

Patron in Chief

Dr. Muhammad Ashraf

Editor

Engr. Faizan ul Hasan

Assistant Editor

**M. Saeed A. Mirza
Anwaar Ahmad**

Composer

Zeeshan Munawar

INSIDE

- Launch of the UN World Water Development Report 2020, Groundwater Investigations and Mapping in the Lower Indus Plain and Consultation for Development of Groundwater Management Plan for Pakistan
- Seminar on Localization of Water, Food, Energy and Climate Nexus
- Meeting of the Board of Governors of PCRWR
- Seminar on Delivering National Water Policy in KP-Flow Monitoring in Canals
- Dialogue on Sindh and Balochistan Water Issues
- Open Science Regional Consultation Meeting for Asia Pacific Region
- Meeting of Intergovernmental Hydrological Programme (IHP) Council Members and Observers
- Interview of the Deputy Director (Incharge), WRRC, Quetta for FM Radio Channel
- Socio-economic Consultative RAPs Session
- Rainwater Harvesting for Groundwater Recharge
- Water Quality Survey in Gilgit-Baltistan
- Comparison of Discharge Measurements at Different Rivers of Khyber Pakhtunkhwa
- Scientific Partnership between PCRWR and IWMI Pakistan
- Up-gradation of Trace Metals Laboratory, NWQL PCRWR
- Up-gradation of Microbiological Data Generation Facility of WQL, Gilgit
- Assessment of Water Supply Schemes, Pind Dadan Khan
- Establishment of Research Information Cell in Gilgit
- Bottled Water Quality Monitoring (July-September, 2020)
- Meetings, Visits and Events

Launch of the UN World Water Development Report 2020, Groundwater Investigations and Mapping in the Lower Indus Plain and Consultation for Development of Groundwater Management Plan for Pakistan



Launch of the UN World Water Development Report 2020, Groundwater Investigations and Mapping in the Lower Indus Plain and Consultation for Development of Groundwater Management Plan for Pakistan

PCRWR in partnership with UNESCO Islamabad, The Asia Foundation, the United States Agency for International Development (USAID) and the International Water Management Institute (IWMI) launched two reports on 30th September, 2020. The launch was followed by a stakeholder consultation for the development of the “Groundwater Management Plan” for Pakistan. The consultation was aimed to help the Government of Pakistan with the long-term management of groundwater resources.

Chaudhry Fawad Hussain, Federal Minister for Science and Technology in his remarks said that the present government had substantially increased the water resources development budget of the country. Ms. Patricia McPhillips, UNESCO Representative in Pakistan, Dr. Muhammad Ashraf, Chairman, PCRWR, Mr. Muhammad Nawaz, USAID and Mr. Farid Alam, Director Programs, The Asia Foundation spoke on different aspects of water and climate change.



Chaudhary Fawad Hussain, Minister for Science and Technology speaking on the occasion



Ms. Patricia McPhillips, UNESCO representative addresses on the occasion



Group photo of the participants

Seminar on Localization of Water, Food, Energy and Climate Nexus

PCRWR in collaboration with The Asia Foundation, Pakistan Meteorological Department (PMD) and Federal Flood Commission organized a one-day seminar on Localization of Water, Food, Energy and Climate Nexus on 3rd September, 2020 at PCRWR, Islamabad. The seminar was aimed to address the Water, Food, Energy and Climate Nexus policies with special focus on Balochistan Province. Representatives of Government of Balochistan participated in the seminar and presented the provincial policies. The seminar concluded with the

notes on limitations of nexus policies and suggestions for their implementation.



Photo of the participants during the discussion

Meeting of the Board of Governors of PCRWR

The 8th Meeting of PCRWR Board of Governors (BoG) was held on 23rd July 2020. The meeting was chaired by the president BoG, Chaudhary Fawad Hussain, Federal Minister Science and Technology. Key agenda of the meeting was to discuss the collaborative efforts of PCRWR to overcome water related issues in the country. It was also decided in the meeting that PCRWR being the national organization in water

research would conduct a comprehensive study on industrial wastewater management and will share it with Karachi Chamber of Commerce. It was decided that PCRWR would approach Commissioner Karachi and relevant authorities to come up with a workable solution for proper drainage in Karachi. Moreover, administrative and technical matters of PCRWR were also discussed.

