

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



BIDDING DOCUMENT

FOR

**CONSTRUCTION OF CRATE WALL NEAR DAM SUBSTATION AND
REPAIR/MAINTENANCE OF STORM WATER DRAINS IN PHPA-I COLONY AT
BJIMTHANGKHA**

(NIT No. PHPA-I/SE(C&P)/146-07/2025)

October 2025



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

Notice Inviting Tender (NIT No: PHPA-I/SE(C&P)/146-07/2025)

Punatsangchhu-I Hydroelectric Project Authority (PHPA-I), Bjimthangkha, Wangdue, is pleased to invite sealed item rate bids from prospective Bhutanese Bidders for the work **“Construction of crate wall near dam substation and repair/maintenance of storm water drains in PHPA-I colony at Bjimthangkha”** fulfilling the following eligibility criteria:

1. Have a valid trade license/CDB/BCTA certificate as Small Class (W3) category.
2. Have the latest income tax/corporate tax clearance certificates. If such a clearance certificate is not being issued by the concerned authority, an authenticated photocopy of the latest income tax return shall be submitted by the Bidders.

The prospective bidders may download the Bidding Document from the PHPA-I website: www.phpa1.gov.bt from **23/10/2025 to 13/11/2025**. PHPA-I reserves the right to accept or reject any or all bids at any stage of the process or any part thereof at any time without assigning any reason thereof. Any corrigendum/addendum/errata in respect of this tender shall be made available only at the above-mentioned website.

For any queries, the Bidders may contact this office at 02-471575 during office hours or via email: secontracts@phpa1.gov.bt

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**Superintending Engineer
Contracts & Procurement**



PUNATSANGCHHU-I HYDROELECTRIC PROJECT AUTHORITY (PHPA-I)

ABRIDGED NIT

Sealed item rate Bids are hereby invited for and on behalf of PHPA-I from experienced and financially sound Bhutanese bidders for the work ***“construction of crate wall near dam substation and repair/maintenance of storm water drains in PHPA-I colony at Bjimthangkha”***.

Detailed NIT & Bidding Document can be downloaded from the PHPA-I website www.phpa1.gov.bt w.e.f. **23/10/2025 to 13/11/2025**.

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Superintending Engineer (C&P)



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TERMS AND CONDITIONS OF THE CONTRACT

1 SCOPE OF WORK

The scope of work shall be as specified in the General Technical Specification.

2 ELIGIBLE CRITERIA

- 2.1 The participating bidders shall be reputed, experienced, and financially sound Bhutanese bidders fulfilling the following:
 - 2.1.1 Have a valid trade license / CDB/BCTA as *Small Class (W3)*.
 - 2.1.2 Have the latest income tax/corporate tax clearance certificates. If such a clearance certificate is not being issued by the concerned authority, an authenticated photocopy of the latest income tax return shall be submitted by the Bidders.

3 DOCUMENT COMPRISING THE BID

- 3.1 The Bid shall include the following documents:
 - 3.1.1 Bid Security
 - 3.1.2 Valid Trade License/CDB/BCTA Registration Certificate
 - 3.1.3 Latest tax clearance Certificate
 - 3.1.4 Duly filled Bill of Quantities, and
 - 3.1.5 Complete Bidding Document, duly signed by the bidder as its acceptance.

4 BID SECURITY (EMD)

- 4.1 Bidder shall furnish Bid Security of **Nu. 57,000.00**, valid for 30 days beyond the validity of bid. ***The Bid not accompanied by a valid EMD shall be rejected as non-responsive.***
- 4.2 Bid Security shall be in any form: a Demand Draft, cash warrant, or irrevocable Bank Guarantee issued by Banks or Financial Institutions in Bhutan, drawn in favour of Punatsangchhu-I Hydroelectric Project Authority payable at Bank of Bhutan, Wangdue. The Proforma for the bank guarantee shall be in the Proforma for bid security (**Form 2**) of the bidding document.
- 4.3 Bid Security is liable to be forfeited if the bidder withdraws or amends within the period of bid validity or the successful bidder fails to sign the Contract Agreement.
- 4.4 The Bid Security of the successful bidder shall be returned after receipt of the Performance Security and signing of the Contract Agreement.
- 4.5 Bid Security of unsuccessful bidders shall be returned within 30 days of the signing of the contract with the successful bidder.



5 BID VALIDITY

A bid shall remain valid for **90 days** from the date of its opening.

6 SITE VISIT

The bidders are advised to visit the site and its surroundings and obtain all information that may be necessary for preparing a bid. The cost of visiting the site shall be at the bidder's own expense.

7 LANGUAGE OF BID

The bid and all correspondence related to this tender shall be in English.

8 PREPARATION OF BIDDING DOCUMENT

- 8.1 In the event of the space in 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 be fully signed by the bidders. Reference to the additional pages must be made in the Bidding Document.
- 8.2 Bids shall be typed or written in indelible ink and signed by a person duly authorized to sign on behalf of the Bidder. Proof of authorization shall be furnished in the form of a written Power of Attorney, which shall accompany the bid, if the Bid is signed by person other than Proprietor.
- 8.3 Alternate bids shall not be considered by the PHPA-I.
- 8.4 Bidders shall quote rates for all items in the Bill of Quantities (BoQ), which shall be inclusive of all taxes, duties, and any other costs involved. The rates shall remain firm and shall not be subjected to any adjustment during the performance of the contract.
- 8.5 Bids shall contain no alterations or additions, except those to comply with instructions issued by PHPA-I, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid. ***If not, the bid shall be liable for rejection.***

9 CLARIFICATION OF BIDDING DOCUMENT

- 9.1 The Bidders requiring any clarifications of the Bidding Document may notify PHPA-I via **Email: secontracts@phpa1.gov.bt**, not later than 10 days prior to the date of bid submission.
- 9.2 If required, PHPA-I will issue a clarification in writing not later than 5 days prior to the deadline for submission of the Bid. All such clarification shall form part of the Bidding Document and shall accompany the Bidder's Bid. Written copies of PHPA-I's response (including a description of the enquiry but without identifying its source) shall be uploaded on PHPA-I's website (**www.phpa1.gov.bt**).



