

## LIST OF WATER RESOURCES PROJECTS UNDERTAKEN BY MM PAKISTAN

Project	Client	Description	Fee Million	Value Million	Completion
Project Implementation Consultancy Services for Sindh Water Sector Improvement Project Phase I (WSIP-1)	Sindh Irrigation and Drainage Authority	<ul style="list-style-type: none"> <li>▪ Assistance and support to SIDA and AWBs for institutional reforms</li> <li>▪ Improvement and rehabilitation of irrigation system in Ghotki, Nara and Left Bank Area Water Board.</li> <li>▪ Institutional reforms</li> <li>▪ Condition, topographic, geological and other surveys</li> <li>▪ Prioritizing and ranking and planning rehabilitation works</li> <li>▪ Detailed designs</li> <li>▪ Cost estimates and Benefits and Economic Analysis</li> <li>▪ Tender Documents</li> <li>▪ Environmental Assessment and Environmental Management Plan</li> <li>▪ Social Impact Assessment and Resettlement Action Plan</li> <li>▪ Water Accounting and Management System</li> <li>▪ Training</li> <li>▪ Procurement of Goods and Works</li> <li>▪ Contract Management and Construction Supervision</li> </ul>	Rs. 413	Rs. 10.272 billion	2014
Detail Design and Construction Supervision of Rehabilitation and Upgradation of Balloki And Lower Bari Doab Canal System.	Punjab Irrigation and Power Department	<p>The Consultant services would include the detailed design, preparation of tender documents and supervision of construction of all civil works necessary to rehabilitate and upgrade the Balloki Barrage and LBDC and its distribution system.</p> <p>The rehabilitation and upgrade of the LBDC will include the main off-take channels: Gugera Branch Canal; Sahiwal Pakpattan Link; Kassowal Escape and the KFS Feeder; and a distribution system comprising over 75 distributaries and minors.</p>	Rs. 87 m	Rs. 1.415 billion	2013
Construction Supervision, Social Mobilization and Design Review – Management of Hill Torrents in CRBC Area (Stage III) Dera Ghazi Khan Project	Punjab Irrigation & Power Department, DG Khan	<p>Design review, Construction Supervision and Social Mobilization of following 3 Hill Torrents Projects.</p> <ul style="list-style-type: none"> <li>▪ Vehowo Hill Torrent (Package-A)</li> <li>▪ Kaura Hill Torrent (Package-B)</li> <li>▪ Sanghar Hill Torrent (Package-C)</li> </ul> <p>Updated feasibility study prepared by NESPAK in 2005 was reviewed by T.A. Consultants engaged by ADB under TA 4719-Pak-. T.A. Consultants submitted their report in April 2007. Present Consultants (MMP) have been assigned the job to review the design given by TA Consultants, produce construction drawings and to supervise the construction works as per specifications and drawings.</p> <p>Social mobilization is also part of assignment for social preparation process by taking assistance for the assignment form local NGOs and other local community based organisations.</p>	35.64	1700	2010

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Sindh On-Farm Water Management Project	Agricultural Engineering and Water Management (GOS)	<ul style="list-style-type: none"> <li>▪ Carrying baseline survey and case studies.</li> <li>▪ Assessment of technical skills imparted to farmers organizations and their interaction, with nation building departments.</li> <li>▪ Evaluation of community mobilization process.</li> <li>▪ Monitoring and evaluation of performance of Farmer's Organizations.</li> <li>▪ Impact on small farmers, tenants, women and contribution to poverty alleviation.</li> <li>▪ Monitoring of Farmer's Organizations (FOs), Watercourses Associations (WCAs).</li> <li>▪ Setting criteria for evaluation of project success / Failure by developing input, process and impact indicators of the project.</li> </ul>	<p>US\$ 0.191</p> <p>Rs. 87.73</p>		2009
Implementation Assist and Consultancy Services for National Programme for Improvement of Watercourses in Sindh – Mirpurkhas Region	Agriculture Department Government of Sindh	<ul style="list-style-type: none"> <li>• Assistance in survey, design work and authentication of cost estimates of watercourses.</li> <li>• Supervision of construction work.</li> <li>• Assurance of quality as per specified standards and designs.</li> <li>• Technical assistance and overall coordination of project implementation.</li> <li>• Assistance in social mobilization, mass mobilization and awareness campaigns.</li> <li>• Organize seminars and workshops for the mass mobilization and awareness campaign.</li> <li>• Preparation of the database for the works carried out in the project.</li> </ul>	46.498 m		2009
Implementation Assistance and Consultancy Services for National Programme for Improvement of Watercourses in Sindh – Hyderabad	Agriculture Department Government of Sindh	<ul style="list-style-type: none"> <li>• Assistance in survey, design work and authentication of cost estimates of watercourses.</li> <li>• Supervision of construction work.</li> <li>• Assurance of quality as per specified standards and designs.</li> <li>• Technical assistance and overall coordination of project implementation.</li> <li>• Assistance in social mobilization, mass mobilization and awareness campaigns.</li> <li>• Organize seminars and workshops for the mass mobilization and awareness campaign.</li> <li>• Preparation of the database for the works carried out in the project.</li> </ul>	109.988 m		2009
Jinnah Barrage Rehabilitation & Modernization Project	Irrigation & Power Department, Govt. of Punjab, PMO for Punjab Barrages.	<p>This consultancy is for preparation of detailed design of Jinnah Barrage Rehabilitation and Modernization Project to meet the requirements of the Government and the World Bank, including but not limited to the following:</p> <ul style="list-style-type: none"> <li>▪ Detailed Design of the selected structure with complete drawings</li> </ul>	<p>Local Rs. 45.759</p> <p>Foreign £ 0.131</p>		2009

