



PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION (PEDO)
GOVERNMENT OF KHYBER PAKHTUNKHWA
ENERGY & POWER DEPARTMENT, PESHAWAR



SPECIFIC PROCUREMENT NOTICE
REQUEST FOR BIDS- WORKS

Employer: Pakhtunkhwa Energy Development Organization (PEDO) through PMO KHRE
Project: Khyber Pakhtunkhwa Hydropower Renewable Energy Development (KHRE)
Contract title: Gabral Kalam Hydropower Project, Package 1 - CIVIL WORKS – Water Conveyance Structure (weir, diversion structure, tunnel etc.), Access Roads and Bridges – **(Re-bidding)** - RFB No: PK-PEDO-344261-CW-RFB
Country: Islamic Republic of Pakistan, **Loan No. /Credit No:** IBRD-91640; IDA 67790

1. The Islamic Republic of Pakistan has received financing from the World Bank toward the cost of the Khyber Pakhtunkhwa Hydropower Renewable Energy Development (KHRE), and intends to apply part of the proceeds toward payments under the contract for Gabral Kalam Hydropower Project, Package 1 - CIVIL WORKS – Water Conveyance Structure (weir, diversion structure, tunnel etc), Access Roads and Bridges – **(Re-bidding)**, located in District Swat of Khyber Pakhtunkhwa Province (KP).
2. The PEDO through PMO KHRE now invites sealed Bids from eligible Bidders for the Works, including, but not limited to the below:
(i) Construction of Civil Works: Diversion weir/Concrete dam, River diversion works during construction, connecting channel, Sandtrap, Inlet Pond, Headrace tunnel, Access tunnels, Surge shaft, Pressure shaft, Permanent and Temporary bridges, Temporary and Permanent access roads, Power House, Control & GIS Buildings, Tail Race, Protection and Slope Stabilization works, Allied works including landscaping etc. **(ii) Design, Supply, Installation and Testing of Hydraulic Steel Structure (HSS) Works:** Gates, Stop logs, Trash racks, Cranes, Steel liner, Manifold etc. *(Quantities, location of project and other necessary information is described under Section VII "Works' Requirements" of the Bidding Documents. Construction Duration shall be 4 years. A margin of preference shall not be applicable.)*
3. Bidding will be conducted through international competitive procurement using Request for Bids (RFB) as specified in the World Bank's "Procurement Regulations for IPF Borrowers.
4. Interested eligible Bidders may obtain further information from Office of Director Project-GKHPP and inspect the bidding document during office hours at the address given below.
5. The bidding document in English may be purchased by interested eligible Bidders upon the submission of a written application to the address below and upon payment of a nonrefundable fee of Pakistani Rupee 150,000/- or equivalent USD. The method of payment will be through cashier's check, pay order or bank draft drawn on a scheduled bank of Pakistan in favour of the "Head PMO, Construction of 88 MW Gabral". The document will be sent by airmail or courier as appropriate or it may be picked up from the Employer's address given below.
6. Bids must be delivered to the address below on or before 1400 Hrs, **August 07, 2023**. Electronic bidding will not be permitted. Late Bids will be rejected. Bids will be publicly opened in the presence of the Bidders' designated representatives and anyone who chooses to attend at the address below at 1400 Hrs on August 07, 2023.
7. All Bids must be accompanied by a Bid Security of USD 2,000,000 or its equivalent in another freely convertible currency calculated on the base of the selling exchange rate of the State Bank of Pakistan on the date of 28 days before the latest date of the bid submission in the form of Bank Guarantee or Insurance Bond.

(Note: The Evaluation & Qualification Criteria is attached as Annex to this SPN for info of the potential Bidders and can be viewed on-line on PEDO website(www.pedo.pk).

OFFICE OF THE CHIEF ENGINEER / HEAD PMO, KHRE PROJECT

Director Project (88 MW-GABRAL KALAM Hydropower Project (GKHPP))
Ground Floor, NESPAK Building (PMO KHRE, PEDO), Plot # 24, Sect B/2, Phase-5 Hayatabad, Peshawar Khyber Pakhtunkhwa
Province, Islamic Republic of Pakistan
ZIP Code: 25000, Telephone No. +92 91 9219616-7, Email: proc.wbprojects@pedo.pk

Annex to SPN

Section II - Bid Data Sheet (BDS)