- 9.3 Any corrigendum/addendum/errata shall be made available only at the above-mentioned website.

10 SUBMISSION AND OPENING OF BIDS

- 10.1 Bid shall be submitted in two (2) separate sealed envelopes, and shall be put together in a larger outer envelope bearing the address, identification of the Notice Inviting Tender No. and the Date of bids opening.

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Contracts & Procurement Circle
PHPA-I, Bjimthangkha***

- 10.2 The two inner envelopes shall be detailed as under:

10.2.1 First sealed envelope shall be superscripted as **“Envelope-I – Bid Security”**

10.2.2 The second sealed envelope shall be superscripted as **“Envelope-II – Techno commercial & Price Bid”** and shall contain the following:

- a. Bidding document signed on all pages
- b. Copy of a valid CDB/Trade certificate
- c. Latest Tax clearance certificate
- d. BoQ dully filled & signed

- 10.3 All envelopes 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 the bid.
- 10.4 Bid shall be submitted to the **Office of Superintending Engineer (Contracts & Procurement), PHPA-I, Bjimthangkha** on or before **1300 hours of 13 /11/2025**.
- 10.5 Any Bids received by the PHPA-I after the specified date and time shall be declared late, rejected, and returned unopened to the Bidder.
- 10.6 Each Bidder shall submit only one bid.
- 10.7 Bids submitted vide e-mail/fax/conditional offers or by electronic means are NOT acceptable and shall be rejected.
- 10.8 Bidders may attend the Bid Opening in person or may authorize a representative to attend on their behalf at the date and time specified in the Bidding Document. All Bidders or their authorized representatives present at the Bid Opening shall be required to sign an attendance register as evidence of their presence.

11 OPENING, EVALUATION, AND COMPARISON OF THE BIDS

- 11.1 The Bid shall be opened on **13/11/2025 at 1430 Hours** in the presence of Bidder/Bidders' authorized representatives who wish to attend. Unauthorized representatives shall not be allowed to be present during Bid Opening.



- 11.2 If the specified Bid Opening Date falls on public holiday (s), the bids shall be opened at the same time and same place as specified in the Bidding Documents on the next working day in the presence of the authorized representatives who wish to be present.
- 11.3 The bids will be evaluated & compared by the PHPA-I from the technical & financial points of view so as to make a selection for the complete Work covered under the bidding documents.
- 11.4 The bids of only techno-commercially responsive bidders will be evaluated and compared by the PHPA-I.

12 CORRECTION OF ERRORS

- 12.1 Any arithmetic errors in Price Bids shall be corrected by the PHPA-I as follows:
 - 12.1.1 Where there is a discrepancy between the rate in the figure and in words, the rate in words will govern; and
 - 12.1.2 Where there is a discrepancy between the unit rate and the total amount derived from multiplying the unit rate and the quantity, the unit rate as quoted will govern, and the total amount shall be corrected.
 - 12.1.3 If the bidder does not accept the corrected amount of the bid, his bid will be rejected, and the bid security will be forfeited.

13 RIGHT OF ACCEPTANCE

- 13.1 PHPA-I is not bound to accept the lowest bid and reserves the right to accept or reject any or all bids without assigning any reason thereof.
- 13.2 If PHPA-I decides to accept the abnormally low (20% below the estimate) bids after considering the detailed analysis, PHPA-I, as appropriate, may ask the successful bidder to deposit the differential amount between the departmental estimate and quoted amount in the form of a cash warrant/demand draft/irrevocable Bank Guarantee valid till issuance of the completion certificate.

14 AWARD OF CONTRACT

PHPA-I will issue a Letter of Award (LoA) to the successful bidder before the expiration of the Bid validity.

15 PERFORMANCE SECURITY

- 15.1 Within 15 days of issuance of the Letter of Award by PHPA-I, the successful bidder shall furnish Performance Security in the form of an irrevocable Bank Guarantee on the Proforma provided by PHPA-I (**Form-3**) for an amount equivalent to **10%** of the Contract Price.



- 15.2 The Performance Security shall be valid up to 30 days from the date of issue of the Completion Certificate.

16 SIGNING OF CONTRACT AGREEMENT

Within 15 days of issuance of the Letter of Award and after submission of Performance Security, on a date and time mutually agreed upon, the successful bidder or his authorized representative shall sign the Contract with PHPA-I.

17 COMMENCEMENT OF WORK

The work shall commence within 30 days from the date of issue of the Letter of Award.

18 TIME FOR COMPLETION

The works shall be completed in all respects within **6 months** or such extended time as may be allowed under clause 19. The period of completion shall be reckoned from the 30th day of issue of the Letter of Award.

19 EXTENSION OF TIME FOR COMPLETION

Should the amount of extra or additional work of any kind may or any cause of delay referred to in these conditions, or other special circumstances of any kind whatsoever which may occur, other than through the default of the Contractor, be such as fairly to entitle the Contractor to an extension of time for the completion of Work, the Engineer-in-Charge shall determine the period from the ***Hindrance Register to be maintained by the Contractor of such extension*** and shall notify the Contractor accordingly.

20 FORCE MAJEURE

- 20.1 "Force Majeure" means any circumstances beyond the control of the parties, i.e., the PHPA-I & the contractor including but not limited to acts of PHPA-I in its sovereign capacity, wars or revolution, pandemic or epidemic, fire, floods, earthquake affecting the contractor's work, except where solely restricted to employees of the contractor or his sub-contractor and fright embargoes.
- 20.2 If a Force Majeure situation arises, the Contractor shall promptly notify PHPA-I in writing of such condition and the cause thereof. Unless otherwise directed by the PHPA-I in writing, the Contractor 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 event.



21 LIQUIDATED DAMAGES FOR DELAY

If the Contractor fails to complete the Work within the time prescribed by Clause 18, the Liquidated Damages at the rate of **0.1%** per day shall be imposed, subject to a maximum of **10%** of the Final Executed Amount.

22 MEASUREMENT

All measurements shall be taken jointly by the Engineer-in-Charge and the Contractor from time to time during the progress of the work, and such measurements shall be signed by the parties as a token of acceptance.

