

THIS E COPY OF BID DOCUMENT IS FOR INFORMATION AND INSPECTION TO THE PROSPECTIVE BIDDERS. BIDDERS MUST PURCHASE BID DOCUMENT FROM ALTERNATIVE ENERGY PROMOTION CENTER (AEPC) AS INDICATED IN THE BID NOTICE FOR BIDDING.

Government of Nepal
Ministry of Energy, Water Resources and Irrigation
ALTERNATIVE ENERGY PROMOTION CENTRE

NEP: South Asia Sub regional Economic Cooperation Power System Expansion Project
(SASEC/ADB)

ADB Project No: 44219, Loan No: 3139 NEP (SF), Grant No: 0398NEP (EF)

Bidding Document
for
Procurement
of

Saniveri Uttarganga Mini Hydro Subproject, 998kW

Putha Uttarganga Rural Municipality,

East Rukum District, Nepal

(Package 1- Generation)

PART I Bidding Procedures

Section 1 - Instructions to Bidders (ITB)

Section 2 - Bid Data Sheet (BDS)

Section 3 - Evaluation and Qualification Criteria (EQC)

Section 4 - Bidding Forms (BDF)

Section 5 - Eligible Countries (ELC)

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Issued on:

Invitation for Bids No.: AEPC/ADB/SASEC/NCB/MHP/08

NCB No: 08

Employer: Alternative Energy Promotion Center (AEPC)

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A. General

1. **Scope of Bid**
 - 1.1 In connection with the Invitation for Bids (IFB) indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of the Works as specified in Section 6 (Employer's Requirements). The name, identification, and number of contracts of this bidding are provided in the BDS.
 - 1.2 Throughout this Bidding Document,
 - (a) the term "in writing" means communicated in written form and delivered against receipt;
 - (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and
 - (c) "day" means calendar day.
2. **Source of Funds**
 - 2.1 The Borrower or Recipient (hereinafter called "Borrower") indicated in the BDS has applied for or received financing (hereinafter called "funds") from the Asian Development Bank (hereinafter called "ADB") toward the cost of the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.
 - 2.2 Payments by ADB will be made only at the request of the Borrower and upon approval by ADB in accordance with the terms and conditions of the Financing Agreement between the Borrower and ADB (hereinafter called "Financing Agreement"), and will be subject in all respects to the terms and conditions of that Financing Agreement. No party other than the Borrower shall derive any rights from the Financing Agreement or have any claim to the funds.
3. **Fraud and Corruption**
 - 3.1 ADB's Anticorruption Policy (1998, as amended to date) requires Borrowers (including beneficiaries of ADB-financed activity), as well as Bidders, Suppliers, and Contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, ADB
 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;

- (v) "abuse" means theft, waste, or improper use of assets related to ADB-related activity, either committed intentionally or through reckless disregard;
 - (vi) "conflict of interest" means any situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations;
 - (vii) "obstructive practice" means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an ADB investigation, or deliberately making false statements to investigators, with the intent to impede an ADB investigation; (b) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to a Bank investigation or from pursuing the investigation; or (c) deliberate acts intended to impede the exercise of ADB's contractual rights of audit or inspection or access to information; and
 - (viii) "integrity violation" is any act, as defined under ADB's Integrity Principles and Guidelines (2015, as amended from time to time), which violates ADB's Anticorruption Policy, including (i) to (vii) above and the following: violations of ADB sanctions, retaliation against whistleblowers or witnesses, and other violations of ADB's Anticorruption Policy, including failure to adhere to the highest ethical standard.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the Contract;
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of ADB financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation;
 - (d) will impose remedial actions on a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines, including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed, -administered, or -supported activities or to benefit from an ADB-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and

¹ Whether as a Contractor, Subcontractor, Consultant, Manufacturer or Supplier, or Service Provider; or in any other capacity (different names are used depending on the particular Bidding Document).

- (e) will have the right to require that a provision be included in bidding documents and in contracts financed by ADB, requiring Bidders, suppliers, and contractors to permit ADB or its representative to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by ADB.
- 3.2 All Bidders, consultants, contractors, suppliers, and other third parties engaged or involved in ADB-related activities have a duty to cooperate fully in any screening or investigation when requested by ADB to do so. Such cooperation includes, but is not limited to, the following:
- (a) being available to be interviewed and replying fully and truthfully to all questions asked;
 - (b) providing ADB with any items requested that are within the party's control including, but not limited to, documents and other physical objects;
 - (c) upon written request by ADB, authorizing other related entities to release directly to ADB such information that is specifically and materially related, directly or indirectly, to the said entities or issues which are the subject of the investigation;
 - (d) cooperating with all reasonable requests to search or physically inspect their person and/or work areas, including files, electronic databases, and personal property used on ADB activities, or that utilizes ADB's Information and Communications Technology (ICT) resources or systems (including mobile phones, personal electronic devices, and electronic storage devices such as external disk drives);
 - (e) cooperating in any testing requested by ADB, including but not limited to, fingerprint identification, handwriting analysis, and physical examination and analysis; and
 - (f) preserving and protecting confidentiality of all information discussed with, and as required by, ADB.
- 3.3 All Bidders, consultants, contractors and suppliers shall ensure that, in its contract with its sub-consultants, Subcontractors and other third parties engaged or involved in ADB-related activities, such sub-consultants, Subcontractors and other third parties similarly undertake the foregoing duty to cooperate fully in any screening or investigation when requested by ADB to do so.
- 3.4 The Employer hereby puts the Bidder on notice that the Bidder or any Joint Venture partner of the Bidder (if any) may not be able to receive any payments under the Contract if the Bidder or any of its Joint Venture partners, as appropriate, is, or is owned (in whole or in part) by a person or entity subject to applicable sanctions.
- 3.5 Furthermore, Bidders shall be aware of the provisions of GCC 28.3 and 73.2 (i).

4. Eligible Bidders

- 4.1 A Bidder may be a natural person, private entity, or government-owned enterprise subject to ITB 4.5 – or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture. In the case of a Joint Venture:
- (a) all partners shall be jointly and severally liable; and
 - (b) the Joint Venture shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the Joint Venture during the bidding process and, in the event the Joint Venture is awarded the Contract, during contract execution.
- 4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section 5 (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed Subcontractors or Suppliers for any part of the Contract including related services.
- 4.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if any of, including but not limited to, the following apply:
- (a) they have controlling shareholders in common; or
 - (b) they receive or have received any direct or indirect subsidy from any of them; or
 - (c) they have the same legal representative for purposes of this bid; or
 - (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to material information about or improperly influence the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
 - (e) a Bidder participates in more than one bid in this bidding process, either individually or as a partner in a Joint Venture, except for alternative offers permitted under ITB 13 of the Bidding Document. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3 (a)-(d) above, this does not limit the participation of a Bidder as a Subcontractor in another Bid or of a firm as a Subcontractor in more than one Bid; or
 - (f) a Bidder, Joint Venture partner, associates, parent company, or any affiliated entity, participated as a Consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
 - (g) a Bidder was affiliated with a firm or entity that has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the contract; or
 - (h) a Bidder would be providing goods, works, or nonconsulting

services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm.

- 4.4 A firm shall not be eligible to participate in any procurement activities under an ADB-financed, -administered, or -supported project while under temporary suspension or debarment by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such debarment was directly imposed by ADB, or enforced by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a temporary suspended or debarred firm will be rejected.
 - 4.5 Government-owned enterprises in the Employer's country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Employer.
 - 4.6 A Bidder shall not be under suspension from Bidding by the Employer as the result of the execution of a Bid-Securing Declaration.
 - 4.7 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.
 - 4.8 Firms shall be excluded if by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country or any payments to persons or entities in that country.
- 5. Eligible Materials, Equipment and Services**
- 5.1 The materials, equipment, and services to be supplied under the Contract shall have their origin in eligible source countries as defined in ITB 4.2 above and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment, and services.
 - 5.2 For purposes of ITB 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced, or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.

B. Contents of Bidding Document

6. **Sections of Bidding Document**
- 6.1 The Bidding Document consists of Parts I, II, and III, which include all the sections indicated below, and should be read in conjunction with any addenda issued in accordance with ITB 8.
- PART I Bidding Procedures**
- Section 1 Instructions to Bidders (ITB)
 - Section 2 Bid Data Sheet (BDS)
 - Section 3 Evaluation and Qualification Criteria (EQC)
 - Section 4 Bidding Forms (BDF)
 - Section 5 Eligible Countries (ELC)
- PART II Requirements**
- Section 6 Employer's Requirements (ERQ)
- PART III Conditions of Contract and Contract Forms**
- Section 7 General Conditions of Contract (GCC)
 - Section 8 Particular Conditions of Contract (PCC)
 - Section 9 Contract Forms (COF)
- 6.2 The IFB issued by the Employer is not part of the Bidding Document.
- 6.3 The Employer is not responsible for the completeness of the Bidding Document and their Addenda, if they were not obtained directly from the source stated by the Employer in the IFB.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.
7. **Clarification of Bidding Document, Site Visit, Pre-Bid Meeting**
- 7.1 A prospective Bidder requiring any clarification on the Bidding Document shall contact the Employer in writing at the Employer's address indicated in the BDS or raise his inquiries during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids, within a period given in the BDS. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 22.2.
- 7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself, on its own risk and responsibility, all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.
- 7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the

Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

- 7.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if provided for in the BDS. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
 - 7.5 The Bidder is requested to submit any questions in writing, to reach the Employer not later than 1 week before the meeting.
 - 7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting.
 - 7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
- 8. Amendment of Bidding Document**
- 8.1 At any time prior to the deadline for submission of Bids, the Employer may amend the Bidding Document by issuing addenda.
 - 8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
 - 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

- 9. Cost of Bidding**
 - 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid**
 - 10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

- 11.1 The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid containing the documents listed in ITB 11.2 and the other the Price Bid containing the documents listed in ITB 11.3, both envelopes enclosed together in an outer single envelope.
- 11.2 The Technical Bid shall comprise the following:
- (a) Letter of Technical Bid;
 - (b) Bid Security or Bid-Securing Declaration, in accordance with ITB 19;
 - (c) alternative Bids, at Bidder's option and if permissible, in accordance with ITB 13;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;
 - (e) documentary evidence in accordance with ITB 17, establishing the Bidder's qualifications to perform the contract;
 - (f) Technical Proposal in accordance with ITB 16;
 - (g) any other document required in the BDS.
- 11.3 The Price Bid shall comprise the following:
- (a) Letter of Price Bid;
 - (b) completed Price Schedules, in accordance with ITB 12 and ITB 14, or as stipulated in the BDS;
 - (c) alternative price Bids, at Bidder's option and if permissible, in accordance with ITB 13;
 - (d) any other document required in the BDS.
- 11.4 In addition to the requirements under ITB 11.2, Bids submitted by a Joint Venture shall include a copy of the Joint Venture Agreement entered into by all partners. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all partners and submitted with the Bid, together with a copy of the proposed agreement.

12. Letters of Bid and Schedules

- 12.1 The Letters of Technical Bid and Price Bid, and the Schedules, and all documents listed under Clause 11, shall be prepared using the relevant forms furnished in Section 4 (Bidding Forms). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested and as required in the BDS.

13. Alternative Bids

- 13.1 Unless otherwise indicated in the BDS, alternative Bids shall not be considered.
- 13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the BDS, as will the method of evaluating different times for completion.
- 13.3 When specified in the BDS pursuant to ITB 13.1, and subject to ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the Bidding Document must first price the Employer's design as described in the Bidding Document and shall further provide

all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.

13.4 When specified in the BDS, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified in the BDS and described in Section 6 (Employer's Requirements). The method for their evaluation will be stipulated in Section 3 (Evaluation and Qualification Criteria).

14. Bid Prices and Discounts

14.1 The prices and discounts quoted by the Bidder in the Letter of Price Bid and in the Schedules shall conform to the requirements specified below.

14.2 The Bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section 4 (Bidding Forms). In case of admeasurement contracts, the Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

14.3 The price to be quoted in the Letter of Price Bid shall be the total price of the Bid, excluding any discounts offered. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the Bid.

14.4 The Bidder shall quote any discounts and the methodology for their application in the Letter of Price Bid, in accordance with ITB 12.1.

14.5 The prices shall be either fixed or adjustable as specified in the BDS.

(a) In the case of Fixed Price, prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as nonresponsive and rejected.

(b) In the case of Adjustable Price, prices quoted by the Bidder shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport, and contractor's equipment in accordance with the provisions of the Conditions of Contract. A Bid submitted with a fixed price will be treated as nonresponsive and be rejected. The Bidder shall furnish the indexes and weightings for the price adjustment formulas in the Tables of Adjustment Data included in Section 4 (Bidding Forms) and the Employer may require the Bidder to justify its proposed indexes and weightings. Any bid that omits indexes and weightings shall be subject to clarification with the Bidder.

14.6 If so indicated in ITB 1.1, bids are being invited for individual contracts or for any combination of contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall

specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 14.4, provided the Bids for all contracts are submitted and opened at the same time.

14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.

15. Currencies of Bid and Payment

15.1 The currency(ies) of the Bid and payment shall be as specified in the BDS.

15.2 Bidders may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the prices shown in the appropriate form(s) of Section 4, in which case a detailed breakdown of the foreign currency requirements shall be provided by Bidders.

16. Documents Comprising the Technical Proposal

16.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule, and any other information as stipulated in Section 4 (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.

17. Documents Establishing the Qualifications of the Bidder

17.1 To establish its qualifications to perform the Contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section 4 (Bidding Forms).

17.2 Domestic Bidders, individually or in Joint Ventures, applying for eligibility for domestic preference shall supply all information required to satisfy the criteria for eligibility in accordance with ITB 35.

18. Period of Validity of Bids

18.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Employer. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.

18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with ITB 19, it shall also be extended 28 days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its Bid.

19. Bid Security/Bid-Securing Declaration

19.1 Unless otherwise specified in the BDS, the Bidder shall furnish as part of its Bid, in original form, either a Bid-Securing Declaration or a bid security as specified in the BDS. In the case of a bid security, the amount and currency shall be as specified in the BDS.

