

Pre-Qualification Document (PQD)

For

**Pre-qualification of Consulting Firms/Companies having expertise
in Hydro Power/ Energy Projects**

GOVERNMENT OF PUNJAB



**DIRECTORATE GENERAL MONITORING & EVALUATION
PLANNING & DEVELOPMENT BOARD**

March, 2023

Note: DGM&E on behalf of the P&D Board has introduced online pre-qualification system to receive online EOI responses from the consulting firms / companies for the FY 2023-24. The firms / companies are advised to submit their responses on the online portal and hard copies of the same duly generated from the online portal must be submitted to the office of DGM&E for further evaluation. Firms / companies are advised that an EOI duly generated from the online portal should be signed, stamped and complete in all aspects as per PQDs and guidelines.

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1. Introduction

In emerging areas to achieve development targets in an efficient and effective manner at a faster pace, Government Departments need capacity building by engaging various Consulting Firms/Companies. Necessary amendments have been made in Punjab PPRA Rules 2014 which enable Planning & Development Board (P&DB) to short-list/pre-qualify Consulting Firms/Companies on yearly basis. In accordance to the instant amendments in PPRA Rules, 2014, all departments of Government of the Punjab may issue Request for Proposal (RFP) directly (without advertisement) to the Consulting Firms/Companies shortlisted by P&D Board to hire services under certain terms and conditions mentioned in Sub-Rules 6-10 of Rule No. 16 of PPRA 2014.

This Prequalification Document (PQD) enlists the criteria for consultancy firm to be shortlisted in below given area/sector as per Sub-Rules 6-10 of Rule No.16 of PPRA 2014.

- i. Power, Energy & Renewable Energy (Solar, Bio, and Wind etc.)
 - a. **Hydro Energy**
 - b. *Solar Energy*
 - c. *Bio Mass*
 - d. *Wind Energy*
 - e. *Thermal Energy*

2. Objective

To support the development of hydropower related projects through providing services of design, geotechnical investigation, hydrological modeling, and locating potential sites available for the construction of low, medium and high head power plants, Monitoring & Evaluation, Supervision, appraisal, examination and vetting of project concept /third party validation.

3. Scope of Work (Tentative)

This scope of work is tentative for prequalification only. The actual scope of work will be provided by the line department at the time of issuing RFP as per actual scope of work, However this prequalification does not guarantee award of work by the line department. The tentative scope of work entails

- Production of master plans to identify economically and ecologically sustainable hydropower plants sites;
- To conduct the topographical, geographical and geotechnical study and survey for proposed dam site;
- Hydrological modeling / study using latest software tools;
- Conducting feasibility studies by taking into consideration, surveys, geotechnical investigations;
- Design of hydropower components (Foreway, Intake Structure, Penstock, Surge Tank / Surge Chamber, and Hydraulic Turbines
- Design of Power House;
- Studies and review of alternatives for dam site;
- Socio economic analysis;
- Hydrological analysis;
- Project design of hydropower plants including electro mechanical equipment and infrastructure;
- Design works in compliance with nature and land scape conservation laws;
- Rehabilitation/Improvement of existing hydropower plants;
- Review, validate and recommend the design already prepared by the departments/consultants and recommending modifications where necessary;
- Supervising and monitoring of hydropower projects and rehabilitation works including repair of hydraulic structure, spillway hydraulic gates and embankments protection works (stone pitching);
- Third Party Validation of the Small, medium and large Mini, Micro Dams and associated structure completed by the departments/executing agencies;
- Resident supervision of hydropower projects related to rehabilitation and development of all kind of Dam projects;
- Assessment of environmental impacts of hydropower projects on overall environment of the area. Preparation of documents for environment impact assessment;

- Contract management;
- Preparing of draft and final reports describing research results, including illustrations, appendices, maps, and other attachments;
- Evaluate the performance of supervisory staff and project construction supervision team at execution stage and after the completion of the project;
- Any other related task assigned by the client departments.

