



INVITATION FOR BIDS (IFB)

FOR

Design, Supply, Installation, Testing and Commissioning of Electro-Mechanical Equipment

(EM PACKAGE)

Single-Stage: Two-Envelope Bidding Procedure

March 2023

Document Information

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INVITATION FOR BIDS (IFB) (National Open Competitive Bidding)

Contract Title: Design, Supply, Installation, Testing and Commissioning of Electro-Mechanical Equipment (EM Package) for Keyi Hydropower Project (23 MW) in Arunachal Pradesh

IFB No: *KEYI-W002-EM*

IFB issued on: *22nd March 2023*

Section 3: Evaluation, Eligibility and Qualification Criteria

Volume number	Contents	Section No./ Name
Volume-1	Invitation for Bids	Section 0: Invitation for Bids
	Bidding Procedures and Bidding Forms	Section 1: Instructions to Bidders
		Section 2: Bid Data Sheet
		Section 3: Evaluation, Eligibility and Qualification Criteria
		Section 4: Bidding Forms for Technical Bid
		Section 5: Bidding Forms for Price Bid
	Employer's Requirements	Section 6: Employer's Requirements (the contents of this Section includes by reference the contents of Volume-2 and Volume -3)
	Conditions of Contract and Contract Form	Section 7: General Conditions of Contract
		Section 8: Special Conditions of Contract
		Section 9: Contract Forms
Volume-2	Technical Specifications	Part-I: Technical Specification for E & M Equipment
		Part-II: Technical Data Sheet
Volume-3	Drawings	Drawings - E & M System Drawings

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1. Evaluation

1.1 Technical Evaluation

In addition to the criteria listed in ITB 34.1 (a)–(b), other relevant factors are as follows:

- a. Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to successfully implement the contract considering its proposed site organization, method statement, mobilization, and construction schedule (to be described by the Bidder in sufficient detail to demonstrate the adequacy of its work methods, scheduling, and material sourcing) including the extent to which they are presented in a consistent manner and comply with requirements stipulated in Section 6 (Employer's Requirements) without material deviation, reservation, or omission.
- b. Noncompliance with equipment and personnel requirements, if described in Section 6 (Employer's Requirements), shall not normally be a ground for bid rejection and such noncompliance will be subject to clarification during bid evaluation and rectification prior to contract award. Otherwise, the same will be mutually agreed between the Employer and the Successful Bidder based on the details furnished in the bid, prior to Contract finalisation.

1.2 Alternative Technical Solutions

Technical alternatives, if permitted under ITB 13.4, will be evaluated as per ITB 34.2

1.3 Economic Evaluation

In addition to the criteria listed in ITB 39.2 A (a)–(f), other relevant factors are as follows:

1.3.1 Quantifiable Deviations and Omissions

Pursuant to ITB 33.3, the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids, inter alia using the method if any specified in ITB 33.3.

1.3.2 Functional Guarantees of the Facilities

The minimum and/or maximum requirements stated in the Specification for functional guarantees required in the Technical Specification in Employer's Requirements are:

Functional Guarantee <i>[as required in the Specification, e.g., performance, efficiency, consumption, etc.]</i>	Minimum Requirements <i>[as required in the Specification]</i>
1. Weighted average efficiency -Turbine	91.5% (min.)
2. Weighted average efficiency -Generator	97.0 % (min.)
3. Runaway speed	< 1.8 times the rotating speed

Bidders shall state the functional guarantees (e.g. performance, efficiency, consumption) of the proposed Facilities in response to the Technical Specifications in Section 6 (Employer's Requirements). Plant and equipment offered shall have a minimum (or a maximum, as the case may be) level of functional guarantees specified in the Technical Specifications to be considered responsive. Bids offering plant and equipment with functional guarantees less than the minimum (or a maximum, as the case may be) specified shall be rejected.

For the purposes of evaluation, the adjustments specified below shall be effected to the Bid Price:

A. Turbine

Equalization on account of differences in weighted average efficiencies of turbines at rated net head of the responsive bids will be made at the rate of INR 1.7 million for each one tenth of one percent (0.1%) by which the weighted average efficiency given in any responsive bid is lower than the highest weighted average efficiency among all the responsive bids. For differences lower or higher than one tenth of one percent (0.1%), the equalization will be computed on pro-rata basis.

B. Generator

Equalization on account of differences in weighted average efficiencies of generators at rated voltage & speed of the responsive bids will be made at the rate of INR 1.7 million for each one tenth of one percent (0.1%) by which the weighted average efficiency given in any responsive bid is lower than the highest weighted average efficiency among all the responsive bids. For differences lower or higher than one tenth of one percent (0.1%), the equalization will be computed on pro-rata basis.