- 19.2 If a Bid-Securing Declaration is required pursuant to ITB 19.1, it shall use the form included in Section 4 (Bidding Forms). The Employer will declare a Bidder ineligible to be awarded a Contract for a specified period of time, as indicated in the BDS, if the Bid-Securing Declaration is executed.
- 19.3 If a bid security is specified pursuant to ITB 19.1, the bid security shall be, at the Bidder's option, in any of the following forms:
- (a) an unconditional bank guarantee,
 - (b) an irrevocable letter of credit,
 - (c) a cashier's or certified check, or
 - (d) SWIFT message in the form of MT760.
- all from a reputable bank from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section 4 (Bidding Forms) or another form acceptable to the Employer. The form must include the complete name of the Bidder. The bid security shall be valid for 28 days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2.
- 19.4 Unless otherwise specified in the BDS, any Bid not accompanied by a substantially compliant bid security or Bid-Securing Declaration, if one is required in accordance with ITB 19.1, shall be rejected by the Employer as nonresponsive.
- 19.5 If a bid security is specified pursuant to ITB 19.1, the bid security of unsuccessful Bidders shall be returned promptly upon the successful Bidder's furnishing of the performance security pursuant to ITB 45.
- 19.6 If a bid security is specified pursuant to ITB 19.1, the bid security of the successful Bidder shall be returned promptly once the successful Bidder has signed the Contract and furnished the required performance security.
- 19.7 The bid security may be forfeited or the Bid-Securing Declaration executed, if
- (a) notwithstanding ITB 24.3, a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid, except as provided in ITB 18.2; or
 - (b) the successful Bidder fails to
 - (i) sign the Contract in accordance with ITB 44;
 - (ii) furnish a performance security in accordance with ITB 45;
 - (iii) accept arithmetical corrections in accordance with ITB 34; or
 - (iv) furnish a domestic preference security, if applicable, in accordance with ITB 45.
- 19.8 If the bid security is required as per ITB 19.1, the bid security of a Joint Venture shall be in the name of the Joint Venture that submits the Bid.

If the Joint Venture has not been legally constituted at the time of bidding, the bid security shall be in the name of any or all of the Joint Venture partners. If the Bid-Securing Declaration is required as per ITB 19.1, the Bid-Securing Declaration of a Joint Venture shall be in the name of the Joint Venture that submits the Bid. If the Joint Venture has not been legally constituted at the time of bidding, the Bid-Securing Declaration shall be in the names of all future partners as named in the letter of intent mentioned in ITB 4.1.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare one original set of the Technical Bid and one original of the Price Bid comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL - TECHNICAL BID" and "ORIGINAL - PRICE BID." Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE." In addition, the Bidder shall submit copies of the Bid in the number specified in the BDS, and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. If a Bidder submits a deficient authorization, the Bid shall not be rejected in the first instance. The Employer shall request the Bidder to submit an acceptable authorization within the number of days as specified in the BDS. Failure to provide an acceptable authorization within the period stated in the Employer's request shall cause the rejection of the Bid. If either the Letter of Technical Bid or Letter of Price Bid or the Bid-Securing Declaration (if applicable) is not signed, the Bid shall be rejected.
- 20.3 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

21. Sealing and Marking of Bids

- 21.1 Bidders may always submit their Bids by mail or by hand. When so specified in the BDS, Bidders shall have the option of submitting their Bids electronically. Procedures for submission, sealing, and marking are as follows:
- (a) Bidders submitting Bids by mail or by hand shall enclose the original of the Technical Bid, the original of the Price Bid, and each copy of the Technical Bid and each copy of the Price Bid, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL - TECHNICAL BID," "ORIGINAL - PRICE BID," and "COPY NO... - TECHNICAL BID," and "COPY NO.... - PRICE BID." These envelopes, the first containing the originals and the others containing copies, shall then be enclosed in one single envelope per set. If permitted in accordance with ITB 13, alternative Bids shall be similarly sealed, marked and included in the sets. The rest of the procedure shall be in accordance with

ITB 21.2 and ITB 21.3.

- (b) Bidders submitting Bids electronically shall follow the electronic bid submission procedures specified in the BDS.

21.2 The inner and outer envelopes shall

- (a) bear the name and address of the Bidder;
- (b) be addressed to the Employer as provided in BDS 22.1; and
- (c) bear the specific identification of this bidding process indicated in the BDS 1.1.

21.3 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bid, in accordance with ITB 25.1.

21.4 The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the Employer in accordance with ITB 25.7.

21.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

22. Deadline for Submission of Bids

22.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the BDS.

22.2 The Employer may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The Employer shall not consider any Bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any Bid received by the Employer after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1 A Bidder may withdraw, substitute, or modify its Bid – Technical or Price – after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.2 (except for withdrawal notices, which do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be

- (a) prepared and submitted in accordance with ITB 20 and ITB 21 (except for withdrawal notices, which do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
- (b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.

24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall be

returned unopened to the Bidders.

- 24.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid or any extension thereof.

25. Bid Opening

- 25.1 The Employer shall open the Technical Bids in public at the address, on the date, and time specified in the BDS in the presence of Bidders' designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 21.1, shall be as specified in the BDS. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening. If the Technical Bid and Price Bid are submitted together in one envelope, the Employer may reject the entire Bid. Alternatively, the Price Bid may be immediately resealed for later evaluation.

- 25.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening.

- 25.3 Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Price Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened, read out, and recorded. Substitution Price Bid will remain unopened in accordance with ITB 25.1. No envelope shall be substituted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.

- 25.4 Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Bid and/or Price Bid shall be modified unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original and Modification, will remain unopened in accordance with ITB 25.1.

- 25.5 All other envelopes holding the Technical Bids shall be opened one at a time, and the following read out and recorded:

- (a) the name of the Bidder;
- (b) whether there is a modification or substitution;
- (c) the presence of a bid security or a Bid-Securing Declaration, if required; and
- (d) any other details as the Employer may consider appropriate.

Only Technical Bids and alternative Technical Bids read out and recorded at bid opening shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Letter of Technical Bid are

to be initialed by at least three representatives of the Employer attending the bid opening. No Bid shall be rejected at the opening of Technical Bids except for late bids, in accordance with ITB 23.1.

- 25.6 The Employer shall prepare a record of the opening of Technical Bids that shall include, as a minimum, the name of the Bidder and whether there is a withdrawal, substitution, or modification; alternative proposals; and the presence or absence of a bid security or a Bid-Securing Declaration, if one was required. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders who submitted Bids on time, and posted online when electronic bidding is permitted.
- 25.7 At the end of the evaluation of the Technical Bids, the Employer will invite bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. Bidders shall be given reasonable notice for the opening of Price Bids.
- 25.8 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially nonresponsive to the requirements of the Bidding Document and return their Price Bids unopened.
- 25.9 The Employer shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders' representatives who choose to attend at the address, on the date, and time specified by the Employer. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.
- 25.10 All envelopes containing Price Bids shall be opened one at a time and the following read out and recorded:
- (a) the name of the Bidder;
 - (b) whether there is a modification or substitution;
 - (c) the Bid Prices, including any discounts and alternative offers; and
 - (d) any other details as the Employer may consider appropriate.
- Only Price Bids, discounts, and alternative offers read out and recorded during the opening of Price Bids shall be considered for evaluation. Unless otherwise specified in the BDS, all pages of the Letter of Price Bid and Schedules are to be initialed by at least three representatives of the Employer attending the bid opening. No Bid shall be rejected at the opening of Price Bids.
- 25.11 The Employer shall prepare a record of the opening of Price Bids that shall include, as a minimum, the name of the Bidder, the Bid Price (per lot if applicable), any discounts, and alternative offers. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the

record shall be distributed to all Bidders who submitted Bids on time, and posted online when electronic bidding is permitted.

E. Evaluation and Comparison of Bids

- 26. Confidentiality**
- 26.1 Information relating to the examination, evaluation, comparison, and postqualification of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until on the publication of Contract award.
- 26.2 Any attempt by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it may do so in writing.
- 27. Clarification of Bids**
- 27.1 To assist in the examination, evaluation, and comparison of the Technical and Price Bids, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change in the substance of the Technical Bid or prices in the Price Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Price Bids, in accordance with ITB 33.
- 27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.
- 28. Deviations, Reservations, and Omissions**
- 28.1 During the evaluation of bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.
- 29. Examination of Technical Bids**
- 29.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.2 have been provided, and to determine the completeness of each document submitted.
- 29.2 The Employer shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer shall be rejected.
- (a) Letter of Technical Bid;
 - (b) written confirmation of authorization to commit the Bidder;

- (c) Bid Security or Bid-Securing Declaration, if applicable; and
- (d) Technical Proposal in accordance with ITB 16.

30. Responsiveness of Technical Bid

- 30.1 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.
- 30.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,
- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Document, the Employer's rights or the Bidder's obligations under the proposed Contract; or
 - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.
- 30.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 16, Technical Proposal, in particular, to confirm that all requirements of Section 6 (Employer's Requirements) have been met without any material deviation, reservation, or omission.
- 30.4 If a Bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

31. Nonmaterial Nonconformities

- 31.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid that do not constitute a material deviation, reservation, or omission.
- 31.2 Provided that a Technical Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 31.3 Provided that a Technical Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the method indicated in Section 3 (Evaluation and Qualification Criteria).

32. Qualification of the Bidder

- 32.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meet the qualifying criteria specified in Section 3 (Evaluation and Qualification Criteria).

32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17.1. Unless permitted in the BDS, the determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, Subcontractors, or any other firm(s) different from the Bidder.

32.3 An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. The Employer reserves the right to reject the bid of any bidder found to be in circumstances described in GCC 73.2(c). A negative determination shall result into the disqualification of the Bid, in which event the Employer shall return the unopened Price Bid to the Bidder.

33. Subcontractors

33.1 Unless otherwise stated in the BDS, the Employer does not intend for the contractor to execute any specific elements of the Works through nominated subcontractors.

33.2 If Subcontractors are proposed for any of the key activities listed in Section 3 (Evaluation and Qualification) Criteria 2.4.2, they shall be considered as "Specialist Subcontractors" and shall meet qualification requirements for the relevant key activities.

34. Correction of Arithmetical Errors

34.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:

- (a) Only for admeasurement contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected.
- (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
- (c) If there is a discrepancy between the bid price in the Summary of Bill of Quantities and the bid amount in item (c) of the Letter of Price Bid, the bid price in the Summary of Bill of Quantities will prevail and the bid amount in item (c) of the Letter of Price Bid will be corrected.
- (d) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a), (b) and (c) above.

34.2 If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its Bid shall be disqualified and its bid security may be forfeited or its Bid-Securing Declaration executed.

35. Conversion to Single Currency

35.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted into a single currency as specified in the BDS.

- 36. Domestic Preference**
- 36.1 Unless otherwise specified in the BDS, domestic preference shall not apply.
- 37. Evaluation and Comparison of Price Bids**
- 37.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.
- 37.2 To evaluate the Price Bid, the Employer shall consider the following:
- (a) the bid price, excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities for admeasurement contracts, or Schedule of Prices for lump sum contracts, but including Daywork items, where priced competitively;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITB 34.1;
 - (c) price adjustment due to discounts offered in accordance with ITB 14.4;
 - (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 35;
 - (e) adjustment for nonmaterial nonconformities in accordance with ITB 31.3;
 - (f) assessment whether the bid is abnormally low in accordance with ITB 38; and
 - (g) application of all the evaluation factors indicated in Section 3 (Evaluation and Qualification Criteria).
- 37.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
- 37.4 If this Bidding Document allows Bidders to quote separate prices for different contracts, and to award multiple contracts to a single Bidder, the methodology to determine the lowest evaluated price of the contract combinations, including any discounts offered in the Letter of Price Bid, is specified in Section 3 (Evaluation and Qualification Criteria).
- 37.5 The Employer shall compare all substantially responsive Bids to determine the lowest evaluated Bid, in accordance with ITB 37.2.
- 38. Abnormally Low Bids**
- 38.1 An abnormally low bid is one where the bid price, in combination with other elements of the bid, appears to be so low that it raises concerns as to the capability of the Bidder to perform the contract for the offered bid price.
- 38.2 When the offered bid price appears to be abnormally low, the Employer shall undertake a three-step review process as follows:
- (a) identify abnormally low costs and unit rates by comparing them with the engineer's estimates, other substantially responsive bids, or recently awarded similar contracts;

- (b) clarify and analyze the bidder's resource inputs and pricing, including overheads, contingencies and profit margins; and
- (c) decide whether to accept or reject the bid.

38.3 With regard to ITB 38.2 (b) above, the Employer will seek a written explanation from the bidder of the reasons for the offered bid price, including a detailed analysis of costs and unit prices, by reference to the scope, proposed methodology, schedule, and allocation of risks and responsibilities. This may also include information regarding the economy of the manufacturing process; the services to be provided, or the construction method to be used; the technical solutions to be adopted; and any exceptionally favorable conditions available to the bidder for the works, equipment or services proposed.

38.4 After examining the explanation given and the detailed the price analyses presented by the bidder, the Employer may:

- (a) accept the bid, if the evidence provided satisfactorily accounts for the low bid price and costs, in which case the bid is not considered abnormally low;
- (b) accept the bid, but require that the amount of the performance security be increased at the expense of the bidder to a level sufficient to protect the Employer against financial loss. The amount of the performance security shall generally be not more than 20% of the contract price; or
- (c) reject the bid if the evidence provided does not satisfactorily account for the low bid price, and make a similar determination for the next ranked bid, if required.

39. Unbalanced or Front-Loaded Bids

39.1 If the Bid, which results in the lowest evaluated Bid Price, is seriously unbalanced or front-loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed, as well as the pricing and sources of materials, equipment and labor.

39.2 After the evaluation of the information and detailed price analyses presented by the Bidder, the Employer may as appropriate:

- (a) accept the Bid; or
- (b) accept the Bid, but require that the total amount of the Performance Security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract subject to ITB 45.2; or
- (c) reject the Bid and make a similar determination for the next ranked bid.

40. Employer's Right to Accept Any Bid, and to Reject Any or All Bids

40.1 The Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

- 41. Notice of Intention for Award of Contract** 41.1 If Standstill provisions apply as specified in the BDS, the standstill period shall be defined in the BDS to specify the duration subsequent to notification of intention for award of contract (before making the actual contract award) within which any unsuccessful bidder can challenge the proposed award.

