

**PUNATSANGCHHU-I HYDROELECTRIC PROJECT AUTHORITY (PHPA-I)**



**BIDDING DOCUMENT**

**FOR**

**SUPPLY OF PUMPS AND LOCAL CONTROL PANELS EQUIPPED WITH MOTOR  
STARTERS & CABLES**

**(NIT No. PHPA-I/SE(C&P)/146-06/2024)**

July, 2024



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**SECTION I**  
**NOTICE INVITING TENDER**

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PUNATSANGCHHU-I HYDROELECTRIC PROJECT AUTHORITY (PHPA-I)

NIT No. PHPA-I/SE(C&P)/146-06/2024

NOTICE INVITING TENDER

Sealed item rate bids are hereby invited for and on behalf of PHPA-I from experienced and financially sound Bhutanese and Indian bidders fulfilling the eligibility criteria specified in the Bidding Document for “Supply (**FOR, Liaison Office, PHPA-I, Phuntsholing, Chukha**) of pumps and local control panels equipped with motor starters & cables, and subsequent handling, transportation to site, Erection, Testing & Commissioning by PHPA-I in close supervision by the Supplier/OEM”.

**Eligibility Criteria**

The participating Bidders shall fulfil the following criteria:

The bidder shall furnish documentary evidence such as valid Trade License/ISO Certificate, Valid Tax Clearance Certificate, authorized distributor/dealer/supplier or manufacturer of such items, and experience of having successfully completed supply orders for similar items received by them from Government/Corporation and Private Sector Undertakings during last 7 years preceding the last date of bid submission or any extension thereof, amounting the following:

*Three similar supplies each of value not less than Nu./Rs. 396,000.00*

Or

*Two similar supplies each of value not less than Nu./Rs. 594,000.00*

Or

*One similar supply each of value not less than Nu./Rs. 792,000.00*

The prospective bidders may purchase the bidding document from the office of the Superintending Engineer (C&P), Bjimthangkha, Wangdue w.e.f **19.07.2024** to **17.08.2024** on payment of a non-refundable fee of Nu./Rs. **1000 (one thousand)** only in the form of a bank draft drawn in favor of PHPA-I, payable at the Bank of Bhutan (Bajo & Thimphu). The bidders can also download the Bidding Document from the PHPA-I website: [www.phpa1.gov.bt](http://www.phpa1.gov.bt) at free of cost.

Any corrigendum/addendum/errata in respect of this tender shall be made available only at the mentioned website.

PHPA-I reserves the right to reject any or all the bids without assigning any reason thereof.



Superintending Engineer (C&P)



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**SECTION II**  
**TERMS & CONDITIONS OF CONTRACT**

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## TERMS & CONDITIONS OF CONTRACT

### 1. Scope of Work

PHPA-I invites sealed bids from eligible and qualified Bhutanese & Indian bidders for “Supply (**FOR, Liaison Office, PHPA-I, Phuentsholing, Chukha, Bhutan**) of pumps with local control panels equipped with motor starters & cables, and subsequent handling, transportation to site, Erection, Testing & Commissioning by PHPA-I in close supervision by the Supplier/OEM”.

The scope of works shall be as specified in General Technical Specifications. The quoted rates by the Bidder(s) shall be indicated in the appropriate column of the Bill of Quantities (BoQ)/Price Schedule.

### 2. Eligibility Criteria

The participating bidders shall fulfil the following:

- 2.1 The bidder shall furnish documentary evidence such as valid Trade License/ISO Certificate, Valid Tax Clearance Certificate, authorized distributor/dealer/supplier or manufacturer of such items, and experience of having successfully completed supply orders for similar items received by them from Government/Corporation and Private Sector Undertakings during last 7 years preceding the last date of bid submission or any extension thereof, amounting the following:

*Three similar supplies each of value not less than Nu. /Rs. 396,000.00*

Or

*Two similar supplies each of value not less than Nu. /Rs. 594,000.00*

Or

*One similar supply each of value not less than Nu. /Rs. 792,000.00*

### 3. Instruction to Bidders

- 3.1 Bidder shall submit all the relevant documents mentioned under the eligibility criteria along with the Bids.
- 3.2 PHPA-I is not responsible for the completeness of the Bids.
- 3.3 Bidder is expected to examine all instructions, bidding forms, terms & conditions and specifications in the Bidding Document. Failure to furnish all documentations required by the Bidding Document may result in the rejection of the Bid.
- 3.4 Prospective bidders requiring any clarification of the Bidding Document shall notify PHPA-I during office hours at Tel.# **02-471575** or email (secphpa@gmail.com). The PHPA-I shall respond in writing to any such request for clarification, provided that it is received no later than 15 (fifteen) days prior to the deadline for submission of bids. All such clarification(s) shall form part of the bidding document and shall accompany the bids.



- 3.5 At any time prior to the deadline for submission of Bids, PHPA-I may amend the Bidding Document by issuing an Addendum. This may be done either on the PHPA-I's own initiative or in response to a clarification request from prospective Bidders. Any addendum issued shall be part of the Bidding Document.
- 3.6 PHPA-I may, at its discretion, extend the deadline for submission of bid by amending the Bidding Document, in which case, all rights and obligations of PHPA-I and bidders previously subject to the deadline shall thereafter be subjected to the deadline as extended.
- 3.7 Bidder shall bear all costs associated with the preparation and submission of its Bid. PHPA-I shall not be responsible for any cost of the bidding process.
- 3.8 Bidder shall furnish an Earnest Money Deposit/Bid Security amounting to **Nu. /Rs. 20,000.00 (twenty thousand)** only in the form of Demand Draft/Cash Warrant payable on Bank of Bhutan, Wangdue or State Bank of India, Jaigaon, India, issued by any financial institution of Bhutan or Scheduled Indian Bank in favour of **Punatsangchhu-I Hydroelectric Project Authority (PHPA-I), Bjimthangkha, Wangdue**, in a separate sealed envelope which will be opened first. No interest shall be payable by PHPA-I on the EMD.
- 3.9 EMD shall remain valid at least for a period of **90 days** from the date of bid opening.
- 3.10 The Bid not accompanied by valid EMD shall be rejected as non-responsive.
- 3.11 Withdrawal of a bid between the deadline for submission of the bids and expiration of the bid validity period specified in the Bidding Document or changes in prices or any of the terms and conditions, may result in the forfeiture of the EMD.
- 3.12 EMD of the successful bidders shall be returned after the submission of acceptable Performance Guarantee. EMD of unsuccessful bidders shall be discharged as promptly as possible upon award of Contract, but in any event not later than 30 days after the expiration of the period of bid validity prescribed by the PHPA-I.
- 3.13 This bidding document is not transferrable.
- 3.14 All correspondences including supporting documents relating to the bids shall be clearly and concisely written or printed in English.

#### **4. Preparation of Bidding Document**

- 4.1 In the event of space of the Bid Form being insufficient for the required purpose, additional pages may be added. Each additional page must be numbered, bear the NIT Number and fully signed by the bidders. Reference to the additional pages must be made in the Bidding Document.
- 4.3 Bids shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. Any overwriting or erasing in the figure shall not be considered for acceptance of the rates offered by the bidders.



- 4.4 Alternate bids shall not be considered by the PHPA-I.
- 4.5 Bids shall remain valid for period of **60 days** from the date of Bid Opening. A Bid valid for a shorter period shall be rejected by the PHPA-I as non-responsive.
- 4.6 PHPA-I reserves the right to accept or reject any or all the bids without assigning any reason thereof.
- 4.7 Bidders shall quote rates for all items in the Bill of Quantities (BoQ) which shall be inclusive of all taxes, duties, insurance and any other costs involved. The rates shall remain firm and shall not be subjected to any adjustment during the performance of the contract.

## 5. Submission & Opening of Bids

- 5.1 The inner sealed envelope containing Bidding Document shall super scribe the address and identification of Notice Inviting Tender (NIT) and Date of Bid Opening along with contract name and address of the Bidder to enable the Bid to be returned in case it is declared late.