No change in the value of performance guarantee /specified values of losses will be permitted after opening of bids and evaluation shall be carried out on basis of information furnished by the Bidder in the Bid

1.3.3 Work, services, Facilities etc., to be provided by the Employer

Where Bids include the undertaking of work or the provision of services or Facilities by the Employer in excess of the provisions allowed for in the Bidding Documents, the Employer shall assess the costs of such additional work, services and the Bid Price shall be adjusted based on the same for the purpose of evaluation.

1.3.4. Environmental, Health and Safety Management Plan (EHSMP)

Any bid not accompanied by the EHSMP may be rejected by the Employer as nonresponsive. If a Bidder submits a EHSMP that is not commensurate with the risks and impacts of the proposed works and activities in the bidding document, the Employer shall issue a request for clarification to request for further information from the Bidder. The Bidder must submit the requested information within 7 (seven) days of receiving such a request. Failure to provide a satisfactory response to the request for further information within the prescribed period of receiving such a request may cause the rejection of the Bid.

1.4 Multiple Contracts for different Sub-packages

Not applicable

2. Eligibility and Qualification**2.1 Eligibility**

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		
		All Partners Combined	Each Partner	One Partner
				Submission Requirements

2.1.1 Nationality

A Bidder may have the nationality of any country, subject to the restrictions pursuant to conditions mentioned in Notes below	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Forms ELI - 1; ELI - 2 with attachments
Notes: i. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.					

- ii. Firms and individuals shall be ineligible if (a) as a matter of law or official regulations, the Government of India or the Government of Arunachal Pradesh prohibits commercial relations with the country of the Firm/ individual or the Firm/ individual; or, the Government of India or the Government of Arunachal Pradesh prohibits any import of goods or contracting of works or services from the country of the Firm/ individual or the Firm/ individual , or any payments to any country, person, or entity in that country.
- iii. To be eligible to bid, the Bidders must ensure compliance to the following as may be amended/ clarified from time to time by the Ministry of Finance, Government of India, failing which they shall not be eligible:

Restrictions under Rule 144 (xi) of GFR 2017: Restrictions on procurement from a bidder of a country which shares a land border with India

I. Any bidder from a country which shares a land border with India will be eligible to bid only if the bidder is registered with the Competent Authority.

II. "Bidder" (Seller / Service Provider) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order/ Rule means: -

- a. An entity incorporated, established, or registered in such a country; or*
- b. A subsidiary of an entity incorporated, established, or registered in such a country; or*
- c. An entity substantially controlled through entities incorporated, established, or registered in such a country; or*
- d. An entity whose beneficial owner is situated in such a country; or*
- e. An Indian (or other) agent of such an entity; or*
- f. A natural person who is a citizen of such a country; or*
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above*

IV. The beneficial owner for the purpose of (iii) above will be as under:

- 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. Explanation—*
 - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company;*
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;*
- 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;*

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

2.1.2 Conflict of Interest

No conflicts of interest in accordance with ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid
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2.1.3 General Eligibility

Not having been declared ineligible or determined not to be ineligible by the Employer as described in Notes below.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid
<p>i. Only firm that is a private entity, a state-owned entity or an institution, legally established in India to undertake design, supply and installation of the works mentioned in the scope of works under this RFB Document/ bidding document are eligible to bid (submit their Bid in response to RFB Notice/ NIT). The Bidder (alternatively referred to as the Contractor) may be a proprietorship concern or a partnership firm operating in India, or a registered entity in India under the Companies Act, 1956, 2013 or LLP Act.</p> <p>ii. Any combination of such entities eligible as per i) above, is also eligible to bid in the form of a joint venture (JV) as defined in Section 1, under an existing agreement. In the case of a joint venture, the number of members of the JV shall not exceed 03 (three) and all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall</p>					

nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. In case of JV, the bidding JV (also referred to as the Bidder) shall submit a Joint Deed of Undertaking in Bid, as per the format enclosed in **Section 4** of the RFB/ bidding document. No change in the structure / constitution of the JV shall be permitted at any stage during bidding or execution of the Contract in the event of award.

iii. As an exception to the foregoing Clause i & ii above:

- a. **Sanctions** : Firms, which includes any of the JV members in case of bidding Joint Venture as per Clause ii above, blacklisted by the Employer/ / Government of India/ Government of Arunachal Pradesh / any Regulatory Authority, as on the date of submission of Bid, are not eligible to bid.
- b. **Suspension** : Firm, which includes any of the JV members in case of bidding Joint Venture as per Clause ii above, under suspension by the Employer as the result of the operation of a Bid-Securing Declaration or Proposal-Securing Declaration or for any other reason whatsoever, as on the date of submission of bid, shall not be eligible to bid.