23 CERTIFICATES AND PAYMENT

23.1 Interim Payment Certificate

- 23.1.1 The contractor shall submit an application for interim payment, in duplicate, to the Engineer-In-Charge. Engineer-in-Charge shall, within 30 days, verify the application for pass and payment.
- 23.1.2 No interim Payment certificate shall be issued for a sum less than **3 %** of the Contract Price.
- 23.1.3 It may be noted that all the interim payments shall be treated as provisional payments.

23.2 Mobilization advance

- 23.2.1 An advance to the extent of **10% of the Contract Price**, if required by the contractor, will be granted for the mobilization of labour, stores, and workshops, including camps, labour sheds, and construction plants.
- 23.2.2 The advance will be disbursed on the production of the irrevocable Bank Guarantee from any Financial Institution of Bhutan on the Proforma (**Form-4**) of the bidding document for an amount equivalent to the required advance, and the BG shall be valid till the advance is fully recovered.
- 23.2.3 The advance shall be free of interest
- 23.2.4 The advance is recoverable, and the deduction of the advance shall be made on a prorate percentage basis from the interim payment certified by the Engineer-in-Charge.
- 23.2.5 The entire amount of the advance paid to the Contractor shall be fully deducted by the time the total of all payments to the Contractor has reached **80%** of the contract price.

23.3 Final certificate

- 23.3.1 Since all the interim payment certificates are issued provisionally, EIC may, by any interim payment certificate, make any corrections or modifications in any previous certificate (other than one purporting to be the final payment certificate) which shall have been issued by him and shall have the power to modify or withhold any interim certificate if the works or any part thereof are not being carried out to his satisfaction.



- 23.3.2 On receipt of the final bill, the EIC shall promptly prepare and issue to the contractor a final payment certificate certifying any further money due to the contractor in respect of the contract. Payment to the contractor of the amount due under the final payment certificate shall be made by PHPA-I within 60 days of such certificate being issued. In the event of non-payment within the said period, no interest shall accrue to the contractor.

24 RETENTION MONEY

- 24.1 The Employer shall retain ~~10~~10% from each payment due to the Contractor until completion of defect liability periods and issuance of the maintenance certificate.
- 24.2 The retention money shall be released to the Contractor within 28 days from the date of issue of the Maintenance Certificate.

25 VARIATIONS

- 25.1 The Engineer-in-Charge shall make any variation in the form, quality, or quantity of the Works or any part thereof or substitution for original specifications, design, drawings, and instructions that may, in his opinion be necessary and for that purpose, or if for any other reason it shall, in his opinion be appropriate, he shall have the power to order the Contractor to do and the Contractor shall do any or all of the following:
- 25.1.1 increase or decrease the quantity of any work included in the Contract;
 - 25.1.2 omit or substitute any such work;
 - 25.1.3 change the character or quality or kind of any such work;
 - 25.1.4 change the levels, lines, positions, and dimensions of any part of the work;
 - 25.1.5 execute, additional work of any kind necessary for the completion of the works, and
 - 25.1.6 change any specified sequence or timing of construction of any part of the work.
- 25.2 No such variations shall in any way vitiate or invalidate the Contract, but the effect if any, of all such variations, shall be valued in accordance with Clause-26 hereof.
- 25.3 Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of Contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor. Any altered, additional, and substituted work which the Contractor may be directed to do in the manner above specified as part of the Works, shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main Works.

26 DETERMINATION OF PRICE VARIATION

- 26.1 Upon certified completion of the whole Works, if a reduction or increase in the total value of the work is found to be within 20% of the initial Contract price, then there shall be no



change in the Contract rates for individual items of work specified in the bill of quantities irrespective of the quantum of variation in individual items.

- 26.2 However, if a reduction or increase is found to be more than 20% of the initial Contract price, the increase in payment for minus variation or decrease in payment for plus variation shall be specified based on slabs of variation in the Contract value as specified below:

Variation in Value of Works	Increase in Payment for minus variation	Decrease in Payment for plus variation
Up to 20%	Nil	Nil
Above 20% and up to 35 %	6.00%	3.00%
Above 35% and up to 60%	8.00%	4.00%
Above 60 % and up to 100%	10.00%	5.00%
Above 100%	NA	5.00%

- 26.3 While working out the value of Works for the purpose of variation, the extra items for which new rates have been paid and payment towards price adjustment; and the adjustment towards statutory variations shall not be considered.

26.4 Illustration

- 26.4.1 In case of variation in the value of Works by (plus) + 60 percent, the payment for (60-20) percent i.e., 40 percent of the Contract value of Works shall be decreased by 4 % (four percent.). The reduction in Contract rates shall commence as soon as the value of the Works executed reaches 120% of the Contract Price.
- 26.4.2 In case of variation in the value of Works by (minus) – 55 percent, the payment for (55-20) percent, i.e., 35 percent of the Contract value of Works, shall be increased by 8% (eight percent).
- 26.5 No variation limit for any individual BOQ item has been specified except for the payment due to the Contractor as detailed above. No claim for revision of rate(s) for any individual BOQ item shall be admissible, irrespective of the extent to which the ordered quantity may get revised (+) or (-) during the actual execution of the Works.
- 26.6 Within 14 days of the date of instruction for executing varied Works and before the commencement of such Works, notice shall be given either (a) by the Contractor to the Employer of his intention to claim extra payment or a varied rate or price, or (b) by the Engineer-in-Charge to the Contractor of the intention to vary a rate or price.
- 26.7 The Contractor, within 14 days from the receipt of an order to execute any extra item, shall submit a rate analysis to the Engineer-in-Charge supported by documentary evidence of basic rates adopted therein, having regard to the cost of materials, actual wages of labor, and other operational costs. The analysis so provided by the Contractor shall form the basis for the determination of rates for such extra items. Extra items of work/supply which are not provided in the Bill of Quantities shall be paid on the basis of the Bhutan Schedule of Rates (BSR) after adjusting such rates for the place of Works and cost index prevailing at the time of the award. If rates for such extra items are not available in BSR, the rates for such items shall be determined based on the actual expenditure relating to that item,



including the cost of materials, fabrication/machinery handling, and erection at the Site, plus twenty percent (20%) towards overheads, including profits. The price of varied items determined by the Engineer-in-Charge shall be final and binding on the Contractor. No payment shall be made for the items of work ordered to be omitted.

