

# **Project Note on Pakistan Water Development Report (PWDR) Meeting Water SDG in Pakistan: Challenges and Opportunities**

## **A. Introduction**

The US-Pakistan Center for Advanced Studies in Water (US-PCASW) has been established at the Mehran University of Engineering and Technology (MUET), Jamshoro, with financial assistance from USAID. The Center will contribute solutions to Pakistan's water-related challenges by strengthening technical capacities of its faculty, and educating and training the next generation of water sustainability leaders. The tangible deliverables of the Center include postgraduate degree programs, applied policy research, facilitation of public- private partnerships, and provision of policy advice in a range of water- related disciplines. The University of Utah, USA, is providing technical assistance to MUET in advancing Center's professional development and growth.

Center's applied research component is geared towards delivering most relevant and highest quality applied research to meet water sector's present and future needs, including informed policy-making. To this end, several research grants have been awarded to Center's faculty and other Pakistani institutions and experts with capacities and interest in water-related research. This process will continue since Center's target is to award 28 research grants and attract funding for 22 research projects from other sources over the next four years.

The Center will consolidate the results and findings of various policy research studies under two flagship projects: (1) Pakistan Water Development Report (PWDR), and (2) Water Management in the Indus Basin. This Project Note refers to the first project. The PWDR will be produced biennially under a specific theme that will also direct the programming and implementation of Center's research agenda in that particular cycle. Theme chosen for the first edition is "Meeting Water SDG (Sustainable Development Goal) in Pakistan: Challenges and opportunities".

Importance of this theme can hardly be overemphasized in view of the importance being assigned to this topic in the global and national public discourse. The SDG agenda not only takes over the unfinished business of the Millennium Development Goals (MDGs), but has expanded the development envelope by bringing in several other economic sectors and cross-cutting issues to achieve the overarching goal of poverty eradication. In other words, the SDGs could be viewed as a plan of action for people, planet and prosperity. The SDG agenda consists of 17 goals accompanied by 169 target, including one on water with its own six specific targets as described in the box on the previous page.

## **B. Scope of PWDR**

In addition to serving as the main reference document on water-related issues in Pakistan, the first edition of the PWDR will attempt to answer an important question: what will it take for Pakistan to achieve the SDG on water. To this end, its scope will cover:

- Description of the current state of water resources and water sector;
- Comprehensive analysis of key issues and challenges;
- Baseline situation analysis with reference to each target defined under the water SDG;
- Analysis of pathways for achieving different targets; and
- Prioritization of future policy and research agenda to advance the implementation process.

## C. Methodology

A number of experts and institutions will be invited to contribute to the preparation of the report. Much of the work however is expected to be done by independent experts/consultants, members of the Technical Advisory Committee (TAC) and its International Advisory Group (see section E below), faculty and graduate students of US-PCASW.

Annex 2 shows the names of potential authors, contributors and chapter coordinators. It will be a living table in the sense that names of additional authors/contributors will continue to be added in moving forward. Faculty and students at US-PCASW are especially encouraged to contribute to this report. All contributions will be duly acknowledged.

The work will be completed three phases: (1) preparatory phase, (2) analysis and report writing phase, and (3) report finalization phase. Work to be done under each phase is summarized below.

The first phase will focus on reviewing and approving the scope of work and table of contents; identification of consultants and experts--who will contribute; formalizing contracts with the consultants; elaboration of each chapter based on the annotated outline presented above (1 pager) to ensure consistencies across chapters/sections. Estimated time: 3 months.

The second phase will be devoted to actual work in terms of data collection, analysis and report writing. The process will entail defining, reviewing and agreeing on methodological framework for various sections of the report. During this phase, it will be extremely important for all authors to have a common understanding of what each chapter will contain, what methodology is being used and how can they benefit from each other's material and analysis. A system will be put in place for sharing of data, case studies, and draft material being produced by different authors for review and comments by other team members. The Project Lead will coordinate these efforts. Estimated time: 6 months

The third phase will aim at finalizing the draft report in the form of bringing all chapters together, ensuring consistencies across chapters, cross-referencing of results and case studies, developing key messages; and technical editing of the report. Estimated time: 3 months.

