

BIDDING DOCUMENT
For
THE PROCUREMENT OF
Khwopa Aspatal Parisar Sahayak Puwadhar Nirman
Karya (Finishing Karya)

National Competitive Bidding (NCB)
Single-Stage: Two-Envelope Bidding Procedure

Bhaktapur Municipality

Office of Municipal Executive

Byasi, Bhaktapur

Issued on: October 7th, 2026

Invitation for Bids No.: bktmun/NCB/works/01/083/84

NCB No.:

Contract Identification No.: bktmun/NCB/works/01/083/84

Abbreviations

BD	Bidding Document
BDF	Bidding Forms
BDS	Bid Data Sheet
BOQ	Bill of Quantities
COF	Contract Forms
DP	Development Partners
DoLI	Department of Local Infrastructure
e-GP	Electronic Government Procurement
ELI	Eligibility
EQC	Evaluation and Qualification Criteria
EXP	Experience
FIN	Financial
GCC	General Conditions of Contract
GoN ¹	Government of Nepal
ICC	International Chamber of Commerce
IFB	Invitation for Bids
ITB	Instructions to Bidders
JV	Joint Venture
LIT	Litigation
NCB	National Competitive Bidding
NRs.	Nepalese Rupees
PAN	Permanent Account Number
PPA	Public Procurement Act
PPMO	Public Procurement Monitoring Office
PPR	Public Procurement Regulations
PL	Profit & Loss
PS	Provisional Sum
SBD	Standard Bidding Document
SCC	Special Conditions of Contract
TS	Technical Specifications
VAT	Value Added Tax
WRQ	Works Requirements

¹ “GoN” word indicates all public entities according to Public Procurement Act, 2063

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Invitation for Bids
Government of Nepal (GoN)
Bhaktapur Municipality
Office of Municipal Executive
Byasi, Bhaktapur

Invitation for Bids No: **bktmun/NCB/works/01/083/84**

Date of publication: **October 7th, 2026**

1. **Bhaktapur Municipality, Office of Municipal Executive** has allocated funds or received grant from **GoN** towards the cost of **Khwopa Aspatal Parisar Sahayak Puwadhar Nirman Karya** and intends to apply part of the funds to cover eligible payments under the Contract **Khwopa Aspatal Parisar Sahayak Puwadhar Nirman Karya (Finishing Karya) Contract Identification No.: bktmun/NCB/works/01/083/84**. Bidding is open to all eligible as per Section V of bidding document.
2. **Bhaktapur Municipality, Office of Municipal Executive** invites sealed bids from eligible bidders for the construction of **Khwopa Aspatal** under National Competitive Bidding – Single Stage Two Envelope Bidding procedures.

Only eligible bidders with the following key qualifications should participate in this bidding:

- Minimum Average Annual Construction Turnover of the best 3 years within the last 10 years:
NRs 3,50,00,000/-
 - Minimum Work experience of similar size and nature: **1 project in building construction of NRs 1,16,50,000/-**
3. Under the Single Stage, Two Envelope Procedure, Bidders are required to submit simultaneously two separate sealed envelopes, one containing (i) the Technical Bid and the other (ii) the Price Bid, both in turn enclosed in one sealed envelope as per the provision of ITB 21 of the Bidding Document.

Or

~~Bidder who chooses to submit their bid electronically, Bidders are required to submit two separate bid response documents, one containing (i) the Technical Bid and the other (ii) the Price Bid, as per the provision of ITB 21 of the Bidding Document.~~
 4. Eligible Bidders may obtain further information and inspect the Bidding Documents at the office of

Name and location: - **Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur**

telephone and facsimile numbers: - 016614813, 016610096

email address: - vojana.bhaktapurmun@gmail.com, bhaktapurmuni@gmail.com

5. A complete set of Bidding Documents may be purchased from the office **Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur** by eligible Bidders on the submission of a written application, along with the *copy of company/firm registration certificate*, and upon payment of a non-refundable fee of **NRs. 5000** till **October 28th, 2026, 12:00 Hrs.** in the account as specified below.

Information to deposit the cost of bidding document in Bank:

Name of the Bank: **Nepal Bank Limited**

Name of Office: **Bhaktapur Municipality**

Office Code no.: **80333402**

Account no.: **01903000001001000003**

Rajaswa (revenue) Shirshak no.: **14213**

₹

~~Bidders who choose to submit their bid electronically may download the bidding documents for e-submission from PPMO's e-GP system www.bolpatra.gov.np/egp at no cost.~~

6. Pre-bid meeting shall be held at **Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur** at **October 15th, 2026, 13:00 Hrs.**
7. Sealed ~~or electronic~~ bids must be submitted to the office **Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur** by hand/courier ~~or through PPMO's e-GP system www.bolpatra.gov.np/egp~~ on or before **12:00 Hrs.** on **October 28th, 2026**. Bids received after this deadline will be rejected.
8. The bids will be opened in the presence of Bidders' representatives who choose to attend at **October 28th, 2026, 13:00 Hrs.** at the office of **Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur**. Bids must be valid for a period of **90(ninety) days** from the bid submission deadline and must be accompanied by a bid security or scanned copy of the bid security in pdf format in case of e-bid, amounting to a minimum of **NRs. 8,00,000/-** which shall be valid for 30 days beyond the validity period of the bid (**February 25th, 2027**)
9. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid and bid security shall remain the same as specified for the original last date of bid submission.

Part I: BIDDING PROCEDURES

Section I: Instructions to Bidders (ITB)

This section specifies the procedures to be followed by Bidders in the preparation and submission of their Bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

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Section I: Instructions to Bidders

A. General	
1. Scope of Bid	1.1 In connection with the Invitation for Bids indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of Works as specified in Section VI (Works Requirements). The name, identification, and number of lots (contracts) / multiple contracts of the National Competitive Bidding (NCB) 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 through e-GP system or email or fax or courier; (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 GoN Funded: In accordance with its annual program and budget, approved by the GoN, the implementing agency indicated in the BDS plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued. Or Public Entities' own Resource Funded: In accordance with its annual program and budget, approved by the public entity, the implementing agency indicated in the BDS plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued. Or DP Funded: The GoN has applied for or received financing (hereinafter called “funds”) from the Development Partner (hereinafter called “the DP”) indicated in the BDS toward the cost of the project named in the BDS. The GoN intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued. 2.2 DP Funded: Payment by the DP will be made only at the request of the GoN and upon approval by the DP in accordance with the terms and conditions of the financing agreement between the GoN and the DP (hereinafter called the “Loan/Grant Agreement”), and will be subject in all respects to the terms and conditions of that Loan/Grant Agreement. No party other than the GoN shall derive any rights from the Loan Agreement or have any claim to the funds.
3. Fraud and Corruption	3.1 Procuring Entities as well as Bidders, suppliers and contractors and their sub-contractors shall adhere to the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this; (a) the Employer adopts, for the purposes of this provision, the terms as defined below:

	(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) “obstructive practice” means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an investigation; (b) making false statements to investigators in order to materially impede an investigation; (c) failing to comply with requests to provide information, documents, or records in connection with an investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding GoN/DP’s contractual rights of audit or access to information; and vi) “integrity violation” is any act which violates Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of GoN/DP sanctions, retaliation against whistleblowers or witnesses, and other violations of Anticorruption Policy, including failure to adhere to the highest ethical standard. (b) the Employer 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) DP will cancel the portion of the financing allocated to a contract if it determines at any time that representative(s) of the GoN/or of a beneficiary of DP-financing engaged in corrupt, fraudulent, collusive, or coercive practices or other integrity violations during the procurement or the execution of that contract, without the GoN having taken timely and appropriate action satisfactory to DP to remedy the situation. d) DP will impose remedial actions on a firm or an individual, at any time, in accordance with DP’s Anticorruption Policy and related Guidelines (as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in DP-financed, -administered, or -supported activities or to benefit from an DP-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 (e) The Contractor shall permit the GoN/DP to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the GoN /DP, if so, required by the GoN/DP. 3.2 The Bidder shall not carry out or cause to carry out the following acts with an intention to influence the implementation of the procurement process or the procurement agreement: (a) give or propose improper inducement directly or indirectly,
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	(b) distortion or misrepresentation of facts, (c) engaging in corrupt or fraudulent practice or involving in such act, (d) interference in participation of other competing bidders, (e) coercion or threatening directly or indirectly to cause harm to the person or the property of any person to be involved in the procurement proceedings, (f) collusive practice among bidders before or after submission of bids for distribution of works among bidders or fixing artificial/uncompetitive bid price with an intention to deprive the Employer the benefit of open competitive bid price, (g) Contacting the Employer with an intention to influence the Employer with regards to the bids or interference of any kind in examination and evaluation of the bids during the period from the time of opening of the bids until the notification of award of contract. 3.3 PPMO, on the recommendation of the Procuring Entity may blacklist a Bidder for a period of one (1) to three (3) years for its conduct including on the following grounds and seriousness of the act committed by the bidder: (a) if convicted by a court of law in a criminal offence which disqualifies the Bidder from participating in the contract, (b) if it is established that the contract agreement signed by the Bidder was based on false or misrepresentation of Bidder's qualification information, (c) if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for, or in executing, a GoN/DP-financed contract. (d) if the Successful Bidder fails to sign the Contract. (e) if the bidder fails to inform or informs after the specified time about the saturation of the maximum number of contracts as per ITB 4.10. (f) a Bidder requests for withdrawal or modification of its bid: (i) after the Bid Submission deadline and during the period of validity specified by the Bidder on the Letter of Technical Bid and Price Bid, in case of electronic submission; (ii) from the period twenty-four hours prior to bid submission deadline up to the period of bid validity specified by the Bidder on the Letter of Technical Bid and Price Bid, in case of hard copy submission. (g) if the bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification as per ITB 27.1. (h) a Bidder changes the prices or substance of the bid while providing information pursuant to ITB 27.1. 3.4 A bidder declared blacklisted and ineligible by the GoN, Public Procurement Monitoring Office (PPMO), by a competent authority under the prevailing law for failure to repay a loan disbursed by a bank or financial institution, and/or the DP in case of DP funded project, shall be ineligible to bid for a contract during the period of time determined by the GoN, PPMO, the competent authority, and/or the DP. 3.5 In case of a natural person or firm/institution/company which is already declared blacklisted and ineligible by the GoN, any other new or existing firm/institution/company owned partially or fully by such Natural person or Owner or Board of director of blacklisted firm/institution/company; shall not be eligible bidder. 3.6 Furthermore, Bidders shall be aware of the provisions of GCC 28.3 and GCC 72.3(j).
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4. Eligible Bidders	4.1 A Bidder may be a natural person, private entity, or government owned entity subject to ITB 4.5 or any combination of them in the form of a Joint Venture (JV) under an existing agreement, or with the intent to constitute a legally-enforceable joint venture. In the case of a JV: (a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. Maximum number of JV shall be as specified in the BDS and (b) the JV 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 JV during the bidding process and, in the event the JV 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 V (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, or incorporated, 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 sub-contractors or suppliers for any part of the Contract including related services. 4.3 A Bidder shall not have a conflict of interest. A Bidder 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. 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 the same subcontractor in more than one bid; or (f) a Bidder or any of its 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 as Engineer for the Contract. (h) a Bidder that has a close business or family relationship with a professional staff of the Procuring Entity. 4.4 A firm that is under a declaration of ineligibility by the GoN in accordance with ITB 3, at the date of the deadline for bid submission or thereafter, shall be disqualified. A firm shall not be eligible to participate in any procurement activities under an DP-financed, -administered, or -supported project while under temporary suspension or
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	debarment by DP pursuant to the DP's Anticorruption Policy (see ITB 3), whether such debarment was directly imposed by the DP, or enforced by other DPs pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a temporary suspended or debarred firm will be rejected.
	4.5 Enterprises owned by Government shall be eligible only if they can establish that they are legally and financially autonomous and operate under commercial law, and that they are not a dependent agency of the GoN.
	4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.
	4.7 Firms shall be excluded in any of the cases, if (a) 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, Nepal prohibits any import of goods or contracting of works or services from that country or any payments to persons or entities in that country. Where Nepal prohibits payments to a particular firm or for particular goods by such an act of compliance, that firm may be excluded; (b) DP Funded: as a matter of law or official regulation, Nepal prohibits commercial relations with that country, provided that the DP is satisfied that such exclusion does not preclude effective competition for the supply of goods or related services required; (c) DP Funded: a firm sanctioned or temporarily suspended by the DP in relation to their guidelines or appropriate provisions on preventing and combating fraud and corruption in projects financed by them.
	4.8 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.
	4.9 The Bidder, including all parties constituting the Bidder, shall be ineligible to participate in the open competitive bidding process if it has already secured maximum number of construction contracts (in open competitive bidding) as specified in BDS and has not yet completed the work as stipulated in the respective contracts
	4.10 For the purpose of ITB 4.9 above, the bidder shall declare that the bidder, and all parties constituting the Bidder have not already secured maximum number of construction contract (in open competitive bidding) as specified in BDS . If the bidder, and all parties constituting the Bidder has participated in bidding processes of many public entities and during that period the maximum number of contracts have been attained as specified saturates due to issuance of letters of acceptance by a particular public entity, the bidder shall inform in writing to all other concerned public entities, where the bidder have participated in bidding process, within three days of issuance of last letter of acceptance that saturates the maximum number of contracts as specified.
5. Eligible Materials, Equipment and Services	5.1 The materials, equipment and services to be supplied under the Contract shall have their origin in any source countries as defined in accordance with Section V (Eligible Countries) 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 Documents	
6. Sections of Bidding Document	6.1 The Bidding Document consist 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 I Instructions to Bidders (ITB) Section II Bid Data Sheet (BDS) Section III Evaluation and Qualification Criteria (EQC) Section IV Bidding Forms (BDF) Section V Eligible Countries PART II Requirements Section VI Works Requirements (WRQ) Section VII Bill of Quantities (BOQ) PART III Conditions of Contract and Contract Forms Section VIII General Conditions of Contract (GCC) Section IX Special Conditions of Contract (SCC) Section X Contract Forms (COF) 6.2 The Invitation for Bids (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 Invitation for Bids. 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document and to furnish with its bid all information and documentation as is required by the Bidding Documents. 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 of the Bidding Document shall contact the Employer in writing at the Employer’s address indicated in BDS or raise any question or curiosity 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 within the period as mentioned in ITB 7.5. 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 upon 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 as mentioned in BDS .
	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 addendum or several 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. However, the time available to submit bids shall not be less than five (5) days since amendment in bidding document.
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 in accordance with ITB 19; (c) alternative Technical Bid, 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) 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. The Joint Venture agreement, or letter of intent to enter into a Joint Venture including a draft agreement shall indicate at least the parts of the Works to be executed by the respective partners; (h) list of subcontractors, in accordance with ITB 34 (If any); and (i) Any other documents required in the BDS. 11.3 The Price Bid shall comprise the following: (a) Letter of Price Bid; (b) completed Bill of Quantities (BoQ), 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) Table of Price adjustment (if applicable) ; and (e) Any other document required in the BDS. 11.4 The Bidder is solely responsible for the authenticity of the submitted documents. 11.5 The Technical Bid shall not include any financial information related to the Price Bid. A Technical Bid containing such material financial information shall be declared non-responsive.
12. Letter of Bid and Schedules	12.1 The Letters of Technical Bid and Price Bid, Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms in Section IV (Bidding Forms) and in Section VII (Bill of Quantities). 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.
13.	13.1 Unless otherwise specified in the BDS , alternative bids shall not be considered.