- 26.8 If there is a delay in the agreement between the Employer and the Contractor on the rate of varied Works, provisional rates @ 75% of the rates as determined by the Engineer-in-Charge shall be payable as a provisional payment till such time as the rates are finalized.
- 26.9 Under no circumstances, the Contractor shall at any stage suspend work on account of non-settlement of rates of such item(s).

27 CERTIFICATION OF COMPLETION OF WORK

When the whole of the Work has been completed, the Contractor may give a notice to the Engineer-in-Charge. The Engineer-in-Charge shall, within 21 days from the date of delivery of such notice, issue a Certificate of Completion stating the date on which the Work is completed in accordance with the contract.

28 DEFECTS LIABILITY/MAINTENANCE PERIOD

- 28.1 The Defects Liability/Maintenance Period shall be **6 months** from the date of issue of the Completion certificate.
- 28.2 All repair works shall be carried out by the Contractor at his own expense if the necessity shall be due to the use of materials or workmanship not in accordance with the contract or due to negligence or failure on the part of the Contractor to comply with any obligation, expressed or implied.
- 28.3 If the Contractor fails to do any such work aforesaid, PHPA-I shall arrange to carry out the same, and payment shall be recovered from the Contractor's due money.

29 MAINTENANCE CERTIFICATE

- 29.1 The Contract shall not be considered complete until a Maintenance Certificate shall have been issued by the EIC stating that the works have been completed and maintained to his satisfaction
- 29.2 The Maintenance Certificate shall be issued by the EIC within **28 days** after the expiry of the period of maintenance.

30 TERMINATION OF THE CONTRACT

- 30.1 The Contract can be terminated at any time by either party by serving **14 days** prior notice in writing if the other party causes any fundamental breach of the contract.
- 30.2 Notwithstanding the above, PHPA-I may terminate the contract for convenience.



31 PAYMENT AFTER TERMINATION

- 31.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the EIC shall issue a certificate for the value of the work done and materials ordered, less advance payments received up to the date of the issue of the Certificate, and **20%** less the percentage to apply to the value of work not completed. If the total amount due to the PHPA-I exceeds any payment due to the Contractor, the difference shall be a debt payable by the Contractor to PHPA-I.
- 31.2 If the Contract is terminated for PHPA-I's convenience or because of the fundamental breach of Contract by the PHPA-I, the EIC shall issue a certificate for the value of work done, materials ordered, the reasonable cost of removing the equipment, repatriation of the Contractors personal employed solely on this work, and the contractor's cost of protecting and securing the work, and less advance payments received up to the date of the certificate.

32 COMPLIANCE WITH TAX LAWS

- 32.1 Any Contractor, or sub-contractor recruited in connection with the Work will be liable for tax in Bhutan as per the Income Tax Act of the Kingdom of Bhutan, 2001. Further, such a recruiting agency shall be responsible for deducting and remitting Tax Deducted at Source (TDS) as per the provisions of the said Income Tax Act.
- 32.2 Contractor Tax of 2% shall be deducted from every bill of the Contractor.

33 CONTRACTOR'S RISKS

From the Start Date until the end of the Defects Liability Period, the risks of personal injury, death, and loss of or property damage (including, without limitation, the Work, Materials, and Equipment) are the liabilities of the Contractor.

34 LABOUR LAWS

The Contractor shall comply with all relevant labour laws/Acts of Bhutan applicable to the Contractor's Personnel, including Laws relating to their employment (including wages and working hours), health, safety, and welfare.

35 PRE-CONTRACT INTEGRITY PACT

As per the norms of the Anti-Corruption Commission, the Constitutional body of the Royal Government of Bhutan, the Contractor shall have to sign a Pre-Contract Integrity Pact enclosed as **Form-5**.

36 ENGINEER-IN-CHARGE

The Executive Engineer (CIMD) shall be the Engineer-in-Charge of this Work.



37 ARBITRATION

Any dispute, unless settled amicably, shall be settled in accordance with the Alternative Dispute Resolution Act of Bhutan 2013 and ADR rules and regulations of Bhutan 2019.

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GENERAL TECHNICAL SPECIFICATIONS

1. GENERAL

The General Technical Specifications (hereinafter called **GTS**) shall give general information about execution of various items of works under the Contract and cover the specified stipulations for measurements and payment therefor included in the Bill of Quantities.

These specifications shall be the part of the requirements for various items of works, which shall be executed according to the stipulations of the Contract. Hence, the instructions given herein form an integral part of and are applicable to the bidding documents issued for the works. Addenda to these specifications may be issued, as required during bidding and construction phases.

These specifications shall be read in conjunction with Bill of Quantities (BoQ), and the Conditions of Contract. While quoting the price, the Contractor shall comply with all provisions contained within the bidding documents with an objective to complete each items of work without any addition of cost thereof. In case Specifications, BoQ and Condition of Contract do not corroborate each other for completion of any particular item of work, the same as well as the assumptions made in quoting of price for such item(s) of Works shall be brought out clearly in the bid.

It is the intent of these specifications to establish acceptable standards of quality as specified in the technical specifications. Minor deviations in details due to manufacture's standard for brought out items will be considered for acceptance provided that, in the opinion of the Engineer-in-Charge, the proposed substitutions are equal in quality to those specified.

The Contractor shall be required to be use locally manufactured Bhutan Standard Bureau (BSB) certified Domestic construction materials especially Reinforcement & Steel Section and Electrical items, etc. in the Buildings and road construction works. The material shall conform to latest BSB standards or in the absence of these standards to the equivalent IS Codes. These materials must be cost effective as compared to the imported materials of certified quality standards.

All works shall comply with the specification and quality requirements defined in the ***Specifications for Building and Road works (SBRW-2025)***, Royal Govt. of Bhutan, Ministry of Infrastructure and Transport, Department of Infrastructure Development, Thimphu, Bhutan.