The following specific data for the Works to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

| A. General | |
|-------------------|---|
| ITB 1.1 | <p>The reference number of the Request for Bids (RFB) is: <i>PK-PEDO-344261-CW-RFB</i></p> <p>The Employer is: <i>Pakhtunkhwa Energy Development Organization (PEDO) through PMO KHRE, Government of KPK</i></p> <p>The name of the RFB is: <i>Gabral Kalam Hydropower Project, Package 1 - CIVIL WORKS – Water Conveyance Structure (weir, diversion structure, tunnel etc.), Access Roads and Bridges – (Rebidding)</i></p> <p>The number and identification of lots (contracts) comprising this RFB is: <i>One (1)</i></p> <p>The Project comprises the following main similar contracts for civil works:</p> <p>Contract I: Gabral Kalam Hydropower Project, Package 1 - CIVIL WORKS – Water Conveyance Structure (weir, diversion structure, tunnel etc.), Access Roads and Bridges - (Rebidding), RFB No: PK-PEDO-344261-CW-RFB;</p> <p>, and</p> <p>Contract II: MADYAN HYDROPOWER PROJECT- CIVIL WORKS</p> <p>All Civil Structures, including Weir, Intake, Headrace Tunnel, Tail Race, Powerhouse Cavern with related Structures, Colony, Roads, Bridges, Water Treatment Plant and Hydraulic Steel Structures (Ref. No. PK-PEDO-339715-CW-RFB)</p> <p>The current bidding is for Contract I only. The bidding and implementation for Contract I will be done simultaneously with the prequalification, bidding and implementation of Contract II. Bidders participating in both bidding processes and who want to be awarded both contracts, should meet the Financial Qualification Requirements (Average annual turnover and financial resources) on an aggregate basis for both contracts. In addition, the winning bidder for both contracts must also demonstrate availability of resources such as key personnel and equipment required under the RFBs.</p> |

Annex to SPN for RFB – GKHPP Pkg-1 (Rebidding)

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|----------------|---|
| ITB 7.4 | <p>A Pre-Bid meeting <i>shall</i> take place at the following date, time and place:</p> <p>Date: <i>July 10, 2023</i></p> <p>Time: <i>1400 Hrs</i></p> <p>Place: <i>Committee Room of PMO Office, Peshawar (at the address given under ITB 7.1 above)</i></p> <p>A site visit conducted by the Employer <i>shall be</i> organized on <i>June 22, 2023</i> at <i>1000 Hrs</i> at Project Site.</p> |
|----------------|---|

Section III - Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate Bids and qualify Bidders. No other factors, methods or criteria shall be used other than specified in this Bidding document. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

Wherever a Bidder is required to state a monetary amount, Bidders should indicate the USD equivalent using the rate of exchange determined as follows:

- For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.
- Value of single contract - Exchange rate prevailing on the date of the contract.

Exchange rates shall be taken from the publicly available source identified in the ITB 32.1. Any error in determining the exchange rates in the Bid may be corrected by the Employer.

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A. Technical and Financial Evaluation

1. Evaluation of Technical Proposal

Assessment of adequacy of Technical Proposal with Requirements in accordance with **ITB 35.1**.

ITB 35.2 applies, the technical factors, and sub factors, to be evaluated and the scores to be given to each technical factor and sub factors are specified in the **BDS ITB 35.2 & hereafter**.

1.1 Technical Proposal Scoring Methodology

The Scoring methodology for technical factors (sub-factors) as mentioned in BDS ITB 35.2 shall be as under;

Technical Factors (Sub-Factors):

| A. Site Organization, Team composition and their Qualification & Experience | | | | |
|--|-----------------------------------|------------------|--|---|
| Sr. No. | Sub-Factors | Max Score | Min Requirements (Qualification, Total & Similar Work Experience) | Scoring Criteria |
| i. | Project Management Team | 20 | The detail scoring methodology for this sub-factor shall be as follows: Following sub criteria will be used in assigning points subject to the documents/forms submitted as per requirements specified in Section IV – Bidding Forms. | |
| a. | Project Manager | 5 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 12 years of relevant experience – 02 15 years or above of relevant experience – 04 Additional Higher Qualification – 01 |
| b. | Construction Manager (Civil) | 3 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 10 years of relevant experience – 01 12 years or above of relevant experience – 02 Additional Higher Qualification – 01 |
| c. | Construction Manager (Electrical) | 3 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 10 years of relevant experience – 01 12 years or above of relevant experience – 02 Additional Higher Qualification – 01 |