Alternative Bids	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 evaluated Bidder whose Bid Price is closest to the Average Bid Price 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 VI (Works Requirements). The method for their evaluation will be stipulated in Section III (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 VII (Bill of Quantities). In case of Unit Rate 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 price in the Letter of Price Bid may result in 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 If so indicated in ITB 1.1 and ITB 35.4, bids are 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.
	14.6 Unless otherwise provided in the BDS and the Conditions of Contract, the prices quoted by the Bidder shall be fixed. If the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Table of Adjustment Data in Section IV (Bidding Forms) and the Employer may require the Bidder to justify its proposed indices and

	weightings.
	14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 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. Currency of Bid and Payment	15.1 The currency of the bid and payment shall be in Nepalese Rupees.
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 IV (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 III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section IV (Bidding Forms).
18. Period of Validity of Bids	18.1 Bids shall remain valid for the period specified in the BDS. The bid validity period shall start from the bid submission deadline as prescribed by the Employer in accordance with ITB 22.1. If the prescribed bid submission deadline date falls on a government holiday, then the next working day shall be considered as the bid submission deadline date. In such case the validity period of the bids shall be considered from the original bid submission deadline date. In the case of electronic bid submission, if any technical issue arises in the handling of the e-GP system, the PPMO may extend the deadline for bid submission. However, the validity period of the bids shall still be counted from the original bid submission deadline. 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 30 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 and to include any additional conditions against the provisions specified in Bid Documents.
19. Bid Security	19.1 The Bidder shall furnish as part of its bid, in original form, a bid security as specified in the BDS. In case of e-submission of bid, the Bidder shall upload scanned copy of Bid security letter at the time of electronic submission of the bid. The Bidder accepts that the scanned copy of the Bid security shall, for all purposes, be equal to the original. The details of original Bid Security and the scanned copy submitted with e-bid should be the same otherwise the bid shall be non-responsive. 19.2 The bid security shall be, at the Bidder's option, in any of the following forms:

	(a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law or; (b) a cash deposit voucher in the Employer's Account as specified in BDS. In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV (Bidding Forms) or in another Form acceptable to the employer. The form must include the complete name of the Bidder. The bid security shall be valid for minimum thirty (30) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2. A bid security valid for a shorter period shall be rejected by the Employer as nonresponsive.
	19.3 The bid security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.
	19.4 Any bid not accompanied by an enforceable and substantially compliant bid security shall be rejected by the Employer as nonresponsive. In case of e- Submission, if the scanned copy of an acceptable Bid Security letter is not uploaded with the electronic Bid then Bid shall be rejected.
	19.5 The public entity shall return the bid securities except those that are to be forfeited as per ITB 19.6 to the respective bidders within three (3) days after the successful bidder has furnished the required performance security and signed the Contract Agreement pursuant, to ITB 40.1 and ITB 41.1.
	19.6 The bid security shall be forfeited if: GoN funded: (a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 18.2: (i) during the period of bid validity specified by the Bidder on the Letter of Technical Bid and Price Bid, in case of electronic submission; (ii) from the period twenty-four hours prior to bid submission deadline up to the period of bid validity specified by the Bidder on the Letter of Technical Bid and Price Bid, in case of hard copy submission. (b) a Bidder changes the prices or substance of the bid while providing information pursuant to clause 27.1; (c) a Bidder involves in fraud and corruption pursuant to clause 3.1; (d) the successful Bidder fails to: (i) furnish a performance security in accordance with ITB 35.5, ITB 35.8 and ITB 40.1; or (ii) sign the Contract in accordance with ITB 41.1; or (iii) accept the correction of arithmetical errors pursuant to clause 33.1; (e) if the bidder fails to inform about the saturation of the maximum number of contracts as per ITB 4.10. DP funded: The bid security shall be forfeited (a) if 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) if the successful Bidder fails to (i) furnish a performance security in accordance with ITB 35.5 and ITB 40.1; or (ii) sign the Contract in accordance with ITB 41.1; or (iii) accept arithmetical corrections in accordance with ITB 33.1. 19.7 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 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. In case of e-submission of bid, the Bidder shall submit his bid electronically in PDF or web forms files as specified in ITB Clause 21.1(b). 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. All pages of the bid, except for un amended printed literature, shall be signed or initialed by the person signing the bid. 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 Unless otherwise specified in BDS, Bidders shall submit their bids by electronic or by mail/by hand/by courier. Procedures for submission, sealing and marking are as follows: (a) Bidders submitting bids by mail, by hand or by courier shall enclose the original of the Technical Bid, and the original of the Price Bid and each copy of the Technical Bid and Price Bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as “ORIGINAL TECHNICAL BID”, “ORIGINAL – PRICE BID”, “ALTERNATIVE” and “COPY No. – TECHNICAL BID” and “COPY NO. PRICE BID” These envelopes containing the original and the copies shall then be enclosed in one single envelope. (b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in this clause. i. The bidder is required to register in the e-GP system

<https://www.bolpatra.gov.np/egp> following the procedure specified in e-GP guideline.

- ii. Interested bidders may either purchase the bidding document from the Employer's office as specified in the Invitation for Bid (IFB) or bidders may download the IFB and bidding document from e-GP system.
- iii. The registered bidders need to maintain their profile data required during preparation of bids.
- iv. The bidder can prepare their technical and price bids using data and documents maintained in bidder's profile and forms/format provided in bidding document by Employer. The bidder may submit bids as a single entity or as a joint venture. The bidder submitting bid in joint venture shall have to upload joint venture agreement along with partner(s) Bolpatra ID provided during bidder's registration.
- v. Bidders (all partners in case of JV) should update their profile data and documents required during preparation and submission of their technical bids.
- vi. In case of bid submission in JV, the consent of the partners shall be obtained through the confirmation link sent to the registered email address and the partners shall have to acknowledge their confirmation.

The required forms and documents shall be part of technical bids.

No.	Document	Requirement	Remarks
1.	Letter of Technical Bid	Mandatory	PDF
2.	Bid Security / Bank Guarantee	Mandatory	PDF
3.	Firm or Company registration Certificate	Mandatory	PDF
4.	VAT and PAN registration Certificate	Mandatory (for domestic bidders only)	PDF
5.	Business Registration Licence	Mandatory	PDF
6.	Tax Clearance Certificate/Tax return submission evidence/evidence of time extension	Mandatory (for domestic bidders only)	PDF
7.	Power of Attorney of Bid signatory	Mandatory	PDF
8.	Joint venture agreement	Mandatory in case of JV Bids Only	PDF
9.	Qualification Documents	Mandatory	Using profile data(financial details, contract details etc.) and Technical Proposal
10.	Additional documents] specified in ITB 11.2 (i)	Mandatory (If any)	PDF

The required forms and documents shall be part of price bids.

No.	Document	Requirement	Remarks
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1.	Letter of Price Bid	Mandatory	PDF
2.	Completed Bill of Quantities (BoQ)	Mandatory	Online Forms
3.	Price Adjustment Table	Mandatory (If applicable)	Online Forms
4.	Additional Documents specified in ITB 11.3 (e)	Mandatory (If any)	PDF

Note:

a) The documents specified as “Mandatory” should be included in e-submission and non-submission of the documents shall be considered as non-responsive bid.

b) Bidders (all partners in case of JV) should verify/update their profile documents as appropriate for the specific bid before submitting their bid electronically.

vii. After providing all the details and documents, two separate bid response documents i.e technical bids and price bids will be generated from the system. Bidders are advised to download and verify the response documents prior to bid submission.

viii. For verifying the authentic user, the system will send one time password (OTP) in the registered e-mail address of the bidder. System will validate the OTP and allow bidder to submit their bid.

ix. Electronically submitted bids can be modified and/or withdrawn through system. The bidder may modify their bids multiple times online within bid submission date and time specified in e-GP system. Once a Bid is withdrawn, bidder won't be able to submit another bid response for the same bid.

x. The Bidder / Bid shall meet the following requirements and conditions for e-submission of bids;

aa) The e-submitted bids must be readable through PDF reader.

bb) The facility for submission of bid electronically through e-submission is to promote transparency, non-discrimination, equality of access, and open competition in the bidding process. The Bidders are fully responsible to use the e- submission facility properly in e-GP system as per specified procedures and in no case the Employer shall be held liable for Bidder's inability to use this facility.

cc) When a bidder submits electronic bid through the PPMO e-GP portal, it is assumed that the bidder has prepared the bid by studying and examining the complete set of the Bidding documents including specifications, drawings and conditions of contract.

21.2. The inner and outer envelopes shall:

(aa) bear the name and address of the Bidder;

(bb) be addressed to the Employer as provided in BDS 22.1;

(cc) bear the specific identification of this bidding process indicated in BDS 1.1; and

21.3 The outer envelope and the inner envelope containing Technical Proposal 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 envelope 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. In case of e-submission, the standard time for e-submission is Nepal Standard Time as set out in the server. The e-procurement system will accept the e-submission of bid from the date of publishing of notice and will automatically not allow the e-submission of bid after the deadline for submission of bid. 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, and Modification of Bids	24.1 A Bidder may withdraw, or modify its bid- Technical or Price - after it has been submitted either in hard copy or by e-submission. Once a Bid is withdrawn, bidder shall not be able to submit another bid for this bidding process. Procedures for withdrawal or modification of submitted bids are as follows: (i) Bids submitted in Hard Copy GoN Funded: a) Bidders may withdraw or modify its bids by sending a written notice in a sealed envelope, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.2. The corresponding modification of the bid must accompany the respective written notice. All notices must be: (aa) prepared and submitted in accordance with ITB 20 and ITB 21, and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL”, “MODIFICATION;” and (bb) received by the Employer twenty; four hours prior to the deadline prescribed for submission of bids, in accordance with ITB 22. DP Funded: A Bidder may withdraw 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 that withdrawal notices do not require copies). The corresponding 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 that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” and “MODIFICATION;” and (b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22. ii) E-submitted bids.

	a) Bidder may submit modification or withdrawal prior to the deadline prescribed for submission of bids through e-GP system by using the forms and instructions provided by the system.
	24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall not be opened. In case of hard copy submission, the Bid will be returned unopened to the Bidders.
	24.3 The following provisions apply for withdrawal or modification of the Bids: GoN Funded: (i) In case of bids submitted in hard copy no bid shall be withdrawn or modified in the interval between 24 hours prior to the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof. (ii) In case of e-submitted bids no bids shall be withdrawn or modified in the interval between deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Technical Bid and Price Bid or any extension thereof. DP Funded: No Bid may be withdrawn 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.
	24.4 Except in case of any modification or correction in bid document made by procuring entity, Bidder may submit request for withdrawal or modification only one time.
	24.5 In case of hard copy bid, no bid may be withdrawn if the bid has already been modified; except in case of any modification or correction in bid document by procuring entity.
	24.6 Request for withdrawal or modification must be made through the same medium of submission. Request for withdrawal or modifications through different medium shall not be considered.
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 who choose to attend. 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 shall reject the Bid as nonresponsive.
	25.2 The Employer shall download the e-submitted Technical Bid. The e-GP system allows the Employer to download the e-submitted technical bid only after bid opening date and time after login simultaneously by at least two members of the Bid Opening Committee.
	25.3 Electronically submitted Technical Bid shall be opened at first in the same time and date as specified above. Electronic Bids shall be opened one by one and read out. The e-submitted technical bids must be readable through open standards interfaces. Unreadable and or partially submitted bid files shall be considered incomplete.
	25.4 Thereafter, 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. Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding bid. No Technical Bid and/or Price Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at bid opening. Only the Technical Bid, 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 Bid shall be opened one at a time, reading out: the name of the Bidder; whether there is a modification; the presence of a bid security and any other details as the Employer may consider appropriate. Only Technical Bids read out and recorded at bid opening shall be considered for evaluation. No bid shall be rejected at 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, or modification; and the presence or absence of a bid security. 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.
	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 at least 7 days' 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; (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, modifications, and alternative offers read out and recorded during the opening of Price Bids shall be considered for evaluation. 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, modifications 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.
E. Evaluation and Comparison of Bids	
26. Confidentiality	26.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids and recommendation of Contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders.
	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. In case of e-submission of bid, upon notification from the employer, the bidder shall also submit the original of documents comprising the Technical and Price Bid as per ITB 11.2 and ITB 11.3 for verification of submitted documents for acceptance of the e-submitted bid.
	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 shall 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 Bid	29.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.2 have been submitted. If any of these documents or information (except alternative Technical Bid which is optional) is missing, the bid shall be rejected.
	29.2 In case of e-submission bids, the Employer shall confirm that all the documents and information requested in ITB 21.1 have been submitted. If any of these documents

	or information is missing, the bid shall be rejected.
30. Determination of 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 11.2.
	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 VI (Works 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.
	30.5 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation.
	30.6 Except in case of e-submission, the Price Bid of the bidder, which is evaluated as substantially non-responsive in technical bid, shall be returned to the respective bidders.
31. Non-conformities Errors, and Omissions	31.1 Provided that a bid is substantially responsive, the Employer may waive any non-conformities 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 methods indicated in Section III (Evaluation and Qualification Criteria).
	31.4 If the monetary value of such non-conformities is found to be more than fifteen percent of the Bid Price of the bidder pursuant to ITB 31.3 , such bid shall be considered nonresponsive and shall not be involved in evaluation.
32 Eligibility and Qualification of the Bidder	32.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meet the eligibility and qualifying criteria specified in Section III (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. If two or more companies or firms have been merged prior to the submission of the bid, the qualifications of the companies or firms existing prior to such merger shall be deemed to form part of the qualifications of the resulting merged firm or company.
	32.3 An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. 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. Correction of Arithmetical Errors	33.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis: (a) only for unit price 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.
	33.2 If a Bidder does not accept the correction of arithmetical errors, its bid shall be disqualified and its bid security shall be forfeited.
34 Subcontractors	34.1 In case of Prequalification, the Bidder's Bid shall name the same subcontractor as submitted in the prequalification application and approved by the Employer. In case of Post-qualification, the Employer may permit subcontracting for certain specialized works as indicated in Section III When subcontracting is permitted by the Employer, the sub-contractor shall meet the qualifications criteria as indicated in section III. Sub-contractors' qualification and experience will not be considered for evaluation of the Bidder. The Bidder on its own (without taking into account the qualification and experience of the sub-contractor) should meet the qualification criteria.

	Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the BDS .
35. Evaluation of Price Bids	35.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.
	35.2 To evaluate a Price Bid, the Employer shall consider the following: (a) the bid price, excluding Value Added Tax, and Provisional Sums, in the Summary Bill of Quantities, for Unit Rate Contracts, or Schedule of Prices for lump sum Contracts, but including Day work items, where priced competitively; (b) adjustment for correction of arithmetic errors in accordance with ITB 33.1; (c) adjustment due to discounts offered in accordance with ITB 14.4; (d) adjustment for nonconformities in accordance with ITB 31.3; (e) application of all the evaluation factors indicated in Section III (Evaluation and Qualification Criteria) If the evaluated Bid Price of the Bidder is more than 30 (thirty) percent below or substantially higher than the cost estimate, the Employer shall reject the Bid as non-responsive.
	35.3 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.
	35.4 If this Bidding Document allows Bidders to quote separate prices for different lots (Contracts), and to award multiple Contracts to a single Bidder as specified in BDS , 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 III (Evaluation and Qualification Criteria).
	35.5 If the bid for a Unit Rate Contract, evaluated as per ITB 36.1, is front-loaded or has quoted abnormally high rate for any item believing that the item was underestimated, the Employer shall require the Bidder to provide clarification along with detailed rate analysis, for any or all items of the Bill of Quantities as per ITB 27.1. The rate analysis submitted shall be analyzed and compared against prevailing norms and rates, on the basis of the work execution methodology, technology, and management methods specified by the bidder. If the clarification is deemed unsatisfactory, the Employer shall require that the amount of the performance security be increased at the expense of the Bidder as specified in BDS.
	35.6 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation.