2. SCOPE OF WORK

The scope of work shall be **Execution of M.S Gate to the residence of Management for C-3 (B) type quarter in PHPA-I at Bjimthangkha, R&M of Road towards Main Office Complex, Construction of Crate Wall near Dam Substation, and repair & maintenance of Storm**



water Drains in PHPA-I Colony at Bjimthangkha, which shall include, but not limited to the following:

- Earth work, Crate Wall, form work, PCC, RCC Steel reinforcement, fabricated and welded sections, finishing with plastering and painting, with all fittings and fixtures, and other miscellaneous works to fulfill functional requirements but not limited to the major items of works, as per drawings, specifications, Bill of Quantities and /or as directed by the Engineer-in-Charge within the stipulated time period.

3. SCOPE OF WORK FACILITIES

The scope of working facilities under this clause to design, provide, erect, operate and maintain all the working facilities as would be necessary for execution of the Works within the specified time schedule, but not necessarily limited to the following:

- i. Camp and Facilities
- ii. Plant and Equipment
- iii. Electric Power Supply System
- iv. Water Supply System
- v. Sewage & Waste Water and Garbage Disposal System

Working Facilities shall be subject to the Engineer-in-Charge's approval. The Contractor shall comply with all applicable laws, regulations, and ordinances relating to the construction and operation of the working facilities in Bhutan.

4. SUBMISSIONS

- 4.1. At least 15 days prior to commencing the work, the Contractor shall submit to the Engineer-in-Charge for approval the drawings of layout and details of Working Facilities.
- 4.2. Should the Engineer-in-Charge determine that the details of working facilities furnished do not meet all requirements, the deficiencies shall be made good by the Contractor before commencement of the work. Any cost incurred therefor or replacement shall be borne by the Contractor.



5. CAMP AND FACILITIES

The Camp and Facilities shall include, but are not limited to:

- a. Accommodation for Staff and Workmen
- b. Miscellaneous Working Facilities like:
- c. Stores, Warehouses and sheds for the Contractor

Office for the Contractor shall be of sufficient size and fully furnished and equipped. All working facilities shall be equipped with proper light arrangement, water supply, telephone, sewage and waste water disposal system. Contractor shall make his own arrangement for all working facilities.

The Contractor shall acquaint himself with all applicable laws and regulations as applicable in Bhutan for handling and use of explosives. All such laws, regulations and rules etc., as are amended from time to time shall be binding on the Contractor.

6. PLANT AND EQUIPMENT

6.1. General

The Contractor shall provide all construction plants and equipment necessary for the efficient execution of the work described in the Specifications and details supplied by the Contractor in the construction plant and equipment schedule. The Contractor shall also deploy additional equipment, if needed, at his own cost for the timely completion of the Works.

The capacity and number of equipment shall conform to the specific minimum requirements for the works and the climatic conditions prevailing at the site. The Contractor shall maintain all his equipment, tools and plants with sufficient spare parts, special tools for repair work and complete standby units of vital parts to guarantee a continuous operation without untimely delays. The Contractor shall remain fully responsible for any delays due to disregard of said necessity.

6.2. Transportation and Storage Facilities for Cement

Transportation of cement shall be accomplished in adequately weather-tight trucks or other means which will protect the cement completely from exposure to moisture. Storage of cement at the Site shall be done in weather-tight and properly ventilated structures with adequate provisions for the prevention of absorption of moisture.



7. ELECTRIC POWER SUPPLY SYSTEM

The power supply to the construction sites, camps and the entire project area shall be designed for continuous operation, 24 hours a day, with sufficient capacity to satisfy peak and emergency demands.

8. WATER SUPPLY SYSTEM

The Contractor shall be fully responsible for the arrangement of necessary facilities for water supply. The Contractor shall design, construct, equip, operate and maintain two separate water installations at the Site necessary for the adequate supply of:

8.1. Raw water:

For general construction use, treated to the extent necessary to meet specified requirements (e.g. for concrete),

8.2. Potable water:

For supply to all camps, site office and plants requiring high quality water meeting relevant requirements for drinking water.

9. SEWAGE, WASTE WATER AND GARBAGE DISPOSAL SYSTEM

- 9.1. The Contractor shall construct, equip, operate and maintain all the installation necessary to properly collect, treat and dispose of sewage from the camp office and other construction facilities. The Contractor shall not, under any circumstances, discharge sewage or contaminated water into natural streams or any open areas. Treatment and disposal of sewage shall be performed in accordance with the current related standards and laws in force in Bhutan and always subject to the Engineer-in-Charge's approval. The drainage systems shall be designed taking into account the rainfall /snowfall rate in the area and the disposal of rainwater/snow shall be accomplished in such a way that no erosion problems are caused which may alter the stability of the soil.
- 9.2. The Contractor shall provide necessary arrangements for the disposal of waste and garbage. The areas surrounding camps, offices, job facilities and the work sites shall be kept clean at all times. No waste shall be dumped in areas other than those approved by the Engineer-in-Charge for waste disposal. No waste of any kind shall be deposited in any watercourses. The Contractor shall observe the norms prescribed



by the Government of Bhutan for keeping all areas clean.

10. TESTING AND QUALITY CONTROL

The Contractor shall collect the samples as specified or as directed by the Engineer-in-Charge, carry out the relevant test as approved by the Engineer-in-Charge, and submit the test reports to the Engineer-in-Charge in time. All tests will be made according to the approved standards.

11. MEDICAL CARE FACILITIES

In the event of illness of an epidemic nature breaking out, the Contractor shall carry out and comply with all orders, arrangements or regulations, which may be issued by the Government or local authorities. Basic Medical facilities are available at Wangdue. The Contractor shall provide and maintain one first aid facilities at the work site.

12. ENVIRONMENTAL OBLIGATIONS

The Contractor shall, during the whole period of the Works comply fully with all applicable laws and regulations relating to environmental protection, mitigating measures for reducing environmental impacts and remedial works on completion of the Works. This obligation shall extend to the construction sites themselves, all the Contractor's site installations, and all quarries, borrow areas and tips.