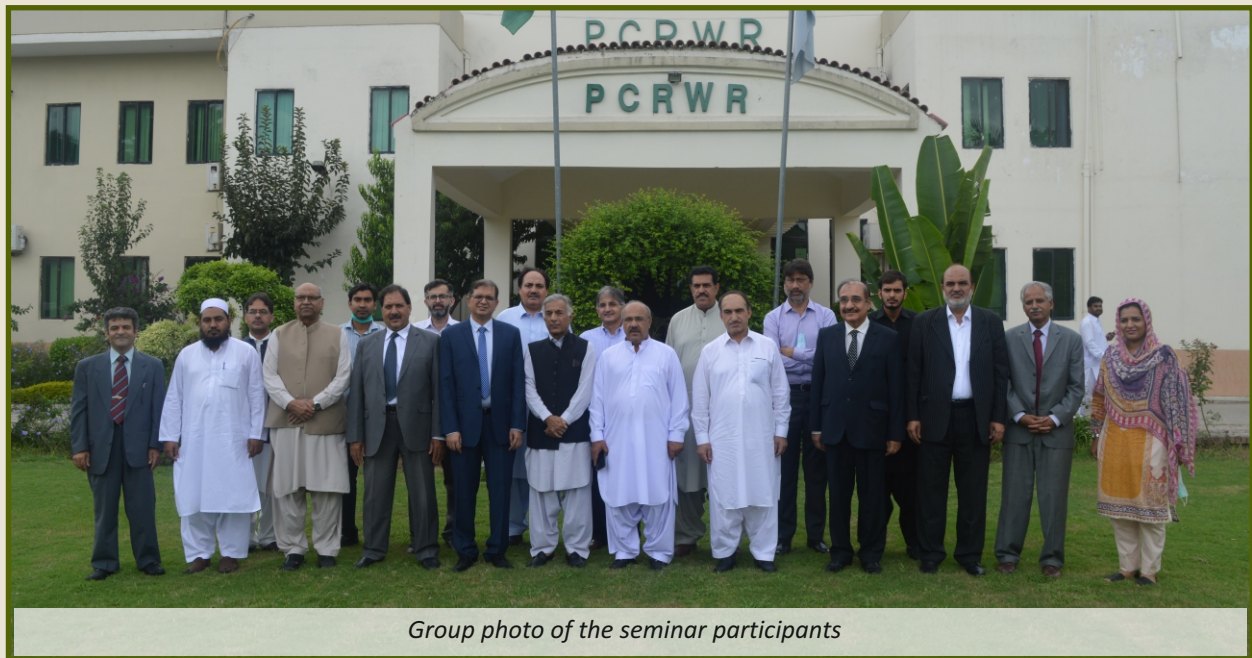


Chaudhary Fawad Hussain presiding over the meeting. Most of the members attended the meeting through Zoom Link

Seminar on Delivering National Water Policy in KP-Flow Monitoring in Canals

Pakistan Council of Research in Water Resources in collaboration with International Water Management Institute (IWMI) organized a one-day seminar titled “Delivering on the National Water Policy in KP-Flow Monitoring in Canals” under USAID funded Water Management for Enhanced

Productivity (WMFEP) activity. The seminar was aimed to discuss and seek consensus on the best practices for canal flow measurement in KP. The seminar facilitated discussions amongst the stakeholders on the important topics of type of technology for flow measurement and the institutional role.



Group photo of the seminar participants

Dialogue on Sindh and Balochistan Water Issues

PCRWR in collaboration with IWMI, Pakistan organized a dialogue on “Sindh and Balochistan Water Issues” on 20th August, 2020 at PCRWR, Islamabad. The dialogue was focused on specific inter-provincial water issues between the provinces of Balochistan and Sindh with an effort to build a consensus leading to an agreement between the provinces on some of the contentious issues regarding Pat Feeder and Kirther Canals. The dialogue was attended by the leading water experts of stakeholder organizations from

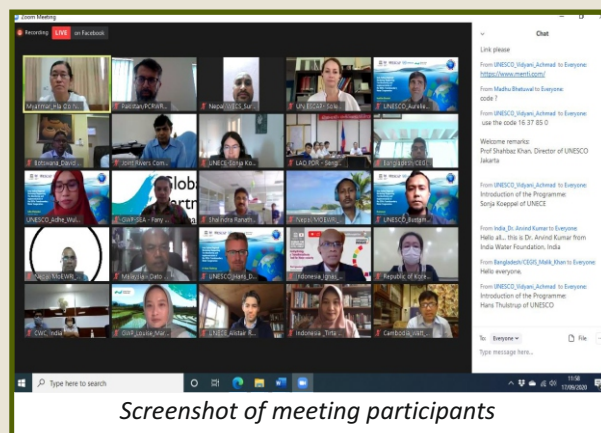
Sindh and Balochistan.