## D. Project Work Plan

The project will be completed in 12 months, starting from 1<sup>st</sup> July 2016. Timeline for completing various activities is shown in the following chart under three phases described in the preceding section.

| Work Plan for Project "Pakistan Water Development" |               |         |         |         |         |         |         |         |         |          |          |          |
|--|---------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| Phases/Activities                                  | Month 1       | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 |
| <b>A. Preparatory Phase</b>                        |               |         |         |         |         |         |         |         |         |          |          |          |
| 1. Seek TAC members engagement                     |               |         |         |         |         |         |         |         |         |          |          |          |
| 2. Organize first TAC meeting                      |               |         |         |         |         |         |         |         |         |          |          |          |
| 3. Review and approve table of contents            |               |         |         |         |         |         |         |         |         |          |          |          |
| 4. Identify consultants/experts                    |               |         |         |         |         |         |         |         |         |          |          |          |
| 5. Formalize contractual arrangements, if required |               |         |         |         |         |         |         |         |         |          |          |          |
| 6. Finalize elaborated outline of each chapter     |               |         |         |         |         |         |         |         |         |          |          |          |
| 7. Set up arrangements for sharing material        |               |         |         |         |         |         |         |         |         |          |          |          |
| <b>B. Analysis and Report Writing Phase</b>        |               |         |         |         |         |         |         |         |         |          |          |          |
| 1. Develop methodological framework                |               |         |         |         |         |         |         |         |         |          |          |          |
| 2. Collect data, information, case studies         |               |         |         |         |         |         |         |         |         |          |          |          |
| 3. Start analysis and writing                      |               |         |         |         |         |         |         |         |         |          |          |          |
| 4. Share completed work                            |               |         |         |         |         |         |         |         |         |          |          |          |
| 5. Finalize draft of all chapters of the report    |               |         |         |         |         |         |         |         |         |          |          |          |
| <b>C. Report Finalization Phase</b>                |               |         |         |         |         |         |         |         |         |          |          |          |
| 1. Develop key messages of the report              |               |         |         |         |         |         |         |         |         |          |          |          |
| 2. Finalize draft report                           |               |         |         |         |         |         |         |         |         |          |          |          |
| 3. Share draft with int'l experts for technical    |               |         |         |         |         |         |         |         |         |          |          |          |
| 4. Share reviewers' comments with chapter authors  |               |         |         |         |         |         |         |         |         |          |          |          |
| 5. Prepare design outlay and contract for printing |               |         |         |         |         |         |         |         |         |          |          |          |
| 6. Printing finalized                              |               |         |         |         |         |         |         |         |         |          |          |          |
| Launching of the report                            | To be decided |         |         |         |         |         |         |         |         |          |          |          |

## E. Technical Advisory Group

The project will set up a Technical Advisory Group (TAG) to steer the process of report preparation. The TAG will consist of both national and international experts. TAG's principal functions will include: reviewing and commenting on the present outline; contributing written material to various chapters of the report and/or coordinate the preparation of various chapters; identifying potential experts and consultants who can contribute technical material to the report; and reviewing and commenting on the written material etc. In addition, the TAG will provide support to the project team and consultants in contextualizing best practices for achieving water SDG in Pakistan, as well as in reviewing the results and material generated by the project. See Annex 3 for list of TAG members. This list may grow as project implementation progresses.

## **Members of Technical Advisory Group (TAG)**

### **Pakistan-based Experts**

1. Dr. M. Aslam Chaudhry, Research Professor, Department of Economics, University of Utah, USA, and Chief of Party US-PCASW at MUET, Jamshoro (Project Lead)
2. Dr. Bakhshal Lashari, Project Director, US-PCASW, MUET, Jamshoro
3. Mr. Khalid Mohatdullah, Member Senior Advisory Board, US-PCASW, Lahore
4. Dr. Mohammad Ashraf, Chairman, PCRWR, Islamabad
5. Dr. Fahad Saeed, Research Fellow, SDPI, Islamabad
6. Dr. Kaiser Bengali, Former Adviser to the Governments of Sindh and Baluchistan, Karachi
7. Dr. Khalid Riaz, Dean, Department of Management Sciences, COMSATS, Islamabad
8. Dr. Mubarik Ali, Member, Agriculture and Climate Change, Planning Commission, Islamabad
9. Dr. Shahid Ahmad, Independent Consultant, Islamabad

### **US-based Experts**

1. Dr. Tariq Banuri, Professor of Economics, Associate Director, US-PCASW, University of Utah, Salt Lake City, USA
2. Dr. Steve Burian, Professor of Civil and Environmental Engineering, Project Director, USPCASW, University of Utah, Salt Lake City, USA
3. Dr. Sajjad Ahmad, Professor of Civil and Environmental Engineering, University of Nevada, Los Vegas, USA
4. Dr. Jim VanDerslice, Professor, Public Health Department, University of Utah, Salt Lake City, USA
5. Dr. Zafar Adeel, Director, Institute of Water, Environment and Health, United Nations University, Hamilton, Canada
6. Others???