4. Eligibility Criteria

Following are the details on the basis of which Firm will be shortlisted:

i. Pre-Requisite

- a. Valid Registration with the relevant professional body (e.g. Pakistan Engineering Council (PEC) etc.)
- b. Registration with SECP, Registrar of Firms, Chamber of Commerce, or any other body depicting legal status of Firm, Company or organization.
- c. National Tax Registration Number with active taxpayer status.
- d. Undertaking by the firm / company on a legal paper/stamp paper/ Letter Head that it is currently not blacklisted by any Federal, Provincial, State or Local Government department and/or by any Government owned Company/ Foundation / Authority.

ii. Firm Experience

Firms should provide information regarding;

- a. Relevant experience in the subject field by submitting the detail of 05 most relevant projects completed in the past (20 years) as per **Annex - A.**
- b. Detailed description of the Firm Profile by providing its organizational structure (organogram), list of permanent staff, quality management system and list of testing equipment/machinery.

iii. Human Resource Capacity

- a. List of key personnel having expertise as per **Annex - B.**
- b. CVs of key personnel as per **Annex - C.**

However, the required qualification and experience is as follows;

S. No.	Proposed Position	Required Qualification	Experience
1.	Design Engineer (Hydraulic Structures)	M.Sc./MS/M.Phil in Hydropower Engineering / Civil Engineering / Hydraulic & Irrigation Engineering	Min 10 years of experience in design of different types of hydraulic structure, i.e., main weir, hydraulic gates, spillways, tunnels and intake etc.
2.	Design Engineer (Hydropower)	M.Sc./MS/M.Phil Hydropower Engineering / Civil Engineering / Hydraulic & Irrigation Engineering	Min 10 years of experience in design of power house, spillways, penstock, electro mechanical components, turbines and intake structures etc.
3.	Design Engineer (Mechanical)	M.Sc./MS/M.Phil Mechanical Engineering	Min 10 years of experience in design of power house turbines
4.	Design Engineer (Electrical)	M.Sc./MS/M.Phil Electrical Engineering	Min 10 years of experience in design of transmission lines and other electrical works for hydropower projects.
5.	Environmental Engineer	M.Sc./MS/M.Phil Environmental Sciences / Civil Engineering / Environmental Engineering	Min 5 years of experience of mega projects related to hydro and their impacts on environment, etc.
6.	Feasibility Expert / Analyst	B.Sc./BS/BE (Hons.) in Civil/Mechanical/Electrical Engineering / Master in Economics	Min 5 years of experience of conducting feasibility studies of various types of dams and hydropower related projects.
7.	Geologist	B.Sc./BS/BE (Hons.) Geology / Geological Engineering	Minimum 7 years of relevant experience in the field of geological investigation of dam site.
8.	Hydrologist	M.Sc./MS/M.Phil in Civil Engineering (Water Sector)/ Hydro-Geology/Water Resources Engineering/ Engineering Hydrology/ Hydraulic & Irrigation Engineering	Minimum 7 years of relevant experience in field of hydrology for hydropower projects.
9.	Socio Economic Specialist	Master in Social Science or Agricultural Economics	Minimum 5 years of relevant experience in hydro for agriculture production/improvement

10	Resident Engineer	B.Sc./BS/BE (Hons.) Civil/ Mechanical / Electrical Engineering or M.Sc./MS/M.Phil Hydropower Engineering	Min 7 years of experience in construction supervision hydropower projects.
11	Planning Engineer	B.Sc./BS/BE (Hons.) Civil Engineering / Architectural Engineering / Mechanical Engineering / Electrical Engineering	Min 5 years of experience in planning and project management hydropower related projects
<p>Note: 1. Experience after professional qualification shall be considered. 2. 16 years of master shall be considered equivalent to B.Sc./BS/BE (Hons.)</p> <p>iv. Financial Capabilities Detail of financial capabilities to be provided as per Annex- D1 & D2.</p> <p>*All documents should be in English.</p> <p>**Any misinformation, false and forged statement will lead to disqualification from being shortlisted/pre-qualified and any other action as per applicable laws.</p> <p>***Firms/Companies applying under a joint venture/consortium should submit their documents as a single EOI by clearly indicating the lead firm.</p>			

