

WATER RESOURCE MAPPING COMPETITION

Pakistan Council of Research in Water Resources (PCRWR) with the collaboration of the United Nations Educational, Scientific and Cultural Organization (UNESCO) called for proposals for an inter-university Water Resource Mapping competition by using applications of geospatial technology.

Province wise topics were assigned by PCRWR to the universities. Topic assigned to the universities of the Punjab was “*Assessment of water and land resource potential for effective rainwater harvesting in Pothwar region*”.

A team from Centre of Excellence in Water Resources Engineering (CEWRE), UET Lahore under the supervision of Dr. Kaleem Sarwar participated in this competition. *The team members, Engr. Saleem Munawar (M. Sc. Hydropower Engineering Student) and Engr. Muhammad Muneeb Khan (Ph. D Water Resources Management Student) submitted proposal to PCRWR and got selected from the all universities of the Punjab.*

The CEWRE team conducted study and submitted the study report to PCRWR on 8th March 2021 highlighting the need for Rainwater Harvesting in the Pothwar Region. Followings are the main conclusions of this study :

- Forty-three (43) small dams were proposed for rain water harvesting. Three dam sites were selected for detailed analysis.
- The results showed that these three proposed reservoirs can irrigate 6,621 acres, 13,200 acres and 5,950 acres of cultivatable land in the Chakwal, Jhelum and Rawalpindi districts respectively. The economic turnover may up to Rs. 10.65 billion due to irrigation releases from these dams.

The winning project is the part of UNESCO IHP-WINS database and will be awarded with souvenir and certificates on March 15,2021 during the event of World Water Day .



Engr. Saleem Munwar

PI of Project



Engr. Muneeb Khan

Co-PI of Project