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|----|-----------------------------------|---|---|---|
| d. | Construction Manager (Mechanical) | 3 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 10 years of relevant experience – 01 12 years or above of relevant experience – 02 Additional Higher Qualification – 01 |
| e. | Tunneling Engineer | 3 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 10 years of relevant experience – 01 12 years or above of relevant experience – 02 Additional Higher Qualification – 01 |
| f. | Environmental Specialist | 3 | Minimum requirements as mentioned in Section III -Evaluation Criteria | 10 years of relevant experience – 01 12 years or above of relevant experience – 02 Additional Higher Qualification – 01 |

Obtained Score = T_1 = (sum of obtained scores by all above Key Personnel)

| | | | | |
|-----|--------------------------|-----------|--|--|
| ii. | Site Organization | 05 | <p>The Bidder shall submit a Site Organization chart addressing the requirements as specified in Section IV – Bidding Forms (Site Organization). Following sub criteria will be used in assigning points subject to the documents/forms submitted as per requirements specified in Section IV – Bidding Forms (Site Organization).</p> <p>Satisfactory - 70% Good - 85% Very Good - 100%</p> | |
|-----|--------------------------|-----------|--|--|

Obtained Score = T_2

B . Work Program (with detailed loaded optimum Resources)

| Sr. No | Sub-Factors | Max Score | Scoring Criteria |
|--------|--|-----------|--|
| i. | Work Program and Statement | 15 | <p>The Bidder shall submit a Work Program and Statement addressing the requirements as specified in Section IV – Bidding Forms (Construction Schedule). Following sub criteria will be used in assigning points against each sub-factor, subject to the documents/forms submitted as per requirements specified in Section IV – Bidding Forms (Construction Schedule).</p> <p>Satisfactory - 70%</p> |
| ii. | How lessons learnt will be implemented | 5 | |
| iii. | Measures to avoid delays | 5 | |

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| | | | |
|-------------------------|--|--|---|
| | | | Good - 85% |
| | | | Very Good - 100% |
| Obtained Score = | | | T₃ = (sum of obtained scores against each sub-factor) |

C . Method Statement

| Sr. No | Sub-Factors | Max Score | Scoring Criteria |
|-------------------------|---|-----------|--|
| i. | Quality Control and Assurance | 12 | The Bidder shall submit a Method Statement addressing the requirements as specified in Section IV – Bidding Forms (Method Statement). Following sub criteria will be used in assigning points against each sub-factor, subject to the documents/forms submitted as per requirements specified in Section IV – Bidding Forms (Method Statement). Satisfactory - 70% Good - 85% Very Good - 100% |
| ii. | Approach and Method Statement for Logistics | 5 | |
| iii. | Approach and Method Statement to execute all parts of the Works and Coordination and Integration with other Contractors | 8 | |
| iv. | Risks and mitigation Measures | 5 | |
| Obtained Score = | | | T₄ = (sum of obtained scores against each sub-factor) |

D . Occupational Health & Safety and Labor Management Plan

| Sr. No | Sub-Factors | Max Score | Scoring Criteria |
|--------|---|-----------|--|
| i. | Pollution Prevention, Waste Water and Hazardous Waste Management Plan | 5 | The Bidder shall submit Occupational Health & Safety and Labor Management Plan addressing the requirements as specified in Section IV – Bidding Forms (ES-MSIP). Following sub criteria will be used in assigning points against each sub-factor, subject to the documents/forms submitted as per requirements specified in Section IV – Bidding Forms (ES-MSIP). Satisfactory - 70% Good - 85% |
| ii. | Traffic Management and Emergency Response Plan | 5 | |
| iii. | Safety & Protection of Workers and Labor Management Plan | 10 | |

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| | | | |
|--|-------------------------------|--|--------|
| | | Very Good | - 100% |
| | Obtained Score = | T ₅ = (sum of obtained scores against each sub-factor) | |
| | Grand Total -Obtained Score = | T = T ₁ + T ₂ + T ₃ + T ₄ + T ₅ | |

1.2 Sustainable Procurement

Not Applicable

1.3 Alternative Technical Solutions for specified parts of the Works

Not Applicable

2. Financial Evaluation

2.1 Margin of Preference

Not Applicable

2.2 Criteria for Financial Evaluation

In addition to the criteria listed in ITB 35.3 (a) – (e) the following criteria shall apply:

(i) *Time Schedule*

Time for completion of the Works from the Commencement Date shall be as specified in the Particular Conditions Part A-Contract Data Sub-clause 1.1.84. No credit will be given for earlier completion.