13. FINAL CLEAN-UP

Upon the Completion of Works, or when any plant has completed its functions, the Contractor shall dismantle and demobilize all temporary facilities and remove all refuse, debris, objectionable material, and fill, grade and dress all excavated areas in a clean and proper condition acceptable to the Engineer-in-Charge. All such areas, as far as possible, shall conform to the natural appearance of the landscape.

14. MEASUREMENT AND PAYMENT

No separate payment for establishing the working facilities shall be made. Cost of all such working facilities shall be included in the unit price of works. No separate payment shall be



made for complying with any environmental obligations required by applicable laws and regulations, and all such costs incurred by the Contractor to this end shall be considered as being included in the Contractor's Unit Prices.



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Form 1: Proforma for Agreement

[Note; This Proforma is included in the Bidding Documents only for the information of Bidders. Only the successful Bidder shall, in due course, be required to fill this Proforma].

THIS AGREEMENT MADE the _____ day of _____ BETWEEN Punatsangchhu-I Hydroelectric Project Authority (PHPA-I) _____ of (Mailing address of PHPA-I) _____ (hereinafter called "the PHPA-I") of the one part and (Name of Contractor) _____ of (Mailing address of Contractor) _____ (hereinafter called "the Contractor") of the other part.

WHEREAS the PHPA-I is desirous that " _____ " (herein after referred to as "the Work") should be executed by the Contractor AND WHEREAS by a Letter of Award No. _____ dated _____ the PHPA-I has accepted a Bid by the Contractor for the execution and completion of such Works AND WHEREAS the Contractor has agreed to undertake such work and furnish a performance security/bond.

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz;
 - 2.1 The Agreement
 - 2.2 The Letter of Award
 - 2.3 Corrigendum/Amendments if any
 - 2.4 Documents furnished by bidder
 - 2.5 General Conditions of the Contract
 - 2.6 General Technical Specifications
 - 2.7 Special Conditions to Contract
 - 2.8 Appendix
 - 2.9 Bill of Quantities
 - 2.10 Drawings
 - 2.11 Any other documents as forming part of the Contract



3. The aforesaid documents shall be taken as complementary and mutually explanatory of one another, but in case of ambiguities or discrepancies, shall take precedence in the order set out under para 2 above.
4. In consideration of the payment to be made by the PHPA-I to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the PHPA-I to execute and complete the Works in conformity, in all respects, with the provisions of the Contract.
5. The PHPA-I hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the time and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused their respective common Seals to be hereunto affixed (or have hereunto set their respective hands and Seals) the day and year first above written.

SIGNED, SEALED AND DELIVERED

NAME _____
on behalf of the Contractor

NAME _____
on behalf of the PHPA-I

in the presence of:

in the presence of;

NAME _____
Address _____

NAME _____
Address _____



Form 2: Proforma for Bank Guarantee for Bid Security

To

The Punatsangchhu-I Hydroelectric Project Authority (PHPA-I)

(Address of PHPA-I)

WHEREAS, (Name of Bidder) _____ (hereinafter called "the BIDDER") has submitted his bid dated (_____ for the construction of (Name of Contract) _____ (hereinafter called "the Bid")).

KNOW ALL MEN by these presents that we (Name of Bank) _____ of (Name of Country) _____ having our registered office at _____ (hereinafter called "the Bank") are bound unto the Punatsangchhu-I Hydroelectric Project Authority (PHPA-I) in the sum of _____ for which payment well and truly to be made to the PHPA-I the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____.

THE CONDITIONS of this obligation are;

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Proforma of Bid; or
2. If the Bidder having been notified of the acceptance of his Bid by the PHPA-I during the period of bid validity;
 - 2.1 fails or refuses to execute the Proforma of Agreement in accordance with the Instructions to Bidders, if required; or
 - 2.2 fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders,

We undertake to pay to the PHPA-I up to the above amount upon receipt of its first written demand, provided that in its demand the PHPA-I will note that amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.



This Guarantee will remain in force up to and including the date **120 days** after the closing date for submission of bids as stated in the Invitation to Bid or as extended by you at any time prior to this date, notice of which extension to the Bank being hereby waived, and any demand in respect thereof should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(Signature, Name and Address)



Form 3: 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 is valid until the date of **30 days** after issuing of the Completion Certificate.

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank

Address

Date

Note: The Bidders are not required to fill this Proforma.



Form 4: Proforma for Bank Guarantee for Mobilization Advance

In consideration of the Punatsangchhu-I Hydroelectric Project Authority (PHPA-I) (which expression shall unless repugnant to the subject or context include its administrators, successors and assigns), (hereinafter called the "Principal") having agreed to make advance payment to (Name and full address of the Contractor) _____ (hereinafter called "the Contractor(s)", (which expression shall unless repugnant to the subject or context or meaning thereof include its successors, administrator, executors and permitted assigns), whose bid for (Name of the Contract) _____ has been accepted and to whom the acceptance of the bid has been communicated by a Letter of Award and who is required to execute a formal agreement on conditions of production of a Bank Guarantee for Rs..... (Both in figures and words) _____ we, the _____ Bank (any financial institutions in Bhutan) hereinafter referred to as "the Bank") do hereby undertake promise and guarantee payment to the Principal on demand all the amounts advanced by the Principal to the said Contractor.

1. The Bank further agrees that;
 - 1.1. The Principal shall have the fullest liberty without affecting in any way the liability of the Bank under the Guarantee or Indemnity, from time to time, to vary any of the terms and conditions of the said Contract or to extend time for performance by the said Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of the terms and conditions governing the said Contract or the securities available to the Principal and the Bank shall not be released from its liability under these presents by any exercise by the Principal of the Liberty with reference to the matters aforesaid or by reason of time being given to the said Contractor or any other forbearance, act or omission on the part of the Principal or any indulgence by the Principal to the said Contractor or of any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of a releasing the Bank from its such liability.
 - 1.2. These presents shall be governed by and constructed in accordance with Bhutanese laws.
 - 1.3. The Bank hereby declares that it has the power to issue this Guarantee and the undersigned has full power to do so.
 - 1.4. It shall not be necessary for the Principal to proceed against the Contractor before proceeding against the Bank and the Guarantee herein contained shall



be enforceable against the Bank, notwithstanding any other security which the Principal may have obtained or obtain from the Contractor, shall at the time when proceedings are taken against the Bank hereunder, be outstanding or unrealized.