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		<ul style="list-style-type: none"> <li>▪ The impact of the very high 1992 flood that was close to the 100-year return period and the frequency and extent of replenishment of the downstream rock apron is to be examined.</li> <li>▪ Study the impact of the WAPDA Hydropower project on detailed design of Jinnah Barrage e.g. the effect of by pass on the river morphology.</li> <li>▪ Social and Environmental assessment, Preparation of Project estimates, reports and economic analyses on the format of the Performa-1 of Planning Commission, Islamabad (PC-1 Performa).</li> <li>▪ Development of TORs for supervision consultants and other consultants.</li> <li>▪ Incorporate suggestion / advices of POEs as and when required.</li> <li>▪ Design of capacity building activities.</li> </ul>			
RBOD Detailed Supervision	Irrigation & Power Department, GOS	Irrigation and Power Department, Government of Sindh and CCE Engineers 5 Corps have asked the MM Pakistan and ACE Consortium to carryout Detailed Construction Supervision of earthwork and flood protection work of 2.73 km long drain (RBOD) to dispose off 3500 cusecs of saline effluent coming from upper Sindh and adjacent area of Balochistan Province. The Drain is located on the Right Bank of river Indus and starts near Sehwan and disposes the effluent in Gharo Creek near Arabian Sea in Sindh Province.		Rs. 54.5 m	2008
Extension of RBOD from Sehwan to Sea	Irrigation & Power Department, Sindh	<p>The various components of Project include:</p> <ul style="list-style-type: none"> <li>▪ topographic survey of 273 km</li> <li>▪ geotechnical investigations</li> <li>▪ environmental Impact Assessment and resettlement plan</li> <li>▪ finalization of drain route alignment and Main Drain design</li> <li>▪ design of hydraulic structures en-route the Drain</li> <li>▪ select location of outfall structure and its design</li> <li>▪ design of flood protection works along the drain</li> <li>▪ project management and construction supervision</li> </ul>	Rs. 122	Rs. 14000	2006
RBOD – Top Supervision	Irrigation & Power Department, GOS	Irrigation and Power Department, Government of Sindh and CCE Engineers 5 Corps have asked the MM Pakistan, NESPAK and ACE Consortium to carry out Consultancy Services of RBOD Project worth Rs. 14 billion (including topographic survey, geotechnical investigation, finalization of drain, route alignment, design of			2006

