

Format for Biennial Reports by UNESCO's Water-related Centres on activities related to the IHP in the period (June 2014 – May 2016)

1. Basic information on the centre

Name of the Centre		Regional Centre on Urban Water Management (RCUWM-Tehran)
Name of Director		Dr. Ali Chavoshian
Name and title of contact person (for cooperation)		Mr. Alireza Salamat
E-mail		info@rcuwm.org.ir , chavoshian@gmail.com
Address		#1, Shahrshaz Lane, Kargozar St., Dastgerd 5i Ave., Tehran 1919839713, Iran
Website		www.rcuwm.org.ir
Location of centre		city/town <u>Tehran</u> country <u>IRAN</u>
Geographic orientation *		<input type="checkbox"/> global <input checked="" type="checkbox"/> regional
Region(s) (for regional centres)		Middle East and North Africa
Year of establishment		February 2002
Year of renewal assessment		2008 -2013 (request made to be renewed)
Signature date of most recent Agreement		8 January 2010
Themes of activities during reporting period	Focal Areas ·	<input checked="" type="checkbox"/> groundwater <input checked="" type="checkbox"/> urban water management <input type="checkbox"/> rural water management <input checked="" type="checkbox"/> arid / semi-arid zones <input type="checkbox"/> humid tropics <input type="checkbox"/> cryosphere (snow, ice, glaciers) <input checked="" type="checkbox"/> water related disasters (drought/floods) <input checked="" type="checkbox"/> Erosion/sedimentation, and landslides <input checked="" type="checkbox"/> ecohydrology/ecosystems <input checked="" type="checkbox"/> water law and policy <input checked="" type="checkbox"/> social/cultural/gender dimension of water <input type="checkbox"/> transboundary river basins/ aquifers <input type="checkbox"/> mathematical modelling <input type="checkbox"/> hydroinformatics <input checked="" type="checkbox"/> remote sensing/GIS <input checked="" type="checkbox"/> IWRM <input type="checkbox"/> Watershed processes/management <input checked="" type="checkbox"/> global and change and impact assessment <input checked="" type="checkbox"/> mathematical modelling <input checked="" type="checkbox"/> water education <input checked="" type="checkbox"/> water quality <input type="checkbox"/> nano-technology <input checked="" type="checkbox"/> waste water management/re-use <input checked="" type="checkbox"/> water/energy/food nexus <input checked="" type="checkbox"/> water systems and infrastructure <input type="checkbox"/> other: (please specify) _____
	Scope of Activities ·	<input type="checkbox"/> vocational training <input type="checkbox"/> postgraduate education <input type="checkbox"/> continuing education <input checked="" type="checkbox"/> public outreach <input checked="" type="checkbox"/> research <input checked="" type="checkbox"/> institutional capacity-building <input checked="" type="checkbox"/> advising/ consulting <input type="checkbox"/> software development <input checked="" type="checkbox"/> data-sets/data-bases development

* check on appropriate box
 · check all that apply

	<input type="checkbox"/> other: (please specify) _____
Support bodies ¹	Government of I.R. Iran
Hosting organization ²	Ministry of Energy, I.R. Iran
Sources of financial support ³	Ministry of Energy and related organizations, Tehran Municipality, some Governing Board Members States and seed resources from UNESCO
Existing networks and cooperation ⁴	UNESCO-IHP (IDI, IFI, G-WADI, HELP, other UNESCO Cat. II Centres, etc.), UNESCO-IHE, UNHABITAT, GWP, JICA, ICID, ICOLD
Governance	<input checked="" type="checkbox"/> director and governing board <input type="checkbox"/> other: (please specify) _____ Link to election of board members to the IHP Intergovernmental Council (IGC) and hosting country IHP National Committee _____ Frequency of meetings: once every ___year(s) <input checked="" type="checkbox"/> Existence of UNESCO presence at meetings
Institutional affiliation of director	
Number of staff and types of staff	total number of staff (full-time, or equivalent) : ___ 15 _____ number of staff who are water experts: ___ 12 _____ number of visiting scientists and postgraduate students: ___ 5 _____
Annual turnover budget in USD	~ 500 000 USD

2. Activities undertaken in the framework of IHP in the period June 2014 – May 2016

- 2.1 Educational activities (i.e., those with accreditation) that directly contributed to the IHP-VIII (Appendix 1) and WWAP
Please include here those activities which led to accreditation of degrees, or those held in formal school settings.
- 2.2 Research activities that directly contributed to the IHP-VIII activities
Please include research/applied projects outputs such as publications that directly contributed to the IHP-VIII and WWAP objectives
- *Integrated Plan on Restoration and Rehabilitation of Tehran rivers and Qanats*
 - *Water Security Index in different water basins of Iran*
 - *Estimation of Non-Revenue Water in one of the cities of Iran*
 - *Drought Monitoring in Urmia Lake*
 - *research on public awareness tools for water saving*
 - *IWRM pilot project in one of the Iranian basins*
- 2.3 Training activities that directly contributed to the IHP-VIII and WWAP objectives
- *Holding International Seminar on "Use of Unconventional Water in Urban Water Management", Muscat, Oman, February 2014*
 - *Holding the 6th Asian G-WADI in Tehran, June 2015*