Photo of the participant during the discussion

Open Science Regional Consultation Meeting for Asia Pacific Region

UNESCO, Jakarta arranged an open Science Regional Consultation Meeting for Asia Pacific Region on 15th September, 2020. Mr. Faizan ul Hasan, Director, and Ms. Bareerah Fatima, Programme Liaison Officer, PCRWR virtually participated in the meeting. The meeting was part of regional consultations aimed at building a global consensus on Open Science by gathering inputs from Asia Pacific scientists and other stakeholders.



Screenshot of meeting participants

Meeting of Intergovernmental Hydrological Programme (IHP) Council Members and Observers

A virtual meeting of Intergovernmental Hydrological Programme (IHP) Council Members and Observers was held on 4th September, 2020 in Paris, France. The meeting was in pursuance of preparation of next ten-year agenda. Mr. Faizan ul Hasan, Director, PCRWR attended the meeting as representative of IHP-Pakistan. In total 168 participant of member countries attended the meeting.



Screenshot of meeting participants

Interview of the Deputy Director (Incharge), WRRC, Quetta for FM Radio Channel

A reputable FM Radio Channel of Quetta invited Ms. Ziviqar, Deputy Director (Incharge) WRRC, PCRWR Quetta. The interview was about PCRWR's functions and contributions with regard to water research in Balochistan. Ms. Ziviqar shed a light on the functions of PCRWR and its ongoing activities in the province. The interview has been helpful for the awareness raising for water conservation and water quality testing.



Ms. Ziviqar taking interview at FM Radio Channel

Socio-economic Consultative RAPs Session

PCRWR in collaboration with BUITEMS organized a socio-economic consultative Representative Agriculture Pathways (RAP) session training of provincial project partners in Quetta on 18th September, 2020 where 25 participants participated from different

partner organizations. Experts from academia, agriculture extension and irrigation departments, NGOs, public health engineering department, PCRWR and progressive farmers participated.



Discussion during the RAPs session

Rainwater Harvesting for Groundwater Recharge

PCRWR has developed seven recharge wells for groundwater recharge under the PSF-NSLP funded project “Rainwater Harvesting to Improve Groundwater Storage and Quality in Saline and Water Scarce Environment”; five in Pind Dadan Khan and one each in Faisalabad and Islamabad. Whereas, installation of two recharge wells in Lahore and Sargodha are under construction. During August, storm water was injected rapidly through recharge wells in Pind Dadan Khan and Faisalabad effectively. Further two sites for recharge wells in University of

Sargodha and Govt. Girls High School Faisalabad have been identified.

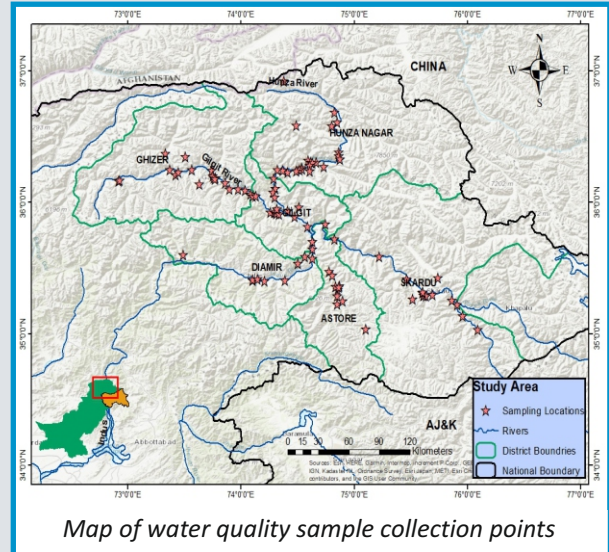


Photo of developed groundwater recharge well at Islamabad

Water Quality Survey in Gilgit-Baltistan

Gilgit-Baltistan is house of world's second highest mountain peak surrounded by more than more than 7000 glaciers. The snow and glacial resources of the Himalayan region are a major source of fresh water for the Indus basin irrigation system on which sustenance of millions of people depend. Therefore, it is known as the water tower of Pakistan. Considering the long term health implications associated with water quality, PCRWR in collaboration with The Asia Foundation has conducted water quality assessment survey of rivers, lakes and springs of six districts of Gilgit-Baltistan i.e. Skardu, Ghizer, Gilgit, Hunza, Astore and Diamer. A high percentage of samples (67%) collected

from various sources indicated the presence of microbial contamination.