The outer envelope shall bear the address, identification of the Notice Inviting Tender No. and Date of bids opening. The bids must be submitted to Superintending Engineer (Contracts & Procurement), PHPA-I, Bjimthangkha, Wangdue, Bhutan or Liaison Office, PHPA-I, Phuentsholing, Chukha, Bhutan on or before **17.08.2024 at 1300 Hrs.**

All envelope shall be sealed with adhesive or other sealant to prevent reopening. If the envelopes are not sealed and marked as above, the PHPA-I shall assume no responsibility for the misplacement or premature opening of bid.

- 5.2 PHPA-I shall not consider any Bid that is submitted after the deadline for submission of Bids. Any Bid received by the PHPA-I after deadline for submission of Bids shall be declared late, rejected and returned unopened to the Bidder.
- 5.3 Each Bidder shall submit only one bid.
- 5.4 Bids submitted vide e-mail/fax/conditional offers or by electronic means are NOT acceptable and shall be rejected.
- 5.5 Bids shall be opened on **21.08.2024 at 1500 hours (BST) in the office of Superintending Engineer (C&P), PHPA-I, Bjimthangkha, Wangdue, Bhutan** in presence of Bidder/Bidders' authorized representatives who wish to attend. Unauthorized representatives shall not be allowed to be present during Bid Opening. If the specified Bid opening date falls on public holiday (s), the bids shall be opened at same time and same place as specified in the Bidding Documents on the next working day in presence of the authorized representatives who wish to be present.
- 5.6 The Bidders are at liberty to be present or authorize a representative to attend the Bid opening on the date and time specified in the Bidding Document. The Bidders or his authorized representative shall be required to sign on a register indicating their presence at the time of Bid opening.



## 6. Award of Contract

- 6.1 PHPA-I shall award the Purchase Order to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Document.
- 6.2 The successful Bidder shall, within 15 (fifteen) working days from the date of issue of Purchase Order(s), shall furnish the Performance Guarantee in the form of Demand Draft/irrevocable Bank Guarantee in favour of Punatsangchhu-I Hydroelectric Project Authority **issued by any nationalized/scheduled bank located in Bhutan/India** on the Proforma provided by PHPA-I for an amount equal to 10% (ten percent) of the Contract Value. The Performance Guarantee shall be valid till 30 days beyond the warranty period and shall be retained by PHPA till such time.
- 6.3 Bidder may note that the quantities given in the BoQ/Price Schedule is the anticipated requirement of PHPA-I and these quantities may increase or decrease based on actual requirement.
- 6.4 The successful Bidder shall supply only the approved/reputed brands and no other brands/materials shall be accepted by the PHPA-I.
- 6.5 If required, the material shall be subjected to inspection by PHPA-I in the supplier's premises before delivery/dispatch or the PHPA-I shall conduct inspection of the supplied materials at Phuentsholing. If the materials are not found as per the approved samples and brands, then PHPA-I shall reject the supplies and request the Bidders to supply original materials.
- 6.6 The successful Bidder(s) shall deliver the materials (**FOR, Liaison Office, PHPA-I Phuentsholing, Chukha**) in good and proper condition as per specification within **6 months** from the date of issue of Purchase Order. In case the supplier fails to deliver the goods within the specified delivery period, Liquidated Damages @ 0.1% (zero-point one percent) of the value of the delayed goods/materials per days of delay or part thereof subject to a maximum of 10% (ten percent) of value of Purchase Order for delayed goods shall be levied on suppliers.

For delays beyond LD period, the Purchase Order shall be liable for cancellation at the discretion of PHPA-I. Under such an event, the Performance Security of the firm shall be forfeited.

