

## MAJOR WORK DURING LAST TEN YEARS THAT BEST

## ILLUSTRATES QUALIFICATIONS

Project Name: ADB PPTA-6224: Small to Medium Sized Hydropower Development O/Ref: 2005-1340		Country: Afghanistan
Project location within Country: Various		Professional staff provided by your company: No. of Staff: 14 No. of Person-Months: 38.25
Name of Client: Asian Development Bank		
Start Date (Month/Year): January 25, 2006	Completion Date (Month/Year): July 31, 2006	Approximate Value of services: 710,000
Name of Associated Firm(s), if any: ECL Consultants Ltd.		No. of Person-Months provided by Associated Firm(s): 7.25
Name of Senior Staff (Project Director, Team Leader) Involved and Functions Performed: Arvid Kruze, Team Leader/Power Economist      Mahesh Man Shrestha, Electrical/Mechanical Engineer Ajoy Kakri, Hydropower Specialist      Dr. Divas Basnyat, Hydrologist/Hydraulic Specialist Vijaya Shrestha, Geotechnical Specialist      Arup Khan, Social Development Specialist Jitendra Pal Singh, Financial Analyst      Antonio Quitoriano, Institutional Specialist Dr. Masud Karim, Environmental Specialist/Corporate Project Manager		
Detailed Narrative Description of Project: The objective of the TA is to assist Ministry of Energy and Water (MEW) in undertaking feasibility studies on a cross section of small to medium-sized hydropower plants and prepare the analytical work required. The TA will have three main components: (i) preparation of a sector analysis; (ii) undertaking and ranking of prefeasibility and feasibility studies of selected subprojects; and (iii) diagnostic assessment and development of an institutional strengthening and capacity development plan for MEW and other relevant agencies.		
Detailed Description of Actual Services Provided by Your Company: <i>Engconsult was responsible for the following:</i>		
<ul style="list-style-type: none"> <li>• Undertake a sector review assessment to address issues such as the power shortage in rural and off-grid areas, demand assessment for power in potential subproject areas, marginal cost pricing, tariff and cost recovery, willingness to pay, affordability, subsidization of consumption, regulation, conflict in uses.</li> <li>• Prepare a policy brief or matrix to address these issues in off-grid and rural areas, including an assessment of the institutional capabilities for implementing the required policy changes.</li> <li>• Review all possible project proposals and carry out prefeasibility studies; and prepare other relevant documents to define the scope of five small to medium sized hydropower plants including generation, transmission, and distribution as required for financing under an ensuing loan.</li> <li>• Undertake technical and engineering assessments of a minimum of three hydropower plants, including geology, geotechnical aspects, civil works, hydrology, and electrical engineering.</li> <li>• Carry out an initial environmental assessment and environmental impact assessment to ensure that the environmental assessment complies with ADB's guidelines; suggest environmental mitigation measures if necessary; and prepare environmental assessment summaries.</li> <li>• Undertake financial and economic analyses of selected subprojects and the ensuing overall loan project according to ADB policies and guidelines, and other requirements.</li> <li>• Prepare a social and poverty reduction impact assessment, resettlement plans, and indigenous people's plans, if warranted, in accordance with ADB's guidelines and prepare draft final report, final report, and all other required reports incorporating comments from the Government, ADB, and other stakeholders as necessary.</li> </ul>		