	35.7 If all the Bids evaluated are substantially higher than the cost estimate, the employer may negotiate with the bidder who submitted the lowest evaluated substantially responsive Bid to propose a lump sum discount rate in order to bring the bid price within the approved cost estimate. However, no change in the substance of the bid is permitted during the negotiations. 35.8 If no agreement can be reached as per ITB 35.7, the employer shall cancel the procurement proceedings.
36. Comparison of Bids	36.1 The Employer shall evaluate all the bid prices of the substantially responsive bids in accordance with ITB 35.2. The Employer shall determine the Average Bid Price of all the substantially responsive Bids. The Bid Price which is closest to the Average Bid Price AND is not substantially higher than the cost estimate shall be selected for awarding the contract. In case two or more Bid Prices are determined to be equally closest to the Average Bid Price, the Bid Price which is below the Average Bid Price shall be selected for awarding the contract. 36.2 While evaluating the Bid Price as per ITB 36.1, if the Bid Price of two or more Bidders is found to be equal, the Employer shall select the bid for awarding the contract by drawing of lots in presence of Bidders' designated representatives who choose to attend in date, time and place as notified by the Employer in writing to the concerned bidders. The Bidders' representatives who are present shall be requested to sign a record evidencing their attendance. The omission of a Bidder's signature on the record or the absence of a Bidder during the drawing of lots shall not invalidate the contents and the effect of the record. The method of drawing of lots shall be determined by the Employer.
37. Employer's Right to Accept Any Bid, and to Reject Any or All Bids	37.1 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. 37.2 The public entity shall give notice of the rejection of bids or the cancellation of the procurement proceedings pursuant to ITB 37.1, along with the reasons for such rejection or cancellation, to all bidders. 37.3 Where any bidder requests, within thirty (30) days of the communication of the notice pursuant to ITB 37.2, the grounds for the rejection of all bids or the cancellation of the procurement proceedings, the public entity shall provide such information to that bidder.
F. Award of Contract	
38. Award Criteria	38.1 The Employer shall award the Contract to the Bidder whose Bid Price is selected as per ITB 35.7, ITB 36.1 or ITB 36.2 and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

39. Letter of Intent to Award the Contract/Notification of Award	39.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 38.1 within seven days of the selection of the bid, in writing that the Employer has intention to accept its bid and the information regarding the name, address and amount of selected bidder shall be given to all other bidders who submitted the bid. 39.2 After issuance of the notice under ITB 39.1 if the concerned bidder provides information pursuant to ITB 4.10 regarding saturation of maximum number of contracts, the employer shall disqualify the bidder and shall select the next Bidder whose Bid Price is closest to the previously determined Average Bid Price in accordance with ITB 38.1 and notify accordingly as per ITB 39.1. 39.3 If no bidder submits an application pursuant to ITB 42 within a period of seven days of the notice provided under ITB 39.1, the Employer shall, accept the bid selected in accordance with ITB 38.1 and Letter of Acceptance shall be communicated to the selected bidder prior to the expiration of period of Bid validity, to furnish the performance security and sign the contract within fifteen days. 39.4 After communicating letter of acceptance under ITB 39.3, if the concerned bidder provides information pursuant to ITB 4.10 regarding saturation of maximum number of contracts, the employer shall reject the bid of that bidder and shall select the next Bidder whose Bid Price is closest to the previously determined Average Bid Price in accordance with ITB 38.1 and shall issue the notice accordingly as per ITB 39.1. In such case bid security of the rejected bidder shall not be forfeited.
40. Performance Security	40.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in an amount equal to 5 (five) percent of the Bid Price in accordance with the Conditions of Contract and subject to ITB 35.5, from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal using Sample Form for the Performance Security included in Section X (Contract Forms), or another form acceptable to the Employer. The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal. The Bid Price shall be without VAT but including Provisional Sum. 40.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security. In that event the Employer may award the Contract to the next Bidder whose Bid Price is closest to the previously determined Average Bid Price in accordance with ITB 38.1 whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily. The process shall be repeated according to ITB 39.
41 Signing of Contract	41.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 40.1. 41.2 At the same time, the Employer shall affix a public notice on the result of the award on its notice board and make arrangement for causing such notice to be affixed on the notice board also of the District Coordination Committee, District Administration Office, Provincial Treasury and Controller Office and District Treasury and Controller Office. The Employer may make arrangements to post the notice into its website, if it has; and if it does not have, into the website of the Public Procurement

	Monitoring Office, identifying the bid and lot numbers and the following information: (i) the result of evaluation of bid; (ii) date of publication of notice inviting bids; (iii) name of newspaper; (iv) reference number of notice; (v) item of procurement; (vi) name and address of bidder making contract and (viii) contract price
	41.3 Within thirty (30) days from the date of issuance of notification pursuant to ITB 39.1 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 to any unsuccessful Bidder who, requests for debriefing.
	41.4 If the bidder whose bid has been accepted fails to sign the contract as stated ITB 40.1, the Public Procurement Monitoring Office shall blacklist the bidder on recommendation of the Public Entity.
42. Complaint and Review	42.1 If a Bidder is dissatisfied with the Procurement proceedings or the decision made by the Employer in opening of the price bid or the intention to award the Contract, it may file an application to the Chief of the Public Entity within Seven (7) days of providing the notice under ITB 25.8 and ITB 39.1 by the Public Entity, for review of the proceedings stating the factual and legal grounds.
	42.2 Late application filed after the deadline pursuant to ITB 42.1 shall not be processed.
	42.3 The chief of Public Entity shall, within five (5) days after receiving the application, give its decision with reasons, in writing pursuant to ITB 42.1: (a) whether to suspend the procurement proceeding and indicate the procedure to be adopted for further proceedings; or (b) to reject the application. The decision of the chief of Public Entity shall be final for the Bid amount up to the value as stated in 42.4.
	42.4 If the Bidder is not satisfied with the decision of the Public Entity in accordance with ITB 42.3, or the decision is not given within five (5) days of receipt of application pursuant to ITB 42.1, it can, within seven (7) days of receipt of such decision, file an application to the Public Procurement Review Committee of the GoN, stating the reason of its disagreement on the decision of the chief of Public Entity and furnishing the relevant documents, provided that its Bid amount, equal or more than Rupees Twenty Million (NRs. 20,000,000). The application may be sent by hand, by post, by courier, or by electronic media at the risk of the Bidder itself.
	42.5 Late application filed after the deadline pursuant to ITB 42.4 shall not be processed.
	42.6 Within three (3) days of the receipt of application from the Bidder, pursuant to ITB 42.4, the Public Procurement Review Committee shall notify the concerning Public Entity to furnish its procurement proceedings, pursuant to ITB 42.3.
	42.7 Within three (3) days of receipt of the notification pursuant to ITB 42.6, the Public Entity shall furnish the copy of the related documents to the Public Procurement Review Committee.
	42.8 The Public Procurement Review Committee, after inquiring from the Bidder and the Public Entity, if needed, shall give its decision within thirty (30) days of the

	receipt of the application filed by the Bidder, pursuant to ITB 42.4.
	42.9 The Bidder, filing application pursuant to ITB 42.4, shall have to furnish a cash amount or Bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law equivalent to ten percent (10 %) of amount of bid security in case of complaint against decision pursuant to ITB 25.8 and one percent (1%) of its quoted Bid amount in case of complaint against decision pursuant to ITB 39.1 with the validity period of at least ninety (90) days from the date of the filing of application pursuant to ITB 42.4.
	42.10 If the claim made by the Bidder pursuant to ITB 42.4 is justified, the Public Procurement Review Committee shall have to return the security deposit to the applicant, pursuant to ITB 42.9, within seven (7) days of such decision made.
	42.11 If the application submitted by the Bidder pursuant to ITB 42.4 is dismissed by the Public Procurement Review Committee, the security deposit (Cash or Bank Guarantee) submitted by the Bidder pursuant to ITB 42.9 shall be forfeited.
	42.12 If the Employer does not implement the decision of the Public Procurement Review Committee, the bidder may file an application to the Public Procurement Review Committee.

Section II: Bid Data Sheet

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section I. Instructions to Bidders.

A. General	
ITB 1.1	The number of the Invitation for Bids is: bktmun/NCB/works/01/083/84
ITB 1.1	The Employer is: Bhaktapur Municipality, Office of Municipal Executive.
ITB 1.1	Multiple Contract or lots (contracts) is “not applicable”.
ITB 2.1	The name of the Project is Khwopa Aspatal Parisar Sahayak Puwadhar Nirman Karya (Finishing Karya) Contract Identification No.: bktmun/NCB/works/01/083/84. The implementing agency is Bhaktapur Municipality, Office of Municipal Executive. GoN Funded or DP Funded: GoN Funded
ITB 4.1 (a)	For GoN Funded: Maximum number of partners in a joint venture shall be: 3 (three)
ITB 4.4	<i>For GoN: www.ppmo.gov.np</i> <i>For DP: [insert website address for the list of debarred firms]</i>
ITB 4.9 & ITB 4.10	For GoN Funded: The Bidder, including all parties constituting the Bidder, shall be ineligible to participate in the open competitive bidding process if it has already secured five (5) number of construction contracts (in open competitive bidding) and has not yet completed the work as stipulated in the respective contracts. Following Procurement of Works contracts shall not be counted for this purpose: a) The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D). b) The works for which tender were invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR. c) The works for which tenders were invited or contracts accepted under all types of foreign assistance.
B. Bidding Document	
ITB 7.1	For clarification purposes only, the Employer’s address is: Attention: Bhaktapur Municipality, Office of Municipal Executive. Address: Byasi, Bhaktapur Telephone: 01-6614813, 016610096 Electronic mail address: vojana.bhaktapurmun@gmail.com , bhaktapurmuni@gmail.com

ITB 7.4	A Pre-Bid meeting “shall” held. Pre-Bid Meeting will Take place at the following date, time and place. Date: October 15th, 2026 Time: 13:00 Hrs. Place: Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur A site visit “shall not be” organized by the Employer.
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no later than 10 days prior to the deadline for submission of bids.
C. Preparation of Bids	
ITB 10.1	The language of the bid is: English / Nepali
ITB 11.2 (i)	The Bidder shall submit with its Technical Bid the following additional documents: <i>All mandatory documents issued in this Standard Bidding Document</i>
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 Unit Rate Contracts and Schedule of Prices for lump sum contracts: <i>“not applicable”</i> .
ITB 11.3 (e)	The Bidder shall submit with its Price Bid the following additional documents: <i>“not applicable”</i> .
ITB 13.1	Alternative bids <i>shall not be</i> permitted.
ITB 13.2	Alternative times for completion <i>shall not be</i> permitted. <i>If alternative times for completion are permitted, the evaluation method will be as specified in Section III (Evaluation and Qualification Criteria).</i>
ITB 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: <i>NA</i>
ITB 14.6	The prices quoted by the Bidder <i>shall not be</i> subject to adjustment during the performance of the Contract.
ITB 18.1	The bid validity period shall be: <i>Ninety (90) days.</i>
ITB 19.1	The Bidder shall furnish a bid security, from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal with a minimum of <i>NRs. 8,00,000/-</i> which shall be <i>valid for 30 days beyond the validity period of the bid.</i>
ITB 19.2 (b)	Office Name: Bhaktapur Municipality Bank Name: Nepal Bank Limited Bank Address: Bhaktapur Account Number: 01903000003000000003 Office Code: 80333402
ITB 20.1	In addition to the original of the bid, the number of copy/ies is/are: <i>“not applicable”</i> .

ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate: (a) The name and description of the documentation required to demonstrate the authority of the signatory to sign the Bid such as a Power of Attorney; and (b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
D. Submission and Opening of Bids	
ITB 21.1	Bidders shall have the option of submitting their bids <i>by hand / by courier</i> .
ITB 22.1	For bid submission purposes only, the Employer's address is: Attention: Planning and Technical section, Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur The deadline for bid submission is: Date: October 28th, 2026 Time: 12:00 Hrs.
ITB 25.1	The Technical Bid opening shall take place at: Address: Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur Date: October 28th, 2026 Time: 13:00 Hrs.
E. Evaluation and Comparison of Bids	
ITB 34.1	Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: 0%
ITB 35.4	Bidders are "not permitted" to quote separate prices for lots (Contracts), and a single Bidder will be awarded multiple lots (Contracts) based on provision of Paragraph 1.2, Multiple Contracts Section III (Evaluation and Qualification Criteria) :
ITB 35.5	The amount of the performance security be increased by Eight (8) percent of the quoted bid price without VAT but Including PS.

Section III: Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders by post-qualification exercise. GoN/DP requires bidders to be qualified by meeting predefined, precise minimum requirements. The method sets pass-fail criteria, which, if not met by the bidder, results in disqualification. In accordance with ITB 32 and ITB 35, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section IV (Bidding Forms).

1. Evaluation

In addition to the criteria listed in ITB 35.2 (a) - (e) the following criteria shall apply:

Note:

Use the evaluation criteria listed below as appropriate and required for the project.

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 VI (Works Requirements).

Non-compliance with equipment and personnel requirements described in Section VI (Works Requirements) shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

1.2 Multiple Contracts

Multiple Contracts, if permitted under ITB 35.4, will be evaluated as follows:

Award Criteria for Multiple Contracts [ITB 35.4]:

Bidders have the option to Bid for any one or more Contracts. Bids will be evaluated taking into account discounts offered, if any, for combined contracts. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined contracts, subject to the selected Bidder(s) meeting the required qualification criteria for combination of multiple contracts as the case may be.

Qualification Criteria for Multiple Contracts:

The criteria for qualification shall be the sum of the minimum requirements for respective individual contracts as specified under items 2.3.2, 2.3.3, 2.3.4 and 2.4.2 b.

With respect to the **Contracts of Similar Size and Nature** under item 2.4.2(a) of Section III, the

evaluation shall be done as below:

N is the minimum number of contracts required as per Specific Construction Experience (2.4.2(a)).

V is the minimum value of a single contract as per Note (2), ~~or~~ (3) of 2.4.2 Specific Construction Experience.

- i. Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the bidder has submitted bids as follows, and N1,N2,N3, etc. shall be different contracts:

Contract 1: N1 contracts, each of minimum value V1;

Contract 2: N2 contracts, each of minimum value V2;

Contract 3: N3 contracts, each of minimum value V3;

----etc.

Or

- ii. Total number of contracts is equal or less than $N1 + N2 + N3$ --but the total value of all such contracts is equal or more than $N1 \times V1 + N2 \times V2 + N3 \times V3$ +---.

1.3 In Case, other than Multiple Contracts

Bidders have the option to Bid for any one or more Contracts. The contracts will be awarded to the Bidder or Bidders offering the **substantially responsive Bid closest to the Average Bid Price** to the Employer, subject to the selected Bidder(s) meeting the required qualification which shall be the sum of the minimum requirements for respective individual contracts. Under this case, the Contract shall be awarded based on Least Cost Combination to the Employer.

1.4 Completion Time

An alternative Completion Time, if permitted under ITB 13.2, will be evaluated as follows:

[insert project specific requirements]

1.5 Alternative Technical Solutions

Alternative technical solutions, if permitted under ITB 13.4, will be evaluated as follows:

[insert project specific requirements]

1.6 Quantifiable Nonconformities and Omissions

Subject to ITB 14.2 and ITB 35.2, the evaluated cost of quantifiable nonconformities including omissions, is determined as follows:

[Insert in bidding document: “Pursuant to ITB 31.3, the cost of all quantifiable nonmaterial nonconformities shall be evaluated, but excluding omission of prices in the BoQ. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of bids.”]

2. Qualification

2.1 Eligibility

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.1.1 Nationality					
Nationality in accordance with ITB sub-clause 4.2	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid, Forms ELI –1; ELI – 2 with attachments
2.1.2 Conflict of Interest					
No conflicts of interest in accordance with ITB Sub-Clause 4.3.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
2.1.3 Government/ DP Eligibility					
Not having been declared ineligible by government /DP, as described in ITB Sub-Clause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
2.1.4 Government-owned Entity					
Bidder required to meet conditions of ITB Sub-Clause 4.5.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid, Forms ELI - 1, ELI - 2, with attachments
2.1.5 UN Eligibility					

Not having been declared ineligible based on a United Nations resolution or Employer's country law, as described in ITB Sub-Clause 4.7.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
2.1.6 Bidder's Running Contracts					
Bidders have not yet secured five (5) number of construction Contracts ² (in open competitive bidding) as described in ITB Sub-Clause 4.9.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid, Form ELI-3
2.1.7 Other Eligibility					
Firm or Company Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Business Registration License	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
VAT and PAN Registration certificate (<i>only for domestic bidders</i>)	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Tax Clearance Certificate or Tax return submission evidence or evidence of time extension for the <i>F/Y 2082/83(Only for domestic bidders)</i>	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Additional requirements <i>[Insert if any]</i>					

² Following Procurement of Works contracts shall not be counted for this purpose:

- The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D)
- The works for which tender have been invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR.
- The works for which tenders were invited or contracts accepted under all types of foreign assistance.

2.2 Pending Litigation

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

2.2.1 Pending Litigation

All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than 50% percent of the Bidder's net worth.	must meet requirement by itself or as partner to past or existing JV	not applicable	must meet requirement by itself or as partner to past or existing JV	not applicable	Form LIT - 1
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2.3 Financial Situation**2.3.1 Historical Financial Performance**

Submission of audited balance sheets and income statements, for the last three years to demonstrate the current soundness of the Bidder's financial position. As a minimum, a 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
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2.3.2 Average Annual Construction Turnover

Minimum average annual construction turnover of NRs 3,50,00,000/- calculated as total certified payments received for construction contracts in progress or completed, within best three years out of last ten fiscal years.	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN -2
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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

Using Forms FIN - 3 and FIN - 4 in Section IV (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets ³ , unencumbered real assets, and other financial resources, (other than any contractual advance payments) to meet the cash-flow requirement of NRs. 1,45,00,000/-	must meet requirement	must meet requirement	must meet 25 % of the requirement	must meet 40 % of the requirement	Form FIN - 3
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Note:

(6) Construction cash flow requirement for a number of months (to the nearest half-month), determined as the total time needed by the Employer to pay a contractor's invoice, allowing for (a) the actual time consumed for construction, from the beginning of the month invoiced, (b) the time needed by the Project Manager to issue the monthly payment certificate, (c) the time needed by the Employer to pay the amount certified, and (d) a contingency period of one month to allow for unforeseen delays. The total period should not exceed three months for estimated cost (without VAT and contingencies but including PS) more than NRs. 250 Millions and for estimated cost (without VAT and contingencies but including PS) less than NRs. 250 Millions, the total period should not exceed 5 months. The assessment of the monthly amount should be based on a straight-line projection of the estimated cash flow requirement over the particular contract period, neglecting the effect of any advance payment and retention monies, but including contingency allowances in the estimated contract cost.]