2.2 Historical Contract Nonperformance

2.2.1 History of Nonperforming Contracts

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Nonperformance of a contract ^a did not occur as a result of contractor default since 1 January 2017	Must meet requirement	Must meet requirement	Must meet requirement ^b	Not applicable	Form CON-1

^a 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.

^b This requirement also applies to contracts executed by the Bidder as Joint Venture partner.

2.2.2 Suspension Based on Execution of Bid-Securing Declaration

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.6.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid

2.2.3 Pending Litigation and Arbitration

Pending litigation and arbitration criterion shall apply and a history of arbitration and litigation may lead to disqualification.

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Bidder's financial position and prospective long term profitability still sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Bidder.	Must meet requirement	Not applicable	Must meet requirement	Not applicable	Form CON – 1

2.2.4 Declaration: Environmental, and Health and Safety Past Performance

Criteria		Compliance Requirements			Submission Requirements
Requirement	Single Entity	All Partners Combined	Each Partner	One Partner	
Declare any contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any	Must make the declaration. If the bidder proposes Specialist Sub-	Not applicable	Each partner must make the declaration. If the bidder	Not applicable	Form CON-2

environmental, health and safety contractual obligations, since 1 January 2017.	contractor/s to meet EQC 2.5.2, those Specialist Sub-contractor/s must also make the declaration		proposes Specialist Sub-contractor/s to meet EQC 2.5.2, those Specialist Sub-contractor/s must also make the declaration.		
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2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last five (5) Financial Years ie. FY2017-18 to FY 2021-22 to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.	Must meet requirement	Not applicable	Must meet requirement	Not applicable	Form FIN - 1 with attachments

2.3.2 Average Annual Turnover

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Minimum Average annual turnover ^a in Indian Rupees INR 200.00 Million from operations excluding other income, for best three (3) out of the last five (5) Financial Years ie. FY2017-18 to FY 2021-22.	Must meet requirement	Must meet requirement	Must meet 25% of the requirement	Must meet 50% of the requirement	Form FIN - 2

^aFinancial turnover of previous years shall be given weightage @5% per year based on rupee value to bring them to the price level of the financial year in which bids are received.

2.3.3 Financial Resources

If the bid evaluation process and the decision for the award of the Contract takes more than 1 year from the date of bid submission, Bidders may be asked to resubmit their current contract commitments and latest information on financial resources supported by latest audited accounts or audited financial statements, or if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, and the Bidders' financial capacity, will be reassessed on this basis.

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
For Single Entities: The Bidder must demonstrate in FIN – 3, access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:	Must meet requirement	Not applicable	Not applicable	Not applicable	Form FIN – 3 and Form FIN - 4

(i) the following cash-flow requirement: Indian Rupees INR 50.00 Million and (ii) the overall cash flow requirements for this contract and its current commitments.					
For Joint Ventures: (1) The Joint Venture cumulatively must demonstrate in FIN – 3, access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet: (i) the following cash-flow requirement: Indian Rupees INR 50.00 Million and (ii) the overall cash flow requirements for this contract and its current commitments.	Not applicable	Not applicable	Not applicable	Must meet requirement	Form FIN – 3 and Form FIN - 4
(2) Each partner must demonstrate in FIN - 3, access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet 25% of the cash flow requirement specified in 1(i) above.	Not applicable	Not applicable	Must meet requirement	Not applicable	Form FIN – 3 and Form FIN - 4

2.4 Bidder's Experience

2.4.1 Contracts of Similar Size and Nature:

The following qualification requirements shall apply:

- a. The bidder must have designed, engineered, erected / supervised erection, commissioned / supervised commissioning of at least three (3) nos. units of vertical/horizontal shaft Francis type hydro-turbines and Generator at two different project site each of capacity 12 MW or higher, which are in successful operation for a period of not less than three (3) years as on date of deadline for bid submission.