- 6.7 In case of extra ordinary delay or non-supply of any or all the materials on the due dates, PHPA-I shall have the right to refuse to accept such delayed supplies and shall make the purchases of the materials so delayed or not supplied from any alternative sources or through departmental manufacture at the sole risk and cost of the supplier. Any extra expenditure incurred on such purchase or departmental manufacture shall be recoverable in full from the original supplier in addition to the purchaser's right or claim for liquidated damages.
- 6.8 The materials shall be under warranty period for 12 months from the date of receipt of materials by PHPA-I. Any defective or damaged item (s) which in the opinion of PHPA-I be due to the material not in accordance with specifications or due to the manufacturing defects shall be replaced by the supplier at its own cost.



During warranty period, if Supplier wishes to replace the defective/damaged items at their ex-Work factory, then PHPA-I shall be liable for transportation cost only up to Liaison Office, PHPA-I, Phuentsholing, Chukha for the delivered materials to project site. Thereafter, all liabilities shall be borne by the Supplier till delivery of the same to the above designated place after successful completion of the replacement works.

- 6.9 The payment shall be regulated as under:
- a) 20% of the Contract Price excluding supervision charges shall be made on submission of Performa invoice and an irrevocable Bank Guarantee for an equal amount valid until completion of delivery of items/materials (**FOR, Liaison Office, PHPA-I, Phuentsholing, Chukha**), which shall be suitably extended, if required. The BG must be accompanied by a formal letter from the issuing bank in regard to having issued the said BG. The BG shall be released after the release of payment mentioned at 6.9 b) below.
  - b) 70% of the Contract price excluding supervision charges shall be released after 30 days upon delivery of items/materials (**FOR, Liaison Office, PHPA-I, Phuentsholing, Chukha**) and on submission of invoices, documents etc., acceptable to the PHPA-I. The Supplier's request for payment shall be made to PHPA-I in writing, accompanied by invoices describing, as appropriate, the items/materials delivered along with requisite documents. In case of incomplete/ non-compliant invoices and documents, PHPA-I shall ask the Supplier to re-submit the invoices and documents with full compliance.
  - c) Balance payment & supervision charges shall be paid within 30 days after successful completion of supervision works by OEM/Supplier during installation & commissioning of equipment by PHPA-I.
- 6.10 For Bhutanese & Indian bidder, a contractor tax of 2% & 3% respectively shall be deducted from the bill.
- 6.11 The Royal Government of Bhutan shall exempt taxes, levies/duties for plant, construction materials & equipment, machineries and services imported for direct use in the construction of the Project. Any procurement made under tax exemption basis shall be liable for tax payment as per the Tax Act of the Kingdom of Bhutan if disposed off in Bhutan.
- 6.12 With effect from 1st July 2017, all exports (including ones to Bhutan) are '**zero rated items**' under the Goods & Services Tax (GST) regime in the Govt. of India. Therefore, no reimbursement or costs on account of any tax implications will be admissible. However, in the situation, if the categorization is changed for exports from 'zero rated' to any other slab, the same will be applicable.
- 6.13 If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof.



Force Majeure means any circumstances beyond the control of the parties i.e. the Purchaser & the supplier including but not limited to acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemic/pandemic, earthquake affecting supplier's work, except where solely restricted to employees of the supplier or his sub-vendor and freight embargoes.

Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform his obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure events.

The supplier shall not be liable for forfeiture of its Performance Security, liquidated damages or termination, if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- 6.14 Any dispute, unless settled amicably, shall be settled in accordance with the Alternative Dispute Resolution Act of Bhutan, 2013.
- 6.15 A copy of these terms & conditions duly signed by the bidder(s) shall be essentially submitted along with the bid as a token of acceptance of these terms and conditions.



