

## Consultancy Services for M&E of the Jinnah Barrage, Pakistan

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<b>Project director</b>	Heering, Hero (HH)
<b>Assignment</b>	The project involves Punjab Barrages Improvement Project, Phase II (PBIP-II) – Rehabilitation and Modernisation of the Jinnah Barrage
<b>Client</b>	Government of Pakistan
<b>Financing Agency</b>	World Bank
<b>Partners</b>	MM Pakistan,
<b>Composition of Team</b>	<i>Euroconsult Mott MacDonald:</i> Team Leader/M&E Specialist; Environmental Specialist; Institutional Specialist; Agricultural Economist  <i>Partner(s):</i> M&E Specialist/Deputy Team Leader; GIS & Information Management Specialist; Water Measurement & Bathymetry Specialist; Agricultural Economist; Data Analyst Specialist; Construction Management Specialist; Sociologist/Anthropologist
<b>Period of Assignment</b>	From May 2011 to May 2016 Staff months: Euroconsult Mott MacDonald: 35; Partner(s): 877
<b>Contract value</b>	Euroconsult Mott MacDonald: € 694,000 Partner(s): € 2,046,000
<b>Background</b>	The rehabilitation and modernization of the Jinnah Barrage is part of a high priority process of rehabilitating and modernizing nearly all barrages along the Indus River There are two main objectives of the PBIP II Project. i) The first objective is to strengthen and modernize the Jinnah Barrage and affiliated works to enable reliable and uninterrupted supply of water for over 2.1 million acres of farmland benefiting about 600,000 farm families for irrigation and domestic water use; ii) The second objective of the PBIP-II Project is to build the capacity of Punjab’s Irrigation and Power Department to improve irrigation and water resources management.
<b>Description of project</b>	The M&E “sub-project” supports these objectives by (i) monitoring the implementation, identifying problems and lessons learned, and making recommendations to improve implementation procedures and (ii) support the identification of needs, technologies and software to modernize the irrigation and water resources management in the province. Stated together the main objectives of this M&E Sub-Project are the following: i) To support the proper and timely implementation of works for the rehabilitation and modernization of the Jinnah Barrage and support structures and identify lessons and recommendations for improvements through a programme of monitoring and consultations; ii) Identify the technical, economic and social impacts of the project and provide recommendations relevant for the procedures for barrage

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improvements;

iii) Ensure effective implementation of the Environmental Management Plan (EMP) and the Social Development Action Plan (SDAP) through supervision of their implementation and monitoring, and to identify lessons learned and recommendations for improvements;

iv) Document the progress achieved and identify issues, lessons learned and recommendations for improvements for the irrigation sector reform programme of PIDA and IPD;

v) Ensure effective implementation of improvements and modernization of the irrigation and water resources management system in Punjab and identify lessons learned and recommendations for improvements;

vi) Identify capacity built and lessons learned from training provided in support of the improvements and modernization activities in number 5 above, and make recommendations for further improvements in the training modules.

### **Services provided**

There are five M&E tasks carried out by the Consultant. These are described below.

Task A is the monitoring of the rehabilitation and modernization of the Jinnah Barrage through the development of a web based Project Monitoring Information System (PMIS). Task A thus consists of two parts. A1 is the monitoring of the rehabilitation and modernization of the Jinnah Barrage, while A2 concerns with the design and development of the PMIS.

Task A1, monitoring of the rehabilitation and modernization of the Jinnah Barrage is further divided into two parts. The first part, Task A1.1, is the rehabilitation and modernization of the civil works of the Jinnah Barrage. The second part, Task A1.2, constitutes of the rehabilitation and modernization of the electro mechanical components of the barrage.

Task B is the identification and evaluation of Project impacts. These are the ultimate results that are anticipated from the Project. Data for assessing impacts will be primarily collected from a baseline survey. Comparisons will be made between the final year and baseline to determine what impacts have been realized by the Project.

Task C is the monitoring of implementation and identification of the impacts of the Environmental Management Plan (EMP) and the Social Development Action Plan (SDAP), both of which are requirements of The World Bank and Government of Pakistan.

Task D has two components. The first component (D1) concerns with the monitoring and evaluation of the adoption and implementation of the reform program in the irrigation sector in Punjab. This will be examined in three sub-components, reforms in PIDA/IPD, reforms and development

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of the Area Water Boards (AWB), and reforms and development of Farmer Organizations (FO). The second component of this task (D2) is about providing technical assistance to PIDA for improving the present water management practices in Punjab. This component will be implemented in close cooperation with PIDA.

Task E is the improvement and modernization of the irrigation and water management system in Punjab. This will consist of two sub-components. The first component (E1) is improvements in irrigation and water management methods, such as introduction of MIS, GIS, Decision Support Systems (DSS) and recommendations for other management improvements that may be identified. This will involve equipment, software and training. The second sub-component (E2) is about training of staff on innovation methods such as GIS, MIS and DSS and on application aspects.