and

- b. The bidder must have designed, engineered and manufactured either vertical/horizontal shaft Francis type hydro-turbines or Generators, each of capacity 12 MW or higher, which are in operation at two different project sites, which are in successful operation for a period of not less than three (3) years as on date of deadline for bid submission.
- a. The Bidder can be a joint venture (JV), comprising of a maximum of three (3) firms meeting the requirements stipulated as follows:
 - i. The joint venture (JV) partners/ members must collectively meet all the requirement specified in criteria 2.4.1 above.
 - ii. The joint venture partners shall necessarily identify one of the partners as lead partner who shall meet at least the requirement stipulated in either (a) (i) or (a) (ii) or (a) (iii) above.
 - iii. The joint venture bidder shall provide along with the Bid a Joint Venture Agreement, as per the format provided in Section 4 in which the partners in the Joint Venture are jointly and severally liable to the Employer to perform all the contractual obligations. The Joint Venture Agreement shall be submitted along-with the Bid, failing which the Bidder shall be disqualified and his bid shall be rejected.
 - iv. In case of Joint Venture, the bid security, and in the event of award, the performance bank guarantee shall be in the name of all the partners of the Joint Venture.

Note 1: In case of Company, who bids either as the sole bidder or a partner of a bidding Joint Venture, formed after merger and/or acquisition of other companies, past experience and other antecedents of the merged/acquired companies will be considered for qualification of such Company provided such Company continues to own the requisite assets and resources of the merged/ acquired companies needed for execution and successful providing the Facilities/ implementation of the Works under the Package.

Note 2: Similarly, if the Company is a subsidiary company and adduces documentary evidence of having had the support of and access to the assets and resources of a 'Parent Company' for execution of Electro-mechanical works similar to the package under consideration and the same is guaranteed by such 'Parent Company' for this Works/ Facilities under the package through a Corporate Guarantee or any other proper documents to the satisfaction of the Employer, past Experience and Financial Capacity of such 'Parent Company' may be considered for qualification of such Subsidiary Company.

For the purpose stated herein above in this clause, 'Parent Company' shall mean the 'Holding Company' owning majority (more than 50%) shares of such bidding (Subsidiary) Company. Similarly, by extension of this interpretation, if "A" is owned by a 'Holding Company' "B" which in turn is owned by another 'Holding Company' "C", then "C" is construed as the 'Parent Company' of "A" as well and so on. An apex 'Parent Company' may own number of independent Subsidiary / Group Companies and if any of these Subsidiary / Group Company commits assured support and unhindered access to its assets and resources to another Subsidiary / Group Company (bidding Company in this case) under the same apex 'Parent Company' then experience and other credentials of such Subsidiary / Group Company shall be

considered for qualification of the bidding (Subsidiary) Company provided such commitment is evidenced /authorized and guaranteed by the apex 'Parent Company'.

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Participation as a contractor, Joint Venture partner, or Associate (Subcontractor), and meeting the experience requirements specified above in at least one contract, wherever applicable, that has been satisfactorily and substantially completed on or after 1 st January 2013.	Must meet requirement	As specified	As specified	As specified	Form EXP – 1 ^d

^a For contracts under which the Bidder participated as a Joint Venture partner or Subcontractor, only the Bidder's share, shall be considered to meet this requirement.

^b For contracts implemented by a Joint Venture contractor, if the Bidder comprises the same Joint Venture, the 'Single Entity' requirements will apply.

^c In case of complex works, the Employer may require each partner to demonstrate one satisfactorily and substantially completed contract of similar nature where such partner's value of participation is reasonable.

^d In addition to the submission requirement Form EXP – 1, the bidder shall provide the following supporting documents:

1. Signed Contract Agreement, and

2. Taking-Over Certificate, Contract Completion Certificate or Performance Certificate,

in sufficient detail to verify the contract name, value and completion time (or substantial completion i.e approximately 90% of the contracted value). If the documents are other than in English, an accurate certified translation of these documents in English shall be provided.]

2.5 Organizational Environmental, Health and Safety System

2.5.1 Environmental, Health and Safety Certification

Criteria	Compliance Requirements		Documents
Requirement	Single Entity or its Specialist Subcontractors	Joint Venture or Its Specialist Subcontractors	Submission Requirements
Availability of a valid Environmental, Social, Health and Safety related ISO certification or internationally recognized equivalent (equivalency to be demonstrated by the Bidder)	Must meet requirements	At least one member of the Joint Venture must meet the requirements Or The Joint Venture's specialist subcontractor must meet requirements	Form EXP – 2