F. Award of Contract

- 42. Award Criteria** 42.1 The Employer shall award the Contract to the Bidder whose offer has been determined in line with ITB 35 to ITB 37 above to be the lowest evaluated Bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 43. Notification of Award** 43.1 Prior to the expiration of the period of bid validity and upon expiry of the standstill period specified in ITB 40.1, or upon satisfactory resolution of a complaint filed within standstill period, if applicable, the Employer shall transmit the Notification of Award using the form included in Section 9 (Contract Forms) to the successful Bidder, in writing, that its Bid has been accepted. At the same time, the Employer shall also notify all other Bidders of the results of the bidding.
- 43.2 Unless standstill period applies, upon notification of award, unsuccessful Bidders may request in writing to the Employer for a debriefing seeking explanations on the grounds on which their Bids were not selected. The Employer shall promptly respond in writing and/or in a debriefing meeting to any unsuccessful Bidder who, after publication of contract award, requests a debriefing.
- 43.3 Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 43.4 Within 2 weeks of the award of contract or expiry of the standstill period, where such period applies, or, if a complaint has been filed within the standstill period, upon receipt of ADB's confirmation of satisfactory resolution of the complaint, the borrower shall publish in an English language newspaper or widely known and freely accessible website the results identifying the bid and lot or package numbers, as applicable and the following information:
- (a) name of each Bidder who submitted a Bid;
 - (b) bid prices as read out at bid opening;
 - (c) name and evaluated prices of each Bid that was evaluated;
 - (d) name of Bidders whose bids were rejected and the reasons for their rejection; and
 - (e) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded.
- 44. Signing of Contract** 44.1 Promptly after notification, the Employer shall send the successful Bidder the Contract Agreement.
- 44.2 Within 28 days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Employer.

45. Performance Security

45.1 Within 28 days of the receipt of notification of award from the Employer, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, subject to ITB 38 and ITB 39, using for that purpose the Performance Security Form included in Section 9 (Contract Forms), or another form acceptable to the Employer. If the institution issuing the performance security is located outside the country of the Employer, it shall have a correspondent financial institution located in the country of the Employer to make it enforceable.

45.2 Failure of the successful Bidder to submit the abovementioned Performance Security or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security or execution of the Bid-Securing Declaration. In that event, the Employer may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily.

45.3 The above provision shall also apply to the furnishing of a domestic preference security, if so required.

46. Bidding-Related Complaints

46.1 The procedures for dealing with Bidding-Related Complaints arising out of this bidding process are specified in the BDS.

Section 2 - Bid Data Sheet

A. General

ITB 1.1	The number of the Invitation for Bids (IFB) is: AEPC/ADB/SASEC/NCB/MHP/08
ITB 1.1	The Employer is: Alternative Energy Promotion Center (AEPC)
ITB 1.1	The name of the bidding process is: Single stage Two Envelope The identification number of the bidding process is: AEPC/ADB/SASEC/NCB/MHP/08 The number and identification of lots comprising this bidding process is: None
ITB 2.1	The Borrower is: Nepal
ITB 2.1	The name of the Project is: SASEC Power System Expansion off-grid Component / Saniveri Uttarganga Mini Hydro Subproject.

B. Contents of Bidding Documents

ITB 7.1	For <u>clarification purposes</u> only, the Employer's address is: Attention: Project Manager Street Address: Khumaltar Height Floor/Room number: 2 nd Floor City: Lalitpur Country: Nepal Telephone: : +977-01-5539390/91 Facsimile number: +977-01-5542397 Electronic mail address: narayan.adhikari@aepec.gov.np Requests for clarification should be received by the Employer no later than: 23 January 2020
ITB 7.4	A Pre-Bid meeting will take place. Date: 1 January 2020 Time: 2 PM Place: AEPC Hall, Khumaltar, Lalitpur, Nepal A site visit will be conducted by the Employer. The cost of site visit shall be borne by the Bidder.

C. Preparation of Bids

ITB 10.1	The language of the bid is: English
ITB 11.2 (g)	The Bidder shall submit with its Technical Bid the following additional documents: None
ITB 11.3 (b)	In accordance with ITB 12 and ITB 14, the following schedules shall be submitted with the bid, including the priced Bill of Quantities for admeasurement contracts and Activity Schedule for lump sum contracts: Work Schedule
ITB 11.3 (d)	The Bidder shall submit with its Price Bid the following additional documents: None
ITB 12.1	The units and rates in figures entered into the Bill of Quantities and Day-work Schedule should be typewritten or if written by hand, must be in print form. Bill of Quantities and Day-work Schedule not presented accordingly may be considered nonresponsive.
ITB 13.1	Alternative bids shall not be permitted.
ITB 13.2	Alternative times for completion shall not be permitted.
ITB 13.4	NOT APPLICABLE
ITB 14.5	The prices quoted by the Bidder will not be subject to adjustment during the performance of the Contract.
ITB 15.1	The prices shall be quoted by the bidder and shall be paid in: Nepalese Rupees
ITB 18.1	The bid validity period shall be 120 days.
ITB 19.1	The Bidder shall furnish a bid security in the amount of NRs. 5,500,000 .
ITB 19.2	The ineligibility period will be (Not Applicable)
ITB 19.4	Subject to the succeeding sentences, any bid not accompanied by an irrevocable and callable bid security shall be rejected by the Employer as nonresponsive. If a Bidder submits a bid security that (i) deviates in form, amount, and/or period of validity, or (ii) does not provide sufficient identification of the Bidder (including, without limitation, failure to indicate the name of the Joint Venture or, where the Joint Venture has not yet been constituted, the names of all future Joint Venture Partners), the Employer shall request the Bidder to submit a compliant bid security within 7 days of receiving such a request. Failure to provide a compliant bid security within the prescribed period of receiving such a request shall cause the rejection of the Bid.
ITB 20.1	In addition to the original Bid, the number of copies is: 2
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: An organizational document, board resolution or its equivalent, or

	power of attorney specifying the representative's authority to sign the Bid on behalf of the Bidder. If the Bidder is an intended or an existing joint venture, the power of attorney should be signed by all partners and specify the authority of the named representative of the joint venture to sign on behalf of the intended or existing joint venture. If the joint venture has not yet been formed, also include evidence from all proposed joint venture partners of their intent to enter into a joint venture in the event of a contract award in accordance with ITB 11.4.
ITB 20.2	The Bidder shall submit an acceptable authorization within 7 days.

D. Submission and Opening of Bids

ITB 21.1	Bidders do not have the option of submitting their Bids electronically.
ITB 21.1 (b)	NOT APPLICABLE
ITB 22.1	For bid submission purposes only, the Employer's address is: Attention: Project Manager, AEPC/SASEC Street Address: Khumaltar Height Floor/Room number: AEPC Hall City: Lalitpur Country: Nepal The deadline for bid submission is: Date: 30 January 2020 Time: 12:00 hrs Nepal Standard Time
ITB 25.1	The opening of the Technical Bid shall take place at: Street Address: AEPC, Khumaltar Height Floor/Room number: AEPC Hall City: Lalitpur Country: Nepal Date: 30 January 2020 Time: Immediately after the deadline for submission of the Bids.
ITB 25.1	If electronic bid submission is permitted in accordance with ITB 21.1, the specific bid opening procedures shall be: (Not Applicable)
ITB 25.5	The Letter of Technical Bid shall be initialed by at least 3 representatives of the Employer attending the Bid opening.
ITB 25.10	The Letter of Price Bid and Schedules shall be initialed by at least 3 representatives of the Employer attending the Bid opening.

E. Evaluation and Comparison of Bids

ITB 32.2	The qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, Subcontractors shall not be permitted.
ITB 33.1	The Employer shall permit for the contractor to execute any specific elements of

	the Works through nominated subcontractors.
ITB 35.1	Not applicable.
ITB 36.1	Domestic preference shall not apply.
ITB 41.1	<p>Standstill provisions shall apply. The duration of standstill period will be 7days from the date of notice of intention for award of contract.</p> <p>The Employer shall, at the start of the standstill period, notify in writing each Bidder that submitted a bid, of its intention to award a contract to the successful Bidder at the end of standstill period. The notification using the form included in Section 9 (Contract Forms) shall include the following information:</p> <ul style="list-style-type: none"> (a) the name of each Bidder who submitted a Bid; (b) the bid prices as read out at bid opening; (c) the name and evaluated prices of each Bid that was evaluated; (d) the name of Bidders whose bids were rejected and the reasons for their rejection; (e) the name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded; and <p>a statement of the reason(s) the bid of the unsuccessful Bidder to whom the notification is addressed was unsuccessful, unless the price information under (e) of this paragraph already reveals the reason.</p>

F. Award of Contracts

ITB 46.1	<p>The procedures for Bidding-Related Complaints are referenced in the Procurement Regulations for ADB Borrowers (Appendix 7). The Bidder should submit its complaint following these procedures, in writing, to:</p> <p>For the attention: Dr. Narayan Prasad Adhikari Title/position: Project Manager, AEPC/SASEC Employer: Alternative Energy Promotion Centre Ministry of Energy, Water Resources and Irrigation Tel No: +977-1-5539390/91, Ext: 328 Fax: +977-1-5542397, 5539392 Email: narayan.adhikari@aepec.gov.np</p>
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1. Evaluation

In addition to the criteria listed in ITB 37.2 (a)–(f), other relevant factors are as follows:

1.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employer's Requirements).

Non-compliance with equipment and personnel requirements described in Section 6 (Employer's Requirements) shall not normally be a ground for bid rejection, and such noncompliance will be subject to clarification during bid evaluation and rectification prior to contract award.

1.2 Completion Time

Time to complete the **Saniveri Uttarganag Mini Hydro Subproject, Package 1-Generation** excluding the time for Operation and Maintenance shall be **540** days from the effective date of the Contract (Site Possession Date) Agreement. Earlier completion is permitted without credit. No other alternative completion schedule is permitted.

1.3 Technical Alternatives

Not Applicable

1.4 Specialist Subcontractors

Only the specific experience of Specialist Subcontractors for key activities specified in criterion 2.4.2 Construction Experience in Key Activities will be considered. The experience of Specialist Subcontractors in contracts of similar size and nature, and their financial resources shall not be added to those of the Bidder for purposes of qualification of the Bidder.

1.5 Quantifiable Nonconformities and Omissions

Subject to ITB 14.2 and ITB 37.2, the evaluated cost of quantifiable nonconformities including omissions, is determined as follows:

Pursuant to ITB 31.3, the cost of all quantifiable nonmaterial non conformities shall be evaluated, including omissions in Daywork where competitively priced but excluding omission of prices in the Bill of Quantities. The Employer will make its own assessment of the cost of any non-material non conformities and omissions for the purpose of ensuring fair comparison of bids.

1.6 Domestic Preference

[Not Applicable]

1.7 Other Criteria

[Not Applicable]

1.8 Multiple Contracts

[Not Applicable]

2. Qualification

2.1 Eligibility

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

2.1.1 Nationality

Nationality in accordance with ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Forms ELI -1; ELI -2 with attachments
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2.1.2 Conflict of Interest

No conflicts of interest in accordance with ITB 4.3.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid
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2.1.3 ADB Eligibility

Not having been declared ineligible by ADB, as described in ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid
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2.1.4 Government-Owned Enterprise

Bidder required to meet conditions of ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Forms ELI -1, ELI - 2 with attachments
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2.1.5 United Nations Eligibility

Not having been excluded by an act of compliance with a United Nations Security Council resolution in accordance with ITB 4.8.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Technical Bid
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2.2 Historical Contract NonPerformance

2.2.1 History of NonPerforming Contracts

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Non-performance of a contract ^a did not occur as a result of contractor default since 1 January 2019	Must meet requirement	Must meet requirement	Must meet requirement ^b	Not Applicable	Form CON-1

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

^bThis requirement also applies to contracts executed by the Bidder as Joint Venture member.

2.2.2 Suspension Based on Execution of Bid-Securing Declaration (Not Applicable)

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

2.2.1 Pending Litigation and Arbitration(Not Applicable)

Pending litigation and arbitration criterion shall not apply.

2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last 3 years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year, calculated as the difference between total assets and total liabilities should be positive.	Must meet requirement	Not applicable	Must meet requirement	Not applicable	Form FIN - 1 with attachments

2.3.2 Average Annual Construction Turnover

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Minimum average annual construction turnover of NRs 275 million ¹ , calculated as total certified payments received for contracts in progress or completed, within best 3 years out of last 7 years.	Must meet requirement	Must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 2

Note:

(1) Only the net amount shall be calculated after deducting the amount for VAT and such amount shall be adjusted to present value by applying wholesale price index of Nepal Rastra Bank.

2.3.3 Financial Resources

Criteria Requirement	Compliance Requirements			Documents Submission Requirements	
	Single Entity	Joint Venture			
		All Partners Combined	Each Partner	One Partner	
<p>For Single Entities:</p> <p>The Bidder must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of NRs. 46,000,000</p>	must meet requirement	not applicable	not applicable	not applicable	Form FIN – 3 and Form FIN – 4
<p>For Joint Ventures:</p> <p>(1) One partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of NRs. 18,400,000 from the total requirement for the Subject Contract.</p> <p>AND</p>	not applicable	not applicable	not applicable	must meet requirement	Form FIN – 3 and Form FIN – 4
<p>(2) Each partner must demonstrate that its financial resources defined in FIN - 3, less its financial obligations for its own current contract commitments defined in FIN - 4, meet or exceed its required share of 11,500,000 from the total requirement for the Subject Contract.</p> <p>AND</p>	not applicable	not applicable	must meet requirement	not applicable	Form FIN – 3 and Form FIN – 4
<p>(3) The joint venture must demonstrate that the combined financial resources of all partners defined in FIN - 3, less all the partners' total financial obligations for the current contract commitments defined in FIN - 4, meet or exceed the total requirement for the Subject Contract of NRs. 46,000,000</p>	not applicable	must meet requirement	not applicable	not applicable	Form FIN – 3 and Form FIN – 4

2.4 Construction Experience

2.4.1 Contracts of Similar Size and Nature

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Participation as a contractor, Joint Venture partner, or Subcontractor, in at least one contract that has been successfully or substantially completed within the last 5 years and that is similar to the proposed works, where the value of the Bidder's participation exceeds NRs. 165 million The similarity of the Bidder's participation shall be based on micro/mini/small hydro projects, any irrigation project with construction of headworks and lined irrigation canal and any water supply projects with construction of intakes, water retaining structures, canal or pipe lines.	Must meet requirement	Not applicable	Should have participated in at least one contract that has been successfully or substantially completed within the last five years where the value of the Bidder's participation exceeds NRs. 69 million	Must meet requirement	Form EXP -1

Note:

- (1) Only the net amount shall be calculated after deducting the amount for VAT and such amount shall be adjusted to present value by applying wholesale price index of Nepal Rastra Bank

2.4.2 Construction Experience in Key Activities

May be complied with by the Bidder or by Specialist Subcontractor. If Specialist Subcontractors are proposed by the Bidder for key activities, each Specialist Subcontract must have experience in related key activity as a single entity.