Superintending Engineer (C&P)





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**SECTION III**  
**GENERAL TECHNICAL SPECIFICATIONS**

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## GENERAL TECHNICAL SPECIFICATIONS FOR PUMPS, MOTOR, CONTROL PANEL AND CABLE

### 1) Technical Specifications for pumps

- A.** The Submersible pump system shall be capable of pumping silt water/muddy water at a capacity of 1000 lpm and a head of 13 meters suitable for connection with 100 mm G.I delivery pipe as per project requirements.
- i. Motor rating: 20HP
  - ii. Phase: 3 Phase
  - iii. Voltage: 415 V +- 10%
  - iv. Maximum ambient temperature: 40 Degree Celsius
  - v. Degree of Protection: IP 68
  - vi. Motor Insulation Class: Class F
  - vii. Impeller material: Stainless Steel or better
  - viii. Delivery casing material: Cast Steel
  - ix. Pump shaft material: SS AISI 410
- B.** The submersible pump system shall be capable of pumping silt water/muddy water at a capacity of 1166 lpm and a head of 9 meters suitable for connection with 100 mm G.I delivery pipe as per project requirements.
- i. Motor rating: 20HP
  - ii. Phase: 3 Phase
  - iii. Voltage: 415 V +- 10%
  - iv. Maximum ambient temperature: 40 Degree Celsius
  - v. Degree of Protection: IP 68
  - vi. Motor Insulation Class: Class F
  - vii. Impeller material: Stainless Steel or better
  - viii. Delivery casing material: Cast Steel
  - ix. Pump shaft material: SS AISI 410
- C.** The centrifugal pump system shall be capable of pumping silt water/muddy water at a capacity of 3700 lpm and a head of 13 meters confirming IS Code 8418:1999 suitable for connection with 315mm H.D.P.E (12.5 PN) for incoming & delivery pipe as per project requirements.
- i. Motor rating: 50HP Phase: 3 Phase
  - i. Voltage: 415 V +- 10%
  - ii. Maximum ambient temperature: 40 Degree Celsius
  - iii. Degree of Protection: IP 68
  - iv. Motor Insulation Class: Class F
  - v. Impeller material: Stainless Steel or better
  - vi. Delivery casing material: Cast Steel
  - vii. Pump shaft material: SS AISI 410



- D. The installation, testing, and commissioning of the pump system shall be done by PHPA-I under supervision of OEM/supplier/Bidder.
- E. The pump system shall be equipped with an automatic level control system to maintain a consistent water level during dewatering operations.
- F. The Bidder shall provide a list of mandatory spares and optional spares along-with the cost.
- G. Motor Control Centre:** Local control panel for the submersible pump, suitable for controlling, monitoring and automatic operation of the pump through water level sensor. The control panel along with star delta starter, electrical components and other associated accessories should be designed to meet the specifications of the pump and should include the necessary protection viz. overload protection, Single phasing, Reverse phasing, Dry Run and Phase Failure etc for pump including motor. The control panel should be supplied with the necessary cabling and conduit for connecting to the pump. The item should also include the supply of the control panel and its associated accessories. The installation, testing, and commissioning of the control panel will be carried out by PHPA-I.
- H. The equipment's shall preferably be of following make (s). Equipment of any other make having equivalent or better quality shall be specifically brought out in the deviations statement of the bid and shall be subject to acceptances of the purchaser.

S.No.	Description	Make (s)
1	Pump	Mody Pumps, Kirloskar Pumps, Lubi, KSB, Sovereign Pump, Crompton Greaves, GE
2	Electric Motor	Crompton Greaves, Seimens, ABB, Alstom, Bharat Bijlee, Kirloskar
3	Star Delta	L&T, Siemens, ABB, Schneider

All materials used shall be of good quality and shall comply with relevant standards and regulations. The contractor shall provide a warranty for the pump system for a minimum period of 12 months, covering all parts and labor, with exceptions for normal wear and tear.

#### I. Standards

The submersible pump motorset shall comply with the following industry-recognized standards:

- i. Pump Standards:
  - a. IS 8472: Specification for Submersible Pumpsets (Part 1 to Part 4)
  - b. IS 9079: Centrifugal Pumpsets - Code of Practice
- ii. Motor Standards:



- a. IS 325: Specification for Three-Phase Induction Motors
- b. IS 996: Specification for Rewireable General Purpose Rubber Insulated Electric Cables (rated voltage up to and including 1100 volts)

iii. Submersible Pump Standards:

- a. IS 8034: Specification for Submersible Pumpsets (Part 1 to Part 4)
- b. IS 14220: Electric Motor-Driven Submersible Pumpsets for Agriculture and Rural Sector – Specification

These standards ensure that the submersible pump motorset meets recognized Indian industry guidelines for performance, efficiency, durability, and safety. Compliance with these standards is essential to guarantee reliable operation and longevity of the equipment.