2.3.4 Required Bid Capacity

The bidding capacity of the bidder should be equal to or more than the NRs 2,35,00,000/-	must meet requirement	must meet requirement	must meet 25 % of the requirement	must meet 40 % of the requirement	Form FIN - 4 and Form FIN - 5
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Note:

(9) The amount stated should be 80 % to 100 % of Engineer's Estimate (without VAT and Contingencies but including Provision Sum) in round figure

³ Liquid Assets mean cash and cash equivalents, short-term financial instruments, short term available-for-sale-securities, marketable securities, trade receivables, short-term financing receivables and other assets that can be converted into cash within ONE YEAR.

2.4 Experience

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirement
		All Partners Combined	Each Partner	One Partner	
2.4.1 General Construction Experience					
Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last 3 years prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP - 1

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirement
		All Partners Combined	Each Partner	One Partner	
2.4.2 Specific Construction Experience					
(a) Contracts of Similar Size and Nature					
(i) For Works with Estimated value (without VAT & Contingency but including PS) up to NRs. 100 million					
Participation as Prime contractor, management contractor, or subcontractor , within the last ten (10) years , that have been successfully or are substantially ^a completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described; 1. Dachii Brick works 2. Tile and granite flooring	must meet requirement, in at least One (1) Contract with a value of at least NRs 1,16,50,000/- in building construction	not applicable	not applicable	must meet requirement, in at least One (1) Contract with a value of at least NRs 1,16,50,000/- in building construction	Form EXP – 2(a)

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.

^a A contract for which a Taking-Over Certificate has been issued shall be considered as substantially completed.

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

(b) Construction Experience in Key Activities*					
Participation as Prime contractor, management contractor, or subcontractor, within a last ten (10) years, For the above or other contracts stipulated in 2.4.2(a) above, a minimum annual production rate on construction experience in the following key activities that have been successfully or substantially ^a completed: <i>[list activities indicating number or rate of production as applicable; for the key activity (ies) in the subject contract. The rates should be about 80% of the estimated annual production rates of the key activity(ies) in the subject contract as needed to meet the expected construction schedule with due allowance for adverse climatic conditions. Contract duration less than one year shall be considered one year for calculation of annual production rates.]</i>	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
I) Brick masonry works in 1:4 c/s = 142 cum					
II) Dachii Brick work in 1:4 c/s = 430 sqm					

2.5 Subcontractors

The experience and financial capacity of the sub-contractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

The sub-contractors proposed shall be fully qualified for their work proposed, and meet the following criteria:

2.5 (a) Nature of Works that can be sub contracted:

(i)

(ii)

Note: Employer should specify the nature of work, if sub-contracting is permitted.

2.5 (b) Qualification Criteria

The proposed sub-contractor shall meet the following requirements:

- 1) Within the last ten (10) years, completion of at least NRs.(5)..... *for work of a similar nature to the work being subcontracted.*
- 2) Minimum average annual construction turnover for the work being sub contracted of NRs(6)....., calculated as total certified payments received for construction contracts in progress or completed, within best three years out of last ten fiscal years.

Note: Delete 2.5(b) if 2.5(a) is not applicable

(5) 80% of the value in Nepalese Rupees (NRs).

*(6) The amount stated should not be less than $1.5 * V/T$ where V is the proposed value of sub contract works and T is estimated time in year for which the intended sub-contracting work is to be completed. For intended Sub contracting work duration of up to 1 year, T shall be "1".*

Section IV: Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of its Bid.

Letter of Technical Bid

The Bidder must accomplish the Letter of Technical Bid in its letter head clearly showing the Bidder's complete name and address.

Date:

Name of the contract:

Invitation for Bid No.:

To: **[Insert Complete name of 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) Clause 8.
- (b) We offer to execute in conformity with the Bidding Documents the following Works: **[Insert Description of the works]**
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of **[insert 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 and meet the requirements of ITB 3.4, & ITB 3.5
- (e) We are not participating, as a Bidder or as a subcontractor, 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.
- (f) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by DP, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (g) [We are not a government owned entity] / [We are a government owned entity but meet the requirements of ITB 4.5];¹
- (h) We declare that, 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 and we have not been punished for an offense relating to the concerned profession or business.
- (i) We declare that we are solely responsible for the authenticity of the documents submitted by us. The document and information submitted by us are true and correct. If any document/information given is found to be concealed at a later date, we shall accept any legal actions by the Employer.
- (j) We agree to permit the Employer/DP 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 the Employer.

- (k) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the requirements set forth in Section VI (Works Requirement) and our technical proposal, or as otherwise agreed with the Employer.
- (l) We declare that we have not yet secured five (5)⁴ number of construction contract (in open competitive bidding) as described in ITB Sub-Clause 4.9.

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

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

Signed *[signature of the person whose name and capacity are shown above]*

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

Date *[insert date of signing]*

¹ Note: Use one of the two options as appropriate.

⁴ Note: Following Procurement of Works contracts shall not be counted for this purpose:

- a) The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D).
- b) The works for which tender have been invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR.
- c) The works for which tenders were invited or contracts accepted under all types of foreign assistance.

Letter of Price Bid

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

Date:

Name of the contract:

Invitation for Bid No.:

To: *[Insert Complete name of 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) Clause 8;

We offer to execute in conformity with the Bidding Documents the following Works: *[Insert Description of the works]* .

- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: *[Insert one of the options below as appropriate]* or when left blank is the Bid Price indicated in the Bill of Quantities.

Option 1, in case of single contract: Total price is: *[insert the total price of the Bid in words and figures]*;

Or

Option 2, in case of multiple lots (contracts): (i) Total price of each lot (contracts): *[insert the total price of each lot in words and figures]*; (ii) Total price of subject contract [say Lot1] and Lot2 [another contract] *[insert the total price in words and figures]*; (iii) Total price of subject contract [say Lot1] and Lot3 [another contract] *[insert the total price in words and figures]*; Total price of subject contract [say Lot1], Lot2 [another contract], Lot3 [another contract],*[insert the total price in words and figures]*;

- (d) The discounts offered and the methodology for their application for subject contract [single contract] are:..... [For Bidding Documents not provisioning multiple contracts]

Add following if Bidding Document provisions applicability of multiple contracts:

The discounts offered and the methodology for their application for subject contract [say Lot1] and Lot2 [another contract] are:.....

The discounts offered and the methodology for their application for subject contract [say Lot1] and Lot3 [another contract] are:.....

The discounts offered and the methodology for their application for subject contract [say Lot1], Lot2 [another contract] and Lot3 [another contract],....., are:.....

[Note:

1. Formulate possible combinations depending upon the number of lots under Bidding Process and modify accordingly Paragraph (c) and (d)]

(e) Our bid shall be valid for a period of *[insert validity period as specified in ITB 18.1]* 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 Document;

(g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract:⁵

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 bid **closest to the Average Bid Price** or any other bid that you may receive; and

(j) We declare that we are solely responsible for the authenticity of the documents submitted by us.

(k) We agree to permit the Employer/DP 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 the Employer.

Name: *[insert complete name of the person signing the Bid]*.....

In the capacity of *[insert legal capacity of person signing the Bid]*.....

Signed *[signature of the person whose name and capacity are shown above]*

Duly authorized to sign the Bid for and on behalf of *[insert complete name of the Bidder]*.....

Date *[insert date of signing]*.....

⁵ If none has been paid or is to be paid, indicate "None".

Table of Price Adjustment Data⁶

[To be used if Price Adjustment is applicable as per GCC 53.1]

Code	Index Description	Source of Index*	Base Value and Date	Employer's Proposed Weighting Range (coefficient)	Bidder's Proposed Weighting (coefficient)**
1	2	3	4	5	6
	Non - Adjustable (A)			0.15	0.15
	Labor (b)				
	Materials (c)***				
	Equipment usage (d)				
		Total			1.00

*Normally following source of index shall apply. Public Entity shall choose applicable Index for each item.

(a) Labor: "National Salary and Wage Rate Index"- "Construction Labor" of Nepal Rastra Bank or rate fixed by District Rate Fixation Committee

(b) Material: "National Wholesale Price Index" - Construction Materials" of Nepal Rastra Bank

(c) Equipment usage: "National Wholesale Price Index" - Machinery and Equipment" of Nepal Rastra Bank or "Fuel" Price fixed by Nepal Oil Corporation.

** Bidders proposed weightings should be within the range specified by the Employer in column - 5

*** The materials can be broken down into major construction materials if necessary. In this case the source of index shall be the specified by Employer, preferably as per the published ex-factory price or published price from the sole authorized seller.

⁶ Non-compliance of the data (stipulated by the bidder in this table) with requirements described here shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

Table of Price Adjustment Data⁷

[To be used if Price Adjustment is applicable as per GCC 53.6]

Code	Construction Material*	Unit	Base Price (NRs/Unit) (Ex-factory)	Source (Factory)**
1	2	3	4	5

* Major construction materials to be specified by Employer in column - 2.

** Base Price and source normally to be specified by Employer (or alternatively informed to be proposed by bidder) in column 4 and 5.

Note:

The base prices of the construction materials shall be taken as of 30 days before the deadline for submission of the Bid as quoted by the Bidder and verified by the Employer. For the purpose of calculation of price adjustment, the Ex-factory price of the same source shall be taken into consideration.

⁷ Non-compliance of the data (stipulated by the bidder in this table) with requirements described here shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

Bid Security

Bank Guarantee

Bank's Name, and Address of Issuing Branch or Office

(On Letter head of the Bank)

Beneficiary:[Insert name and address of Employer]

Date: Bid Security No.:

We have been informed that, [insert name of the Bidder] (hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid") to you for the execution of[Insert name of Contract] under Invitation for Bids No.[insert IFB No.] ("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..... [Insert name of Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of Nepalese Rupees[Insert amount in figures and amount in words} 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 or modifies its Bid:

i) during the period of bid validity specified by the Bidder on the Letter of Technical and Price Bid, in case of electronic submission

(ii) from the period twenty-four hours prior to bid submission deadline up to the period of bid validity specified by the Bidder on the Letter of Technical Bid and Price Bid, in case of hard copy submission; or

(b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or

(c) changes the prices or substance of the bid while providing information pursuant to clause 27.1 of ITB; or

(d) 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

(e) is involved in fraud and corruption in accordance with the ITB; or

(f) if the bidder fails to inform about the saturation of the maximum number of contracts as per ITB 4.10.

This guarantee will remain in force up to and including the date**number**.....days after the deadline for submission of Bids as such deadline is stated in the instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

This Bank guarantee shall not be withdrawn or released merely upon return of the original guarantee by the Bidder unless notified by you for the release of the guarantee.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG), 2010 Revisions, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

...**Bank's seal and authorized signature(s)**...

Note:

The bid security of has been counter guaranteed by the Bank on (Applicable for Bid Security of Foreign Banks).

Technical Proposal Format

Personnel

Equipment

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Personnel

Form PER - 1: Proposed Personnel

Bidders should provide the names of suitably qualified personnel to meet the specified requirements for each of the positions listed in Section VI (Work Requirements). The data on their experience should be supplied using the Form below for each candidate.

No.	Name	Position*	Academic Qualification	Total Work Experience [Years]	Experience in Similar Works [years]
1.					
2.					
3.					
4.					
5.					

* As listed in Section VI (Work Requirements).

Form PER - 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below.

Position*		
Personal 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 over the last twenty years in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

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

Equipment

Form EQU: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section VI (Work Requirements). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

(i) For the equipment under Bidder's ownership

No.	Equipment Type and Characteristics	Total Nos. of Equipment under Bidder's Ownership	No. of Equipment engaged/proposed for ongoing/committed contracts	Nos. of Equipment proposed for this contract
1.				
2.				
3.				
4.				
5.				

(ii) For the Equipment to be leased/hired

No.	Equipment Type and Characteristics	Total Nos. of Equipment under the ownership of lease/hire provider	No. of Equipment engaged/committed for other works	Nos. of Equipment proposed to be leased/hired for this contract
1.				
2.				
3.				
4.				
5.				

Type of Equipment

Equipment Information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment ☐ Owned ☐ Rented ☐ Leased ☐ Specially manufactured	

The following information shall be provided only for equipment not owned by the Bidder.

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

The Bidder shall be solely responsible for the data provided. However, this shall not limit the right of Employer to verify the authenticity of submitted information.

Bidder's Information and Qualification Format

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Bidder's Qualification

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

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, 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 numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. 2. Authorization to represent the firm or JV named in above, in accordance with ITB 20.2. 3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. 4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5.	

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV / Specialist Subcontractor Information	
Bidder's legal name	
JV Partner's or Subcontractor's legal name	
JV Partner's or Subcontractor's country of constitution	
JV Partner's or Subcontractor's year of constitution	
JV Partner's or Subcontractor's legal address in country of constitution	
JV Partner's or Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
1. articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. 2. Authorization to represent the firm named above, in accordance with ITB 20.2. 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.	

Form ELI - 3: Bidder's Running Contracts⁸

Each member of a JV must fill in this form

Bidder's Running Contracts					
Name of office	Contract Identification no.	Source of Fund*	Date of issuance of Letter of Acceptance	Status of contract**	Date of Issuance of Taking Over Certificate***

* Mention GON funded or DP funded or Other PE (Insert name) funded

** Mention "Yet to sign" if contract is not signed, "Running" if contract has been signed and contract is running and "Substantially completed" if taking over certificate has been issued.

*** Insert date of issuance of taking over certificate if the awarded contract has been substantially completed and taking over certificate has been issued.

⁸:Note Following Procurement of Works contracts shall not be counted for this purpose

- The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D).
- The works for which tender have been invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR.
- The works for which tenders were invited or contracts accepted under all types of foreign assistance

Form LIT - 1: Pending Litigation

Each member of a JV must fill in this form

Pending Litigation			
☐ No pending litigation in accordance with Criteria 2.2 of Section III (Evaluation and Qualification Criteria)			
☐ Pending litigation in accordance with Criteria 2.2 of Section III (Evaluation and Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in NRS	Value of Pending Claim as a Percentage on Net Worth

Form FIN - 1: Financial Situation

Each Bidder or member of a JV must fill in this form

Financial Data for Previous 3 Years [in NRS]		
Year 1 :	Year 2 :	Year 3 :

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profit Before Tax			
Profit After Tax			
○ Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three or above years, as indicated above, complying with the following conditions. ○ All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies. ○ Historic financial statements must be audited by a certified auditor. ○ Historic financial statements must be complete, including all notes to the financial statements. ○ Historic 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 or member of a JV must fill in this form

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed to NRs at the end of the period reported.

Annual Turnover Data for the Last 10 Years (Construction only)	
Year	Amount Currency

- **Average Annual Construction Turnover
(Best three years within the last 10 years)**

--

Form FIN - 3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in Section III (Evaluation and Qualification Criteria).

Financial Resources		
No.	Source of financing	Amount (in NRS)
1		
2		
3		

Form FIN – 4: Bid Capacity

Each Bidder or member of a JV must fill in this form

$$\text{Bid Capacity} = [(5 \times A) - B]$$

A = Average Annual Turnover of best three years out of last ten fiscal years.

B = Annual Value of the existing commitments and works (ongoing) to be completed, calculated from **FIN-4**.

SN	Name of Bidder	Pan No.	A, in Million	B, in Million	Bid Capacity, in Million
1					
2					
3					

Total Bid Capacity:

Signature of Bidder

Form FIN- 5: Current Contract Commitments / Works in Progress

Bidders and each partner to a JV 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.

Current Contract Commitments (For Calculation of B with reference of FIN-3)									
No.	Name of Contract	Name of the Contractor/s	Employer's Contact Address, Tel, Fax	Contract Share in % (a)	Contract Amount in Millions (b)	Contract Date(yyyy-mm) (c)	Initial or Revised Contract Duration (months) (d)	Value of outstanding works [In Millions, NRS] [#] (e)	Estimated Time in Month to Complete the outstanding works (f) = (c) + (d) – Date of Invitation of Bid (f)
1									
2									
3									
4									

Signature of Bidder

[#] The Outstanding Works means Contract Price (excluding Vat) minus Work Evaluated by Employer till the reference date. Bidder shall have to submit the relevant documentary evidence to substantiate the facts/figures.

Note 1: “B” shall be calculated as : $B = \sum \left[\frac{(e) \times (a)}{(f)} \right] \times 12$, If (f) is less than 12, then value of (f) shall be taken as 12.

Note 2: If Initial or Revised Contract Date is run out with respect to Date of Invitation of Bid, the Estimated Time in Month to Complete the outstanding works shall be taken equal to 12 months.

Form EXP - 1: General Construction Experience

Each Bidder or member of a JV must fill in this form.

