-12  
Islamabad, Pakistan.

Date: 19 July 2016

For &On behalf of:  
WAPDA



Name: Zafar Mahmood

**Title: Chairman,**  
Water and Power Development Authority (WAPDA),  
Wapda House, Lahore  
Pakistan

Date: \_\_\_\_\_