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		hydraulic structure, location of outfall structure, design of flood protection works and Environmental Impact Assessment) and Project Management of 273 km long Drain to dispose off 3500 cusecs of saline effluent. Around 286 major medium and small RCC Structures are to be constructed to provide crossings to railways, roads and water channels and Nallahs.			
Detailed Engineering Studies & Tender Documents of Sehwan Barrage Complex	WAPDA	The assignment involves: <ul style="list-style-type: none"> <li>▪ Review and up-gradation of all existing studies, reports and data</li> <li>▪ Carrying out additional investigations / surveys</li> <li>▪ Preparation of upgraded feasibility report</li> <li>▪ Preparation of engineering designs, engineer's estimates and tender drawings / documents</li> </ul>	Rs. 70.01	Rs. 45000	2005
Punjab Private Sector Groundwater Development Project	World Bank	The project cover the impact evaluation of drainage tubewells in Punjab Private Sector Groundwater comprising mainly of Physical aspects, impact on cropping pattern, change in land use, water course improvement, impact of canal lining, sociological aspects on financial viability, small farmers, community participation and economic aspects.	Rs. 71.8		2003
Fordwah Eastern Sadiqia Canal Lining Component	World Bank / Govt. of Punjab	Uncontrolled seepage from the irrigation system has resulted in waterlogging in the Canal Command area. The project comprises the development of canal lining systems to reduce seepage.	Rs. 23.8	Rs. 500	2000
Flood Fighting works for protecting the Qadirpur Gas Field for the year 1999	OGDC	Monitoring of Indus river flows with respect to the bund and readiness for any emergency works during the flood season.	Rs. 0.6	Rs. 15.0	1999
Resident Supervision of Flood Protection Works in D.G. Khan Zone	Irrigation & Power Department, Govt. of Punjab	Supervision of maintenance works on irrigation structures in D. G. Khan Zone.	Rs. 1.2	Rs. 60.0	1999
Top Supervision of Flood Restoration Works in Bahawalpur Irrigation Zone	Irrigation & Power Department, Govt. of Punjab	Design vetting and construction supervision of irrigation structures in Bahawalpur Zone.	Rs. 0.5	Rs. 20.0	1999
Supervisory Services for Development / maintenance works in D.G. Khan Zone of Irrigation & Power Department	Irrigation & Power Department, Govt. of Punjab	The scope of services included review of work proposals, designs and verification of cost estimates, checking of the physical layout of proposed works and top supervision of works to certify, quantify and quality of works executed.	Rs. 2.5		1998
Construction Supervision of Chanda Fateh Khan Dam	Govt. of NWFP	Site investigation, Construction supervision of embankment, spillway, irrigation conduit, intake as outlet structures, head regulator, irrigation network. Review construction drawings and prepare cost estimate within 2 months. Inspection and testing measurement of work quantities, certification of payment, close control on progress and monthly reporting.	Rs. 2.15		1998

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Lower Indus R.B. Irrigation and Drainage Project (RBOD)	Govt. of Sindh	Construction supervision. MMP provided one ARE on RBOD extension for 24 man-months one Senior Engineer on MRV Drain for 30 man-months and one Senior Engineer on Rato Dero for 27 man-months.	Rs. 2.84		1998
Advisory Consultancy Services for River Training Works 1998	Govt. of Punjab	To provide advisory services and attend meetings on river training and protection schemes by Mr. Abdul Shakoor.	Rs. 0.6		1998
ECF - Post Flood Rehabilitation and Protection Project	European Community	Production of 20 Tax Report Assist PMU of Development projects in Asia which receive assistance from European Commission, aimed at strengthening local ownership of these projects and fostering a democratic transparent and accountable environment.	Rs. 0.765		1997
Supervisory Services for Flood Restoration / Protection Works in Irrigation and Power Department	Govt. of Punjab	7 Nos. Flood Projects in D.G. Khan and Multan Zones of Irrigation and Power Department. Also included Top Supervision	Rs. 0.737		1997
Lahore Urban Drainage Construction Supervision Consultancy	WASA, Govt. of Punjab	Construction management, supervision quality control, certification of work. Monthly reporting on overall progress, contractors resources, details of material at site and status of payment.	£ 0.27 Rs. 3.3	Rs. 400	1997
Study and Preparation of Master Plan for Flood Protection works for Qadirpur Gas Field on River Indus	OGDC	Consultancy services for comprehensive planning studies for the protection of Gas Field from the flood of River Indus.	Rs. 1.35		1996
Detailed Engineering design for Flood Protection works on River Indus for Qadirpur Gas Field	OGDC	Consultancy services to carry out detailed design for the above project.	Rs. 4.5		1996
Planning and Design of Nagwah Creek Diversion of River Indus	OGDC	Preparing proposal for diversion possibilities of the Creek passing through critical areas.	Rs. 0.5		1996
Conducting Model Studies for Flood Protection works for Qadirpur Gas Field	OGDC	Arranging & Conducting Model studies to recommend flood protection package at the Hydraulic lab. Hyderabad.	Rs. 1.5		1996
Construction Supervision of Flood protection works for Qadirpur	OGDC	Resident Supervision of construction works.	Rs. 6.0		1996
Panel of Experts Nara Canal	World Bank	Advisory Services on canal regime and erosion.	Rs. 0.546		1996
Marghzar Irrigation Scheme	Govt. of NWFP	Hydrology study of Jamal Khawar and Marghzar Khawar. Detailed contour survey of command area. Selection of canal alignment. Topo survey 100 strip. Cross drainage works. Chakbandi statement. Detailed design and drawings. PC-I. Monthly reporting including geotechnical studies.	Rs. 0.5		1996
Water Loss Reduction	World Bank	Preparation of CAP TAL works programme for distribution system improvement. River institutional strengthening plan.	£ 0.8	Rs. 6000	1996