(ii) *Life Cycle Costs*

Not Applicable

3. Combined Evaluation

The Employer will evaluate and compare the Bids that have been determined to be substantially responsive.

An Evaluated Bid Score (B) will be calculated for each responsive Bid using the following formula, which permits a comprehensive assessment of the evaluated cost and the technical merits of each Bid:

$$B \equiv \frac{C_{low}}{C} * X * 100 + \frac{T}{T_{high}} * (1 - X) * 100$$

Where:

C = Evaluated Bid Cost

C_{low} = the lowest of all Evaluated Bid Costs among responsive Bids

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T = the total Technical Score awarded to the Bid

Thigh = *the Technical Score achieved by the Bid that was scored best among all responsive Bids*

X = weight for Cost as **specified in the BDS (X = 90 %)**

The Bid with the best evaluated Bid Score (B) among responsive Bids shall be the Most Advantageous Bid provided the Bidder is qualified to perform the Contract.

B. Multiple Contracts

Not Applicable

C. Specialized Subcontractors

If permitted under ITB 34, only the specific experience of Subcontractors for specialized works permitted by the Employer will be considered. The general experience and financial resources of the Specialized Subcontractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

D. Qualification

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | | Documentation |
|---|---|---|-------------------------|--------------------------------------|-----------------------|------------|---|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| 1. Eligibility | | | | | | | |
| 1.1 | Nationality | Nationality in accordance with ITB 4.4 | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Forms ELI – 1.1 and 1.2, with attachments |
| 1.2 | Conflict of Interest | No conflicts of interest in accordance with ITB 4.2 | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Letter of Bid |
| 1.3 | Bank Eligibility | Not having been declared ineligible by the Bank, as described in ITB 4.5. | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Letter of Bid |
| 1.4 | State- owned Enterprise or Institution of the Borrower country | Meets conditions of ITB 4.6 | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Forms ELI – 1.1 and 1.2, with attachments |
| 1.5 | United Nations resolution or Borrower’s country law | Not having been excluded as a result of prohibition in the Borrower’s country laws or official regulations against commercial relations with the Bidder’s country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.8 and Section V. | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Forms ELI – 1.1 and 1.2, with attachments |
| 2. Historical Contract Non-Performance | | | | | | | |

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | | Documentation |
|--|---|---|-------------------------|--------------------------------------|------------------------------------|------------|-------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| 2.1 | History of Non-Performing Contracts | Non-performance of a contract ¹ did not occur as a result of contractor default since 1 st January 2018 | Must meet requirement | Must meet requirements | Must meet requirement ² | N/A | Form CON-2 |
| 2.2 | Suspension Based on Execution of Bid/Proposal Securing Declaration by the Employer | Not under suspension based on-execution of a Bid/Proposal Securing Declaration pursuant to ITB 4.7 and ITB 19.9 | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Letter of Bid |
| 2.3 | Pending Litigation | Bidder's financial position and prospective long-term profitability still sound according to criteria established in 3.1 below and assuming that all pending litigation will be resolved against the Bidder | Must meet requirement | N/A | Must meet requirement | N/A | Form CON – 2 |
| 2.4 | Litigation History | No consistent history of court/arbitral award decisions against the Bidder ³ since 1 st January 2018 | Must meet requirement | Must meet requirement | Must meet requirement | N/A | Form CON – 2 |
| 2.5 | Declaration: | Declare any civil work contracts that | Must make | N/A | Each must | N/A | Form CON-3 ES |

¹ Nonperformance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

² This requirement also applies to contracts executed by the Bidder as JV member.

³ The Bidder shall provide accurate information on the related Bid Form about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of awards against the Bidder or any member of a joint venture may result in failure of the Bid.