If the key activity is to be undertaken by a Specialist Subcontractor, the Employer shall require evidence of the subcontracting agreement from the Bidder.

Criteria Requirement	Compliance Requirements		Documents
	Single Entity or its Specialist Subcontractors	Joint Venture or its Specialist Subcontractors	Submission Requirements
For the above or other contracts executed during the period stipulated in 2.4.1, a minimum construction experience in the following key activities:	Must meet requirement	Must meet requirement	Form EXP – 2
1. Construction of civil work (e.g. Headworks, Headrace Canal, Penstock, Power house) related to hydro power plant of > or = 50 kW each and Cumulative total capacity of Project > or = 400 kW			
2. Supply and installation of all Electro-mechanical equipment for a hydro electric plant of > or = 50 kW each and cumulative total capacity of Project > or = 400 kW			
3. Supply and installation of all Hydromechanical equipment for a hydro electric plant of > or = 50 kW each and communicative total capacity of Project > or = 400 kW			

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Letter of Technical Bid

-Note-

The Bidder must accomplish the Letter of Technical Bid on its letterhead clearly showing the Bidder's complete name and address.

Date:

OCB No.:

Invitation for Bid No.:

To: *[insert complete name of the Employer]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to execute in conformity with the Bidding Documents the following Works: *[insert narrative]*
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of *[insert bid validity period as specified in ITB 18.1 of the BDS]* days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (d) Our firm, including any Subcontractors or Suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB 4.2.
- (e) We, including any Subcontractors or Suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3.
- (f) We are not participating, as a Bidder, either individually or as partner in a Joint Venture, in more than one Bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers submitted in accordance with ITB 13.
- (g) Our firm, Joint Venture partners, associates, parent company, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, are not subject to, or not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Asian Development Bank or a debarment imposed by the Asian Development Bank in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the Asian Development Bank and other development banks.¹

¹ These institutions include African Development Bank, European Bank for Reconstruction and Development (EBRD), Inter-American Development Bank (IADB), and the World Bank Group. According to paragraph 9 of the Agreement, other international financial institutions may join upon the consent of all Participating Institutions and signature of a Letter of Adherence by the international financial institution substantially in the form provided (Annex B to the Agreement). Upon adherence, such international financial institution shall become a Participating Institution for purposes of the Agreement. Bidders are advised to check www.adb.org/integrity for updates.

- (h) Our firm, Joint Venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the Contract, are not, or have never been, temporarily suspended, debarred, declared ineligible, or blacklisted by the Employer's country, any international organization, and other donor agency.

If so debarred, declared ineligible, temporarily suspended, or blacklisted, please state details (as applicable to each Joint Venture partner, associate, parent company, affiliate, subsidiaries, Subcontractors, and/or Suppliers):

- (i) Name of Institution: _____
 (ii) Period of debarment, ineligibility, or blacklisting [*start and end date*]: _____
 (iii) Reason for the debarment, ineligibility, or blacklisting: _____
- (i) Our firm's, Joint Venture partners, associates, parent company's affiliates or subsidiaries, including any Subcontractors or Suppliers key officers and directors have not been [*charged or convicted*] of any criminal offense (including felonies and misdemeanors) or infractions/violations of ordinance which carry the penalty of imprisonment.

If so charged or convicted, please state details:

- (i) Nature of the offense/violation: _____
 (ii) Court and/or area of jurisdiction: _____
 (iii) Resolution [*i.e. dismissed; settled; convicted/duration of penalty*]: _____
 (iv) Other relevant details [*please specify*]: _____
- (j) We understand that it is our obligation to notify ADB should our firm, Joint Venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers, be temporarily suspended, debarred or become ineligible to work with ADB or any other MDBs, the Employer's country, international organizations, and other donor agencies, or any of our key officers and directors be charged or convicted of any criminal offense or infractions/violations of ordinance which carry the penalty of imprisonment.
- (k) Our firm, Joint Venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors or Suppliers, are not from a country which is prohibited to export goods to or receive any payments from the Employer's country by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations.
- (l) [We are not a government-owned enterprise] / [We are a government-owned enterprise but meet the requirements of ITB 4.5]²
- (m) We have not been suspended nor declared ineligible by the Employer based on execution of a Bid-Securing Declaration in accordance with ITB 4.6.
- (n) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

² Use one of the two options as appropriate.

- (o) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the requirements set forth in Section 6 (Employer’s Requirements) and our technical proposal, or as otherwise agreed with the Employer.

- (p) We understand that any misrepresentation that knowingly or recklessly misleads, or attempts to mislead may lead to the automatic rejection of the Bid or cancellation of the contract, if awarded, and may result in remedial actions, in accordance with ADB’s Anticorruption Policy (1998, as amended to date) and Integrity Principles and Guidelines (2015, as amended from time to time).

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Letter of Price Bid

-Note-

The Bidder must accomplish the Letter of Price Bid on its letterhead clearly showing the Bidder's complete name and address.

Date:

OCB No.:

Invitation for Bid No.:

To: *[insert complete name of the Employer]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to execute in conformity with the Bidding Documents the following Works: *[insert narrative]*
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]

The total bid price from the Summary of Bill of Quantities for admeasurement contracts or Activity Schedule for lump sum contracts should be entered by the bidder inside this box. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the bid.

- (d) The discounts offered and the methodology for their application are as follows: *[insert discounts and methodology for their application if any]*
- (e) Our Bid shall be valid for a period of *[insert bid validity period as specified in ITB 18.1 of the BDS]* days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents.

- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: ³

Name of Recipient	Address	Reason	Amount
.....
.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

³ If none has been paid or is to be paid, indicate "None".

Bid Security

Bank Guarantee

*[Bank's name, and address of issuing branch or office]*⁴

Beneficiary: *[Name and address of the Employer]*

Date:

Bid Security No.:

We have been informed that *[name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated *[please specify]* (hereinafter called "the Bid") for the execution of *[name of contract]* under Invitation for Bids No. *[please specify]* ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[name of bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[amount in words]* *[amount in figures]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letter of Technical Bid and Letter of Price Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB, or (iii) fails or refuses to furnish the domestic preference security, if required.

This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.⁵

[Authorized signature(s) and bank's seal (where appropriate)]

⁴ All italicized text is for use in preparing this form and shall be deleted from the final document.

⁵ Or 758 as applicable.

Bid-Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.: *[insert number of bidding process]*

Alternative No.: *[insert identification No if this is a bid for an alternative]*

To: *[insert complete name of the Employer]*

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Borrower for the period of time of *[insert the number of months or years indicated in ITB 19.2 of the BDS]* starting on the date that we receive a notification from the Employer, if we are in breach of our obligation(s) under the bid conditions, because we

- (a) have withdrawn our Bid during the period of bid validity specified in the Letter of Technical Bid and Letter of Price Bid; or
- (b) do not accept the correction of errors in accordance with the Instruction to Bidders (hereinafter “the ITB”); or
- (c) having been notified of the acceptance of our Bid by the Employer during the period of bid validity, (i) fail or refuse to execute the Contract, if required, (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB, or (iii) fail or refuse to furnish the Domestic Preference Security, if required.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) 28 days after the expiration of our Bid.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid-Securing Declaration]*

Name: *[insert complete name of person signing the Bid-Securing Declaration]*

Duly authorized to sign the bid for and on behalf of *[insert complete name of the bidder]*

Dated on _____ day of _____, _____

Corporate Seal *[where appropriate]*

AFFILIATE COMPANY GUARANTEE

Name of Contract/Contract No.: _____

Name and address of Employer: _____

[together with successors and assigns].

We have been informed that *[(name of Contractor)]* (hereinafter called the "Contractor") is submitting an offer for the above-referenced Contract in response to your invitation, and that the conditions of your invitation require its offer to be supported by an affiliate company guarantee.

In consideration of you, the Employer, awarding the Contract to the Contractor, we *[name of affiliated company]* irrevocably and unconditionally guarantee to you, as a primary obligation, that (i) throughout the duration of the Contract, we will make available to the Contractor our financial, technical capacity, expertise and resources required for the Contractor's satisfactory performance of the Contract; and (ii) we are fully committed, along with the Contractor, to ensuring a satisfactory performance of the Contract.

If the Contractor fails to so perform its obligations and liabilities and comply with the Contract, we will indemnify the Employer against and from all damages, losses and expenses (including legal fees and expenses) which arise from any such failure for which the Contractor is liable to the Employer under the Contract.

This guarantee shall come into full force and effect when the Contract comes into full force and effect. If the Contract does not come into full force and effect within a year of the date of this guarantee, or if you demonstrate that you do not intend to enter into the Contract with the Contractor, this guarantee shall be void and ineffective. This guarantee shall continue in full force and effect until all the Contractor's obligations and liabilities under the Contract have been discharged, when this guarantee shall expire and shall be returned to us, and our liability hereunder shall be discharged absolutely.

This guarantee shall apply and be supplemental to the Contract as amended or varied by the Employer and the Contractor from time to time. We hereby authorize them to agree on any such amendment or variation, the due performance of which and compliance with which by the Contractor are likewise guaranteed hereunder. Our obligations and liabilities under this guarantee shall not be discharged by any allowance of time or other indulgence whatsoever by the Employer to the Contractor, or by any variation or suspension of the works to be executed under the Contract, or by any amendments to the Contract or to the constitution of the Contractor or the Employer, or by any other matters, whether with or without our knowledge or consent.

This guarantee shall be governed by the law of the same country (or other jurisdiction) that governs the Contract and any dispute under this guarantee shall be finally settled under the *[Rules or Arbitration provided in the Contract]*. We confirm that the benefit of this guarantee may be assigned subject only to the provisions for assignment of the Contract.

Signed by:..... <div style="text-align: center;">[signature]</div> <div style="text-align: center;">[name]</div> <div style="text-align: center;">[position in parent/subsidiary company]</div>	Signed by: <div style="text-align: center;">[signature]</div> <div style="text-align: center;">[name]</div> <div style="text-align: center;">[position in parent/subsidiary company]</div>
--	---

Date:.....

- Note -

If permitted in accordance with ITB 32.2 of the BDS, the Bidder shall fill out the Affiliate Company Guarantee Form for each subsidiary, parent entity, affiliate, Subcontractor, etc. that the Bidder submits for consideration of the Employer in determining its qualifications.

Technical Proposal

Personnel

Form PER – 1: Proposed Personnel

Bidder should provide the details of the proposed personnel and their experience record in the relevant Information Forms below for each candidate:

1.	Title of position
	Name
2.	Title of position
	Name
3.	Title of position
	Name
4.	Title of position
	Name
etc.	Title of position
	Name

-- Note --

All titles of positions will be as listed in Section 6 (Employer's Requirements).

Form PER – 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below. Use one form for each position.

Position		
Personnel information	Name	Date of birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager / personnel officer)
	Fax	E-mail
	Job title	Years with present employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company / Project / Position / Relevant Technical and Management Experience

Equipment

Form EQU: Equipment

The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to meet the equipment requirements indicated in Section 6 (Employer’s Requirements), using the Forms below. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment	
Equipment Information	Name of manufacturer
	Capacity
	Model and power rating
	Year of manufacture
Current Status	Current location
	Details of current commitments
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner
	Address of owner
	Telephone
	Contact name and title
	Fax
	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Bidders Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the following information requested in the corresponding Information Sheets.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of a Joint Venture, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone number(s), fax number(s), e-mail address)	
<p>Attached are copies of the following documents.</p> <p><input type="checkbox"/> 1. In case of a single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2.</p> <p><input type="checkbox"/> 2. Authorization to represent the firm or Joint Venture named above, in accordance with ITB 20.2.</p> <p><input type="checkbox"/> 3. In case of a Joint Venture, a letter of intent to form a Joint Venture or Joint Venture agreement, in accordance with ITB 4.1.</p> <p><input type="checkbox"/> 4. In case of a government-owned enterprise, any additional documents not covered under 1 above required to comply with ITB 4.5.</p>	

Form ELI - 2: Joint Venture Information Sheet

Each member of the Joint Venture and Specialist Subcontractor must fill out this form separately.

Joint Venture / Specialist Subcontractor Information	
Bidder's legal name	
Joint Venture Partner's or Specialist Subcontractor's legal name	
Joint Venture Partner's or Specialist Subcontractor's country of constitution	
Joint Venture Partner's or Specialist Subcontractor's year of constitution	
Joint Venture Partner's or Specialist Subcontractor's legal address in country of constitution	
Joint Venture Partner's or Specialist Subcontractor's authorized representative information (name, address, telephone number(s), fax number(s), e-mail address)	
<p>Attached are copies of the following documents.</p> <p><input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2.</p> <p><input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITB 20.2.</p> <p><input type="checkbox"/> 3. In the case of a government-owned enterprise, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.</p>	

Form CON – 1: Historical Contract Nonperformance

Each Bidder must fill out this form in accordance with Criteria 2.2.1 and 2.2.3 of Section 3 (Evaluation and Qualification Criteria) to describe any history of nonperforming contracts and pending litigation or arbitration formally commenced against it.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Table 1: History of Nonperforming Contracts

Choose one of the following:			
<input type="checkbox"/> No nonperforming contracts.			
<input type="checkbox"/> Below is a description of nonperforming contracts involving the Bidder (or each Joint Venture member if Bidder is a Joint Venture).			
Year	Description	Amount of Nonperformed Portion of Contract (\$ equivalent)	Total Contract Amount (\$ equivalent)
[insert year]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]	[insert amount]

Table 2: Pending Litigation and Arbitration

Choose one of the following:			
<input type="checkbox"/> No pending litigation and arbitration.			
<input type="checkbox"/> Below is a description of all pending litigation and arbitration involving the Bidder (or each Joint Venture member if Bidder is a Joint Venture).			
Year	Matter in Dispute	Value of Pending Claim in \$ Equivalent	Value of Pending Claim as a Percentage of Net Worth
[insert year]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Matter of Dispute: [indicate full description of dispute] Party who initiated the dispute: [indicate "Employer" or "Contractor"] Status: [indicate status of dispute]	[insert amount]	[insert amount]

- Note -

Table 2 of this form shall only be included if Criterion 2.2.3 of Section 3 (Evaluation and Qualification Criteria) is applicable.