Comparison of Discharge Measurements at Different Rivers of Khyber Pakhtunkhwa

A study was undertaken in July, 2020 by PCRWR to compare results between Acoustic Doppler Current Profiler (ADCP) and Velocity Radar Sensor (VRS) for flow measurement on the request of KP Irrigation Department. The observations were made using ADCP on 7 different sites in Khyber

Pakhtunkhwa where velocity radar sensors had already been installed by the KP Irrigation Department. The work was presented in a meeting on 20th August, 2020. This work was greatly acknowledged by the experts.



Scientific Partnership between PCRWR and IWMI Pakistan

Pakistan Council of Research in Water Resources (PCRWR) and International Water Management Institute (IWMI) Pakistan has developed scientific partnership to monitor the groundwater and data acquisition. IWMI provided 10 CTD divers (Conductivity, Temperature & Depth) for daily monitoring of groundwater which were installed across districts Lahore and Kasur. PCRWR has installed 107 observation wells in the districts (Sialkot, Narowal, Gujranwala, Sheikhupura, Lahore and Kasur) along the Eastern border to monitor the groundwater quantity and quality. PCRWR also conducted differential GPS survey of all (107) observation wells to determine the groundwater elevations above mean sea level (amsl).



PCRWR team taking readings from an observation well

Implementation Status of Interventions in Water Sector (Provision of Safe Drinking Water by Chlorination), Proposed by the Prime Minister's Innovation Task Force

PCRWR and Metropolitan Corporation Islamabad (MCI) have jointly undertaken the sampling of water supply in Islamabad at source and point of use (PoU). In total, 120 samples from waterworks, water sumps, tubewells and consumer's tap before and after chlorination were tested by PCRWR. The overall summary has been submitted to Prime Minister's Innovation Task Force and Director General (Water Supply), MCI for optimization of chlorination facilities within ICT.



PCRWR field team collecting water samples

Up-gradation of Trace Metals Laboratory, NWQL PCRWR

AGHA Khan University with sponsorship of UNICEF and WHO provided state of the art equipment to the National Water Quality Laboratory (NWQL), Islamabad under the National Nutrition Survey (2018). This has resulted in an enhanced testing capability for heavy metals. The equipment include Inductively Coupled Plasma (ICP-OES) for simultaneous multi-parameter analysis in water and wastewater, Atomic Absorption Spectrometer, Spectrophotometer and microwave digester. These equipment have successfully been installed in NWQL for wide range testing.



Upgraded trace metal equipment

Up-gradation of Microbiological Data Generation Facility of WQL, Gilgit

PCRWR NWQL team imparted training to WQL Gilgit (21st to 27th September, 2020) in order to enhance its capacity for water testing specifically the microbiological testing for Total Coliforms, Fecal Coliforms and E-coli.



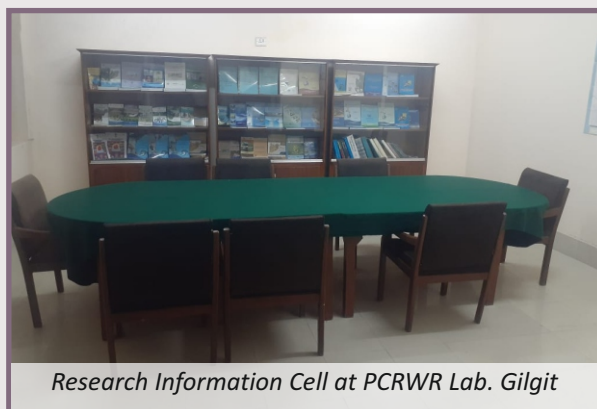
Training of the WQL, Gilgit Staff

Assessment of Water Supply Schemes, Pind Dadan Khan

PCRWR has completed comprehensive assessment of 44 water supply schemes (WSS) of Pind Dadan Khan by collecting information pertaining to discharge of water supply, estimation of water demand, status of WSS, situation at source tube well, condition of pipeline, and distribution mechanism.

