



REQUEST FOR EXPRESSION OF INTEREST

PAKISTAN:

Water & Power Development Authority (WAPDA)

Tarbela 5th Extension Hydropower Project

Loan No.: IBRD Loan No.8646-PK, & AIB Loan No. LN 0005-PAK

Assignment Title: Hydraulics/Hydrology Specialist-Member-Independent Panel of Experts (IPOEs)

Reference No. (as per Procurement Plan): IPOE-Hydraulic/Hydrology Specialist

The Government of Islamic Republic of Pakistan has received financing from the World Bank (IBRD) and Asian Infrastructure Investment Bank (AIIB) toward the cost of the Tarbela 5th Extension Hydropower Project and associated Works, implemented through WAPDA. WAPDA now, intends to hire services of hydraulics/Hydrology specialist as Member of Independent Panel of Experts to provide advisory services for successful implementation of the project as per World Bank Guidelines-Selection and Employment of Consultants-January 2011 (Revised-2014) [Selection of Individual Consultants]

Hydraulics/Hydrology Specialist should have knowledge/experience, but not limited to following;

- Hydraulic designs of water related structures including dams, Intakes/power intakes of Hydropower Project, waterways, open channels, pressurized flows.
- Physical/numerical modeling of hydraulic structures, river flows.
- Sediment management and modeling for hydropower projects.
- Study of large watershed hydrology like Indus River, hydrological cycles (long & short term).

Scope of services includes to provide expert opinion based on his expertise & experience and any assistance required in implementation of the project by reviewing recent and past studies related to Tarbela Dam Project on the below:

- Tarbela Dam operational flexibility to meet allocated indents from Tarbela Dam by Indus River System Authority(IRSA) to meet low riparian water needs.
- Review of various studies related to operation of raised intake of Tunnel-5 which is being converted to power tunnel under this project and other associated hydraulics structures i.e. Spillways, Dal-Dara Channel and weir, Tailrace culvert and channel.
- Expert recommendation in deciding fate of low-level in-take of Tunnel-5 i.e. future retention feasibility and timelines for plugging decision considering IRSA indents.
- Technical input regarding existing Tunnel-5 low level outlet (LLO) retention or abandoning at all.
- Review of CFD Modelling Report if required so and carried out by consultants.
- Any other input as required by the Client relevant to his expertise.

Interested Individual Specialists are requested to submit CVs demonstrating that they have the relevant experience to perform the Services. The qualification criteria are as below:

1. Education (23 Marks): (i): Basic Education must be BSc-Civil Engineering. At-least MSc (Hydrology/Hydraulics). (ii): Extra weightage (03 Marks) will be given to PhD (in relevant field).

2. General Experience (72 Marks): (i): Should have more than 25 years of experience of working as Hydraulics/hydrology expert (in above described fields) with national/international organizations/firms (40 Marks). (iii): Should have specific experience of 15 years of serving on hydropower/dam projects (22 marks). (iii): Should have experience as Member-IPOE on any Dam/Hydropower Project (05 Marks). (iv): Should have demonstratable background knowledge of Indus River watershed, its hydrological cycles (long/short terms), Indus River morphology, Tarbela Dam releases as per IRSA indents (05 Marks)

3. Regional Experience (05 Marks): knowledge of local conditions such as national language, culture, administrative systems, and government organization

4. Technical Passing Marks: 70

Further information/detail TORs along-with CV format can be obtained from the address below during office hours (0830 to 1630 hours, Monday through Friday) or WAPDA website (www.wapda.gov.pk).

CVs of interested Individual Specialists along-with financial proposal sealed in separate envelope must reach office of General Manager (HRM), Room # 228, Wapda House Lahore, within 05 weeks of the publication (**PST 1200 hours**). Financial Proposal of only technically qualified candidates will be opened.

**Chief Engineer / Project Director,
Tarbela 5th Ext Hydropower Project,
Tel: +92 995 350004 - Email: pd.t5hpp@yahoo.com**

This notice is also available at PPRA Website: www.ppra.org.pk

PID(L)

Website: www.wapda.gov.pk

PRD(L)/WAPDA/017(2024-25)

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