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | | Documentation |
|---|---|--|---|--------------------------------------|--|------------|----------------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| | Environmental and Social (ES) past performance | have been suspended or terminated and/or performance security called by an employer for reasons of breach of environmental, or social (including Sexual Exploitation and Abuse) contractual obligations in the past five years. ⁴ | the declaration. Where there are Specialized Subcontractor/s, the Specialized Subcontractor/s must also make the declaration. | | make the declaration. Where there are Specialized Subcontractor/s, the Specialized Subcontractor/s must also make the declaration. | | Performance Declaration |
| 2.6 | Bank's SEA and/or SH Disqualification | At the time of Contract Award, not subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. | Must meet requirement (including each subcontractor proposed by the Bidder) | N/A | Must meet requirement (including each subcontractor proposed by the Bidder) | N/A | Letter of Bid, Form CON-4 |
| 3. Financial Situation and Performance | | | | | | | |
| 3.1 | Financial Capabilities | (i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means | Must meet requirement | Must meet requirement | N/A | N/A | Form FIN – 3.1, with attachments |

⁴The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | Documentation | |
|--|---|--|---|---|---|---|-------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| | | <p>(independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as USD \$ Twelve (12) million for the subject contract(s) net of the Bidder's other commitments</p> <p>(ii) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.</p> <p>(iii) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last last Five (5) years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.</p> | <p>Must meet requirement</p> <p>Must meet requirement</p> | <p>Must meet requirement</p> <p>N/A</p> | <p>N/A</p> <p>Must meet requirement</p> | <p>N/A</p> <p>N/A</p> | |
| 3.2 | Average Annual Construction Turnover | Minimum average annual construction turnover of US\$ Fifty five (55) million , calculated as total certified payments received for contracts in progress and/or completed within the last 5 years, divided by <i>Five (5) years</i> | Must meet requirement | Must meet requirement | Must meet 25 %, <i>[Twenty Five percent]</i> of the requirement | Must meet 40 %, <i>[forty percent]</i> of the requirement | Form FIN – 3.2 |

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | Documentation | |
|--|---|---|-------------------------|--------------------------------------|-----------------------|---|-------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| 4. Experience | | | | | | | |
| 4.1 (a) | General Construction Experience | Experience under construction contracts in the role of prime contractor, JV member, subcontractor, or management contractor for at least the last ten (10) years. starting <i>1st January 2013</i> | Must meet requirement | N/A | Must meet requirement | N/A | Form EXP – 4.1 |
| 4.2 (a) | Specific Construction & Contract Management Experience | A minimum number of similar contracts specified below that have been satisfactorily and substantially ⁵ completed as a prime contractor, joint venture member ⁶ , management contractor or subcontractor between 1st January <i>2008</i> and Application submission deadline: (i) At least Two (02) Hydropower (50 MW each or higher) contracts of minimum value of US\$ 60 Million each for civil works component , OR | Must meet requirement | Must meet requirement ⁷ | N/A | Must meet the following requirements for the key activities listed below N/A | Form EXP 4.2(a) |

⁵ Substantial completion shall be based on 80% or more works completed under the contract.

⁶ For contracts under which the Applicant participated as a joint venture member or sub-contractor, only the Applicant's share, by value, and role and responsibilities shall be considered to meet this requirement.

⁷ In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | Documentation | |
|--|---------|---|-------------------------|--------------------------------------|-------------|---|-------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| | | (ii) At least One Hydropower (100 MW or higher) contract of minimum value of US\$ 120 Million for civil works component The similarity of the contracts shall be based on <i>Section VII, Scope of Works</i> . | | | | | |
| 4.2 (b) | | For the above and any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or sub-contractor between 1st January 2008 and Application submission deadline, a minimum construction experience in the following key activities successfully completed ⁸ : <u>Civil Works:</u> i. Open Excavation 40,000 m ³ in a month ii. Shaft/Tunnel Excavation 4,000 m ³ in a month iii. Concrete work 6,500 m ³ in a month iv. Fabrication & Installation of Penstock/Manifold with minimum 4 m dia- v. Constructed at least two number of | Must meet requirements | Must meet requirements | N/A | Must meet the following requirements for key activities listed below N/A | Form EXP – 4.2 (b) |

⁸ Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period.