The contractor shall provide supporting documentation and certificates to demonstrate compliance with the relevant standards. This may include test reports, calibration certificates, and manufacturer's declarations. The procuring entity reserves the right to verify compliance through independent testing or inspection, if deemed necessary.

Please note that the specified standards represent a selection of relevant Indian standards and may not cover all aspects of submersible pump motorsets. It is the responsibility of the bidder to ensure compliance with all applicable Indian standards and any additional project-specific requirements.

## 2) Technical specifications for Cables

- a) Type of Cable: 3.5 Core 1.1 kV Grade PVC Insulated and Sheathed Aluminium Conductor Armoured Power Cables
- b) Conductor Material: Aluminium
- c) Insulation Material: PVC (Polyvinyl Chloride)
- d) Core Configuration: 3.5 Cores (3 Power Cores + 1 Neutral Core + 1 Half- sized Earth Core)
- e) Voltage Rating: 1.1 kV (Kilovolts)
- f) Cable Grade: Power Grade
- g) Cable Size: 35 sq. mm
- h) Sheath Material: PVC (Polyvinyl Chloride)
- i) Cable Construction: Multi-core construction with stranded conductors



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**SECTION IV**

**FORMS**

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## Pre-Contract Integrity Pact

Note: This Proforma is included in the Bidding Documents for information of Bidders and shall be signed by the successful Bidder when the work(s) is awarded. Signing authorities will be the head of the client (agency) or the authorized representative of the bidder.

### 1. General:

Whereas the Punatsangchhu-I Hydroelectric Project Authority (PHPA-I) hereinafter referred to as the "Employer" on one part, and .....(Name of bidder or his/her authorized representative, with power of attorney) representing M/s. ...., (Name of firm), hereinafter referred to as the "Bidder" on the other part hereby execute this agreement as follows:

This agreement shall be a part of the standard bidding document, which shall be signed by both parties at the time of purchase of bidding documents and submitted along with the tender document. This IP is applicable only to "large" scale works, goods and services, the threshold of which will be announced by the government from time to time. The signing of the IP shall not apply to framework Contracting such as annual office supplies etc.

### 2. Objectives:

Whereas, the Employer and the Bidder agree to enter into this agreement, hereinafter referred to as IP, to avoid all forms of corruption or deceptive practice by following a system that is fair, transparent and free from any influence/unprejudiced dealings in the Bidding process and Contract Administration, with a view to:

- 2.1 Enabling the Employer to obtain the desired Contract at a reasonable and competitive price in conformity to the defined specifications of the works or goods or services; and
- 2.2 Enabling bidders to abstain from bribing or any corrupt practice in order to secure the Contract by providing assurance to them that their competitors will also refrain from bribing and other corrupt practices.

### 3. Scope:

The validity of this IP shall cover the bidding process and Contract Administration period.

### 4. Commitments of the Employer:

The Employer Commits itself to the following:-

- 4.1 The Employer hereby undertakes that no officials of the Employer, connected directly or indirectly with the Contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organization or third party related to the Contract in exchange for an advantage in the bidding process and Contract Administration.



- 4.2 The Employer further confirms that its officials shall not favor any prospective bidder in any form that could afford an undue advantage to that particular bidder in the bidding process and Contract Administration and will treat all Bidders alike.
- 4.3 Officials of the Employer, who may have observed or noticed or have reasonable suspicion shall report to the head of the employing agency or an appropriate government office any violation or attempted violation of clauses 4.1 and 4.2.
- 4.4 The Following report on violation of clauses 4.1 and 4.2 by the official(s), through any source, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the Employer and such a person shall be debarred from further dealings related to the bidding process and Contract Administration.