Form FIN - 1: Historical Financial Performance

Each Bidder must fill out this form.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Financial Data for Previous ____ Years [\$ Equivalent]		
Year 1:	Year 2:	Year ____:

Information from Balance Sheet

Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA – TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA - CL			

Most Recent Working Capital		To be obtained for most recent year and carried forward to FIN - 3 Line 1; in case of Joint Ventures, to the corresponding Joint Venture Partner's FIN - 3.
------------------------------------	--	---

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last ____ years, as indicated above, complying with the following conditions.
- Unless otherwise required by Section 3 of the Bidding Document, all such documents reflect the financial situation of legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries, or affiliates.
 - Historical financial statements must be audited by a certified accountant.
 - Historical financial statements must be complete, including all notes to the financial statements.
 - Historical financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Average Annual Construction Turnover

Each Bidder must fill out this form.

The information supplied should be the Annual Turnover of the Bidder or each member of a Joint Venture in terms of the amounts billed to clients for each year for work in progress or completed, converted to US dollars at the rate of exchange at the end of the period reported.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Annual Turnover Data for the Last ___ Years (Construction only)			
Year	Amount Currency	Exchange Rate	NRs. Equivalent
Average Annual Construction Turnover (Best 3 years with in the last 7 years)			

Form FIN – 3: Availability of Financial Resources

Bidder must demonstrate sufficient financial resources, usually comprising of Working Capital supplemented by credit line statements or overdraft facilities and others to meet the Bidder's financial requirements for

- (a) its current contract commitments, and
- (b) the subject contract.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Financial Resources		
No.	Source of financing	Amount (NRs. equivalent)
1	Working Capital (to be taken from FIN - 1)	
2	Credit Line ^a	
3	Other Financial Resources	
	Total Available Financial Resources	

^a To be substantiated by a letter from the bank issuing the line of credit.

Form FIN- 4: Financial Resources Requirement

Bidders (or each Joint Venture partner) should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Current Contract Commitments						
No.	Name of Contract	Employer's Contact (Address, Tel, Fax)	Contract Completion Date	Outstanding Contract Value (X) ^a	Remaining Contract Period in months (Y) ^b	Monthly Financial Resources Requirement (X / Y)
1						
2						
3						
4						
Total Monthly Financial Requirements for Current Contract Commitments						NRS. 46,000,000 (or equivalent)

^a Remaining outstanding contract values to be calculated from 28 days prior to the bid submission deadline (\$ equivalent based on the foreign exchange rate as of the same date).

^b Remaining contract period to be calculated from 28 days prior to bid submission deadline.

Form FIN - 5: Self-Assessment Tool for Bidder’s Compliance to Financial Resources (Criterion 2.3.3 of Section 3)

This form requires the same information submitted in Forms FIN - 3 and FIN - 4. All conditions of “Available Financial Resources Net of CCC ≥ Requirement for the Subject Contract” must be satisfied to qualify.

Form FIN - 5A: For Single Entities

For Single Entities: (A)	Total Available Financial Resources from FIN – 3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [D must be greater than or equal to E] (F)
_____ (Name of Bidder)				

Form FIN - 5B: For Joint Ventures

For Joint Ventures: (A)	Total Available Financial Resources from FIN – 3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [D must be greater than or equal to E] (F)
One Partner:					
_____ (Name of Partner)				
Each Partner:					
_____ (Name of Partner 1)				
_____ (Name of Partner 2)				
_____ (Name of Partner 3)				
All partners combined	Σ D = Sum of available financial resources net of current contract commitments for all partners		Σ D = _____	

- Note -

Form FIN – 5 is made available for use by the bidder as a self-assessment tool, and by the Employer as an evaluation work sheet, to determine compliance with the financial resources requirement as stated in 2.3.3. Failure to submit Form FIN - 5 by the Bidder shall not lead to bid rejection.

Form EXP – 1: Contracts of Similar Size and Nature

Fill up one (1) form per contract.

The exchange rate to be used to calculate the value of the contract for conversion to a specific currency shall be the selling rate of the Borrower's national bank on the date of the contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date	Completion Date	
Total Contract Amount	NRs.	
If partner in a Joint Venture or Subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the Similarity in Accordance with Criterion 2.4.1 of Section 3 (Evaluation and Qualification Criteria)		
<p>The contracts of similar size includes construction of micro/mini/small hydro projects, any irrigation project with construction of headworks and lined irrigation canal and any water supply projects with construction of intakes, water retaining structures, canal or pipe lines.</p>		

Form EXP - 2: Construction Experience in Key Activities

Fill up one (1) form per contract.

Each Bidder must fill out this form.

If complied by Specialist Subcontractor, each Specialist Subcontractor must fill out this form and provide the Specialist Subcontractor's name:

Specialist Subcontractor: _____

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date	Completion Date	
Total Contract Amount	NRs.	
If partner in a Joint Venture or Subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
Description of the Key Activities in Accordance with Criterion 2.4.2 of Section 3 (Evaluation and Qualification Criteria)		
Construction of civil work (e.g. Headworks, Headrace Canal, Penstock, Power house) related to hydro power plant of > or = 50 kW each and Cumulative total capacity of Project > or = 400 kw		
Supply and installation of all Electromechanical equipment for a hydro electric plant of > or = 50 kW each and Cumulative total capacity of Project > or = 400 kw		
Supply and installation of all Hydromechanical equipment for a hydro electric plant of > or = 50 kW each and Cumulative total capacity of Project > or = 400 kw		

Schedules

Schedule of Payment Currencies

Forinsert name of Section of the Works

Separate tables may be required if the various sections of the Works (or of the Bill of Quantities) will have substantially different foreign and local currency requirements. In such a case, the Employer should prepare separate tables for each Section of the Works.

	A	B	C	D
Name of Payment Currency	Amount of Currency	Rate of Exchange to Local Currency	Local Currency Equivalent $C = A \times B$	Percentage of Net Bid Price (NBP) $\frac{100 \times C}{NBP}$
Local Currency		1.00		
Foreign Currency #1				
Foreign Currency #2				
Foreign Currency #3				
Net Bid Price				100.00
Provisional Sums Expressed in Local Currency		1.00		
BID PRICE				

-- Note --

The rates of exchange shall be the selling rates 28 days prior to the deadline for submission of bids published by the source specified in BDS 15.

Table(s) of Adjustment Data

To be entered by the bidder

Table A - Local Currency

Index Code	Index Description	Source of Index *	Base Value and Date	Bidder's Local Currency Amount	Bidder's Proposed Weighting (coefficient)
	Nonadjustable	—	—	—	a: <i>(by Employer)</i> b: _____ c: _____ d: _____ e: _____
Total					1.00

Table B - Foreign Currency

Name of Currency:

[Insert name of currency. If the Bidder wishes to quote in more than one foreign currency, this table should be repeated for each foreign currency.]

To be entered by the bidder

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Currency in Type/Amount	Equivalent in FC1	Bidder's Proposed Weighting (coefficient)
	Nonadjustable	—	—	—		a: <i>(by Employer)</i> b: _____ c: _____ d: _____ e: _____
Total						1.00

-- Notes --

"Base Date" means the date 28 days prior to the deadline for submission of bids.

Tables of Adjustment Data shall only be included if prices are to be quoted as adjustable prices in accordance with ITB 14.5.

Activity Schedule

[Schedules of Prices – Lump Sum Contract]

The Employer shall indicate the list of major activities comprising the works and the number of measurement units consistent with the description of works, drawings, and specifications in Section 6 (Employer's Requirements). Each work item shall be described in sufficient detail to provide clear guidance to Bidders with respect to the type of works, their scope and complexity, and compliance with the required standards.

Bidders are required to enter the prices against each work item on a lump sum basis. Work items against which no lump sum price is entered by the Bidder will not be paid by the Employer when executed and shall be deemed covered by other work items against which the lump sum prices were entered. The sum of prices entered against each work item will represent the total bid price.

The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the Activity Schedule, and where no Items are provided, the cost shall be deemed to be distributed among the Amounts for the related Items of Work.

Bill of Quantities

[Admeasurement Contract]

Preamble of Bill of Quantities

A. General

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Project Manager and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.
3. For any item for which measurement is based on records made before or during construction the records shall be prepared and agreed between the Project Manager and the Contractor. Should the Contractor carry out such work without the prior approval of the Project Manager, the Project Manager may request the Contractor to carry out investigations to confirm the extent of the work and the quantity of work certified for payment shall be solely at the Project Manager's discretion. The cost of any such investigation shall be borne by the Contractor.
4. The rates and prices bid in the priced Bill of Quantities shall, except as otherwise provided under the Contract, include all construction equipment, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
5. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
6. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
7. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities. The Specification Clause references where given in the item description of the Bills of Quantities are for the convenience of bidders and generally refer to the principal relevant- specification clause but do not necessarily represent the whole of the specification requirements for the work required within the item. The presence of a Specification clause reference shall not in any way reduce the Bidders obligation to complete work in accordance with all the requirements of the Specification.
8. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager in accordance with the Conditions of Contract.

9. The method of measurement of completed work for payment of civil works shall be admeasurement in accordance with the Specifications.
10. For electro mechanical, hydro mechanical equipment and electrical transmission/distribution line, the payment will be included in IPC as follows:
 - i. Up to 75 % of BOQ item cost after site delivery and inspection/acceptance of goods by the Project Manager and could be divided into maximum of two payments.
 - ii. Up to 15% After installation, testing, commissioning and approval of Testing and Commissioning report by the Project Manager
 - iii. Up to 10% after approval/acceptance of Power output Verification (POV) report by the Project Manager
 - iv. Performance guarantee will be released after successful completion of warranty period.
 - v. Payment of operation and maintenance cost will be made as per IPC submitted during O/M period.
11. Rock is defined as all materials that, in the opinion of the Project Manager, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.

B. Day work Schedule

a) General

1. Work shall not be executed on a day work basis except by written order of the Project Manager. Bidders shall enter basic rates for day work items in the Schedules. These rates shall apply to any quantity of day work ordered by the Project Manager. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall, be carried forward as a Provisional Sum to the Summary Total Bid Amount. Unless otherwise adjusted, payments for day work shall be subject to price adjustment in accordance with the provisions in the Conditions of Contract.

b) Day work Labor

1. In calculating payments due to the Contractor for the execution of day works, the hours for labor will be reckoned from the time of arrival of the labor at the job site to execute the particular item of day work to the time of departure from the job site, but excluding meal breaks and rest periods. Only the time of classes of labor directly doing work ordered by the Project Manager and are competent to perform such work will be measured. The time of gangers (charge hands) actually doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.
2. The Contractor shall be entitled to payment in respect of the total time that labor is employed on day work, calculated at the basis rates entered by it in the " SCHEDULE OF DAY WORK RATES: 1. LABOR". The rates for labor shall be deemed to cover all costs to the Contractor including (but not limited to) i) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances, ii) any sums paid to or on behalf of such labor for social benefits in accordance with Nepal law, iii) Contractor's profit, overheads, superintendence, liabilities and insurance and iv) charges incidental to the foregoing.

c) Day work Equipment

1. The Contractor shall be entitled to payments in respect of Constructional Plant already on site and employed on day work at the basis rental rates entered by him in the "SCHEDULE OF DAY WORK RATES:2 EQUIPMENT ". The said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricant, and other consumables and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers,

operators and assistants also shall be included in the rate of the equipment and no separately payment shall be made for it.

2. In calculating the payment due to the Contractor for Constructional Plant employed on day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Project Manager, the travelling time from the part of the Site where the Construction Plant was located when ordered by the Project Manager to be employed on day work and the time for return journey there to shall be included for payment.

d) Day work Materials

1. The Contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labor costs as detailed heretofore), at the rates entered by him in the "SCHEDULE OF DAY WORK RATES: 3 MATERIALS" and shall be deemed to include overhead charges and profit as follows;
 - (i) the rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc. and shall provide for delivery to store for stockpiling at the Site.
 - (ii) the cost of hauling materials for use on work ordered to be carried out as day work, from the store or stockpile on the Site to the place where it is to be used also shall be include in the same rate.

C. Provisional Sums

The Provisional Sum will be used for payment of goods/works to be procured as directed by the Project Manager.