| Eligibility and Qualification Criteria | | | Compliance Requirements | | | Documentation | |
|--|---|---|-----------------------------|--------------------------------------|---|---|-------------------------|
| No. | Subject | Requirement | Single Entity | Joint Venture (existing or intended) | | | Submission Requirements |
| | | | | All Members Combined | Each Member | One Member | |
| | | Bridges (with cumulative length of minimum 100 m for both) | in accordance with ITB 34.3 | accordance with ITB 34.3 | | | |
| 4.2 (c) | Specific Experience in managing ES aspects | <p>For the contracts in 4.2 (a) above and/or any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor between 1st January 2008 and Application submission deadline, experience in managing ES risks and impacts in the following aspects:</p> <ul style="list-style-type: none"> (i) Environmental and social management (ii) managing labor and working conditions, and Sexual Exploitation and Assault (SEA) risks and impacts, (iii) Protection of the environment, resource efficiency and pollution prevention and management (iv) Security of the site, community health and safety, (v) Biodiversity conservation and sustainable management of living natural resources etc. | Must meet requirements | Must meet requirement | Must meet the following requirements N/A | Must meet the following requirements N/A | Form EXP – 4.2 (c) |

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5. Contractor's Representative and Key Personnel

The Bidder must demonstrate that it will have a suitably qualified Contractor's Representative and suitably qualified (and in adequate numbers) Key Personnel, as described in the Specification and herein below.

| No. | Position | Minimum Qualification | Total Work Experience (years) | Similar Works Experience (years) |
|------------|---|---|--------------------------------------|---|
| 1. | Project Manager | BSc Civil Engineering with Certified PMP | 20 | 10 |
| 2. | Deputy Project Manager | BSc Civil Engineering | 15 | 8 |
| 3. | Construction Manager (Civil) | BSc Civil Engineering | 15 | 8 |
| 4. | Construction Manager (Electrical) | BSc Electrical Engineering | 15 | 8 |
| 5. | Construction Manager (Mechanical) | BSc Mechanical Engineering | 15 | 8 |
| 6. | Tunneling Engineer | MSc Geotechnical Engineering | 15 | 8 |
| 7. | Contract Manager | BSc Civil Engineering | 15 | 8 |
| 8. | Design & Technical Manager -Civil Works | MSc Structural Engineering | 10 | 8 |
| 9. | Material Engineer | BSc Civil Engineering | 10 | 8 |
| 10. | Planning Engineer | BSc Civil Engineering. | 10 | 8 |
| 11. | QA/Qc Manager | BSc Civil Engineering | 10 | 8 |
| 12. | Environmental Specialist | BSc Environmental | 10 | 8 |
| 13. | Health and Safety Officer | Bachelor Degree in Environmental /Civil Engineering | 10 | 8 |
| 14. | Social and Gender Specialist | Master Degree in Social Sciences | 8 | 4 |

The Bidder shall provide details of the Contractor's Representative and Key Personnel and such other Key Personnel that the Bidder considers appropriate to perform the Contract, together with their academic qualifications and work experience. The Bidder shall complete the relevant Forms in Section IV, Bidding Forms.

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6. Equipment

The Bidder must demonstrate that it has access to the key equipment listed hereafter:

| Sr#. | Equipment Type and Characteristics | Capacity/Specifications of Equipment | Minimum Number required |
|--------------------------------------|--|---|--------------------------------|
| 1 | Wheel Loader | 6-9 m ³ | 4 |
| 2 | Dumpers | 20 Ton | 12 |
| 3 | Excavators with Jack Hammers (Wheel and Crawler) | 100 -200 HP | 5 |
| 4 | Batching Plant | 60 m ³ /hr | 2 Units |
| 5 | Transit Mixers | 6 m ³ | 10 |
| 6 | Shotcrete Machine | 4-30 m ³ /hr | 6 |
| 7 | Static and Mobile Pumps | 35 -100 m ³ /hr | 6 |
| 8 | Movable Formwork (Tunnel Shaped) | - | 1 Set |
| 9 | Drilling Jumbo / Anchor Rig | - | 4 |
| 10 | Air Ventilators | - | 4 |
| 11 | Crushing Plant | 250 ton /hr | 2 |
| 12 | Generator Sets | 100 kVA | 5 |
| 13 | Cutting and Bending Machine | - | 1 |
| 14 | Mobile crane such as crawler crane or truck crane | 50-100 Ton | 2 |
| 15 | Truck Mounted Crane | 20 Ton | 1 |
| Additional Required Equipment | | | |
| 1 | Road paving plant for hot-placed bitumen-bound macadam | 120 Ton /hr | 1 |
| 2 | Welding Plants | 300-500amp | 3 |
| 3 | Water Tanker | - | 5 |
| 4 | Trailer and Prime mover | - | 2 |
| 5 | Air Compressors | 300-450 CFM | 2 |
| 6 | Dozers | 140- 180 HP | 3 |

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Bidding Forms.