Criteria, sub-criteria, and point system for the evaluation of Expression of Interest (EOIs) is as follows:		
A1	Firm Experience	Points
a)	Number of Assignments (Relevant)*	80
	i. Scope of relevant Assignments	40
	ii. Duration of services provided by the firm in relevant Assignments 1 to less than 6 Months 65% 6 to less than 12 Months 85% 12 Months & above 100%	40
b)	Firm Profile	20
	i. Organizational Structure/Organogram	5
	ii. List of Permanent Staff	5
	iii. Quality Management System** - In-house Quality Control System 50% - Quality control system certified by relevant body i.e. ISO 100%	5
	iv. List of Testing Equipment/Machinery	5
	Total A1	100
A2	Human Resource Capacity***	Points
a)	Design Engineer (Hydraulic Structures)	15
b)	Design Engineer (Hydropower)	15
c)	Design Engineer (Mechanical)	10
d)	Design Engineer (Electrical)	10
e)	Environmental Engineer	10
f)	Feasibility Expert / Analyst	10
g)	Geologist	5
h)	Hydrologist	5
i)	Socio Economic Specialist	5
j)	Resident Engineer	10
k)	Planning Engineer	5
	Total A2	100
A3	Financial Capacity	Points
a)	Cost of the relevant Assignments (in PKR)**** 200 to less than 500 Million 65% 500 to less than 1000 Million 85% 1000 Million & above 100%	75
b)	Annual Turn Over (in PKR)***** 1 – 50 Million 65% Above 50 upto 100 Million 85% More than 100 Million 100%	25
	Total A3	100
Score = A1[40%] + A2[40%] + A3[20%]		
The minimum score required to be shortlisted is: 65 Points		
* 05 most relevant assignments completed in the past 20 years to be provided. Assignments provided beyond the limit of 05 will be given no weightage.		

Project/Assignment provided must be supported with the completion certificate / letter of award / work order / contract agreement / final completion report / PC-IV or any other evidence issued by the procuring agency/executing agency of that particular project.

** Quality Management System has to be supported by Quality Management Certificates.

*** 30% weightage shall be given to qualification whereas 70% weightage shall be assigned to experience for each proposed resource given in above table. One resource can only be applied in one sub-sector with single firm.

**** Cost of relevant assignments shall be calculated from the cost of projects submitted against 05 most relevant assignments **Annex – D-1**.

*****Annual Turnover under financial capacity should be supported by Authenticated Audit Financial Statements. Annual turnover shall be calculated from the Average annual turnover of last 03 years as per **Annex – D-2**.

Note:

For JV, pre-requisites must be fulfilled by the lead as well as partner firms separately. However, in case of a firm outside Pakistan, registration with relevant professional body and exchange commission will be required of their country of origin. For evaluation, lead firm shall be assigned 60% weightage in each component such as firm experience, human resource capacity and financial capacity and remaining 40% weightage shall be equally assigned to partner firms. One of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners. A copy of the agreement entered into by the joint venture partners shall be submitted stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

5. Firm Detail

Firm should provide its detail as per **Annex-E**. In this PQD the word Firm has been used for both Firm and Company.

6. Client Detail

**Directorate General Monitoring&Evaluation,
Planning and Development Board,
Government of Punjab.**

**65-Trade Center Block, Ayub Chowk,
Bureau of Statistics Building, 4th & 5th Floor, Johar Town Lahore.
Contact No. 042-99233176-91, Ext. No. 512 & 513**

7. EOI Deadline

The Expression of Interest (EOI) will be submitted on the Web Based Prequalification System (WBPS) developed on the website of Directorate General M&E i.e. <https://dgme.punjab.gov.pk/>. Deadline for online submission of EOIs is **04th May 2023** till 04:00 pm. Deadline for submission of hard copies of EOIs (generated from the online portal after submission and each page duly signed and stamped by competent authority of firm/company) is **10th May 2023** till 04:00 pm. However, for Clarification/Coordination,

Directorate General (M&E), P&D Board

Government of Punjab.

**65-Trade Center Block, Ayub Chowk Bureau of Statistics Building,
5th Floor, Johar Town Lahore.**

Contact No. 042-99233176-91, Ext. No. 512 & 513

Email: info.prequalification@dgmepunjab.gov.pk

Annex-A Firm Experience (Relevant)

Relevant											
S. No	Name of Project	Location (Country/Province /Division)	Client	Project Description	Implementation of Project		Total Cost of Project	Period of services provided by the Consultant		Cost of Consultancy Services Provided by the Firm	Actual Scope of Services Provided by the Consultant
					Start date	Completion date		Start date	Comple tion date		
1											
2											
3											
4											
5											

Note: The firm/company should submit above information through the online portal and hard copies of the same duly generated from the online portal along with required supporting documents as prescribed hereunder must be submitted to the office of DGM&E for further evaluation. Above table (template) is just for reference / guidance.

1. Maximum number of (5) most relevant assignments to be submitted
2. Assignments provided beyond the limit of 5 will be given no weightage.
3. Project/Assignment provided must be supported with the completion certificate / letter of award / work order / contract agreement / final completion report / PC-IV or any other evidence issued by the procuring agency/executing agency of that particular project. Projects completed in last 20 years will be given weightage.
4. Project overheads including transportation cost, office rent, utilities and stationery expenses, cost of support / auxiliary staff for each project to be provided on the Web Based Prequalification System (WBPS).