¹ please specify bodies that cover the operational costs of the centre, and other essential costs such as salaries and utility bills, and that provide institutional support to ensure centre's sustainability

² if different from support bodies

³ please specify sources of main budgetary and extra budgetary funds to implement projects

⁴ please write international networks, consortiums or projects that the centre is part of, or any other close links that the centre has with international organizations or programmes, which are not already mentioned above

- *Holding the 2nd IDI Expert Group Meeting, June 2015*
- *Holding Training Workshop on "Vacuum Pressure Wastewater Collection Network", Tehran, July 2015*
- *Technical Training Workshop on "Advances in Integrated Hydro-Electric Reservoirs Operation", May 2015*
- *Training Workshop on Water and Media, Tehran, November 2015*
- *Regional Workshop on and Roundtable Discussion on Exploring Different Approaches aimed at Overcoming Environmental Sustainability Challenges", Tehran, November 2015*
- *Think tank meeting on addressing the approaches and aims of the*
- *Integrated Plan on Restoration and Rehabilitation of Tehran rivers and Qanats, Tehran, August 2015.*
-

3. Collaboration and linkages

- 3.1 Participation in major international networks, programmes, partnerships with other UN or other International Agencies, media and professional bodies
- *Participating in the 7th World Water Forum, South Korea, 2015*
 - *Participating in the 6th Asian G-WADI Network, Tehran, June 2015*
 - *Participating in IKCEST Workshop on huge data application management, Hangzhou, China, December 2015*
- 3.2 Participation in meetings related to the IHP and UNESCO (e.g. the UNESCO General Conference, the UNESCO Executive Board, the IHP Intergovernmental Council and/or other meetings organized by IHP)
- *Participating in the 21st UNESCO-IHP Intergovernmental Council, June 2014*
 - *Participating in the Category-II Directors Meeting, Koblenz-Germany, November 2014*
 - *Participating in the International Expert Symposium "Coping with Droughts", Santiago - Chile, August 2014*
 - *Participating in German Global Climate Change Category II Centre Governing Board, July 2015*
- 3.3 Collaboration and networking with other UNESCO category 1 or 2 institutes/ centres
- *cross-appointment of directors of the category 1 or 2 institutes or centres on the governing board*
 - *ICQHS - Yazd*
 - *German Global Climate Change Centre*
 - *ICHARM- Japan*
 - *IKCEST- Beijing*
- 3.3.1 exchange of information on activities such as training/educational materials, and funding opportunities
- *MoU with ICHARM*
 - *MoU with German Global Change Centre*
 - *MoU with the Water for sustainable Development and adaptation to Climate Change Centre (WSDAC), Serbia, Belgrade*
 - *MoU with International Knowledge Centre for Engineering, Sciences and Technology (IKCEST-Beijing)- Under process*
- 3.3.2 exchange of staff, most notably professionals and students
- 3.3.3 implementation of joint activities, such as workshops, conferences, training programmes, joint projects, field visits, software and data sharing, knowledge exchange and publications
- *Exchange of staff between the Central European University and our Centre*
 - *All of the above mentioned in item 2.3.*

- 3.4 Relationships with the UNESCO field and regional office whose jurisdiction covers the country of location
 - *UNESCO Tehran Cluster Office (UTCO)*
- 3.5 Relationship with the UNESCO National Commission and the IHP National Committee in the country of location and with other organizations of other countries
 - *Iranian National Commission for UNESCO)*
 - *Iranian National IHP Committee*
- 3.6 Relationship with other UNESCO-related networks, such as UNESCO Clubs, ASPnet, and UNESCO chairs
 - *UNESCO Chair in Water and Environment Management for Sustainable Cities, Sharif University of Technology*
 - *UNESCO Chair in Biology, University of Tehran, Iran.*

4. Communication

- 4.1 Communication and knowledge dissemination activities undertaken in the framework of IHP
- 4.2 Policy documents and advice
 - *Close communication with the Iran National Commission for UNESCO (NATCOM)*
 - *Providing comments on the Iran IHP National Committee Constitution*
 - *Close communication with UNESCO Tehran Cluster Office on the concerned activities*

5. Update on Centre Operations

- 5.1 Membership of the Board of Governors between designated period
 - *Membership of RCUWM in German Global Change Centre- Koblenz*
- 5.2 Key decisions made (attach minutes of meetings)

6. Evidence of the Centre's Impacts

- 6.1 Science Impacts (Major contributions to the science, technology, education, and regional and/or international cooperation in the field of water)
 - *An evaluation form has been compiled and filled by the participants of our training courses enabling us to evaluate the scientific impacts of the Centre's activities.*
 - *Promoting public awareness on water related issues throughout the region.*
 - *Scientific training material published by RCUWM on UNESCO urban water management articles (translated in Farsi).*
- 6.2 Knowledge Transfer Impacts (Major achievements in the dissemination of knowledge and technology transfer)
 - *Promoting knowledge and experience exchange among the experts in the region by holding training events.*
 - *Creating appropriate opportunities for participants who attended RCUWM's activities for mutual cooperation and transferring their experiences.*
- 6.3 Policy Impacts (advice sought by government and other bodies and evidence of inputs into policy arena)
 - *Drought consequences have been highlighted and political wills have been mobilized for taking necessary actions.*
 - *As RCUWM acts as interim secretariat of International Drought Initiative (IDI), many high rank authorities have been invited to attend the related events enabling us to prepare the IDI Road Map as a policy guideline in the related subjects to drought*
 - *Compiling the guidelines on "Promotion of the international activities of the Deputy of Water and Wastewater Affairs, Ministry of Energy, Iran*