Each Provisional Sum shall only be used, in whole or in part, in accordance with the Project Manager's instructions. The total sum paid to the Contractor shall include only such amounts, for the work, supplies or services to which the Provisional Sum relates, as the Project Manager shall have instructed. For each Provisional Sum, the Project Manager may instruct:

- (a) work to be executed (including Plant, Materials or services to be supplied) by the Contractor
- (b) Plant, Materials or services to be purchased by the Contractor

(C) The Contractor will be claim actual amounts paid (or due to be paid) by the Contractor, and a sum (10% of Claim amount) for overhead charges and profit, calculated as a percentage of these actual amounts stated in the appropriate Schedule. The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation

Bill of Quantities

(Attached herewith)

Saniveri Uttarganga Mini Hydropower Project			
Putha Uttarganga Rural Municipality, Rukum District			
Summary of Bidding Cost			
		Capacity	998 kW
S.No	General Summary		Amount NRS
A.	GENERAL ITEMS		
1	Bill NO. 01 : GENERAL ITEMS		
B.	CIVIL COMPONENTS		
2	Bill NO. 02 : RIVER DIVERSION WORKS DURING CONSTRUCTION		
3	Bill NO. 03 -Weir, Sluice ways and Flood Wall		
4	Bill NO. 04 -INTAKE AND GRAVEL TRAP		
5	Bill NO. 05 -APPROACH CANAL AND SPILL WAY		
6	Bill NO. 06 -SETTLING BASIN WITH FLUSHING CANAL		
7	Bill NO. 07 : HEADRACE CANAL WORKS		
8	Bill NO. 08 : FORBAY WORKS		
9	Bill NO. 09 : PENSTOCK PIPE ALIGNMENT CIVIL WORKS		
10	Bill NO. 10: POWERHOUSE/CONTROL BUILDING		
11	Bill NO. 11: OPERATOR'S RESIDENIAL BUILDING		
12	Bill NO. 12 : TAILRACE CANAL		
13	Bill NO. 13 : SWITCHYARD AT POWERHOUSE		
C.	HYDROMECHANICAL COMPONENT		
14	Bill NO. 14 : HYDROMECHANICAL		
E	ELECTROMECHANICAL COMPONENT		
15	Bill NO. 15 : ELECTROMECHANICAL		
F	ENVIRONMENTAL MITIGATION AND MONITORING, PROVISIONAL SUM		
16	Bill NO.16 : ENVIRONMENTAL MITIGATION AND MOINITORING WORKS		
G	SCHEDULE OF DAY WORKS		
17	Bill NO. 17 : SCHEDULE OF DAY WORKS		
G	OPERATION AND MAINTANANCE		
18	Bill NO.18 : OPERATION AND MAINTANANCE		
Sub Total of Bills		I	
Contengency of I		II	6,900,000
Grand Sub Total (I+II)		III	
VAT 13% of III		IV	
GRAND TOTALS (III + IV)		V	

BILL OF QUANTITIES

Bill NO. 01 : GENERAL ITEMS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
101	Mobilization & Demobilization Cost including movement of personnel, Contractor's Equipment, Materials, Plant, supplies, to the Project site; establishment of all Contractor's camps and offices or other facilities necessary for starting the Contractor's operations at the site.	LS	1			
102	Insurance for loss of or damage to the Works, Plant, and Materials, loss of or damage to Equipment, loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract and personal injury or death as per GCC 19	PS	1	1,500,000	One Million Five Hundred Thousand Rupees and No Paisa	1,500,000
103	Facilities to the Employer (Office equipment i.e. 17 Laptop and A3 Canon laser printer and 500 W Solar power system with all accessories) as per Technical Specification Section I, Part G - Specification of General Item	PS	1	500,000	Five Hundred Thousand Rupees and No Paisa	500,000
104	Laboratory facilities as per Technical Specification Section I- Part G Specification of General Item with establishment of testing laboratory at site including furnishing and supply of testing equipments, apparatus including those for required meteorological measurement as per the Specifications	LS	1			
105	Access Road works for the Subproject Site (Headwork, Powerhouse)	PS	1	1,500,000	One Million Five Hundred Thousand Rupees and No Paisa	1,500,000
Sub Total of this Page						
Total of Bill No. 1						

BILL OF QUANTITIES

Bill NO. 02 : RIVER DIVERSION WORKS DURING CONSTRUCTION

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
201	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 100 m including all safety precautions for phase 1. This also includes Making Bunds with river Materials, Supply and laying of Geotextile materials, Dewatering/Draining Works and other works as required.	1.00	LS			
202	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 100 m including all safety precautions for Phase 2. This also includes Removal of Phase 1 River diversion material and other works as specified in Phase 1	1.00	LS			
Sub Total of this Page						
Total of Bill No. 2						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 03 -Weir, Sluice ways and Flood Wall

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
301	<u>SITE CLEARANCE</u>					
301.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	1340.000	m ²			
302	<u>EARTHWORK IN EXCAVATION</u>					
302.1	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	4690.000	m ³			
302.2	Excavation and Transport of medium rock including loading and dumping to the disposal area within 50 m including all safety precautions.	100.000	m ³			
302.3	Excavation, Breaking and Transport of large boulder including loading and dumping to the disposal area within 50 m including all safety precautions.	5.000	m ³			
303	<u>BACKFILLING</u>					
303.1	Filling with ordinary soils in 15cm thick layers and hand compaction with sprinkling water	958.950	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 03 -Weir, Sluice ways and Flood Wall

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
304	<u>CONCRETE WORK</u>					
304.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	63.000	m ³			
304.2	Machine Mixed Concrete works for the abutement, pier, wall etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	1608.000	m ³			
304.3	Machine Mixed Concrete works for the abutement, pier, wall etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M25	243.000	m ³			
305	<u>FORMWORK</u>					
305.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
305.1.1	Straight formwork upto 5m	2656.390	m ²			
306	<u>REINROCEMENT</u>					
306.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	97698	Kg.			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 03 -Weir, Sluice ways and Flood Wall

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
307	<u>STONE WORK</u>					
307.1	Stone soling works by min. 250 mm stones in the foundation with sand and leveling including haulage	207.260	m ³			
307.2	Rubble masonry works in 1:6 cement mortar including supply of hard stone blocks, preparing cement mortar and construction of wall	658.008	m ³			
307.3	Boulder Concrete with 40% plum and boulder will be additionally 30% at the base of the Stilling basin	1079.000	m ³			
308	<u>Hard Stone Lining Works</u>					
308.1	Providing and laying 0.3m*0.3m*0.3 m hard stone lining at 1:2 Cement Sand Mortar	19.611	m ³			
309	DRY BOULDER RIP RAP					
309.1	1m dia Boulder Riprap from upstream river boulders including transportation, leveling including haulage.	476.000	m ²			
310	GABION WOKS MAKING: GABION INCLUDING SUPPLYING OF MATERIALS, PLACING AND FILLING WITH STONES ALL COMPLETE.					
310.1	Box size (3 m x 1 m x 1 m, 2 m x 1 m x 1 m)	6.000	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 03 -Weir, Sluice ways and Flood Wall

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
311	MISCELLANEOUS					
311.1	Supply delivey and fixing of steel railing with 2" vertival post @ 2 m c/c and hand rail with 1" dia 3 layers horizontal pipe with one coat primer and two coat enamel paints	42.000	rm			
311.2	Supply delivey and fixing of Metal Staircase for access to Undersluice Platform with 2 m width and 1m high handrails.	1.000	LS			
Sub Total of this Page						
Total of Bill No. 2						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 04 -INTAKE AND GRAVEL TRAP

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
401	<u>EARTHWORK IN EXCAVATION</u>					
401.1	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	164.000	m ³			
402	<u>BACKFILLING</u>					
402.1	Filling with ordinary soils in 15cm thick layers and hand compaction with sprinkling water	65.600	m ³			
403	<u>CONCRETE WORK</u>					
403.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	13.125	m ³			
403.2	Machine Mixed Concrete works for the abutement, pier, wall etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	145.800	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 04 -INTAKE AND GRAVEL TRAP

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
404	<u>FORMWORK</u>					
404.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete as per the Specifications, drawing and instruction of the Engineer					
404.1.1	For straight formwork upto 3 m high	1238.230	m ²			
405	<u>REINFORCEMENT</u>					
405.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	12330	Kg.			
406	<u>STONE WORK</u>					
406.1	Providing and laying of Stone Soling works with 250 mm stones in the foundation and leveling including haulage	43.750	m ³			
407	<u>EXPANSION JOINT</u>					
407.1	Providing and laying of 230 mm Water bars, Joint fillers and Water sealeant all complete	13.000	rm			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 04 -INTAKE AND GRAVEL TRAP

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
408	GABION WOKS MAKING: GABION INCLUDING SUPPLYING OF MATERIALS, PLACING AND FILLING WITH STONES ALL COMPLETE.					
408.1	Box size (3 m x 1 m x 1 m or 2 m x 1 m x 1 m)	6.000	m ³			
Sub Total of this Page						
Total of Bill No. 4						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 05 -APPROACH CANAL AND SPILL WAY

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
501	<u>SITE CLEARANCE</u>					
501.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	50	m ²			
502	<u>EARTHWORK IN EXCAVATION</u>					
502.1	Excavation and Transport of soft clay or soil including loading and dumping to the disposal area within 50 m including all safety precautions.	588.650	m ³			
502.2	Excavation and Transport of boulder mix soil including loading and dumping to the disposal area within 50 m including all safety precautions.	588.650	m ³			
503	<u>BACKFILLING</u>					
503.1	Filling with ordinary soils in 15 cm thick layers and hand compaction (haulage distance 10 m) With sprinkling water	647.515	m ³			
504	<u>CONCRETE WORK</u>					
504.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	18.927	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 05 -APPROACH CANAL AND SPILL WAY

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
504.2	Machine Mixed Concrete works for the wall and base of approach canal including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	186	m ³			
505	<u>FORMWORK</u>					
505.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
505.1.1	Straight formwork up to 3 m high	1136	m ²			
506	<u>REINROCEMENT</u>					
506.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	10,928	Kg.			
507	<u>STONE WORKS</u>					
507.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	63.090	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 05 -APPROACH CANAL AND SPILL WAY

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
508	EXPANSION JOINT					
508.1	Providing and laying of 230 mm Water bars, Joint fillers and Water sealeant all complete	82	rm			
Sub Total of this Page						
Total of Bill No. 5						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 06 -SETTLING BASIN WITH FLUSHING CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
601	<u>EARTHWORK IN EXCAVATION</u>					
601.1	Excavation and Transport of soft soil including loading and dumping to the disposal area within 50 m including all safety precautions.	931.50	m ³			
601.2	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	931.50	m ³			
602	<u>BACKFILLING</u>					
602.1	Filling with ordinary soils in 15 cm thick layers and hand compaction (haulage distance 10 m) With sprinkling water	558.90	m ³			
603	<u>CONCRETE WORK</u>					
603.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	32.153	m ³			
603.2	Machine Mixed Concrete works for the abutement, pier, wall etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	270.208	m ³			
				Sub Total of this Page		

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 06 -SETTLING BASIN WITH FLUSHING CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
604	<u>FORMWORK</u>					
604.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
604.1.1	Straight formwork upto 3 m high	862.957	m ²			
605	<u>REINROCEMENT</u>					
605.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	22,264	Kg.			
606	<u>STONE WORKS</u>					
606.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	107.175	m ³			
606.2	Rubble masonry works in 1:6 cement mortar including supply of hard stone blocks, preparing cement mortar and construction of wall	168.560	m ³			
607	<u>EXPANSION JOINT</u>					
607.1	Providing and laying of 250 mm Water bars, Joint fillers and Water sealeant all complete	44	Rm			
				Sub Total of this Page		

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 06 -SETTLING BASIN WITH FLUSHING CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
608	<u>MISCELLANEOUS</u>					
608.1	Barbed wire fencing works with five rows and two diagonal barbed wires and column at 2m spacing ,size of conc poles is 100 mm * 150 mm * 2100 mm including a wooden gate all complete with locking system	100	rm			
608.2	Supply delivey and fixing of steel railing with 2" vertival post @ 2 m c/c and hand rail with 1" dia 3 layers horizontal pipe with one coat primer and two coat enamel paints	10	rm			
609	<u>GABION WOKS MAKING: GABION INCLUDING SUPPLYING OF MATERIALS. PLACING AND FILLING WITH STONES ALL COMPLETE.</u>					
609.1	Box size (2 m x 1 m x 1 m)	4.00	m ³			
Sub Total of this Page						
Total of Bill No. 6						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 07 : HEADRACE CANAL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
701	<u>SITE CLEARANCE</u>					
701.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	900	m ²			
702	<u>EARTHWORK IN EXCAVATION</u>					
702.1	Excavation and Transport of soft soil including loading and dumping to the disposal area within 50 m including all safety precautions.	300	m ³			
702.2	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	1063	m ³			
702.3	Excavation and Transport of Soft to medium Rock including loading and dumping to the disposal area within 20 m including all safety precautions.	200	m ³			
702.4	Excavation and Transport of large boulder including loading and dumping to the disposal area within 50 m including all safety precautions.	5	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 07 : HEADRACE CANAL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
703	<u>BACKFILLING</u>					
703.1	Filling with ordinary soils in 15 cm thick layers and hand compaction (haulage distance 10 m) With sprinkling water	469.00	m ³			
704	<u>CONCRETE WORK</u>					
704.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	66.420	m ³			
704.2	Machine Mixed Concrete works for the abutement, pier, wall etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	488.00	m ³			
705	<u>FORMWORK</u>					
705.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
705.1.1	Straight formwork upto 3 m high	3985.20	m ²			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 07 : HEADRACE CANAL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
706	<u>REINFORCEMENT</u>					
706.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	35,259	kg			
707	<u>STONE WORK</u>					
707.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	221.40	m ³			
707.2	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	20.00	m ³			
708	<u>EXPANSION JOINT</u>					
708.1	Providing and laying of 230 mm Water bars, Joint fillers and Water sealeant all complete	156.80	RM			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 07 : HEADRACE CANAL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
709	<u>GABION WORKS</u>					
709.1	Supplying Gabion box and Boulder and filling into Gabion box including placing in position tying Gabion by tightening wire closing from top all complete. :					
709.1.1	Box size (2 m x 1 m x 1 m, 3 m x 1 m x 1 m)	6.00	m ³			
Sub Total of this Page						
Total of Bill No.7						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 08 : FORBAY WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
801	<u>EARTHWORK IN EXCAVATION</u>					
801.1	Excavation and Transport of soft clay or soil including loading and dumping to the disposal area within 50 m including all safety precautions.	592.00	m ³			
801.2	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	200.00	m ³			
802	<u>BACKFILLING</u>					
802.1	Filling with ordinary soils in 15 cm thick layers and hand compaction (haulage distance 10 m) With sprinkling water	237.60	m ³			
803	<u>STONE WORK</u>					
803.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	44.508	m ³			
803.2	Rubble masonry works in 1:6 cement mortar including supply of hard stone blocks, preparing cement mortar and construction of wall	19.430	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 08 : FORBAY WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
804	<u>CONCRETE WORK</u>					
804.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete and mass infilling concrete with concrete grade M10	13.352	m ³			
804.2	Machine Mixed Concrete works for the wall and base of tank including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	164.860	m ³			
805	<u>FORMWORK</u>					
805.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
805.1.1	Straight formwork upto 3 m high	729.370	m ²			
806	<u>REINFORCEMENT</u>					
806.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	12,957	kg			
807	<u>EXPANSION JOINT</u>					
807.1	Providing and laying of 230 mm Water bars, Joint fillers and Water sealeant all complete	31.20	RM			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 08 : FORBAY WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
808	<u>MISCELLANEOUS</u>					
808.1	Barbed wire fencing works with five rows and two diagonal barbed wires and column at 2m spacing ,size of conc poles is 100 mm * 150 mm * 2100 mm including a wooden gate all complete with locking system	20.00	rm			
808.2	Supply Deliver and installation of 3 Nos. of 0.45m Dia. HDPe Pipe laying for Spillway including 20 m perforated HDPE pipe for Flusing arrangement with necessary accessories.	152.00	rm			
808.3	Supply Deliver and installation of Sluice Valve of diameter 0.45m with complete accessories required	1.00	LS			
Sub Total of this Page						
Total of Bill No.8						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 09 : PENSTOCK PIPE ALIGNMENT CIVIL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
901	<u>SITE CLEARANCE</u>					
901.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	583.00	m ²			
902	<u>EARTHWORK IN EXCAVATION</u>					
902.1	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	1021.40	m ³			
902.2	Excavation and Transport of Soft/medium Rock including loading and dumping to the disposal area within 20 m including all safety precautions.	20.00	m ³			
903	<u>BACKFILLING WORKS</u>					
903.1	Filling with ordinary soils in 15 cm thick layers and hand compaction (haulage distance 10 m) With sprinkling water	625.00	m ³			
904	<u>CONCRETE WORKS</u>					
904.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete concrete with concrete grade M10	15.425	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 09 : PENSTOCK PIPE ALIGNMENT CIVIL WORKS