## 5. Commitments of Bidders

The Bidder commits himself/herself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of the bidding process and Contract administration in order to secure the Contract or in furtherance to secure it and in particular commits himself/herself to the followings:-

- 5.1 The Bidder shall not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantages, commission, fees, brokerage or inducement to any official of the Employer, connected directly or indirectly with the bidding process and Contract Administration, or to any person, organization or third party related to the Contract in exchange for any advantage in the bidding process and Contract Administration.
- 5.2 The Bidder shall not collude with other parties interested in the Contract to manipulate in whatsoever form or manner, the bidding process, and Contract Administration.
- 5.3 If the bidder(s) have observed or noticed or have reasonable suspicion that the provisions of the IP have been violated by the procuring agency or other bidders, the bidder shall report such violations to the head of the procuring agency.

## 6. Sanctions for Violation:

The breach of any of the aforesaid provisions shall result in administrative charges or penal actions as per the relevant rules and laws.

- 6.1 The breach of the IP or commission of any offense (forgery, providing false information, misrepresentation, providing false/fake documents, bid rigging, bid steering, or coercion) by the Bidder, or anyone employed by him, or acting on his/her behalf (whether with or without the knowledge of the Bidder), shall be dealt with as per the terms and conditions of the Contract and other provisions of the relevant laws, including De-barment Rules.
- 6.2 The breach of the IP or commission of any offense by the officials of the procuring agency shall be dealt with as per the rules and laws of the land in vogue.



**7. Monitoring and Administration:**

- 7.1 The respective procuring agency shall be responsible for the administration and monitoring of the IP as per the relevant laws.
- 7.2 The bidder shall have the right to appeal as per the arbitration mechanism contained in the relevant rules.

We, hereby declare that we have read and understood the clauses of this agreement and shall abide by it.

The parties hereby sign this Integrity Pact at (place) \_\_\_\_\_ on (date) \_\_\_\_\_

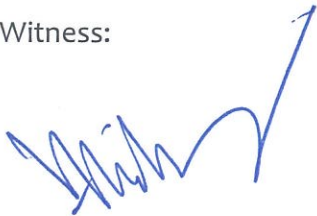
**EMPLOYER**



A green Bhutanese postage stamp is placed over the signature. The stamp features the national emblem of Bhutan at the top, a central circular design, and the word 'BHUTAN' at the bottom. The denomination '10' is visible in the bottom right corner of the stamp.

**BIDDER**

Witness:



A handwritten signature in blue ink, likely belonging to a witness for the Employer.

Witness:



A horizontal line provided for the signature of the Bidder's witness.



**Proforma for Bank Guarantee for Performance Security**

To  
The Punatsangchhu-I Hydroelectric Project Authority,

\_\_\_\_\_  
\_\_\_\_\_

(Address of PHPA-I)

WHEREAS (Name and Address of Contractor) \_\_\_\_\_ (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute (Name of Contract and Brief Description of Works) \_\_\_\_\_ (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Nu. \_\_\_\_\_ (Amount of Guarantee in words to be inserted by the Guarantor), representing the percentage of the Contract Price, specified in the Contract, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Nu. \_\_\_\_\_ (Amount of Guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

**This guarantee shall be valid 30 days beyond the warranty period specified in the contract.**

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank

Address

Date



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**SECTION V**

**BILL OF QUANTITIES**

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**Bill of Quantities (BoQ)**

Supply (FOR, Liaison Office, PHPA-I, Phuntsholing, Chukha) of Pumps with Local Control Pannel equipped with Motor Starters and Cables for Dewatering System in Powerhouse Complex, and Subsequent Handling, Transportation to Site, Erection, Testing & Commissioning by PHPA-I in close supervision by the OEM/Supplier