2.5.2 Environmental, Health and Safety Documentation

Criteria	Compliance Requirements		Documents
Requirement	Single Entity or Its Specialist Subcontractors	Joint Venture or Its Specialist Subcontractors	Submission Requirements
Availability of in-house policies and procedures for ESHS management: For example: 1. Existence of an Ethics Charter. 2. Existence of a system for monitoring compliance with EHS commitments for the Bidder's Subcontractors and all its partners. 3. Existence of official company procedures for the ESHS management.	Must meet requirements	At least one member of the Joint Venture must meet the requirements Or The Joint Venture's specialist subcontractor must meet requirements	Form EXP – 3

2.5.3 Environmental, Health and Safety Dedicated Personnel

Criteria	Compliance Requirements		Documents
Requirement	Single Entity or Its Specialist Subcontractors	Joint Venture or Its Specialist Subcontractors	Submission Requirements
Availability of in-house personnel dedicated to EHS issues: - Environmental Specialist - Health and Safety Specialist	Must meet requirements	At least one member of the Joint Venture must meet the requirements Or The Joint Venture's specialist subcontractor must meet requirements	Form EXP – 4

2.6 Subcontractors

Subcontractors or Manufacturers for the following major items of plant and services must meet the following minimum qualification criteria, herein listed for a Subcontractor for that item. Failure to comply with this requirement will result in rejection of the Subcontractor but not the Bidder.

Item No.	Description of Item	Minimum Criteria to be met	Documents Submission Requirements
1.	Turbine and Accessories		Form EXP-5
1.1	Turbine	The Bidder/ Sub-Contractor/ Manufacture must meet the requirement specified in criteria 2.4.1 (b) above	
1.2	Governor (Digital Type)	The Bidder/ Sub-Contractor/ Manufacture shall have completed the design, manufacture, transportation, installation, testing and commissioning of at least three (3) Nos. Digital Type Governor supplied to three different power plants and having satisfactory performance for a period of not less than three (3) years as on the date of deadline for bid submission.	
1.3	Butterfly Valve	The Bidder/ Sub-Contractor/ Manufacture shall have completed the design, manufacture, transportation, installation, testing and commissioning of three (3) Nos. Inlet Butterfly Valve of size not less than 1.5m at two different power plants and satisfactory performance for a period of not less than three (3) years as on the date of deadline for bid submission.	

2.	Hydro Generator and Associated Equipment	
2.1	Generator	The Bidder/ Sub-Contractor/ Manufacture must must meet the requirement specified in criteria 2.4.1 (b) above
2.2	Brushless Excitation System	The Bidder/ Sub-Contractor/ Manufacture shall have completed the design, manufacture, transportation, installation, testing and commissioning of at least 3 Nos. of digital brushless excitation equipment supplied to two different power plants and having satisfactory performance for a period of not less than three (3) years as on the date of deadline for bid submission.
3	Generator Transformer	The Bidder/ Sub-Contractor/ Manufacture shall have completed the design, manufacture, transportation, installation, testing and commissioning of at least three (3) nos. three phase ONAF / ONAN Generator Transformer installed at three different projects having capacity of not less than 15 MVA, Low Voltage winding side of 11 kV or more, High Voltage winding side of 132 kV or more, and with trouble free and satisfactory performance for a period of not less than three (3) years as on the date of deadline for bid submission.
5	Additional Requirement (OPTIONAL)	
	<p>I. Place of Turbine Runner model test</p> <p>The laboratories proposed for Turbine runner model test shall be accredited by reputed agencies. The list of laboratories shall be got approved from the Employer before proceeding for the model test. Employer reserves the right to get the turbine runner model tested in any of the renowned approved test laboratory or Contractor's facilities/ recommended agencies by the Contractor.</p> <p>In case model tests are conducted at the Contractor's facilities, the Contractor shall guarantee the repeatability of the results within the allowance provided in IEC. Nevertheless the Employer reserves the right to get the model test repeated in presence of both the parties in an internationally recognized independent laboratory at his own cost.</p> <p>The Contractor shall supply his model test data, method of testing from previous tests and turbine model, for each component of turbine, to the laboratory selected for conducting the tests, if it is different than the Contractor's facilities.</p> <p>a. The Manufacturer shall have the facilities for non-destructive testing by radiographic, ultrasonic, magnetic particle, dye penetration and other accepted methods, and the details of the same shall be furnished by the Bidder in the Bid.</p> <p>b. The Manufacturer shall have own facilities or arrange for shop testing of various components/assemblies of turbine, governor, butterfly valve, generators, static excitation equipment, computerized control system and auxiliary equipment etc. The facilities available for carrying out type & routine tests as per internationally acceptable norms and procedures shall be described in the bid.</p>	