General Construction Experience				
Starting Month Year	Ending Month Year	Year	Contract Identification and Name and Address of Employer Brief Description of the Works Executed by the Bidder	Role of Bidder

Form EXP - 2(a): Specific Construction Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
Contract No..... of.....	Contract Identification		
Award Date		Completion Date	
Role in Contract	☐ Contractor	☐ Management Contractor	☐ Subcontractor
Total Contract Amount	☐ NRS		
If Partner in a JV 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 Criteria 2.4.2 (a) of Section III			
Note : <i>The Employer should insert here contract size, complexity, methods, technology, or other characteristics as described in Section III (EQC), 2.4.2 (a) against which the bidder demonstrates similarity in the box on the right-hand-side.</i>			

Form EXP - 2(b): Specific Construction Experience in Key Activities

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
Contract No..... of.....	Contract Identification		
Award Date		Completion Date	
Role in Contract	☐ Contractor	☐ Management Contractor	☐ Subcontractor
Total Contract Amount	☐ NRS		
If Partner in a JV 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 Criteria 2.4.2 (a) of Section III			
Note : <i>The Employer should insert here production rate(s) for the key activity (activities) subject contract against which the bidder demonstrates in the box on the right-hand-side production rates achieved by him on previous contracts.</i>			

Section V - Eligible Countries

[This section contains the list of eligible countries. Select one option, either GoN Funded or DP Funded.]

For GoN funded: *[with estimate up to NRs. 5 billion]*

For the purpose of ITB 4.2: “**Nepal**”; and

For the purpose of Country-of-Origin ITB 5.1 and GCC 79.2: “**all Countries**”

For DP funded: **[attach list as per their list of eligible countries]**

Part II: REQUIREMENTS

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Section VI: Works Requirements

This Section contains the Scope of Work, Specification, the Drawings, supplementary information that describe the Works to be procured, Personnel Requirements and Equipment Requirements.

Scope of Work

Traditional exterior brickwork

Wall and Ceiling Finishes

- Plastering & Rendering
- Skim Coating / Putty
- Drywall & Framing:
- Cladding & Paneling

Floor Finishes

- Floor Screeding
- Tiling
- Wood/Laminate Flooring
- Carpeting & Vinyl

Painting and Decorating

- Surface Priming
- Interior Painting
- Exterior Painting
- Wood & Metal Polishing

Fixtures and Final Installations

- Doors and Windows
- Joinery & Trim
- MEP Fixtures
- Glazing and Glass

Specifications

Notes on the Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Employer without qualifying or conditioning their Bids. The specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is encouraged by the Funding Agency in case of funding assisted projects. Most specifications are normally written specially by the Employer or Project Manager to suit the Contract Works in hand. The available standard specification of works of Ministry of Physical Infrastructure and Transport, DoLI and Other line Ministries can be adopted for respective civil construction works.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction; however, it may not necessarily be adequate to be used in a particular Works Contract and may necessitate preparation of Particular (Special) Specifications to amend and or supplement the provision of the General Specifications to meet the requirement of the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards of Nepal or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable.

Employers should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in the Procurement Documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential bidders. For example:

The Employer should provide a description of the selected parts of the Works with appropriate references to Drawings, Specifications, Bill of Quantities, and Design or Performance criteria, stating that the alternative solutions if applicable shall be at least structurally and functionally equivalent to the basic design parameters and specifications.

Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Project Manager's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Project Manager at least 30 days prior to the date when the Contractor desires the Project Manager's consent. In the event the Project Manager determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These Notes for Preparing Specifications are intended only as information for the Employer or the person drafting the Procurement Documents. They should not be included in the final documents.

Technical Specification of Civil works

1. Traditional Brick work (Dachi Brick and carnesh work)

Material Specifications

- **Bricks:** First-class, well-burnt, traditional clay bricks. Must be uniform in color, size, and shape, with sharp edges. Free from cracks, flaws, and organic matter. Water absorption must not exceed **15% to 20%** of dry weight after 24 hours of immersion. Compressive strength must meet a minimum of **7.5 N/mm² to 10.5 N/mm²** (depending on local structural codes).
- **Cement:** Ordinary Portland Cement (OPC) or Portland Pozzolana Cement (PPC) conforming to standard national building codes (e.g., IS 269 / ASTM C150), fresh and free from lumps.
- **Sand:** Clean, sharp, well-graded river sand free from clay, silt, and organic impurities. Silt content must not exceed **5%** by volume.
- **Water:** Clean, potable water, free from harmful amounts of acids, alkalis, or organic materials (pH value between 6 and 8).

Workmanship & Execution Specifications

- **Soaking Bricks:** All bricks must be completely immersed in clean water for a minimum of **2 hours** immediately before use, ensuring they are saturated but surface-dry when laid.
- **Mortar Mix Proportions:** Cement mortar mix shall be **1:4** (1 part cement to 4 parts sand) or **1:6** by volume, thoroughly mixed dry before adding water to achieve a workable, uniform consistency. Mortar must be used within **30 minutes** of adding water.
- **Laying and Bonding:** Bricks must be laid in true English or Flemish bond unless specified otherwise. Courses must be perfectly horizontal, and walls must be checked with a plumb bob for strict vertical alignment. Vertical joints must be staggered, avoiding any continuous vertical joints.
- **Joint Thickness:** Horizontal and vertical joints must be uniform, maintained at a thickness of **10mm** (with a strict tolerance of $\pm 2\text{mm}$).
- **Structural Anchoring:** Anchor the outer brick face to the backup wall or concrete structure using galvanized iron (GI) or stainless steel wall ties spaced every **450mm vertically** and **600mm horizontally**.

Finishing & Quality Controls

- **Joint Raking & Pointing:** Face joints must be raked out to a depth of **10mm to 12mm** while the mortar is still green to form a key for subsequent pointing. Pointing must be completed using a rich mortar mix (1:3 cement-sand or specialized lime-cement mix) in a weather-struck or flush finish.
- **Curing:** Completed brickwork must be kept continuously damp by watering for at least **7 to 10 days** to ensure the proper hydration and strength development of the mortar.
- **Cleaning:** The finished exterior brick face must be cleaned down with water and stiff nylon brushes to remove all mortar stains, scum, and efflorescence. **No wire brushes or harsh unbuffered acids** are permitted.

2. Local Brick Works:

The brickwork shall be done with the specified mortar mixing the ingredients in the specified proportion 1:4 c/s mortar. In the case of cement mortar the unit of measurement of cement shall be a bag of cement and sand is specified proportion shall be measured in boxes of suitable size 35cmx25cmx40cm. Sand shall be measured on the basis of its dry volume.

Soaking of Bricks:

All bricks shall be thoroughly soaked in water by submerging them in clean water for at least four hours just before use. The wetted bricks shall be stacked on a clean platform to avoid any contact with mud.

Laying:

The brick laying shall be English/Stretcher bond unless specified other. A layer of mortar shall be spread on full width over a suitable length of the lower course. Each brick shall be properly bedded with frog upward and set in position by gently tapping with handle of trowel or wooden mallet.

Joints:

Brick shall be so laid that all joints are full of mortar. The thickness of joints shall not exceed 1cm. All face joints shall be raked to a minimum depth of 15mm by raking tool during the progress of work. The face of bricks work shall be cleaned on the same day on which brickwork is laid and all mortar droppings removed promptly.

Curing:

Brickworks shall be protected from rain by suitable covering when the mortar is fresh. Masonry work in cement mortar shall be kept constantly moist on all faces for a minimum period of seven days.

Scaffolding:

As per the requirement the scaffolding should be done by the contractor. No extra Charge will be paid for scaffolding.

Measurement:

The measurement of local brick works shall be done in cubic meter.

3. 50mm Thick Screeding, Punning and other Finishing work:

The concrete flooring work is of proportion 1:2:4 and for punning and skirting the cement mortar ration is 1:1 c/s mortar. The material shall be at first mixed dry thoroughly till uniform in

color in the required proportion and then shall be mixed wet adding water slowly and gradually for at least four times to give a uniform paste. So, such material shall be prepared at a time as can be used within the initial setting time(30minutes) of cement.

Preparation of Surface:

The surface of the floor shall be chipped, brushed, cleaned, washed, watered and wetted with water before spreading the cement concrete. To ensure uniform thickness of cement concrete as specified, narrow strips of about 50mm wide plaster shall be applied first at a distance of about 1m center and the gaps between such strips shall immediately be filled up with concrete.

Laying:

The concreting shall be started from corner and worked towards the whole surface shall be made flush with wooden straight edges and rubbed thoroughly with wooden floats to ensure an even surface.

While doing cement rubbing works contractor should make 2feet X 2 feet square box with proper line.

Curing:

The finished surface shall be kept wet by sprinkling water after 12 hours for at least 7 days and shall be protected from rain or sun.

Measurement:

The measurement of finishing work shall be done in square meter. Additional Payment will not be done for chipping and cleaning surface.

4. Porcelain glazed Tile and Granite:

Tiles: The tile material for Vitrified Porcelain Glazed Ceramic tiles (Somany, Kajaria , Nitcho tile), shall conform to IS:777 (respective IS standards) or Equivalent approved by the Engineer. The tiles shall be of approved colour, size and shape or as shown in the drawings and shall be laid to the pattern approved by the Engineer. The tiles shall be of uniform colour, true to size and shape and free from cracks, twists, uneven edges, crazing and other defects. The size and thickness of the tiles shall be as specified. The contractor shall submit samples of tile for selection and approval by the Engineer In-charge and all tiles delivered to the site shall conform to the approved samples with regard to size, quality, texture and colour.

Mixing:

Mixing shall be done as per specification for mortar mixing of brick masonry work

Preparation of Surface and installation

Wall surfaces shall be brushed cleaned and wetted. Prior to installing any tile, the Contractor shall inspect surface and conditions in areas to receive tile work and shall notify the Engineer of any serious defects or conditions that will interfere with or prevent a satisfactory tile installation and shall coordinate with other traders of work.

Approximately 12 mm thick level and plumb, scratch coat of cement mortar 1:4or as specified by site engineer shall be applied. The scratch coat shall be moist cured for at least 24hours before application of floating coat.

Before applying floating coat, the scratch coat shall be thoroughly wetted. The floating coat, plastic mix of neat cement of approximately

3 mm thickness shall be applied even with screeds to true plane. Floating coat shall be applied over areas no larger than can be covered with tile while the mortar is still plastic (half set).

Glazed tile shall be soaked, completely immersed in clean water at least 30 minutes and

drained. Individual tile that exhibits drying along edges shall be allowed to remain on the backs of tile at the time of setting.

Tiles shall be installed by applying a skin coat of a plastic mix of neat cement to backs of tile and firmly pressing tile into the floating coat to true plane and position. White cement shall be used for the skin coat where white joints are required.

During the process of setting tiles, continuous horizontal and vertical cuts every 40cm to 60 cm shall be made through the floating coat while plastic, using the point of a trowel turned edge wise, Care shall be taken to prevent cutting into the scratch coat.

Where full size tile cannot be laid, it shall be cut (sawn) to required size and edges rubbed smooth to ensure a true and straight joint.

All tile work finishing shall be adequately protected from damage during the progress of construction and any damage shall be repaired to the satisfaction of the Engineer at the Contractor's expense.

Joints in Tile Work

Joints in tile work shall be accurately aligned with horizontal joints level and vertical joints plumb. Joints shall be maintained uniformly wide by aligning spacer lugs on tile edges if tiles are so manufactured or by use of wetted strings.

Tile Layout

Tiles shall be laid out in such a way that no tile less than half size occurs. Where tile must be cut at edges or penetrated the cut edges shall be carefully filed and neatly ground. Chipped, cracked or broken tile shall not be used and all defective work shall be replaced and repaired to the satisfaction of the Engineer at the Contractor's expense.

Grouting the Tile Joints

After tiles have been set firm and strings removed, the tiles shall be dampened and joints grouted full with a plastic mix of neat cement by trowel, brush or finger application. Unless otherwise directed, grout shall be white cement. During grouting all excess grout shall be cleaned off the tile surface with damp cloth sponge. The finished floor surface shall be true to required levels. All tile work finishing shall be adequately protected from damage during the progress of construction till completion and any damage shall be repaired to the satisfaction of the Engineer at the Contractor's expense. Upon completion prior to final inspection and acceptance the Contractor shall clean all tile work. Acids or agents liable to damage the work shall be avoided. If tile surface shown as scratches, crack or other imperfections, which cannot be removed by cleaning; the Contractor shall remove the defective material and replace with new material at no additional expense. Sample of workmanship and tile grout proposed (silicone) shall be approved prior to execution of work.

Measurement

The measurement shall be in square meters of the work done including the setting mortar. The rate shall be for the material and labour, all complete.

Porcelain glazed tiles in 1:4 cement sand mortar

Product Specification: as per approved standard of manufactured country

Materials: Ceramic

Thickness: 8-10 mm

1. 8-10mm Thick Homogenous Floor tile (60cm x 60cm) as per instructed by site engineer.

2. 8-10 mm Thick Tiles for wall (30cmx45cm)

- Full Body Homogeneous.
- Tile Adhesive(1sqm/15kgs)

(Color of tile a Pattern Should be approved before Site delivery)

Materials

Cement: as per specification under “Concrete Work”

Sand: As per specification under “Concrete Work”

Granite:

Granite shall be of good quality, 16 ± 2 mm thick, having smooth, hard polished surface, regular in shape, size and of uniform thickness, of good appearance, and of sharp and square edges. It shall be free from cracks and other defects. The color and size shall be as per the instruction of the engineer and drawing. Sample of granite stone to be used shall be submitted to the engineer and his approval should be taken before the bulk purchase. All the granite stone supplied shall conform to the approved sample in all respect.

Proportion

Base Course: 1part cement; 2parts sand and mixing shall be done as per specification for mortar mixing of brick masonry work

Dressing

Each granite stone slab shall be machine cut to required size and shape as specified in the drawings. All angles and edges of the granite slabs shall be true and square and free from chippings and the surface shall be true and plane. The thickness of the stone shall be as specified in the drawings. No tolerance shall be allowed for thickness. The granite slabs shall be mirror polished. All granite stones shall be brought pre-polished to the site. The contractor shall prepare samples and obtain approval of the Engineers before proceeding with the work. The contractor shall ensure that no chisel marks are visible on the surface of the stone before fixing. Stones with chisel marks or broken edges shall be rejected.

Laying

The base shall be made rough and watered and given a cement wash and then the mortar shall be laid in 19-20 mm. thick layers as per instruction of Engineer. After laying mortar, it should be leveled with wooden floats. Proper slope for draining wash water shall be provided as per instruction of the Engineer. And over this, granite stone should be laid; the joints should not be more than 1.5 mm. The joints should be painted with approved colored cement slurry.

Note: At stair edge Granite should be laying double with Double molding with Grooves and metal inlays as per instruction of site engineer.



Granite laying at Staircase

Inlays



Metals inlays (Copper or brass) should be fire resistant, corrosion resistant and long lasting.

Curing

After about 2 hours of laying, the surface shall be covered with wet bags and kept wet and left undisturbed for 2 days.

Finish

Finally, when the surface is absolutely dry, the surfaces shall be rubbed with wax to give a glazing surface, as per instruction of Engineer. Care shall be taken that the floor is not left slippery and that ordinary wax is not used under any circumstances

Measurement

Measurement shall be in square meter of exact length and breadth of the floor. Rate shall

include materials, mixing, laying, curing, finishing and labor etc . all complete.

Color: Should be S- White

(Should be approved before site delivery)

S -White



Granite Skirting work:

Measurement:

The measurement of Tile and Granite works shall be done in square meter (sq.m) Additional Payment will not be done for chipping and cleaning surface.

5. External Wood Works:

(a) Chaku Shin (Purlin)

- Must be well seasoned Sal wood of size 0.075m * 0.1m (3"*4").
- Sal wood Should be Nepali Origin.
- Drilling on slab, placing and fitting with Nut bolts should be done with all complete works as per site condition.
- Joints should be provided properly with chukul and joints within 3 meters will not be considered.
- Contractor should keep suitable color in all purlin as per requirement.
- The rate shall include for specified of materials, labour, scaffolding all complete.

Measurement:

The measurement of Chaku Shin (Purlin) shall be done in cubic meter.

(b) Sipu Bala (Plank)

- Must be well seasoned Salla wood of 20mm thickness, 0.1m width and length as per site.
- Thickness and width of plank will not be compromised.
- Placing of plank with support of purlin should be done with all complete work.
- Contractor should kept suitable color in all plank as per requirement.
- The rate shall include for specified of materials, labour, scaffolding all complete.

Measurement:

The measurement of Sipu Bala (Plank) shall be done in square meter.

(c) Mutha Bala (Eaves Board)

- Must be well seasoned Sal wood of 1 inch thickness, 0.3m width with typical carving.
- Sal wood should be Nepali Origin.
- Thickness and width of eaves board will not be compromised.
- Drilling on slab, placing and fitting with Nut bolts should be done with all complete works as per site condition.
- Contractor should kept suitable color in all Eaves Board as per requirement.
- The rate shall include for specified of materials, labour, scaffolding all complete.

Measurement:

The measurement of Mutha Bala (Eaves Board) shall be done in square meter.