Annex-B (List of Key Personnel)

S. No	Name	Qualification	Total Experience in Years	Position Proposed	Current Responsibilities

Note: The firm/company should submit above information through the online portal and hard copies of the same duly generated from the online portal along with required supporting documents as prescribed hereunder must be submitted to the office of DGM&E for further evaluation. Above table (template) is just for reference / guidance.

1. The list of key personnel should be in accordance with proposed positions mentioned in Human Resource Capacity.
2. 30% weightage shall be given to qualification whereas 70% weightage shall be assigned to experience for each proposed resource given in above table.
3. Only one human resource can apply in one sector/sub-sector with single firm against each post. Similarly, one human resource can be quoted/entered by single firm and no other firm can quote/enter that human resource in any sector/sub-sector.
4. It is mandatory for each proposed resource to fulfill minimum eligibility criteria mentioned under section 4 (iii) of this PQD to be qualified for score assignment.
5. Monthly salary of each resource to be provided on the Web Based Prequalification System (WBPS).

Annex-C (CVs of Key Personnel)**CURRICULUM VITAE (CV)**

1. **Name of Personnel:** _____
2. **Current Position in the Firm:** _____
3. **Date of Birth:** _____
4. **Nationality** _____
5. **CNIC No (if Pakistani):** _____ **or Passport No:** _____
6. **Mobile No.** _____
7. **Email Address:** _____
8. **Home Address:** _____
9. **Education:**

Degree	Major/Minor	Institution	Date (MM/YYYY)

10. **Membership of Professional Associations:** _____
11. **Registration no. with relevant Professional Body:** _____
12. **Other Training** [Indicate significant training since degrees under 6 - Education were obtained]:
13. **Languages** [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:
14. **Employment Record** [Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below):

Employer	Position	From (MM/YYYY)	To (MM/YYYY)

15. Detail of Work Undertaken

Name of assignment or project: _____

Cost of Project _____ Location: _____

Date of Start: _____ Date of Completion: _____

Client: _____ Main project features: _____

Positions held: _____ Activities performed: _____

Actual time spent on the project: _____ in months.

16. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

_____ Date: _____

[Signature of the proposed staff] Day/Month/Year

_____ Date: _____

[Counter Signature of authorized signatory] Day/Month/Year

Note: The firm/company should submit above information through the online portal and hard copies of the same duly generated from the online portal along with required supporting documents as prescribed hereunder must be submitted to the office of DGM&E for further evaluation.

Financial Capabilities:**Annex-D-1 (Cost of Relevant Assignment)**

S. No	Name of Project	Location (Country/Province/Division)	Client	Project Description	Total Cost of Project	Cost of Consultancy Services Provided by the Firm	Actual Scope of Services Provided by the Consultant
1							
2							
3							
4							
5							

Note: Provide cost of five (5) assignments mentioned under **Annex-A** Firm Experience (Relevant)

Annex-D-2 (Annual Turnover)

Year	Annual turnover
2019-2020	
2020-2021	
2021-2022	

Note: The firm/company should submit above information through the online portal and hard copies of the same duly generated from the online portal alongwith required supporting documents as prescribed hereunder must be submitted to the office of DG M&E for further evaluation. Above table (template) is just for reference / guidance.

1. Data provided under the head of financial capabilities must be supported by the Authenticated Audited Annual Financial Statements.
2. Annual turnover shall be calculated from the Average annual turnover of past 03 years.

Annex-F (Firm Detail)

Legal Name of Firm	Address	Contact No.	Authorized Personnel Name	Authorized Personnel Contact No.
Lead Firm				
Joint Venture Firm(s)				

Note: The firm/company should submit above information through the online portal and hard copies of the same duly generated from the online portal along with required supporting documents as prescribed hereunder must be submitted to the office of DGM&E for further evaluation. Above table (template) is just for reference / guidance.

1. In order to assess JVs, pre-requisites must be fulfilled by the lead as well as partner firms separately.
2. In case of a firm outside Pakistan, registration with relevant professional body and exchange commission will be required of their country of origin.
3. For evaluation, lead firm shall be assigned 60% weightage in each component such as firm experience, human resource capacity and financial capacity and remaining 40% weightage shall be equally assigned to partner firms (if more than one(1) partner firm is involved).
4. One of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners. A copy of the agreement entered into by the joint venture partners shall be submitted stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.