	<p>II. The Manufacturer shall have own equipment and instruments required for testing of turbines and generators or arrange the same at site as per internationally accepted methods and procedures.</p> <p>III. The Manufacturer shall have established quality assurance systems and organization design to achieve high level of equipment reliability during its design and manufacturing process. Quality assurance programme shall be submitted along with Bid. Details, if any, of the internationally recognized quality assurance organizations which have approved the works and production of the Manufacturer should be furnished with Bid.</p> <p>IV. The performance of the equipment supplied by the Manufacturer in the past shall be a vital factor in qualifying the bid for the project. In case of substantial failure of the applicants in the past contracts to adhere to delivery schedules or to meet the technical requirements and guarantees and if the equipment so supplied and installed were affected by the persistent operation problems, damages, breakdowns etc. owing to design inadequacies, manufacturing defects, erection mistakes etc. , the Manufacturer shall be disqualified.</p> <p>V. The Bidder shall submit satisfactory evidence of the above in the bid</p>	
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Table-1

Equipment/Item	Capacity/ Specification for the project	Minimum Desired Experience		
		Capacity/ Specification	Satisfactory Operation	
			No. of Plants	Years
OTHER POWER PLANT EQUIPMENT				
1. Station Auxiliary Transformer (3-Phase Dry Type)				
Capacity (kVA)	500	≥ 500	2	3
Voltage (kV)-HV Wdg.	11	≥11		
Voltage (kV)-LV Wdg.	0.415	≥0.415		
Cooling Type	AN	AN		
2. Computerized Control & Monitoring System				
Computer Based Control Equipment and Protection Equipment (Comprising Numerical Relays) for Turbine, Generator Transformer, 132 kV Busbar & 132 kV Line, etc.		2 Power Station with the same or higher specification as of this project	2	3
3. HT< Switchgear System				
Vacuum /Air Circuit Breaker Rating (11kV Switchgear Panels)	11 kV	≥ 11 kV	2	3
Air Circuit Breaker Rating (0.433kV Switchgear Panels)	0.433 kV	≥ 0.415 kV		

4. 110 V DC Supply System			2	3
5. 48 V DC Supply System			2	3
6. 132 kV Switchyard Yard Equipment	132 kV voltage class of Current Transformers/ Capacitive Voltage Transformers/ Surge Arrestors/ Isolators/Insulators/ Circuit Breakers etc.	≥132 kV voltage class of Current Transformers/ Capacitive Voltage Transformers/ Surge Arrestors/ Isolators/ Circuit Breakers etc. at two power plants	2	3
7. Electric Overhead Traveling (EOT) Crane				
Main Hook Capacity (T)	40 T	≥ 40 T	2	3
Auxiliary Hook Capacity (T)	10 T	≥ 10 T		
8. Fire Fighting, Fire Alarm & Fire Protection System		As Per requirement of the project	2	3
9. Air-conditioning and Ventilation System		As Per requirement of the project	2	3
10. Illumination System		As Per requirement of the project	2	3
11. Emergency Supply System (DG Sets)				
Capacity (kVA)	375 KVA	≥375	2	3
Voltage (kV)	0.415	≥0.415		
13. Internal Communication System (Comprising PABX, Telephone Sets, Radiotelephony etc.)		As Per requirement of the project	2	3
14. Oil Filtration System		As Per requirement of the project	2	3
15. Earth Mat		As Per requirement of the project	2	3

In the case of a Bidder who offers to supply and install major items of plant under the contract, which the Bidder did not manufacture or otherwise produce, the Bidder shall provide the Manufacturer's authorization, using the form provided in Section 4 (Bidding Forms for Technical Bid), showing that the Bidder has been duly authorized by the Manufacturer or producer of the related plant and equipment or component to supply and install that item in the Employer's country. Failure to submit the Manufacturer's authorization at the first instance is considered a minor, nonmaterial omission and shall be subject to clarification. However, failure of the Bidder to submit the omitted authorization to the satisfaction of the Employer

shall lead to rejection of the Subcontractor or Manufacturer of the item under evaluation in accordance with ITB 35.4.

3. General

- 3.1 Even though the bidders may meet the above specified criteria, they are liable to be disqualified if they have:
- a. made misleading or false representations in the forms, statements, affidavits, and attachments submitted in proof of the qualification requirement;
 - b. record of poor performance such as abandoning the works, not properly completing the works or financial failures etc.
 - c. consistent history of litigation or arbitration awards against the bidder or any member or the joint venture.