(d) Tona Shin (Strut)

- Must be well seasoned Sal wood of 0.075m*0.1m with horse carving.
- Sal wood should be Nepali Origin.
- Placing of strut should be done properly by proper resting on base kept.
- Should Place Kung surung (Corner strut) as per site requirement.
- Contractor should kept suitable color in all Strut as per requirement.
- Contractor should supply and fitting Strut as same as khwopa Hospital Building
- The rate shall include for specified of materials, labour , scaffolding all complete.

Measurement:

The measurement of Tona Shin (Strut) shall be done in numbers.

6. Lattice Window:

- Sal wood must be from Nepalese origin
- Sal wood must possess
- Highly durability
- Even in colour
- Zero moisture content
- Resistant to termites
- Grain attractive surfaces
- Well-seasoned
- Sal wood should be free from saps, knots, warps, crack
- The rate shall include for specified of materials, labour, scaffolding all complete.

7. Stair Case Railing:

stainless steel handrail:

- Should be stainless
- Should be properly colored
- Should fit with all complete materials
- One number of stainless-steel posts should be kept at starting point

Circular Pipe:

- Diameter 50mm diameter vertical post with 25mm diameter horizontal member and height 3 feet with brass cup for individual Circular Pipe.
- Should be properly colored (two coat enamel with one coat primer).

8. Painting Works

All materials shall be delivered on site intact in the original drums portions and shall be mixed and applied strictly in accordance with the manufacturer's instructions and to the approval of the Engineer. All cement paints and washable distemper shall be applied by brush; emulsion paints shall be applied by means of a brush then rolled. All enamel paints are applied by brush or sprayed, and bitumen and bituminous base aluminum paints are applied by brush. Before application of any paint, adjoining surfaces shall be covered by cloth, or paper and wherever paints stain it shall be removed before leaving the work in same day.

The only addition, which will be allowed to be made locally will be liquid thinners supplied or recommended by the manufacturers and none shall be, thinned more than approved by the Engineer

COLOURS AND PRIMING:

The priming undercoats and finishing coats shall each be of differing tints and the priming and undercoats shall be of the correct types and tints to suit the respective finishing coats in accordance with the following instructions. All finishing coats shall be of colour and tints selected by the Engineer. The paintwork shall have a uniform finish and all paint for external work shall be exterior quality only.

Rubbing Down:

Each coat of paint shall be properly dried and shall be well rubbed down with fine glass as per before the next coat is applied. The paint work shall be finished smooth and free from brush marks.

Samples Cards of all paints, etc., shall be submitted to and samples prepared for approval of the Engineer before laying on and such samples, when approved, shall become the standard for work.

Program:

The contractor shall so arrange his program of work that all other Trades are completed and away from the area to be painted when the painting begins.

Ironmongery, Protection and Cleaning Up:

All ironmongery shall be removed from joinery before painting is commenced and shall be cleaned and renovated if necessary and re-fixed after completion painting.

Cover up all floors, etc., with non-resinous sawdust or other approved covering when executing and all painting decorating work.

Paints splashes, spots and stains shall be removed from floors, woodwork, etc., and damaged surface touched up and the whole of the work left clean upon completion.

Materials:

All paint materials of specified brand shall be obtained from the manufacturer or authorized dealer. All sealers, primers and under coating are to be obtained from the makers of the finishing materials and are to be in accordance with their recommendation for the particular finish required.

Knot Sealer:

For use on knots and resinous portions of wood work.

Stopping and Filling composed of parts putty to one part of stiff white lead.

Lacquer:

Approved polyurethane egg shell clear lacquer applied in accordance with the manufacturer's instructions.

Polish shall be an approved brand of wax polish. Oil shall be best quality linseed oil.

Filler for polished or oiled surfaces to be Bees wax filler.

Wood Preservative:

All wood work, as specified or instructed shall, be treated after cutting and preparation but before assembly or fixing with three coats of solution consisting of one part of Atlas "A" wood preservative brown grade to three parts of water. The solution is to be brushed in all face of all timber sunless exposed to view and painted. This is applicable in the wood frame contact with masonry and roof purling, batten and counter rafter.

The contractor shall note that this solution is HIGHLY POISONOUS and shall take all necessary precautions and instruct his workmen accordingly.

Paint Application:

Painting Items as described here after shall comprise the following, and shall all include for preparing and priming surfaces as above described: -

- **Plastic Emulsion:** Apply a minimum of two coats, using a thinning medium or water only if and as recommended by the manufacturer. An approved plaster primer tinted to match may be substituted for the first coat.
- **Paint:** Apply two under coats and one finishing coat of enamel gloss oil paint.
- **Flat oil paint:** Apply two coats off at oil paint, using thinning medium in accordance with the manufacturer's instructions.
- **Oil:** Apply two coats of linseed oil.
- **Wax Polish:** Apply a minimum of two coats to approval.
- **Lacquer:** Apply three coats of Polythene lacquer as described, to approval.
- **Primer:** Prepare and prime only before fixing.

Molded cornices and coves.

(a) Length shall be measured at the center of the girth.

(b) Molded cornices and coves shall be given in square meter the area being arrived at by multiplying length by the girth.

(c) Flat or weathered top to cornices when exceeding 15 cm in width shall not be included in the girth but measured with the general plasterwork.

(d) Cornices which are curved in their length shall be measured separately.

If the old Paint of existing surface is firm and sound, it shall be cleaned of grease, smoke etc.

The surface shall then be rubbed down with sand paper and dusted. Rusty patches shall be

cleaned up and touched with synthetic enamel paint. If the old Paint is blistered and flaked, it shall be completely removed.

Measurement:

Measurement shall be in square meters of the actual covered area of the paints. Nothing extra shall be allowed for painting any rough surface. The rate shall include for specified coats inclusive of materials, labour, scaffolding all complete.

Premium Emulsion Paints:

The premium Emulsion Paint shall be approved quality and of approved manufacture like (Asian paints, KNP, Berger, Pashupati)

On the plastered/POP surface, paint be prepared with sandpapering, putting, and one coats of primer. The paint is applied in two coats of Premium emulsion with roller or spray. The surface should be properly cleaned and treated with water based primer as per manufacturer's specifications. Rectification of defects in plaster, POP with broken edges should be done by using a proper colour putty, paste as per manufactures specifications.

The surface on which paints applied shall become hard dry in 12 hours. The necessary single / multistage scaffoldings required for the work shall be provided as detailed out under coatings. The equipment, rollers or spray used on the work should be immediately washed with water to facilitate future use. After the first coat of the paint has hardened, the second coat is applied as instructed by the engineer.

Similarly required number of coats shall be given to get an even and uniform shade.

- Technical site- in charge and site supervisor from the contractor's side should always be present at site throughout construction period. He/She will be responsible for coordinating with site Engineer/In charge/supervisor from project office and the labor from the contractor.
- Safety measures should be strictly followed by the construction team within the construction site premises.
- Insurance of the construction workers should be done and managed by the contractor himself. The contractor will solely be responsible for injuries and any accidents that may occur to the workers in the construction site.

Remarks for Unit Rate:

- Unit item rate should include contractor overhead charges.
- All necessary insurance of the labors, related to construction works shall be done by the contractor. In case of any accident happens in site, all expenses including initial and final expenditures should be borne by the contractor.

9. Clay Tile

Roofing tiles are to be clay tile from Harisiddhi Brick Factory or equivalent locally made tile. The clay tile single lap inter-locking at head and side and with ridge tiles etc. to match. They are to be uniform in size, shape and colour and free from twist and other defects, in every respect equal to samples to be deposited with and approved by the Engineer In-charge. Each tile is hooked by 16g GI strap to eaves board (fascia) and in verges too. Before laying tile the gutter should be fixed. Replaced cracked or damaged tiles and clean down and leave roofs watertight on completion.

Measurement

Measurement of works will be made in m² of plan area of works as specified for the width not less than 250mm. Measurement of works for in vertical plane will be made in linear length of m of works as specified for the width less than 250mm.

Payment

Payment for work will be made on the basis of contract unit price indicated in the BOQ. The payment will be full and final compensation for all material, labour, and equipment to complete the works as specified.

10. Clay ridge

The clay ridge cover fitting to the clay tiles shall be used. These covers shall be laid in 1:4 Cement sand mortar over the tile.

Measurement

Measurement of works will be made in m of linear length of works as specified for the width not less than 250mm. Measurement of works for in vertical plane will be made in linear length of m of works as specified for the width less than 250mm.

Payment

Payment for work will be made on the basis of contract unit price indicated in the BOQ. The payment will be full and final compensation for all material, labour, and equipment to complete the works as specified.

11. Wooden Frame Work and Paneled Shutter

The contractor is to clear out and destroy or remove all cut and shavings and other wood waste from all parts of the building and the site generally, as the work progress and at the conclusion of the work.

Carpentry:

All carpentry shall be executed with workmanship of the best quality. Scantling and boarding shall be accurately sawn and shall be of uniform width and thickness throughout. All carpenter's work shall be left with sawn surface except where particularly specified to be wrought. All carpenter's work shall be accurately set out in strict accordance with the drawings and shall be framed together and securely fixed in best possible manner with properly made joints. All necessary brads, sheet metal screws, etc. shall be provided as directed and approved.

Joinery:

All joints shall be accurately set out on boards to full size for the information and guidance of the artisans before commencing the respective works, with all joints, iron work and other works connected therewith fully delineated. Such setting out must be submitted to the Engineer In-charge and approved before such respective works are commenced. All joiner's work shall be cut out and framed together as soon after the commencement of the building as is practicable, but is not to be wedged up or glued until the building is ready for fixing same. Any portions that warp, wind or develop shakes or other defects within six months after completion of the works shall be removed and new fixed in their place on contractor's own expense. All work shall be properly mortises, tenons, house, shouldered, dovetailed, notched, wedged, pinned, braided, etc., as directed and to the satisfaction of the consultants and all properly glued up with the best quality approved glue. Joints in joinery must be as specified or detailed, and so designed and secured as to resist or compensate for any stresses to which they may be subjected. All nails, springs, etc. are to be punched and puttied. Loose joints are to be made where provision must be made for shrinkage, glued joints where shrinkage need not be considered and where sealed joints are required. Glue for load-bearing

joints or where conditions may be damp must be of the resin type. For non-load-bearing joints or conditions may be guaranteed casein or organic glues may be used. All exposed surfaces of joinery work shall be wrought and all arise “eased-off” by planing and sand papering to an approved finish suitable to the specified treatment.

Measurement:

Measurement of works will be made in m³ of works as specified.

Payment:

Payment for work will be made on the basis of contract unit price indicated in the BOQ. The payment will be full and final compensation for all material, labour, and equipment to complete the works as specified.

Panelled shutters

The window shutters may be fully panelled, fully glazed, partly glazed and partly panelled, battened or Venetian as specified. Styles and panels shall be neatly planed and truly finished to exact dimensions. Styles and rails shall be framed properly and accurately with mortise and tenon joints and fixed with bamboo pins as per drawing. Glue shall be applied at all joints before clamping and fixing with bamboo pins. Panels shall be of one piece without any joints and shall be housed with 12.5mm insertion into rails and styles. Panels shall be of thickness as specified in the drawing. All rails above 100mm in width shall have double tenon. No tenon shall exceed 6mm the thickness of the member. In case of swing door, swing door hung in lace shall not be rebated together. It shall be fitted with vision panels.

Measurement

Measurement of works will be made in m² of works as specified.

Payment

Payment for work will be made on the basis of contract unit price indicated in the BOQ. The payment will be full and final compensation for all material, labour, and equipment to complete the works as specified.

UPVC doors and windows

Polyvinyl chloride Resin suspension grade is the basic raw material for forming PVC compound. PVC resin then is mixed with chemicals like Calcium, Stearate, Hydrocarbon Wax, Titanium Dioxide, Calcium Carbonate, and Acrylic processing aids. Further, additives like impact modifiers, pigments, epoxy plasticizer, UV stabilizer, lubricants, chemical blowing agent etc. are added. The purpose of adding the chemicals and additives is to impart cellular structure, strength, surface finish, colour and resistance to fading by light rays. These chemicals are mixed in the desired proportion and shall be used in the formulation of PVC material and for free and smooth extrusion of PVC profiles. The Upvc work as scheduled and detailed shall be fabricated as per the Drawings. Fabricated Upvc work covered by this specification shall be supplied and installed by the well-known local Upvc fabricators or manufacturer as approved by the Engineer. Before placing any orders, the Contractor shall state the name of the window manufacturer he has selected from the list of approved manufacturers. The nominated manufacturer shall not be changed without prior approval of the Engineer. Manufacture Upvc work shall be fabricated in accordance with the standard Manufacturer manual and as per the Drawings showing jointing details, hardware and extrusion profiles. It will be the Upvc fabricator's responsibility to ensure that all fabricated Upvc work is carried out in accordance with the Drawings. The frame and the rebate shall be a monolithic unit. All the members shall be free of stains and any damage. If any damage or defects during delivery or after fitting in position are found, the defects shall be rectified immediately or replaced at the Contractor's expense. The Contractor shall attach all necessary product and quality specification along with the quotation. All the frames and shutters shall be of the same color.

Hardware Fittings

Hinges, handles, knobs, locks, ball catchers, bolts, door stoppers, door closers, door spring adjustable shelf fittings and other hardware fittings for doors and windows shall be of the best quality and of the specified make and approved by the Engineer. The size number, make etc. shall be as per the hardware schedules as shown on drawings or BOQ.

Measurements

It shall be done in square meter of the area done.

Rate

Rate shall be for all labour and materials, accessories, all complete.

Damp Proof Works

Polythene Sheet: To be approved by the Engineer-in-Charge

SANITARY, PLUMBING AND WATER SUPPLY WORKS

1.1 SCOPE

This Specification covers the construction of internal and external water supply, soil, waste, vent and rain water system, installation of toilet fixtures.

1.2 REFERENCE DOCUMENT

The work specified in this section shall be in accordance with the following standards, or approved equal, except as they are modified and supplemented herein:

<u>Code</u>	<u>Subject</u>
IS:778 - 1964	Specification for gunmetal gate, globe and check valves for water, steam and oil only.
IS:780E - 1966	Specification for sluice valves for various purposes.
IS: 781E - 1959	Specification for sand cast brass screw down bib taps and stop taps for water services.
IS:1171 - 1963	Basic requirement of water supply, drainage and sanitation.
IS:1239 - 1968	Specification for M. S. or G. I. Pipes and fittings.
IS:1703 - 1962	Specification for cast iron manhole covers and frames intended for use in drainage work.
IS:1742 - 1960	Code of practice for building drainage.
IS:2065 - 1963	Code of practice for water supply in

building. IS:771 - 1958	Specification for vitreous China sanitary
ware. IS:4985	Specification for UPVC pipe
IS:5382	Specification for rubber seal
ring. ASTM : D 2846	Specification for CPVC pipes

1.3 PIPE SLEEVES

An adequate number of sleeves (pipe inserts) of mild steel shall be provided where pipes pass through concrete, masonry and similar work. The pipe inserts shall have a flange welded in the center around its circumference, in order to provide water tight and secure fixing into the structure. The sizes of the pipe sleeves (pipe inserts) shall be as per the drawings supplied and/ or as given below.

1.3.1 Sleeves through Exterior Walls below Grade

- Sleeves in exterior foundation walls below grade shall project 25 mm beyond the outside surface of the wall and be flush with the inside surface.
- The annular space between the sleeve and the pipe shall be caulked with un-tarred oakum and sealed with approved caulking compound. The sealing shall be 25 mm deep from each side. The pipe and sleeve surfaces shall be cleaned to enable good bonding. Allow 24 hours for setting of the compound. The contractor shall adhere strictly to the manufacturer's recommendation.

1.3.2 Sleeves through Interior Wall, Floor and Ceilings

- Sleeves through interior masonry walls and partitions shall be set flush with finished wall surfaces.
- Sleeves through floors in finished areas shall terminate 25 mm above the finished floor.
- Sleeves through floors in service area (e.g., mechanical rooms) shall terminate 50 mm above the finished floor.
- The annular space between sleeves and pipes shall be packed with Silicon Rubber. In Machine Room, the packing shall be finished at both ends of the sleeve with 6 mm deep caulking compound. In other areas the finishing may be on the room side only.
- Pipe insulation shall be carried full thickness through pipe sleeves.
Unless otherwise specified elsewhere, the sleeves size shall be as follows:

Out Side (OD) Diameter of Pipe (If Insulated, OD of Insulation)	Sleeve Size (Nominal Bore of the Pipe for Sleeve)
OD 20 mm to OD 32 mm	NB 2" (50 mm)
OD 33 mm to OD 75 mm	NB 4" (100 mm)
OD 76 mm to OD 125 mm	NB 6" (150 mm)

1.4 SANITARY FIXTURES, RUNS, PIPES

- The recommended positions of the sanitary fixtures, runs of all piping etc. as shown in the

layout drawing will be adhered to as far as possible or as far as practicable.