Sl #	Description	Unit	Qty.	Rate (Nu./Rs.)		Amount (Nu./Rs.)
				In Fig.	In Words	
1	<b>Providing and supplying of Pumps</b>					
1.1	Submersible Pump No. 2 (located at Drainage Gallery) : 20 HP, flow rate 1000 lpm, head 13 meters suitable for connection with 100 mm G.I delivery pipe as per Technical Specifications					
	Motor rating: 20HP (15kW) Phase: 3 Phase Voltage: 415 V +- 10% Maximum ambient temperature: 40 Degree Celsius Degree of Protection: IP 68 Motor Insulation Class: Class F Impeller material: Stainless Steel or better Delivery casing material: Cast Steel Pump shaft material: SS AISI 410	No.	1.00			



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1.2	<p>Centrifugal Pump No. 3 (located at MIV Floor) : 50 HP, flow rate 3700 lpm, head 13 meters confirming to IS Code 8418: 1999 suitable for connection with 315mm HDPE (12.5 PN) for incoming &amp; delivery pipes as per Technical Specifications</p> <p>Motor rating: 50HP (37kW) Phase: 3 Phase Voltage: 415 V +- 10% Maximum ambient temperature: 40 Degree Celsius Degree of Protection: IP 68 Motor Insulation Class: Class F Impeller material: Stainless Steel or better Delivery casing material: Cast Steel Pump shaft material: SS AISI 410</p>	No.	1.00		
1.3	<p>Submersible Pump No. 6 (located at TRT Outfall Pondage): 20 HP, flow rate 1166 lpm, Head 9 metres suitable for connection with 100 mm G.I delivery pipe as per Technical Specifications</p> <p>Motor rating: 20HP (15kW) Phase: 3 Phase Voltage: 415 V +- 10% Maximum ambient temperature: 40 Degree Celsius Degree of Protection: IP 68 Motor Insulation Class: Class F Impeller material: Stainless Steel or better Delivery casing material: Cast Steel Pump shaft material: SS AISI 410</p>	No.	1.00		



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2	<b>Providing and supplying of Mandatory Spares</b>							
2.1	<b>For 2 Nos. submersible pumps ( for Pump 2 &amp; 6)</b>							
a	Impellers of M.O.C: High Chrome	No.	2.00					
b	Mechanical seals	No.	2.00					
c	Strainers	No.	2.00					
2.2	<b>For 1 No. Centrifugal pump (for Pump 3)</b>							
a	Impellers of M.O.C: High Chrome	No.	1.00					
b	Mechanical seals	No.	1.00					
c	Strainers	No.	1.00					
3	<b>Providing and supplying of Cables</b>							
3.1	3-5 Core 1.1 kV grade PVC insulated and sheathed Aluminium conductor armoured power cables (3-5 C x 35 sq.mm) for pumps and control panels							
3.1.1	For Submersible Pump No. 2 (Located at Drainage Gallery)	m	450.00					
3.1.2	For Centrifugal Pump No. 3 (located at MIV Floor)	m	80.00					
3.1.3	For Submersible Pump No. 6 (Located at TRT Outfall Pondage)	m	100.00					
4	<b>Providing and supplying of Local control Station/Panel for Pump Operation</b>							
4.1	Local Control Panel for Submersible Pump No. 2 (with Star Delta) as per Technical Specifications	No.	1.00					
4.2	Local Control Panel for Centrifugal Pump No. 3 (with Star Delta) as per Technical Specifications	No.	1.00					
4.3	Control Panel for Submersible Pump No. 6 as per Technical Specifications	No.	1.00					



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5	<b>Supervision Charges</b>						
5.1	Supervision Charges including boarding and lodging for approximately 5 working days. The supervisor will oversee the installation and commissioning of the submersible dewatering, ensuring that it is installed and operated according to manufacturer specifications and industry best practices. The supervisor will also provide guidance and support to the installation team, as needed, to ensure that the project is completed successfully. The boarding and lodging expenses for the supervisor will be borne by the contractor and should be included in this item.	Days	5.00				
6	<b>Total Amount (1-5)</b>						
7	<b>Rebate, if any</b>						
	<b>Final Total Amount (6-7)</b>						



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