**PROGRAM**

**Sub-Regional Experts Meeting on Groundwater Management**

**3-4 August, 2017, Islamabad, Pakistan**

**Inaugural Session**

**Location: Auditorium, PCRWR, Headquarters, H-8/1, Islamabad**

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| Time | | Activity |
| 10.00 | 10.05 | Guests to be seated and arrival of the Chief Guest |
| 10.05 | 10.10 | Recitation from Holy Quran |
| 10.10 | 10.20 | Welcome Address by Chairman, PCRWR – Dr. Muhammad Ashraf |
| 10.20 | 10.30 | Remarks by Director, UNESCO Pakistan – Ms. Vibeke Jensen |
| 10.30 | 10.40 | Remarks by President ECOSF – Prof. Dr. Manzoor Hussain Soomro |
| 10.40 | 10.50 | Remarks by UNESCO AP Regional Director – Prof. Dr. Shahbaz Khan |
| 10.50 | 11.00 | Address by the Chief Guest – Mr. Fazal Abbas Maken, Federal Secretary, Ministry of Science and Technology |
| 11.00 | 11.30 | Group Photograph and Tea break |

**Technical Sessions**

**Location: Committee Room, PCRWR, Headquarters, H-8/1, Islamabad**

**Day 1**

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| Time | | Activity |  |
| **Technical Session I**  **Chair:** Prof. Dr. Shahbaz Khan, Regional Director, UNESCO Jakarta Office, Indonesia  **Rapporteur:** Mr. Naveed Iqbal, Assistant Director, PCRWR | | | |
| 11.30 | 11.55 | Groundwater Resources of Pakistan – Issues and Constraints | Dr. Ashfaq Ahmed Sheikh, PCRWR |
| 11.55 | 12.20 | The reasons of crises in Groundwater Resources in Iran and Groundwater Recovery Plan | Mr. Hamid Rahmani, Iran |
| 12.20 | 12.45 | Technical Implications of Groundwater Management Case study of upper Indus Plain Aquifer | Dr. AD Khan, PCRWR |
| 12:45 | 13.10 | Groundwater monitoring and management in Pakistan | Dr. Azeem Shah, IWMI |
| 13.10 | 13.30 | Q&A and discussion |  |
| 13.30 | 14.30 | Lunch and Prayer Break |  |
| **Technical Session II**  **Chair:** Dr. Muhammad Ashraf, Chairman, PCRWR  **Rapporteur:** Mr. Dilshad Arshad, Deputy Director, PCRWR | | | |
| 14.30 | 14.55 | Community based groundwater interventions | Mr. Bilal Khalid, Lead Pakistan |
| 14.55 | 15.20 | Groundwater challenges and options in Punjab | Eng. Ghulam Zakir Hassan Sial, Punjab Irrigation Department |
| 15.20 | 15.45 | Applications of Satellite Remote Sensing for groundwater resource management in Pakistan | Mr. Naveed Iqbal, PCRWR |
| 15.15 | 15.40 | Simulation/Optimization modeling for Groundwater Management | Prof. Dr. M. Shafaqat Ejaz, NED University, Karachi |
| 15.40 | 16.05 | Impacts of climate change and transboundary use of groundwater on aquifer recharge quality and sustainability | Dr. Niaz Ahmad, PINSTECH |
| 16.05 | 16.30 | Q&A and discussion |  |
| 16.30 | 16.45 | Wrap up (Day 1) | Prof. Dr. Shahbaz Khan |
| 16.45 | 17.15 | Tea and End of Day 1 | |

**Day 2**

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| Time | | Activity |  |
| **Technical Session III**  **Chair: TBC**  **Rapporteur:** Ms. Bareerah Fatima, Program Liaison Officer, PCRWR | | | |
| 09.30 | 09.55 | Groundwater resource management in Indus basin through modelling approach | Dr. Arshad Ashraf, NARC |
| 09.55 | 10.20 | Hydrological Cycle and its importance in Groundwater Management | Mr. Awal Hassan, FATA Secretariat, Peshawar |
| 10.20 | 10.45 | Strategies for Management of Aquifer Recharge in Balochistan | Dr. Mobasher Aftab, BUITEMS, Quetta |
| 10.45 | 11.10 | The Role of Academia in Capacity Building of Professionals for Ground Water Management | Dr. Ghulam Nabi, CEWRE, Lahore |
| 11.10 | 11.30 | Tea Break |  |
| 11.30 | 11.55 | Soil fertility and crop productivity: An analysis under different irrigation water qualities and frequencies | Dr. Lubna Anjum, University of Agriculture, Faisalabad |
| 11.55 | 12.15 | Q&A and discussion |  |
| **Group Discussion** | | | |
| 12.15 | 13.30 | Group-I: Facilitated by Prof. Dr. Shahbaz Khan  Group – II: Facilitated by Dr. Muhammad Ashraf  Question 1: Identify the common issues related to groundwater management in the regional countries  Question 2: What are the five key action points for sustainable groundwater management in the region with the perspective of Sustainable Development Goals? |  |
| 13.30 | 14.30 | Lunch and prayer Break |  |
| 14.30 | 15.30 | Group Presentations |  |
| 15.30 | 15.50 | Q&A |  |
| 15.50 | 16.30 | Wrap up Day-2 |  |
| 16.30 | 17.00 | Tea and meeting closed |  |