- 1.5. The Guarantee herein contained shall remain in full force and effect, during the period that would be taken for the performance of the terms and conditions of the said Contract, Letter of Award and the Agreement which is to be executed as aforesaid and that it shall continue to be enforceable until all the dues of the Principal have been duly paid and its claims satisfied and discharged and till the Principal discharges the Guarantee in writing or until _____ whichever is earlier.
2. The Bank lastly undertakes not to revoke this Guarantee until all the dues of the Principal have been duly paid except with the previous consent of the Principal in writing.

Dated the _____ Day of _____ 2021

Here affix the Common Seal of the
Bank for _____ Bank Ltd.

Note: The Bidders are not required to fill this Proforma.



Form 5: Pre-Contract Integrity Pact.

Note: This Proforma is included in the Bidding Documents for information of Bidders and shall be signed by 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 the 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 Following report on violation of clauses 4.1 and 4.2 by 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 advantage, 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 offence (forgery, providing false information, mis-representation, providing false/fake documents, bid rigging, bid steering or coercion) by the Bidder, or any one 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 offence 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 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

BIDDER

Witness:

Witness:

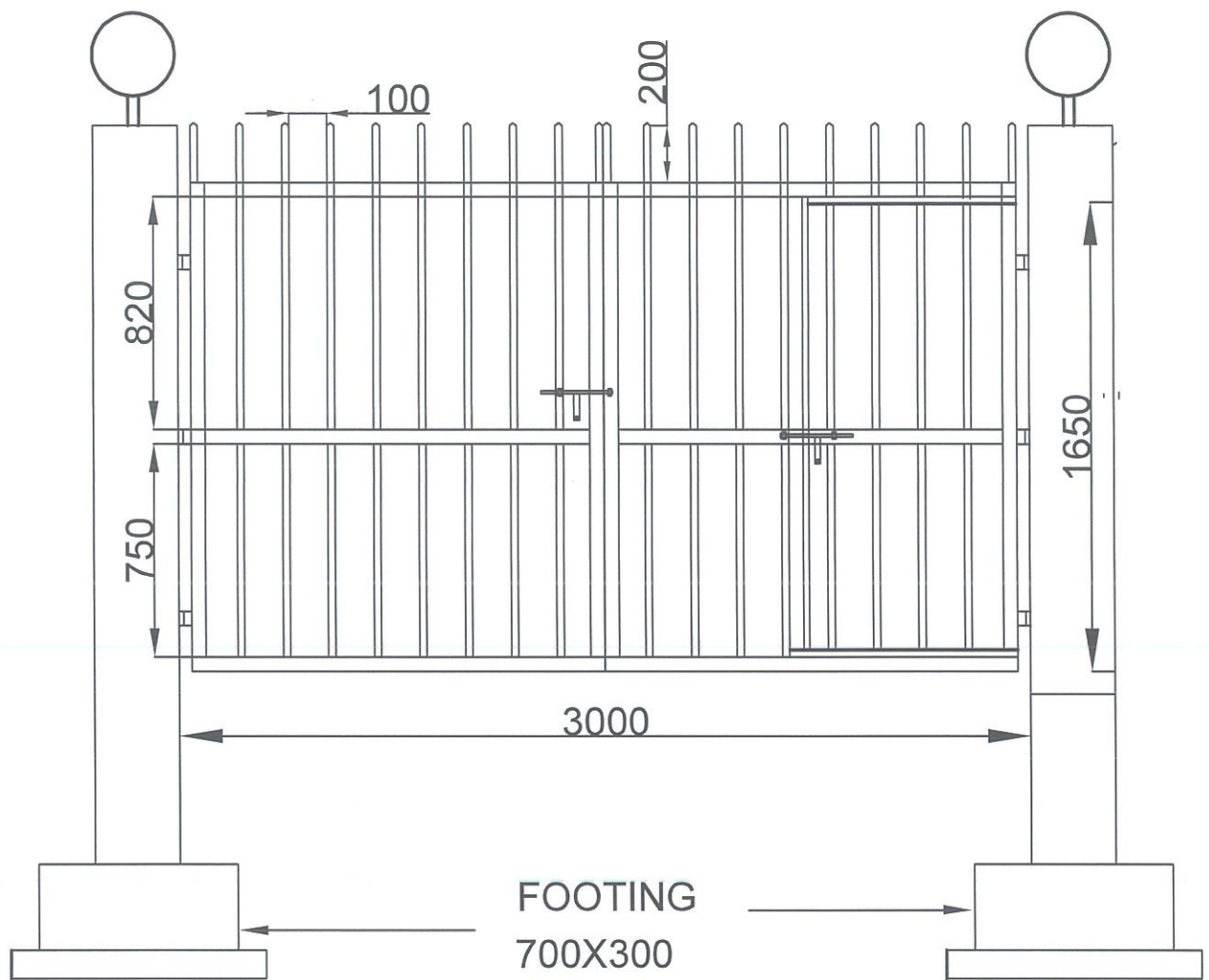


Bill of Quantities (BOQ)