- (ii) Should there be any discrepancy or incomplete description, ambiguity or omission in the drawings and other documents, whether original or supplementary forming the Agreement, completion or maintenance of the installation, the Contractor shall immediately on discovering the same, draw the attention of the Engineer to this.
- (iii) Prior to the installation of all fittings, pumps, traps, etc. The final position shall be ascertained from the Engineer.

1.5 WATER SUPPLY

1.5.1 Pipe Line

All Water Supply Pipe Line shall be as mentioned in the drawings and Bill of quantities. The Pipes will be:

1.5.2 Chlorinated Polyvinyl Chloride (CPVC) Pipe & Fittings

Chlorinated Polyvinyl Chloride (CPVC) Tubes / Pipes of Class 11 in Copper Tube Size (CTS) dimensions conforming to ASTM: D 2846 of approved brand. Pipe Fittings shall be of Chlorinated Polyvinyl Chloride (CPVC) of Class 11 in Copper Tube Size (CTS) dimensions conforming to ASTM: D 2846 of approved brand. The Pipe Fittings are Couplings, Elbows, Bends, Tees, Transition Coupling, Transition Bushings, etc. Manufacturer's Trademark should be stamped on the CPVC Pipe Fittings.

CPVC Pipe and CPVC Pipe Fittings shall have cold weld joints by CPVC Solvent cement conforming to ASTM: 493. After cutting the pipe, care shall be taken to remove burr from the end of the pipe with appropriate tools. Only with TEFLON tape, threaded Fixtures shall be fitted with CPVC Threaded Adapters.

1.1.3 Laying

All Pipes and fittings shall be of class specified in BILL OF QUANTITIES manufactured under respective Standards.

All main supply pipes and other pipes to be laid under the ground shall be laid over a minimum of 600 mm sand bedding or selected granular material compacted as described herein this specification.

The water main shall be laid and maintained to the required lines and grades with fittings, valves, and connections at the required locations and all valves and stems plumb.

Proper implements, tools and facilities shall be provided and used by the Contractor for the safe and convenient performance for the work.

All pipes, valves and fittings shall be carefully lowered into the trench piece by piece by hand ropes or other suitable tools or equipment in such a manner as to prevent damage to water main materials and protective coatings and linings.

Under no circumstances shall water main materials be dropped or dumped into the trench.

Valves, valve covers, meters, tapping sleeves and other accessories shall be installed as per the manufacturer's recommendations and in conjunctions and compliance with the requirements of the Local Government or Public Service Authority specifications.

It will be the responsibility of the Contractor to furnish and install all proper size pipe bends for both horizontal and vertical deflections that are required to construct the water main to the line and grade as shown and specified.

1.1.4 Jointing

The jointing shall be made in accordance with the instructions of the pipe and fitting manufactures. The pressure pipe shall be tested to a minimum of 10 kg / sq. cm. pressure. The setting and arrangement of pipes shall be as per the working drawings. Pipes are cut to size and ends are squared.

The pipes and fittings shall be inspected at the site before use. Where the pipes have to be cut, the end shall be carefully plugged so that no obstruction to bore is affected.

The pipe shall be cleaned and cleared of all foreign matters before being laid. For joining, the outside of pipe (thread for GI pipe line) and the inside of the socket shall be cleaned. Care should be taken that all pipes and fittings are properly joined so as to make the joints completely watertight.

After lying, the open ends of the pipe shall be temporarily plugged to prevent access of water, soil or any other foreign materials. Jointing of pipes shall be made according to the different kind of pipes by thread screwing, cold welding, flanges, or flexible joints etc. Joints between dissimilar materials, e.g. copper shall be by means of copper-alloy unions or union ferrules, etc.

Care shall be taken to ensure that all piping and fittings are clean internally and free from particles of sand, soil, metal, plastic, filings and chips, etc.

1.1.5 Clamps

All pipes laid shall have its open ends securely closed with appropriate plugs during progress of work. Pipes and pipe fittings shall be fixed by using proper approved holder bat clamps and special hangers. The pipes shall be fixed perfectly vertical or in a line as directed or as shown in the drawings. The pipes laid vertically shall have supporting, the clamps at 1.5 meters centre to centre and the pipes laid horizontally, the clamps at every 1.2 meters centre to centre as shown in the Drawing or as directed by the Engineer. MS bat clamps holders shall be used to fix all vertical pipes in truly vertical position. Horizontal pipes running below the ceiling shall be fixed on structural with adjustable clamps. Horizontal pipes shall be laid to uniform slope as mentioned in the drawings and the clamps adjusted to the proper levels so that the pipes fully rest on them. As per the site condition, if required or directed by the Engineer, pre- fabricated semicircular (half the diameter of the said pipe) made out of Plain GI Sheet of proper thickness shall be provided below the horizontal running pipes along with above- mentioned adjustable clamps. No Iron hooks shall anchor pipes in wall chases.

1.1.6 Unions

Adequate number of unions shall be provided on all pipelines to enable to dismantle later. Unions shall be provided near each valve, stopcock, and check valve and in case of GI Pipe - at an interval of 6 m (20 ft.) on straight runs.

1.1.7 Shut-off Valve

Gate Valves shall be heavy gunmetal full way type conforming to IS: 778 (Class: II). Valves shall be tested at manufacturer's works to 21 kg / sq. meter and shall have manufacturer's name stamped on it.

1.5.3 Check (Non Return) Valves

Check Valves / Non-Return Valves shall be heavy gunmetal Swing Type conforming to IS: 778 (Class: II). Valves shall be tested at manufacturer's works to 21 kg / sq. meter and shall have manufacturer's name stamped on it. The Engineer or Site In-charge shall approve all valves before installation work. up to 65 mm and small shall be gunmetal

1.5.4 Isolating Valves

Isolating valves shall be provided on all branch lines to enable isolation of groups of fixtures and sections of building and as shown on drawings.

1.5.5 Drain Points

Drain valves shall be installed in all liquid carrying systems at the low points to facilitate complete drainage of the system.

1.5.6 Hose Bibs

Hose bibs in the building shall be cast brasses with a leather disc, screwed pipe end, 20 mm pipe hose tread. Hose bibs in finished areas shall be chromium plated.

1.6 Bathroom Fixtures and Fittings

1.6.1 Bathroom Fixtures

All bathroom fixtures, Ceramic and CP fittings shall be supplied free of cost by the Owners at site Store, Contractor shall make his own arrangement at his cost to check, take delivery, store, install in position including transportation to site of work. No allowances shall be made for theft, breakage and defective materials after taking delivery of the materials.

1.6.2 Installation of Fixtures

The fixtures and fittings shall be provided with all such accessories as are required to complete the item in satisfactory working conditions, whether specifically mentioned or not in the Schedule of Quantities, Specifications and Drawings.

The Bathroom fixtures and fittings shall be installed at the correct assigned position as shown on the drawings and as directed by the Engineer in-charge/Engineer or Site In-charge/Owners, and shall fully meet with the esthetic and symmetrical requirements as demanded by the Engineer In-charge / Engineer or Site In-charge / Owner.

All fixtures and accessories shall be fixed in accordance with a set pattern matching the tiles or interior finish as per Engineer-in-charger's requirements. Wherever necessary, the fittings shall be centered to dimensions and pattern as called for.

Skilled workman shall install fixtures with appropriate tools according to the best trade practice. Manufacturer's instructions shall be followed for the installation of fixtures. Fixtures in all toilets

shall be standard height, mounting as called for on the drawings. Fixtures shall be mounted rigid, plumb and true to alignment.

1.6.3 Mock Up and Trail Assembly

The installation of the bathroom fixtures and fittings shall be as per the shop drawings approved by the Engineer-in charge.

The contractor shall assemble on trial basis at least one set of each type of bathroom fixture and fittings in order to determine precisely the required supply and disposal connection. Relevant instructions from manufacturers shall be followed as applicable. This trial assembly shall be developed to facilitate determining the location of punctures, holes, holding devices etc. that will be required for final installation in position of all bathroom fixtures and fittings. The above assembly shall be subject to final approval by the Engineer-in charge / Engineer or Site In-charge / Owner.

The fixtures in the trial assembly can be reused for final installation without any additional payments for fixing or dismantling of the fixtures.

1.6.4 Supporting and Fixing Devices

The contractor at his own cost shall where required, provide all fixtures and fittings securely in position. The fixing devices shall be rigidly anchored into the building structure. The devices shall be rust resistant and shall be so fixed that they do not present an unsightly look in the final assembly. These shall be installed complete with appropriate washers and gaskets, jointing Materials and Screws etc. as per manufacture manuals.

1.6.5 Final Installation

The contractor at his own cost shall install all bathroom fixtures and fittings in their final position in accordance with approved trail assemblies and as shown on drawings. The installation shall be complete with all supply and waste connections. The connection between built-in piping system and the bathroom fixtures shall be through proper couplings, unions and flanges to facilitate removal / replacement of bathroom fixtures without disturbing the built in piping system. All couplings, unions and flanges shall match in appearance with other exposed fittings.

Fixtures shall be mounted rigid, plumb and true to alignment. The outlets of water closet bowls and similar appliances shall be examined to ensure that outlet ends are butting on the receiving pipes before making the joints. It shall be ensured that the receiving pipes are clear of obstruction. When fixtures are being mounted attention shall be paid to the possibility of movement and settlement by other causes. Overflows shall be arranged as to give visible warning and discharge. A check shall be made to ensure that necessary anchoring devices have been provided for supporting Water Closets, Wash Basins, Sinks and other appliances.

1.7 Miscellaneous Work

1.7.1 Identification Colour Code

All piping systems shall be suitably painted or otherwise color identified according to Appendix-E of Identification of pipes as per IS: 2065 (code of practice for water supply in buildings). The identification colors and letter symbols for various services shall be as follows:

Service	Identification Colour	Letter Symbol
1 Soil, Waste and Vent Piping and all	Black or Brown	S

drains (except for PVC and HDPE pipe)		
2. Water Supply Lines	Green	CW
3. Hot Water Supply	Red	HW

1.8 SANITARY FIXTURES AND ACCESSORIES

All sanitary wares and fittings shall be first class quality white glazed vitreous china ceramic and approved by the Engineer.

1.8.1 Water Closet (W.C.)

- (a) Porcelain clay white glaze Indian Pan with low level glazed cistern

These shall be of white glazed vitreous china first class quality, double or single trap syphonic water closet suite as specified in the Bill of Quantities, concealed PVC flushing cistern as specified conforming to ISO or Indian standard Specification. The pan and flushing cistern shall be free from cracks, blisters and shall have smooth surface.

Fixing: - W.C. pan shall be fixed to floor or wall with CP brass screws or by means of 75mm long 6.5mm dia. counter sunk bolts and nuts imbedded in floor concrete or fixed to standard bracket and as per the instruction of the Project Engineer. Wall hung commode and concealed cistern shall be fixed to wall on MS wall stand. Following measure shall be adopted for fixing the W.C. commode

Method of Measurement: -

Measurement for the European Water Closet will be made per unit set of complete installation.

1.8.2 Wash Basins

These shall be white glazed vitreous china of first class quality with single tap hole as specified in the Bill of Quantities. These shall be free from cracks, crazes, blister and shall have smooth surface.

Fixing: The basin shall be supported on brackets as per manufacturer's instructions. The basin shall be under-counter or wall hung type. There shall not be any gap between top edge of the basin and finished face of wall.

C.P. Pillar Cock: This shall be 15 mm size of C.P. brass central hole cock with fancy knob head.

Method of Measurement

Measurement for the Hand Wash basin will be made per unit set of complete installation.

1.8.3 Water Tanks

Water tank shall be of HDPE extra heavy grade as shown on the drawing and specified in the Bill of Quantities. Tank shall be supplied with manhole covers and locking arrangement as per drawing or as directed by the Engineer.

Water tank shall provide inlets, outlets, scour and overflow pipes, sockets for float level switches and inter connections if required. Overflow pipes shall be provided with a mosquito proof brass grating.

Scour pipe of size as specified by the Engineer shall be provided with a bend and pipe piece and plug terminating outside the tank wall.

Ball cocks used for tanks shall be high pressure ball cocks with brass lever rods and polythene ball floats. The ball floats shall conform to Indian standard which shall be hammer tested.

Water tank shall be fixed in position as shown on drawing or as directed by the Engineer.

Method of Measurement

Measurement for the Water tank will be made per unit set of complete installation.

1.8.4 Soap dispenser

Soap dispenser shall be SS as per BILL OF QUANTITIES. Soap dispenser shall be fixed in wall in a neat Workmanlike manner. It shall be fixed with C.P. brass screws, where required.

Method of Measurement

Measurement for the Soap Dispenser will be made per unit set of complete installation.

1.8.5 Towel Rod

Towel rod shall be heavy type of C.P. brass with two brackets. The size of the rod shall be as specified on the drawing or Bill of Quantities. The brackets shall be firmly fastened by means of C.P. brass screws firmly embedded in the wall.

Method of Measurement

Measurement for the Towel Rod will be made per unit set of complete installation.

1.8.6 Mirror

Mirrors shall be of approved make 5mm thick. All edged shall be rounded off. Mirrors shall be fixed to wall with brass chromium plated screws and washers. Mirrors shall be of beveled edge of sizes as specified in the Bill of Quantities.

Method of Measurement

Measurement for the Mirror will be made per unit set of complete installation as per size.

1.8.7 C.P. Grating

Floor and urinal traps shall be provided with chromium plated grating, with rim of approved design and shape. Minimum thickness shall be 3mm.

Method of Measurement

Measurement for the CP Grating will be made per unit set of complete installation.

MAKE OF EQUIPMENT AND APPROVED MANUFACTURES

1. G. I. / M. S. Pipes	a.	Indian Tube Co.	TATA, India
	b.	Jindal (Hissar)	India
2. G. I. Fittings	a.	UNIK/ R or C Brand	India
3. Gate / Globe / Butterfly	a.	Leader	India
	b.	Zoloto	India
4. Sanitary Ware	a.	Duravit	India/Germ.
	b.	Cotto	Thai
	c.	Kohler	India
5. C. P. Fitting and accessories	a.	Jaqua	India
	b.	Cotto	Thai
	c.	Kohler	India
	d.	Grohe	India/Germ.
6. Mirror	a.	Modi Float	India
	b.	Asahi Float	Indonesia
7. CPVC Pipes, valves & Fittings	a.	Marvel	Nepal
	b.	Mangalam	Nepal
	c.	Hilltake	Nepal
	d.	Supreme	India
8. Water Pumps	a.	Grundfos	Denmark
	b.	Kirloskar	India
	c.	Wilo	India
9. UPVC Pipes and Fittings	a.	Supreme	India
	b.	Nepatop	Nepal
	c.	Marvel	Nepal
	d.	Hilltake	Nepal

SPECIFICATION OF MATERIALS AND WORKMANSHIP FOR ELECTRICAL WORKS

Scope of Work

The work to be carried out under this contract comprises internal and external electrical installation. All works required for NEA connection or other will be Contractor's responsibility. The experience of electrical sub-contractor must be minimum 3 years.

The works covered shall include supply of all materials, labour, equipment and services in connection with the work complete as indicated. The contractor shall consult drawings, bill of quantities and specifications all together, which gives the total scope of the works.

The contractor shall include for the supply of the whole or the new materials in accordance with these specifications and the whole of the work of fixing, installation, testing and commissioning necessary for the complete installation as set down in this specification and with the accompanying schedules and drawings, commencing from the supply authority's terminals. This also includes any materials, appliances, equipment not specifically mentioned herein or noted on the drawings as being furnished or installed but which are necessary and customary to make the installation complete in all respects. In general, the work to be performed under tills contract shall comprise supply and installation, testing & commissioning of the followings as per schedule of quantities.

- a. All conduit work including junction boxes, outlet boxes and wiring for lighting power.
- b. Switches, plug sockets, cover plates and other wiring accessories.
- c. Main and sub-main between various distributions panels.
- d. Main distribution panels, sub-distribution panels and final distribution panels.
- e. Cables on cable trays and / or within suspended ceiling spaces including jointing of cables, cable trays, hangers, supports and all fixing accessories.
- f. Supply installation and connecting of earthing (grounding) system.
- g. Supplying and laying of conduits along with outlet boxes with pull wires for telephones, other communication systems.
- h. Wiring with terminal block for telephone & other communication systems.
- i. Wiring for computer networking
- j. Prepare shop drawing prior to installation works for approval; prepare "As Build" drawing after testing and commissioning of complete electrical system.

Standard of Work

The work shall be carried out to the satisfaction of the Consultant/Engineer (here by in Electrical Technical specification if not mentioned; the Consultant/Engineer refers to the Electrical Consultant and Electrical Engineer) and in accordance with the regulations of IS, NS, BS & Nepal Electricity

Authority, Electricity Rules and Regulations and the enclosed specifications. Where not specified within this specification, all materials and workmanship used in the installation works shall be in accordance to the latest edition of the related Indian Standard Specification (IS 732-Code of Practice for Electrical Wiring Installation-System Voltage not exceeding 650 V) or equivalent.