7. Future activities that will contribute directly to IHP and/or to WWAP

- 7.1 Operational Plan (attach if available)
 - *Items cited in part 2.2.*
- 7.2 Strategic Plan linked with IHP-VIII (Appendix 1). Focal areas within IHP-VIII the centre plans to contribute to and specific actions the centre will undertake to align its activities with the strategic plan for IHP-VIII
 - *Translating one of UNESCO publications in the related fields to Farsi*
 - *Participating in UNESCO related events,*
 - *Extension of RCUWM activities for the 3rd 5-year period, evaluation by UNESCO Experts, mid 2014*
 - *Holding the 10th RCUWM GB Meeting in one of the member countries*
 - *Holding an international drought event, in the framework of IDI activities*

8. Annexes

- 8.1 List of publications released by the centre (there can be overlap with those listed in 2.3 above)
 - *Integrated urban Water management in Arid and Semi Arid Regions (Farsi).*
- 8.2 List of training courses conducted (there can be overlap with those listed in 2.1 above)
 - *Training Workshop on "Vacuum Pressure Wastewater Collection Network", Tehran, July 2015*
 - *Technical Training Workshop on "Advances in Integrated Hydro-Electric Reservoirs Operation", May 2015*
 - *Training Workshop on Water and Media, Tehran, November 2015*

Appendix 1

Overview of the Core Programme Themes of the Eighth Phase of the IHP (2014-2021) WATER SECURITY: ADDRESSING LOCAL, REGIONAL, AND GLOBAL CHALLENGES

THEME 1: WATER-RELATED DISASTERS AND HYDROLOGICAL CHANGE

- Focal area 1.1 - Risk management as adaptation to global changes
- Focal area 1.2 - Understanding coupled human and natural processes
- Focal area 1.3 - Benefiting from global and local Earth observation systems
- Focal area 1.4 - Addressing uncertainty and improving its communication
- Focal area 1.5 - Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events

THEME 2: GROUNDWATER IN A CHANGING ENVIRONMENT

- Focal area 2.1 - Enhancing sustainable groundwater resources management
- Focal area 2.2 - Addressing strategies for management of aquifers recharge
- Focal area 2.3 - Adapting to the impacts of climate change on aquifer systems
- Focal area 2.4 - Promoting groundwater quality protection
- Focal area 2.5 - Promoting management of transboundary aquifers

THEME 3: ADDRESSING WATER SCARCITY AND QUALITY

- Focal area 3.1 - Improving governance, planning, management, allocation, and efficient use of water resources
- Focal area 3.2 - Dealing with present water scarcity and developing foresight to prevent undesirable trends
- Focal area 3.3 - Promoting tools for stakeholders involvement and awareness and conflict resolution
- Focal area 3.4 - Addressing water quality and pollution issues within an IWRM framework - improving legal, policy, institutional, and human capacity
- Focal area 3.5 - Promoting innovative tools for safety of water supplies and controlling pollution

THEME 4: WATER AND HUMAN SETTLEMENTS OF THE FUTURE

- Focal area 4.1 - Game changing approaches and technologies
- Focal area 4.2 - System wide changes for integrated management approaches
- Focal area 4.3 - Institution and leadership for beneficitation and integration
- Focal area 4.4 - Opportunities in emerging cities in developing countries
- Focal area 4.5 - Integrated development in rural human settlement

THEME 5: ECOHYDROLOGY, ENGINEERING HARMONY FOR A SUSTAINABLE WORLD

- Focal area 5.1 - Hydrological dimension of a catchment– identification of potential threats and opportunities for a sustainable development
- Focal area 5.2 - Shaping of the catchment ecological structure for ecosystem potential enhancement – biological productivity and biodiversity
- Focal area 5.3 - Ecohydrology system solution and ecological engineering for the enhancement of water and ecosystem resilience and ecosystem services
- Focal area 5.4 - Urban Ecohydrology – storm water purification and retention in the city landscape, potential for improvement of health and quality of life
- Focal area 5.5 - Ecohydrological regulation for sustaining and restoring continental to coastal connectivity and ecosystem functioning

THEME 6: WATER EDUCATION, KEY FOR WATER SECURITY

- Focal area 6.1 - Enhancing tertiary water education and professional capabilities in the water sector
- Focal area 6.2 - Addressing vocational education and training of water technicians
- Focal area 6.3 - Water education for children and youth
- Focal area 6.4 - Promoting awareness of water issues through informal water education
- Focal area 6.5 - Education for transboundary water cooperation and governance