Sl.No	Item	Qty	Unit	Rate (Nu)		Amount (Nu.)
				Figure	Word	
Part.A : R&M drains & Crate Wall						
1	Clearing jungle including uprooting of vegetation & trees of girth < 300mm & disposal within 50m of the site	1883.50	Sqm			
2	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed all types of soil.	405.00	Cum			
3	Demolishing cement concrete 1:3:6 & richer, including disposal of materials within 50m lead	112.00	Cum			
4	Providing & filling hand-packed stone in G.I mesh 4mm (8swg)including supplying and weaving of mesh complete Double-knotted mesh....100mm	204.00	Cum			
5	Providing & fixing centering and shuttering with timber including strutting, propping etc. and removal of formwork Foundation and plinth etc.	199.20	sq.m			
6	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	183.13	Cu.m			
7	Providing & laying 12mm cement plaster. C.M 1:4	1488.00	Sqm			
				Total Part A		
Part.B : R&M of worn-out road towards main office complex						
1	Demolishing cement concrete 1:3:6 & richer, including disposal of materials within 50m lead.	16.88	Cum			
2	Providing & fixing centering and shuttering with timber including strutting, propping etc. and removal of formwork Foundation and plinth etc.	15	sq.m			
3	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal Size)	16.88	Cum			
				Total Part B		
Part.C : Installation of MS Gate at C3(B) Unit 6						
1	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red -In R.S. joists	185.06	Kg			
2	Providing and applying finishing coats Synthetic enamel, for steel & wood work, two coats on new work.	16.8	Sqm			
3	Electrical Items	1	LS			
				Total Part C		

Sl.No	Item	Qty	Unit	Rate (Nu.)		Amount (Nu.)
				Figure	Word	
Part. D:OHS & Living accomadation						
	OHS at construction site: of Occupational Health and Safety measures at construction sites as per the attached requirements list. The standards and specifications for the Insurance, OHS materials and (or) equipment shall be in compliance with the Labour and Employment Act - 2007, Regulation on Occupational Health, Safety and Welfare - 2012, and other relevant national documents. All OHS items will remain as the property of the bidder upon completion of the project.					
1		1	L/S			
	Temporary Living Accommodation: Providing temporary living accommodation which includes bed room, kitchen, and toilet cum bathroom including proper water supply and electricity as per the drawing and temporary living accommodation standards. The accommodation facilities must be dismantled and cleaned upon the completion of project. All reusable materials of the accommodation facilities will remain as the property of the bidder upon completion of the project.					
2		1	L/S			
					Total Part D	
	Total Project Cost Part (A+B+C+D)					
In Words:						





FRONT VIEW OF GATE
(INDICATIVE SKETCH)
NOTE- ALL DIMENSIONS ARE IN MM

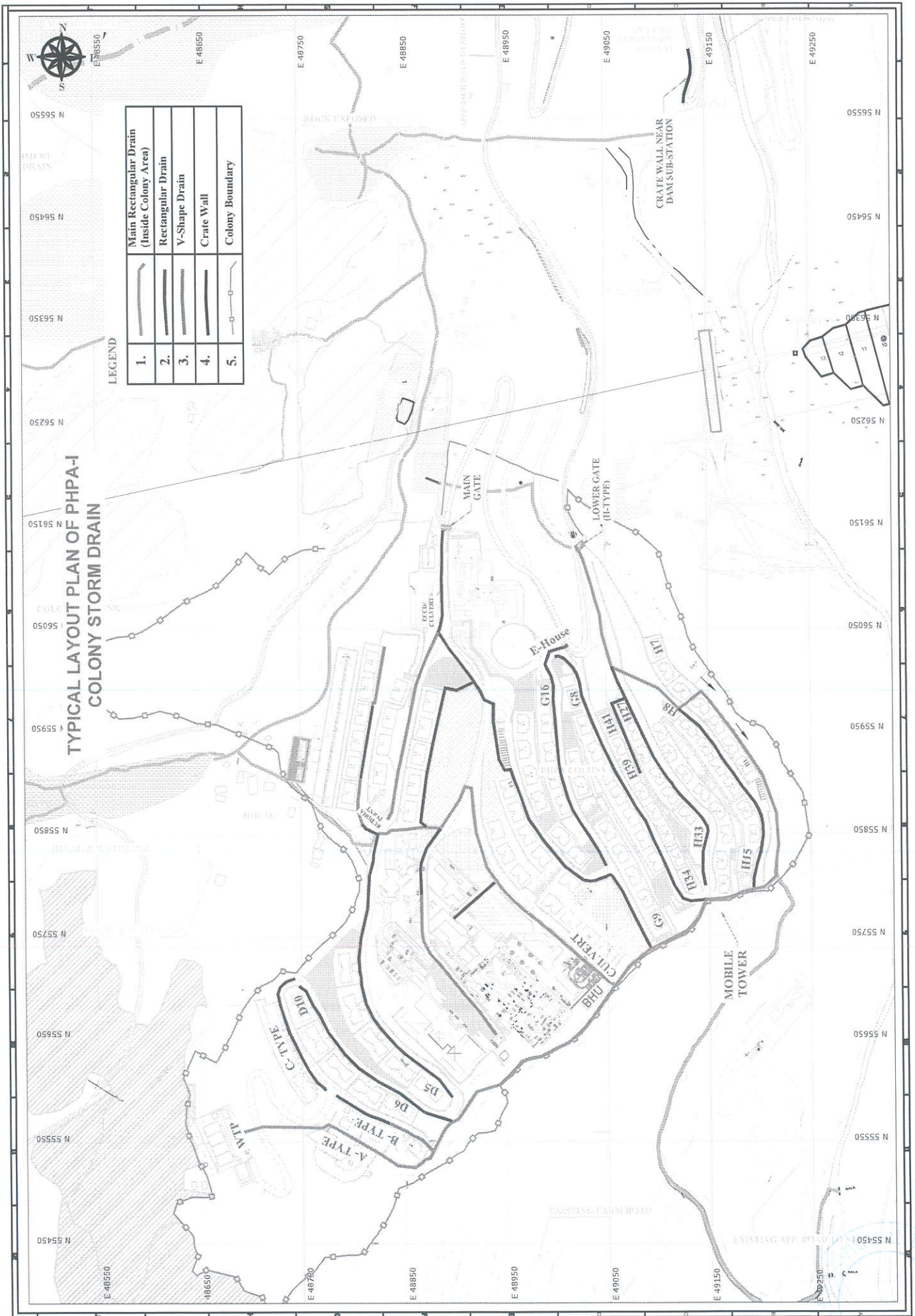


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TYPICAL LAYOUT PLAN OF PHPA-I COLONY STORM DRAIN

LEGEND

1.	Main Rectangular Drain (Inside Colony Area)
2.	Rectangular Drain
3.	V-Shape Drain
4.	Crate Wall
5.	Colony Boundary



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