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
904.2	Providing and Laying machine mixed Concrete grade M15 (Nominal mixed 1:2:4) with skin reinforcement concrete and 40% plum inside	203.00	m ³			
905	<u>FORMWORK</u>					
905.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
905.1.1	For straight formwork 5 m high	302.87	m ²			
906	<u>REINFORCEMENT</u>					
906.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	6,247	kg			
907	<u>STONE WORK</u>					
907.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	25.68	m ³			
907.2	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	138.60	m ³			
Sub Total of this Page						
Total of Bill No.9						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1001	<u>SITE CLEARANCE</u>					
1001.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	282.75	m ²			
1002	<u>EARTHWORK</u>					
1002.1	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	407.47	m ³			
1002.2	Breaking boulder with breaker for boulder size more than 1.5 m size or using chemicals as per requirements.	10.00	m ³			
1003	<u>COMPACTED BACKFILLING</u>					
1003.1	Compacting soils by roller in 20 cm thick layers- Using RCC hand roller	208.73	m ³			
1004	<u>CONCRETING WORK</u>					
1004.1	Machine Mixed Concrete works (Supply of materials & haulage dist up to 30 m) in blinding concrete concrete with concrete grade M10	20.41	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1004.2	Machine Mixed Plum concrete - 40% plum (Supply of materials & haulage dist up to 30 m) Concrete grade M15	17.64	m ³			
1004.3	Machine Mixed Concrete works for the column, foundation, beam corbel, machine foundation etc including compaction, curing, testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20	197.89	m ³			
1005	<u>FORMWORK</u>					
1005.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
1005.1.1	For straight formwork 5 m high	679.59	m ²			
1006	<u>REINFORCEMENT</u>					
1006.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	22,103.00	kg			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1007	<u>BLOCK CONCRETE MASONARY WORKS</u>					
1007.1	Providing and Laying Block Masonary wall in 1:4 c/s mortar in line and plumb as per drawign, specification and instrucion of the engineer.	65.88	m ²			
1008	<u>STONE WORK</u>					
1008.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	61.86	m ³			
1008.2	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	21.72	m ³			
1009	<u>PLASTERING WORKS</u>					
1109.1	Providing and applying 20 mm thick cement plaster including mortar mixing, scaffolding, curing etc complete as per specification lead 30 m (manual mixing), Cement sand: 1:4	818.795	m ²			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1010	<u>DOOR & WINDOW OPENINGS</u>					
1010.1	Providing , Febricating and Installation of Sal wood Frame works for doors and windows with all complete	0.618	m ³			
1010.2	Supplying, Providing , Febricating and Installation of Pannel door Shutter of 38 mm solid core	1.725	m ²			
1010.3	Providing , Febricating and Installation of glazed Shutter with 4mm thick float glass in 38 x 75 mm sisauwood frame for Windows (based on shutter size 1.829 x 1.22 = 2.23 sqm)	11.088	m ²			
1011	<u>ROOFING</u>					
1011.1	Providing 3mm thick PPMA Coating and mesh (Regular) UPVC Corrugated Roofing sheet (Red Color) with Self Tapping, Srews 3" Clip, bitumen washers including UPVC sheet at ridge all complete Sunrise brand or equivalent.	220.00	m ²			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1011.2	Manufacture, supply and Fixing of steel roof truss (including nut bolts, primer paints completed in all respects) as per drawings and specification	1018.47	kg			
1011.3	Manufacture, supply and Fixing of steel purlins for roof truss (including nut bolts, primer paints completed in all respects) as per drawings and specification	2519.21	kg			
1012	<u>PAINING WORKS</u>					
1012.1	With two coats of Primer and 2 coats of distemper at internal surface	403.018	m ²			
1012.2	With two coats of Primer and 2 coats of Weathercoat at exterior surface	415.778	m ²			
1013	<u>MISCELLANEOUS</u>					
1013.1	Supply, erection and installation of mild steel rolling shutters with all required accessories and support, two coats of paint, complete in all respects with approval from Engineer	18.00	m ²			-
1013.2	Supply and installation of wooden flush ply ceiling with wooden frame including all necessary materials	177.75	m ²			-
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 10: POWERHOUSE/CONTROL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1013.3	Provision for toilet with RCC Roofing (a pan with flushing system, wash basin, pipes and fittings for above,1000lt WaterTank, 6" dia HDP pipe, and septic tank of size 2*1.5*1.5m with stone masonry and RCC cover including excavation, backfilling etc) all complete as per Drawing and Specification.	1.0	LS			
1013.4	Drainage and landscaping works at the Powerhouse site as per direction from site engineer or as provided in drawings and specification	1.00	LS			
1013.5	Barbed wire fencing works with five rows and two diagonal barbed wires and column at 2m spacing ,size of conc poles is 100 mm * 150 mm * 2100 mm including a wooden gate all complete with locking system	125.00	rm			
Sub Total of this Page						
Total of Bill No.10						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 11: OPERATOR'S RESIDENTIAL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1101	<u>SITE CLEARANCE</u>					
1101.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	90.440	m ²			
1102	<u>EARTHWORK</u>					
1102.1	Excavation and Transport of boulder mixed soil including loading and dumping to the disposal area within 50 m including all safety precautions.	88.850	m ³			
1103	<u>COMPACTED BACKFILLING</u>					
1103.1	Compacting soils by roller in 20 cm thick layers- Using RCC hand roller	44.426	m ³			
1104	<u>STONE WORK</u>					
1104.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	14.614	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 11: OPERATOR'S RESIDENTIAL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1104.2	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	104.988	m ³			
1105	<u>CONCRETING WORK</u>					
1105.1	Providing and Laying machine mixed Concrete Grade M10 (Nominal mix 1:3:6) for (Supply of materials & haulage dist up to 30 m) in blinding concrete	9.717	m ³			
1105.2	Providing and Laying Machine Mixed Concrete works for the column, foundation, beam corbel, machine foundation etc including compaction,curing,testing and lead 30 m etc. all complete as per the specifications and drawings Concrete grade M20 (1:1.5:3)	8.638	m ³			
1106	<u>FORMWORK</u>					
1106.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 11: OPERATOR'S RESIDENTIAL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1106.1.1	For straight formwork upto 5 m high	49.362	m ²			
1107	<u>REINFORCEMENT</u>					
1107.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	475	kg			
1108	<u>PLASTERING WORKS</u>					
1108.1	Providing and applying 20 mm thick cement plaster including mortar mixing, scaffolding, curing etc complete as per specification lead 30 m (manual mixing), Cement sand: 1:4	135.188	m ²			
1109	<u>DOOR & WINDOW OPENINGS</u>					
1109.1	Providing , Fabricating and Installation of Sal wood Frame works for doors and windows with all complete	1.841	m ³			
1109.2	Supplying, Providing , Fabricating and Installation of Pannel door Shutter of 38 mm solid core	3.808	m ²			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 11: OPERATOR'S RESIDENTIAL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1109.3	Making and fitting 4mm glazed shutter in 38 x 75 mm Sal wood frame for window	9.03	m ²			
1110	<u>POINTING WORKS</u>					
1110.1	Providing and pointing of Flush ruled Pointing works of 20 mm thick 1:3 cement sand mortar	107.948	m ²			
1011	<u>ROOFING</u>					
1011.1	Providing 3mm thick PPMA Coating and mesh (Regular) UPVC Corrugated Roofing sheet (Red Color) with Self Tapping, Screws 3" Clip, bitumen washers including UPVC sheet at ridge all complete Sunrise brand or equivalent.	116.80	m ²			
1011.2	Manufacture, supply and Fixing of steel roof truss (including nut bolts, primer paints completed in all respects) as per drawings and specification	321.92	kg			
1011.3	Manufacture, supply and Fixing of steel purlins for roof truss (including nut bolts, primer paints completed in all respects) as per drawings and specification	814.68	kg			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 11: OPERATOR'S RESIDENTIAL BUILDING

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1012	<u>PAINING WORKS</u>					
1012.1	With two coats of Primer and 2 coats of distemper at internal surface	135.188	m ²			
1013	<u>MISCELLANEOUS</u>					
1013.1	Supply, erection and installation of metallic name plates of project and cooperative with approval from Engineer	1.0	LS			-
1013.2	Supply and installation of 50 x 75 mm size wooden frame (600 x 900 mm for flush ceiling (4 mm commercial ply) including all necessary materials as per instruction of site engineer.	76.755	m ²			-
1013.3	Provision for toilet with RCC Roofing (a pan with flushing system, wash basin, pipes and fittings for above,1000lt WaterTank, 6" dia HDP pipe, and septic tank of size 2*1.5*1.5m with stone masonry and RCC cover including excavation, backfilling etc) all complete	1.0	LS			
Sub Total of this Page						
Total of Bill No.11						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 12 : TAILRACE CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1201	<u>SITE CLEARANCE</u>					
1201.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	80.00	m ²			
1202	<u>EARTHWORK IN EXCAVATION</u>					
1202.1	E/W in excavation in Gravel Boulder Mix Soil (GBMS) with 1.5 m lift & 10 m lead as per instruction	81.00	m ³			
1202.2	Breaking boulder with breaker for boulder size more than 1.5m diameter.	5.00	m ³			
1203	<u>COMPACTED BACKFILLING</u>					
1203.1	Backfilling with ordinary soils in 15 cm thick layers and hand compaction with sprinkling water	17.20	m ³			
1204	<u>CONCRETING WORK</u>					
1204.1	Providing and Laying Machine Mixed Concrete M10 Concrete blinding (Nominal mix 1:3:6) in level surface with 30m haulage distance.	6.30	m ³			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 12 : TAILRACE CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1204.2	Providing and Laying Machine Mixed M20 Concrete (Design mix 1:1.5:3) for RCC wall and base of tailrace including compaction,curing,testing and lead 30 m etc. all complete as per the specifications	8.03	m ³			
1205	<u>REINFORCEMENT</u>					
1205.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	504	Kg.			
1206	<u>FORMWORK</u>					
1206.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
1206.2	For straight formwork upto 3 high	31.20	m ²			
1207	<u>STONE WORK</u>					
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 12 : TAILRACE CANAL

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1207.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	21.00	m ³			
1207.2	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	101.99				
1208	<u>GABION WORKS</u>					
1208.1	Gabion Works- Making gabion including supply of materials, placing and filling with stones all complete					
	Box size (2 m x 1 m x0 .5 m, 2 m x 1 m x 1 m)	10.00	m ³			
Sub Total of this Page						
Total of Bill No.12						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 13 : SWITCHYARD AT POWERHOUSE

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1301	<u>SITE CLEARANCE</u>					
1301.1	Preparation of construction area by clearing, grubbing and stripping. Tree trunks, bushes and shrubs to be loaded, transported, dumped and stockpiled	73.500	m ²			
1302	<u>EARTHWORK IN EXCAVATION</u>					
1302.1	E/W in excavation in Gravel Boulder Mix Soil (GBMS) with 1.5 m lift & 10 m lead as per instruction	11.870	m ³			
1303	<u>GRAVEL FILLING WORKS</u>					
1303.1	Providing Preparing and Laying of aggregate of size 10mm to 40 mm, size as pre instruction by the engineer.	11.025	m ³			
1304	<u>STONE WORK</u>					
1304.1	Preparation of sub grade formation and Dry stone soling of 250mm thick stone with leveled surface as per design and drawings.	2.863	m ³			
1305	<u>CONCRETING WORK</u>					
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 13 : SWITCHYARD AT POWERHOUSE

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1305.1	Providing and Laying Machine Mixed Concrete M10 Concrete blinding (Nominal mix 1:3:6) in level surface with 30m haulage distance.	1.618	m ³			
1305.2	Providing and Laying Machine Mixed M20 Concrete (Design mix 1:1.5:3) for RCC wall and base of tailrace including compaction,curing,testing and lead 30 m etc. all complete as per the specifications	7.794	m ³			
1306	<u>REINFORCEMENT</u>					
1306.1	Providing and laying reinforcement including cutting, bending, binding, fixing in position and all complete works as per the Drawings, Specifications and instruction of the Engineer	428	Kg.			
1307	<u>FORMWORK</u>					
1307.1	Providing, preparing and installing formwork including necessary supports and removing after completion and all complete works as per the Specifications, drawing and instruction of the Engineer					
1307.2	For straight formwork upto 3 m high	22.575	m ²			
Sub Total of this Page						

BILL OF QUANTITIES

Ref. Dwg No. :

Bill NO. 13 : SWITCHYARD AT POWERHOUSE

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1308	<u>STONE WORK</u>					
1308.1	Providing and Laying of Dressed / Rubble stone masonry with 1:6 cement sand mortar mortar with haulage distance upto 10m	4.524	m ³			
1309	<u>MISCELLANEOUS</u>					
1309.1	Fabrication of chain link mess of size 2" x 2" of 10 gauge with 3" x 3" angle support at interval of 2 m c/c of height 2 m from Ground level including 2m entrance gate.	36	m			
1309.2	Sanitary works including flusing pipes, valves and different sanitary items as per instruction by site engineer.	1	LS			
Sub Total of this Page						
Total of Bill No.13						

BILL OF QUANTITIES

Bill NO. 14 : HYDROMECHANICAL

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1400	Design, Supply, Installation, Surpervision, Testing and Commissioning testing of the Hydromechanical complete set of Equipments as per technical specification					
1403	MS Penstock Pipe with 1100 mm internal Dia. and other Mechanical works					
1403.1	MS Penstock pipe Pipe 5 mm thick with 1100mm internal dia.including bends	12,828	kg			
1403.2	MS Penstock pipe Pipe 6 mm thick with 1100mm internal dia.including bends	26,266	kg			
1403.3	MS Penstock pipe Pipe 8 mm thick with 1100mm internal dia.including bends	9,859	kg			
1403.4	MS Branch Penstock Pipe 10 mm thick with 850 mm internal dia. including bifurcation	2,280	kg			
1403.5	Gravel Flushing pipe at gravel trap of dia 500mm with 4mm thick	1,168	kg			
1403.6	C-Clamp with HDP Wear plate	44.00	Nos.			
1403.7	Expansion joints: 1100 mm internal dia.	8.00	sets			
1403.8	Pressure Gauge	1.00	set			
1403.9	MS Air Vent pipe , 620 mm dia. at end of Forbay	1.00	Set			
1404	Gates & Accessories					
Sub Total of this Page						