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Advisory Consulting Services of River Training Work-2	Govt.of Punjab	Advisory Services of Abdul Shakoor on: i) Hydraulic model studies at Nandipur; ii) Planning, design and layout of training works; iii) Construction supervision of training works; iv) Assist in model study reporting and v) Attend meetings and visit sites.	Rs. 0.2		1996
Maintenance of Irrigation Management System in Pakistan	IIMI	Collection of information through interviews from the personnel's & inside irrigation department at various levels (Sub-Engineer,SDO,XEN,SE,CE) as per questionnaire provided by the employer.	Rs. 0.07		1996
NW Canal Remodelling Project	ADB/Govt. of Sindh	Study to assess the feasibility of works to control. waterlogging and salinity in the Canal Command area and to fully utilise available land and water resources within the area.	Rs. 8.5	Rs. 8070	1995
Comprehensive Flood Management Study, AJK	CDO, AJK	Comprehensive flood management plan. Services included hydrological and hydraulic modelling, flood damage assessment, flood risk identification and the development of feasibility studies and detailed designs for identified sites.	Rs. 4.25	Rs. 700	1995
Small Dams Project: On Farm Water Management Studies in Command Areas	ADB/Govt. of Punjab	Institutional strengthening to develop on farm water management for small dams presently under construction or completed in the Potohar area.	Rs. 0.40		1995
Consultancy Services for Small Dams Umbrella Project	ADB/Govt. of Punjab	Institutional strengthening in the preparation of feasibility studies, design, investigation, PC-I and tender documents and evaluation.	Rs. 3.5	Rs. 780	1995
Feasibility Study for Cholistan Irrigation Project (Phase-1)	Govt. of Punjab	Investigations and feasibility studies for providing irrigation facilities in smaller Cholistan covering about 0.57 million acres on the east of Bahawal Canal	Rs. 5.57	Rs. 3150 / Rs. 1888	1994
Feasibility Study for the Construction of Trichan to Ata Irrigation Scheme at Malko, District Chitral	Govt. of NWFP	Feasibility study for 10 000 acre hill irrigation project. Services included hydrological assessment of glacial water resources, agro-economic studies and the preparation of engineering designs. The study also incorporated an initial environmental assessment.	Rs. 1.76	Rs. 99.79	1994
Advisory Consultancy Services for the Flood Protection Sector Projects in the Drainage and Flood Zone of Irrigation and Power Department, Punjab	Govt. of Punjab	Advisory services covering: hydraulic model studies; design of river training works; and construction supervision of river training works.	Rs. 0.9		1994
Small Dams Extension Project: Water Resources Availability Assessment in Potwar Area of Punjab	ADB / Govt. of Punjab	Assessment of the availability of additional surface water for agriculture and water supply and evaluation of the feasibility of its development. Studies included satellite image interpretation, catchment hydrological modelling and preliminary design of dams.	Rs. 3.00		1994
Feasibility Study for Restoration and Improvement of Marala Ravi Link System	Govt. of Punjab/ADB	Feasibility study for restoration of the conveyance capacity of Marala Ravi Link System. Studies included physical hydraulic modelling of Marala Barrage	Rs. 37.5	Rs. 5000	1994

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		to develop methods of sediment exclusion.			
Study of Minimum Flow Required Downstream of Kotri Barrage, Sindh	Govt. of Sindh	Studies for determination of minimum flows required downstream of Kotri Barrage to conserve and improve the existing environmental conditions.	Rs. 11.0		1993
Feasibility Study for Balambat Kharif Irrigation Scheme in Dir District	Govt. of NWFP	Feasibility study to evaluate the technical and economic feasibility of 10 000 acre hill irrigation project. Studies included hydrological assessment, agro-economic studies, environmental evaluation and the preparation of engineering designs.	Rs. 1.70	Rs. 178.0	1993
Feasibility Study for the Construction of Irrigation Scheme Dhotar to Mulkan District Abbottabad	Govt. of NWFP	Feasibility study to evaluate the technical and economic feasibility of 10 000 acre hill irrigation project. Studies included hydrological assessment, agro-economic studies, environmental evaluation and the preparation of engineering designs.	Rs. 0.67	Rs. 38.0	1993
Advisory Consultancy Services for the Training of River Chenab from Marala to Alexandra Bridge	Govt. of Punjab	Advised on river training works being undertaken to arrest erosion on the right bank of the river to save the villages.	Rs. 0.45	Rs. 330	1992