Establishment of Research Information Cell in Gilgit

A Research Information Cell (RIC) has been established in collaboration with The Asia Foundation and Karakoram University at PCRWR's Gilgit Water Quality Laboratory. This cell will provide facilitation to research students at KU. Research publications of PCRWR and other organizations have been arranged and proper catalogue is being maintained to provide the facilitation to the research students.



Research Information Cell at PCRWR Lab. Gilgit

Bottled Water Quality Monitoring (July-September, 2020)

The bottled water quality monitoring for the quarter July-September, 2020 has been completed. A sample of 125 bottled/mineral water commercially available brands were collected from 10 major cities (Lahore, Sialkot, Tandojam, Karachi, Sargodha, Gujranwala, Islamabad, Multan, Quetta and Peshawar). All samples were analyzed at ISO-17025:2017 accredited National Water Quality Laboratory (NWQL) of PCRWR, Islamabad for Physico-chemical and microbiological parameters. The comparison of test results with permissible limits of

Pakistan Standard Quality Control Authority (PSQCA) concluded that 115 (92%) of the 125 brands were found to be safe, whereas, 10 (8%) brands were declared to be unsafe for drinking due to chemical or microbiological contamination. The findings of quarterly monitoring of bottled water will be submitted to the provincial chief secretaries and DG PSQCA for legal actions against unsafe brands as well as shared with public through print/electronic media and official website of PCRWR.

Plant for Pakistan Day

PCRWR, headquarters and its outfits celebrated 14th August, 2020 as Plant for Pakistan Day. The Chairman, PCRWR inaugurated the event by planting a tree at R&D Farm Darkali Kalan. Representatives of federal government organizations and eminent researchers were also present on the occasion and planted trees. Regional Directors of PCRWR led the campaign by planting trees in their respective offices and R&D Farms.



Dr. Mirza Habib Ali planting a tree

Visit of BIDR team at PCRWR

A five-member team from Bei Fang Investigation, Design & Research Company (BIDR) China visited PCRWR on 16th September, 2020. The BIDR representatives introduced the nature of their work in Pakistan, while Chairman, PCRWR shed a light on various activities of PCRWR. The meeting was concluded on the decision that both the parties would explore the possible areas of mutual cooperation.



Photo of the meeting participants

Meeting with The Asia Foundation

Two-members team from The Asia Foundation led by Mr. Farid Alam, Director of Programs, along with Mr. Sarim Jamal visited PCRWR on 11th September, 2020 and met with Chairman, PCRWR. The purpose of the meeting was to discuss progress of ongoing collaboration and explore new avenues.



Photo of meeting participant

Visit of Chairman, BISE Bahawalpur at PCRWR, Islamabad

Dr. Mazhar Saeed, Chairman, BISE Bahawalpur visited PCRWR Headquarters, Islamabad on 25th August, 2020 and planted a tree at PCRWR Headquarters under tree plantation campaign. The Chairman PCRWR, was also present on the occasion.



Chairman, BISE Bahawalpur planting a tree

Visit of Collector, Land and Revenue Department, Quetta at WRRC, Quetta

Mr. Aziz-ur-Rehman, Collector of Land & Revenue Department visited WRRC, Quetta. He was briefed about the activities of PCRWR by Deputy Director (Incharge). He appreciated the efforts of PCRWR in water sector.



Mr. Aziz ur Rehman, Collector visiting WRRC Quetta

Visit of Dr. Munir Mangrio, MUET at DRIP Tandojam

Professor Dr. Munir Mangrio, Coordinator, Faculty of Agricultural Engineering visited DRIP, Tando Jam on 8th July 2020 and appreciated the R&D activities of PCRWR for water conservation techniques.



Dr. Munir Mangrio is being briefed at R&D Station

COVID-19 Prevention Tips



WASH

Wash your hands frequently - for at least 20 seconds



COVER

Use tissue paper when you cough or sneeze and dispose of them immediately, use your elbow if a tissue paper is not available



AVOID

Do not touch surfaces and then your mouth, eyes or nose



DISTANCE

Practice social distancing by not shaking hands, hugging etc.



ISOLATE

Stay home if you become ill and prevent the spread of the illness



PCRWR

Pakistan Council of Research in Water Resources (PCRWR)

Ministry of Science and Technology

Khyaban-e-Johar H-8/1, Islamabad

Tel: 051-9101285, 9101282-83

Web: www.pcrwr.gov.pk