BILL OF QUANTITIES

Bill NO. 14 : HYDROMECHANICAL

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1404.1	Intake Gate, Vertical wheel type Electrical Operated System (1.7m x 1.0m) (WXH) 2 set with its guide frames, hoist and their accessories with all electric equipment including require length of wire	2,537	kg			
1404.2	Coarse Trash rack (for 1.7 m x 2.50 m Complete 2 set with 16 Dia bars @ 100 c/c spcing including its frame and their accessories	1,275	Kg			
1404.3	Under Sluice Gate, Vertical wheel type Electric Operated (2.5m x 2.5m) (WXH) complete 1 set of Gate with its guide frames, hoist and their accessories with all electric equipment including require length of wire	2,188	Kg			
1404.4	Stop log infront of Undersluice (2.5 x 2.5) (WxH) complete 1 set with its guide frames, hoist and their accessories complete set	1,875	kg			
1404.5	Desender/Settling Basin for Inlet Gate , Vertical wheel type Electrical Operated System (1.2m x 1.5m) (WXH) complete 2 set of Gate with its guide frames, hoist and their accessories	2,000	kg			
1404.6	Desender/Settling Basin Flushing Gate (0.5m x 0.5m) (WXH) complete 2 set of Gate with its guide frames, hoist and their accessories	1,100	Kg			
1404.7	Desender/Settling Basin Outlet Gate, Electric Operated (3.5m x 1.5m) (WXH) complete 2 set of Gate with its guide frames, hoist and their accessories	5,775	Kg			
Sub Total of this Page						

BILL OF QUANTITIES**Bill NO. 14 : HYDROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1404.8	Forbay Inlet Gate, Electrically Operated of Size (1.5m x 1.5m) (WXH) complete 1 set of Gate with its guide frames, hoist and their accessories with all electric equipment including require length of wire	788	Kg			
1404.9	Fine Trash rack (6 m x 2.5 m) (for Forbay outlet) One Complete set with its frame and their accessories	2,970	kg			
1404.10	Tailrace Stoplog(1.20m x 1.0m) (WxH) complete 2 set with its guide frames, hoist and their accessories	720	kg			
1404.11	Butterfly Gate Valve with 400 Dia complete Set	1.00	Set			
1404.12	Gravel trap Flushing Sluice Valve of 500 Dia 1 complete set with all accessories	1.00	Set			
Sub Total of this Page						
Total of Bill No.14						

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1501	Design, Supply, Delivery and Installation of Electromechanical Components complete Set which should have performed 5 years successfully including Transportation upto the site with Specification mentioned below (A1.1 to A1.10)	1	Set			
A.1.1 A.1.1.1	Turbine-Generator Units @ 2 Lot Horizontal Francis Turbine with inlet valve, casing, guide vanes with associated auxiliary and ancillary equipments in complete set to develop rated output of 590 kW at rated net head 51.70m and rated discharge 1.2 m ³ /sec, 750 RPM. The product must be from the following reputed brands. (ANDRITZ or VOITH or GEPPERT or FLOVEL or BHEL or EFG Turbien, CINK or Schimmer) a. Turbine Casing with Stay vans, foundation materials all complete with accessories b. Transition pipe with all complete accessories c. Wicket Gate with assembly with accessories d. Side Cover, Labyrinth seal, shaft seals, etc. with accessories e. Turbine Generator shaft coupling system all complete. f. Fly wheel complete with protection system					

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
A.1.2	Inlet Valve: Main Inlet Valve @ 2 Complete Set with hydraulic operated and closing by counter weight, branch pipe to connect with penstock and turbine with necessary control & operation arrangements, fittings, mountings and other ancillary equipment's in complete set. Electric Motor Operated. (ANDRITZ or VOITH or GEPPERT or FLOVEL or BHEL or EFG Turbien, CINK or Schimmer)					
A.1.3	Governing System: Digital Type @ 2 complete set having PID and PLC Function consisting of controller and hydraulic servo system complete as per specifications. The product must be from the following reputed brands. (ANDRITZ, VOITH, GEPPERT, FLOVEL, BHEL, EFG Turbien, CINK or Schimmer)					
A.1.4	Cooling Water System Drainage and Dewatering System, Lubricating and Pressure Oil System, Compressed Air System etc. Complete (Air, Oil & Water System). @ 1 complete Set					
A.1.5	Synchronous Generator @ 2 lot					

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
	Synchronous generator with rating of 650 kVA , 0.4kV, 3 phase, 0.8 pf, 50 Hz \pm 3%, class 'F' insulation, 8 Pole, 750 RPM, brussless excitation, terminal equipment like neutral grounding Trasnformer and accessories CT's, PTs, LA/SC and other auxiliary system with contineous duty and 10% contineously overload capacity all complete. The product must be from the following reputed brands. (ANDRITZ or VOITH or GEPPERT or FLOVEL or BHEL or EFG Turbien, CINK or Schimmer)					
A.1.6	Auxillary equipment					
a	Electrically Operated Travelling(EOT) crane 15 t system complete with accessories @ 1 Lot complete set					
b	Fire fighting System all complete 5 sets 7Kgs CO2 fire extinguisher @ 1 Lot Complete Set					
c	Illumunation and Ventilating System @ 1 Lot Complete set					
A.1.7	Control Panel					
A.1.7.1	Turbine Generator Control Panel @ 2 lot complete Set The turbine generator control panel consists of Turbine Control, generator control, excitation control, synchronization unit, auxiliaries load control with all the metering. The breakdown details are mentioned below.(ABB,Siemens,CG,SCHNEIDER,GE,Fuji or equivalnet)					

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
a)	Turbine Control,Protection,Metering, Instrumentation and Annunciation Panel (relays shall be as per single line diagram)					
b)	Excitation control /Unit control board with AVR / Auto Power Factor Control Panel all complete with accessories(Generator Excitation System)					
c)	Generator Control panel, ACB breaker panel with control,metering, protection all complete					
d)	Automatic synchronizing panel complete with accessories compatible for the generating units					
A.1.7.2	LTAC(0.4kV) Panel and DC Distribution Cubicles. The switchgears must be from ABB,Siemens,CG,SCHNEIDER,GE,Fuji or equivalent. @ 1 Lot Complete set					
A.1.7.3	11kV Line Breaker Panel(Transformer Breaker) complete with over current relay, earth fault relay, master trip relay, metering devices indoor type The switchgears must be from ABB,Siemens,CG,SCHNEIDER,GE,Fuji or equivalent. 1 Lot Complete Set					
A.1.8	Outdoor Switchyard Equipment					
A.1.8.1	Transformer:1500 kVA, 50 Hz, 3 Phase, 0.4/11 kV Setup Power Transformer with Buchholz relay, sudden gas pressure release valve, temperature rise relay, differential relay with complete accessories including neutral CT. @ 1 Complete Set					

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
A.1.8.2	11 kV, 800 A, 25 kA Vacuum Circuit Breaker cubicle complete with all accessories. The product must be from the following reputed brands @ 1 Complete Set					
A.1.8.3	11 kV, 630 A Disconnecting Switches without earth switch complete with all accessories @ 1 Complete Set					
A.1.8.4	11 kV, 630 A Disconnecting Switches with earth switch complete with all accessories @ 1 Complete Set					
A.1.8.5	9 kV, 10 kA, Lightning arrester outdoor station type with surge monitor @ 2 Complete Set					
A.1.8.6	11 kV, Current transformer 2 complete set 150/1-1-1 A, 5P20, 20 VA, 0.5, 20 VA.					
A.1.8.7	11kV, Potential transformer complete set with power fuse protection $11000/\sqrt{3}/110/\sqrt{3}$ @ 2 Complete Set					
A.1.8.8	Galvanized steel structure for , busbar gantry and equipment (e.g. CB, CT, PI, LA, isolators) for 11kV System supporting frame complete with bolts, nuts and all accessories. @ 1 Lot Complete Set					
A.1.8.9	Busbars, conductors and different connectors to complete the specified scope of works. @ 1 Lot Complete Set					
A.1.8.10	Necessary jointing kits @ 1 Lot Complete Set					

BILL OF QUANTITIES**Bill NO. 15 : ELECTROMECHANICAL**

Ref. Dwg No. :

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
A.1.8.11	Earthing System to connect Switchyard Equipment to existing earth to achieve less than 1 Ohm with all complete. @ 1 Lot Complete Set					
A.1.9	DC & UPS System					
A.1.9.1	DC Power Source, 100V, 200Ah NiCd Batteris with Charger System having redundant SCR Units. @ 1 lot complete set					
A.1.10	Cables					
A.1.10.1	1.1 kV Copper armoured power & Control Cables for Powerhouse & Switchyard Complete, Water level sensor cable and all termination and jointing kit to complete the scope of work (The rating of the cable is done as per the current rating of the connecting equipments). @ 1 Lot complete set					
1502	Spare parts for above (Provisional Sum) as per Section 6, Technical Specification	1	Provisional Sum (PS)	4,000,000	Four Million Rupees and No Paisa	4,000,000
				Sub Total of this Page		
				Total of Bill No.15		

BILL OF QUANTITIES**Bill NO.16 : ENVIRONMENTAL MITIGATION AND MOINITORING WORKS**

Item	Description	Qty	Unit	Rate NRS.		Amount
				In figures	In words	NRS
1601	Environmental Mitigation and Monitoring Works, Provisional Sum	Provisional Sum (PS)	1	500,000	Five Hundred Thousand Rupees and No Paisa	500,000
Sub Total of this Page						
Total of Bill No.16						

BILL OF QUANTITIES**Bill NO. 17 : SCHEDULE OF DAY WORKS**

Item	Description	Unit	Quantity	Rate NRS.		Amount NRS.
				In figures	In words	
1701	LABOR					
1701.1	Skilled Labour	Person/days	1			
1701.2	Semi Skilled Labour	Person/days	1			
1701.3	Unskilled Labour	Person/days	1			
1701.4	Security Gaurd	Person/month	1			
1701.5	Helper Mechanics	Person/month	1			
1701.6	Light Vehicle Driver	Person/days	1			
1701.7	Runner	Person/days	1			
1701.8	Survey Helper	Person/days	1			
1701.9	Welder	Person/days	1			
1702.10	Supervisor	Person/days	1			
1702.11	Foreman	Person/days	1			
1702.12	Heavy Vehicle Driver	Person/days	1			
1702	MATERIALS					
1702.1	Cement Ordinary Portland or equivalent in 50 kg bag	bags	1			
1702.2	Local Chimeny Bricks	Nos.	1			
1702.3	Block Stone	cum.	1			
1702.4	Crushed mixed Aggregates	cum.	1			
1702.5	Different Sizes of River Bed Screening river Pebbles	cum.	1			
1702.6	River Bed Sand	cum.	1			
1702.7	Different Sizes TMT Bar					
Sub total for this page						

BILL OF QUANTITIES**Bill NO. 17 : SCHEDULE OF DAY WORKS**

Item	Description	Unit	Quantity	Rate NRS.		Amount NRS.
				In figures	In words	
	a) 8 mm dia	kg	1			
	b) 10,12,16,20, 25mm dia	kg	1			
	c) 28,32 mm dia	kg	1			
1702.8	Different Sizes TOR Steel					
	a) 8mm dia TOR steel	kg	1			
	b) 10-25mm TOR steel	kg	1			
	c) 28-32mm TOR steel	kg	1			
1702.9	Different Sizes TOR Steel					
	a) 4.75, 7 mm dia	kg	1			
1702.10	Binding Wire	kg	1			
1702.11	Different type of wood					
	Sal wood	cum	1			
	Local soft Wood	cum.	1			
1702.12	CGI Sheets 24 swg	sqm.	1			
1702.13	Barbed Wire					
	12 guage commercial,Medium duty	kg	1			
1703	EQUIPMENTS (Including Driver/Operator, Feul)					
1703.1	Light Vehicle (Car, Jeep)	Day	1			
1703.2	Excavator, Wheel (Upto 110 HP)	Hr.	1			
1703.3	Excavator, Track (Upto 110 HP)	Hr.	1			
1703.4	Fork Lift Truck (Upto 2.5 ton)	Hr.	1			
Sub total for this page						

BILL OF QUANTITIES**Bill NO. 17 : SCHEDULE OF DAY WORKS**

Item	Description	Unit	Quantity	Rate NRS.		Amount NRS.
				In figures	In words	
1703.5	Generator* (Upto 10 KVA)	Hr.	1			
1703.6	Generator* (10+ to 30 KVA)	Hr.	1			
1703.7	Water Pump (Upto 4" DIA)	Hr.	1			
1703.8	Roller 3, Wheel (Upto 12 ton)	Hr.	1			
1703.9	Truck, Flat Bed/ Crane (Upto 7 ton)	Hr.	1			
1701.10	Mini Truck	Hr.	1			
1704.11	Tractor (Upto 85 HP)	Hr.	1			
Sub total for this page						
Total of Bill No. 17						

BILL OF QUANTITIES**Bill NO.18 : OPERATION AND MAINTANANCE**

Item	Description	Qty	Unit	Rate NRS.		Amount NRS
				In figures	In words	
1801	Remuneration					
1801.1	Manager	12	Provisional Sum/ Person/ Month	50,000	Fifty Thousand Rupees and No Paisa	600,000
1801.2	Operator (3 nos.)	36	Provisional Sum/ Person/ Month	30,000	Thirty Thousand Rupees and No Paisa	1,080,000
1801.3	Office Assistant (1 no.)	12	Provisional Sum/ Person/ Month	18,000	Eighteen Thousand Rupees and No Paisa	216,000
1801.4	Peon (1 no.)	12	Provisional Sum/ Person/ Month	28,000	Twenty Eight Thousand Rupees and No Paisa	336,000
1802	Miscellaneous (For 12 months operation)	1	Lump Sum			
				Sub total for this page		
				Total of Bill No. 18		

Section 5 - Eligible Countries

No nationality restrictions apply, other than any restrictions arising from ITB 4.7