Notwithstanding the stipulation of above standards, local electrical codes for electrical services in buildings, where such exist, shall also be followed. Adequate consideration shall also be given to compliance of the equipment and works with local environmental conditions such as temperature, altitude, humidity, dust, vermin, attitude of personnel who will occupy the premises etc.

System

Electrical power within the premises will be available at 400/230V AC, three phase, four wire, 50 Hz directly from the power utility. Hence, all systems within the premises, except where specifically specified as High Tension (HT) works, shall be rated for this degree of incoming supply.

All erection set-up, tools, appliances and safety precautions to be used by the Contractor for electrical services within the building shall also be suitable for work under this Low Tension (LT) class of electrical work.

Abbreviations

The following abbreviations have been used in the accompanying specifications, drawings and Schedule of Quantities.

GI	stands for Galvanized Iron.
MS	stands for Mild Steel.
HT	stands for High Tension.
HV	stands for High Voltage.
LV	stands for Low Voltage.
LT	stands for Low Tension.
PVC	stands for Polyvinyl Chloride.
HDPE	stands for High Density Polythene
A	stands for Amperes.
V	stands for Volts.
kV	stands for Kilo Volts.
kVA	stands for Kilovolt Ampere
ISS	stands for Indian Standard Specifications.

IS	stands for Indian Standard.
NEC	stands for National Electrical Code.
NEA	stands for Nepal Electricity Authority
DG	stands for Diesel Generator.
RYB	stands for Red, Yellow, Blue.
MCB	stands for Miniature Circuit Breaker.
ACB	stands for Air Circuit Breaker.
VCB	stands for Vacuum Circuit Breaker.
MCCB	stands for Moulded Case Circuit Breaker.
ELCB	stands for Earth Leakage Circuit Breaker.
RCCB	stands for Residual Current Circuit Breaker.
CT	stands for Current Transformer.
PT	stands for Potential Transformer.
DO	stands for Drop out Fuse.
SP	stands for Single Pole.
DP	stands for Double Pole.
TPN	stands for Triple Pole and Neutral.
MDB	stands for Main Distribution Panel.
SMDB	stands for Sub-Main Distribution Board (Panel).
FDB	stands for Final Distribution Board (Panel).
DB	stands for Distribution Board.
PVC	stands for Polyvinyl Chloride.
C/O	stands for Change-over Switch.
AC	stands for Alternating Current.
VRF	stands for Variable Refrigerant Flow.
DC	stands for Direct Current.
SS	stands for Switched Socket/Selector Switch.
LA	stands for Lightning Arrester.
XLPE	stands for Cross-Linkable Polyethylene

Fees, Permits and Tests

The Contractor shall obtain and pay for any and all fees and permits required for the installation of all electrical works with necessary NEA control and measurement provisions as required. On completion of the work, the Contractor shall deliver certificates of final inspection to the Consultant/. The Consultant/Engineer shall have full authority to get the require materials or work to be tested by an independent, agency at the Contractor's expense in order to prove their soundness and adequacy.

Workmanship

- a. Workmanship and good appearance of the installation shall be of equal importance with its electrical and mechanical efficiency, and all portions of the work shall be so laid out and installed that the work as a whole is of uniform quality and shall present a neat appearance in a manner meeting the approval of consultant. The Contractor shall verify in the field all measurements necessary of the electrical work and shall assume responsibility for their accuracy.
- b. Materials which are defective or damaged during the progress of work shall be replaced or repaired in approved manner at the expenses of Contractor. The installation shall comply with all applicable laws and ordinances and with the requirements of Indian codes, Nepal Standard and as specified herein or shown on the drawings. The progress of the electrical work shall be carried out so as to conform to the entire installation shall be completed as soon as the condition of site and working places will permit. The work progress report shall be submitted at the end of every month to the Consultant.
- c. All cutting, drilling, channeling, patching etc., required for installation of electrical work shall be carried out in a manner approved by the Consultant. Any defects in finishes, plasters, wood work, metal work, masonry, concrete, or other materials resulting from the performance of the work shall be replaced or repaired at no expense to the owner and to be satisfaction of the Consultant.
- d. Upon completion of the electrical work the Contractor shall submit to the Consultant, reproducible drawings showing the layout, and connection of electrical system as constructed and denoting all information pertinent to the proper maintenance of the system.
- e. If any alteration is found necessary, the Contractor will have to do the same on mutually agreed rates.
- f. The work shall be carried out in the best workman like manner and any defect or minor changes in the design/ connection if pointed out shall be carried out by the Contractor without any extra charges.
- g. Electrical Supervisor shall be employed by the Contractor and will remain at site to receive orders or any other instructions from the Consultant/Engineer.
- h. Whatever recessed fittings are required to be provided the electrical Contractor shall be responsible for informing the civil Contractor to keep the necessary recesses in the slab and in the false ceiling.
- i. The list of approved makes and manufacturers of electrical materials is attached. Only such materials as are on the list shall be used.

Materials

All materials and Equipment shall be new and shall be in accordance with the standard established by IS and NS. Where materials of Equipment are specified or shown on the drawings by name of manufacturers, name plates, instruction plates, warning signs and any other marking whatsoever on the Equipment and accessories there of shall be in English language. Equipment or materials of other manufacturers may be considered for use if of equal quality, appearance and, electrical and mechanical characteristics and approved by the Consultant/Engineer.

Colour Coding

All outgoing and incoming power cables including point-wiring cables will follow the following colour coding phase indicating lamps wherever recommended.

Phase - 1 - Red (R); Phase - 2 - Yellow (Y); Phase - 3 - Blue (B); Neutral - Black (B); Earthing- Green (G).

Quantities

All quantities mentioned in the bill of quantities are not actual and the contractor will get payment according to measurement of actual work. The schedule of quantities is liable to alteration by deletion or addition as required.

Specifications

The specifications shall be considered as part of this contract. The drawings indicate the extent and general arrangement of the futures, controlling switches, wiring system etc. and are essentially diagrammatic. The drawing indicates the points of termination of conduit runs and broadly suggests the routes to be followed.

The work shall be installed as indicated on the drawings. However, any minor changes found essential to co-ordinate the installation of this work with other trades shall be made without any additional cost to the Owner. The data given herein and on the drawings is as exact as could be secured, but its complete accuracy is not guaranteed. The drawings are for the guidance of the Contractor; exact locations, distances and levels shall be governed by the site conditions and drawings.

Shop Drawings

Prior to commencing the electrical works, the contractor shall prepare shop drawings considering the drawings provided by the owner/consultant and propose the schedule of electrical works and submitted to the Owner/Consultant for approval. A set of the up- dated and approved drawings shall be available at the site at all times for inspection by the CMC. If any changes are made during installation, such changes shall be immediately marked in the drawings.

Prior to commencing procurement, the Contractor shall submit for approval, shop drawings showing layout, dimensions, materials used, standards specified for the fabrication or procurement of items such as the main panel board, distribution panels and other items for which custom design is necessary.

Manufacturer's Instructions

Where manufacturers have furnished specific instructions relating to the materials used in this job and covering points not specifically mentioned in these documents, manufacturer's instructions shall be followed.

Materials and Equipment

All materials and equipment shall be of the approved make and design. Unless otherwise called for, only the best quality materials and equipment shall be used. The materials and equipment shall conform to relevant standards as listed under sub-head "Regulations and Standard". The Contractor shall be responsible for the safe custody of all materials and shall insure them against theft or damage in handling or storage etc. A list of items of materials and equipment, together with a sample of each shall be submitted to the Consultant/ Engineer within 30 days of the award of the contract for the approval. Any item, which is proposed as a substitute, shall be accompanied by all technical data giving sizes, particulars of materials and the manufacturer's name. At the time of submission of proposed substitute, the Contractor shall state the credit, if any, due to the Owner. In the event the substitution is approved, all changes and substitutions shall be requested in writing and approvals obtained in writing from the Consultant /Engineer.

Samples

Prior to commencing procurement, the Contractor shall submit for approval technical description, related catalogue/brochures and a recommended brands of sample item each of all cable, conduit accessories, switchgears, switches, power outlets, lamps, LED light fixtures etc. which are to be procured and installed.

Engineer and Foreman

The Contractor shall employ a competent, fully licensed, qualified full time one (1) number of Electrical Engineer to direct the work of electrical installation in accordance with drawings and specifications. The Electrical Engineer shall be available full time on the site to receive instructions from the Consultant/Engineer or his nominee in the day-to-day activities throughout the duration of the Contract. The Electrical Engineer shall correlate the progress of the work in conjunction with all relevant requirements of the supply authorities.

Maintenance of Electrical Systems

The period of maintenance of the electrical works shall commence from the date of the Certificate of Completion for the (main) works, provided the electrical installation is giving sufficient service to the employer for the intended use.

The term maintenance is applied to all electrical works and shall mean the following for a period of Twelve (12) from the commencement of the maintenance period for electrical works; the Contractor shall:

- a. Guarantee the entire installation in respect of all defects, which may occur and undertake to repair such defects immediately at no cost whatsoever to the employer.
- b. The maintenance work must be scheduled according to the recommended procedures set out in the manufacturer's catalogues.
- c. During the maintenance period the Contractor shall undertake to train employer's staff in all aspects of servicing and maintenance of all equipment.

Internal Wiring

System of Wiring

The system of wiring shall consist of PVC insulated copper conductor wires in the conduits and shall be concealed or surface mounted as called for.

General

Prior to laying and fixing of conduits, the contractor shall carefully examine the drawings indicating the layout, satisfy Consultant/Engineer about the sufficiency of number and sizes of conduits, location of junction boxes, sizes and location of switch boxes and other relevant details. Any discrepancy found in the drawings shall be brought to the notice of the Consultant/Engineer. Any modification suggested by the Contractor shall be got approved by the Consultant/Engineer before the actual laying of conduits is commenced.

Materials

Conduit, Flexible Conduits, Accessories & Fixing Arrangement

All Conduits, Flexible Conduits, Fittings and accessories shall conform to IS 9537-Part 3, BS EN 61386-21 for uPVC conduits and IS 3419:1988 and BS 4607 for uPVC fittings. All the conduits shall be manufactured from unplasticized polyvinyl chloride (uPVC) as per Indian Standard and International Standards. Conduits of various diameters, grades (Medium and Heavy Mechanical stress) shall be used as per various applications and site conditions. All the conduits shall be Fire Retardant, Corrosion free with thermal resistance from -5 Degree Celsius to +60 Degree Celsius.

Heavy Mechanical Stress (HMS) Conduits shall be used for Concealed Wiring and Medium Mechanical Stress (MMS) shall be used for Surface Wiring. For Concealed Wiring Only Deep Circular Box shall be used. Circular Lid fitted with FR Grade flexible uPVC Conduit along with corrugated flexible conduit glands shall be used for the drop wire of Light, Power and ELV point wirings. Following Colour Codes shall be followed for the installation of respective services.

RED: Fire Alarm System

Green: Surveillance System

Blue: Network System

Yellow: Public Address, Telephone and Video Management System

Grey: UPS Supply

Ivory/White: Light & Power Supply

Joints between conduits and accessories shall be securely made to ensure earth continuity. Sample of all the conduits to be used shall be submitted before laying for approval from Consultant/Engineer.

The conduits shall be delivered to the site of construction in original bundles and each length of conduit shall bear the label of the manufacturer.

The number of 1100 volt grade PVC insulated copper/aluminium conductor wires that may be drawn in the conduits of various sizes are given below and space factor shall not exceed 40%. Separate conduits shall run for all power outlet wiring. Conduit connections for PVC conduits shall be done perfectly. Junction Box and the conduit joint must be used where necessary. Metal Saddle of appropriate size must be used while laying the conductor.

Maximum permissible numbers of 1100 volt grade PVC insulated wires that may be drawn into rigid non-metallic or MS conduits are given below:

Size of wire nominal cross section area	Maximum number of wires within conduit of size (mm)				
sq.mm.	20	25	32	40	50
1.5	6	10	14	-	-
2.5	5	10	14	-	-
4	3	6	10	14	-
6	2	5	8	11	-
10	-	4	7	9	-
16	-	2	4	5	12
25	-	-	2	2	6
35	-	-	-	2	5

Connections

All jointing methods shall be subject to the approval of the Consultant /Engineer. Separate conduits shall run for all power outlet wiring.

The threads and sockets shall be free from grease and oil. Connections between screwed conduit and sheet metal boxes shall be by means of a brass hexagon smooth bore bush, fixed inside the box and connected through a coupler to the conduit. The joints in conduits shall be free of burrs to avoid damage to insulation of conductors while pulling them through the conduits.

Bends in Conduit

Where necessary, bends or diversions may be achieved by means of bends and / or circular inspection boxes with adequate and suitable inlet and outlet screwed joints. In case of recessed system each junction work shall be provided with a cover properly secured and flush with the finished wall surface. No bends shall have radius less than 2.5 times the outside diameter of the conduit.

Fixing Conduits

All conduits shall be installed so as to avoid steam and hot water pipes. After the conduits, junction boxes, outlet boxes and switch boxes are installed in position, their outlets shall be properly plugged or covered so that water, mortar, insects or any other foreign matter does not enter into the conduit system. Surface conduits shall be fixed by means of spacer bar saddles at intervals not more than 500mm.

The saddles shall be of 3mm x 19mm galvanised mild steel flat, properly treated, primed and painted, securely fixed to supports by means of nuts and bolts/rail bolts and brass machines screws.

Switch Outlets and Junction Boxes

All outlet boxes for switches, sockets and other receptacles shall be rust proof and shall be of 1.6mm thick G.I. sheets and made of single sheet without any welding having smooth external and internal surfaces to true finish.

All outlet boxes for receiving plug sockets and switches shall be fabricated to approve sizes. All boxes shall have adequate number of knock out holes of required diameter and earthing terminal screws. All boxes shall have both fixed lugs and adjustable lug/lugs.

Inspection Boxes

Rust proof inspection boxes (Pull Box of min 1.21mm thick mild steel sheet having smooth external and internal finish shall be provided to facilities removal and replacement of wires, where required. These shall be provided if continuous length of conduit is more than 10 meter. The depth of the box shall be 100mm and shall have a hinged cover with push button lock.

Circuit for Telephone, TV, Computer Networking and Music System

Conduits and system of conducting for telephone, TV, Computer networking and alarm system shall be the same as far electrical system, except they shall be installed at least 150 mm away from the electrical conduits.

Conductors

All PVC insulated Copper/Aluminium conductor wires shall conform in all respects to standards as listed under sub-head "Regulations and Standards". The under sizing/gauge of the conductor is not acceptable. During the inspection Electrical Engineer have full authority to make the contractor to remove the installed cable and no extra payment will be done in replacement of it.

Bunching of Wires

Wires carrying current shall be so bunched that the outgoing and return wires are drawn into the same conduit. Wires originating from two different phases shall not run in the same conduit.

Drawing Conductors

The drawing and jointing of PVC insulated copper/aluminium conductor wires and cables shall be executed with due regard to the following precautions. While drawing wires through conduits, care shall be taken to avoid scratches and kinks, which cause breakage of conductors. There shall be no sharp bends.

Insulation shall be shaved off like sharpening of a pencil and it shall not be removed by cutting it square, PVC insulated copper conductor wire ends shall be soldered (at least 20mm length).

Strands of wires shall not be cut for connecting terminals. The terminals shall have sufficient cross sectional area to take all strands and shall be soldered. Connecting brass screws shall have flat ends. All looped joints shall be soldered and connected through terminal block/connectors. The pressure applied to tighten terminal screws shall be just adequate, neither too much nor too less. Conductors having nominal cross sectional areas exceeding 2.5 sq.mm shall always be provided with cable sockets/shoes. At all terminals, brass flat washer of large area and approved steel spring shall be used. Brass nuts and bolts shall be used for all connections.

Only certified wireman and cable jointers shall be employed to do jointing work. All wires and cables shall bear the manufacturer's label and shall be brought to site in original packing. For all internal wiring, PVC insulated wires of 1100 volts grade shall be used. The sub-circuit wiring for point shall be carried out in loop system and no joints shall be allowed in the length of the conductors. If the use of joints connections unavoidable due to any specific reason, prior permission, in writing, shall be obtained from the Consultant /Engineer. No wire shall be drawn into any conduit, until all work of any nature, that may cause injury to wire, is completed. Care shall be taken in pulling the wires so that no damage occurs to the insulation of the wire. Before the wires are drawn into the conduits, the conduits shall be thoroughly cleaned of moisture, dust, dirt or any other obstruction by forcing compressed air through the conduits. The minimum size of PVC insulated conductor wires for all sub-circuit wiring for light points shall be 2.5 sq.mm copper equivalents and for all sub-circuit wiring for power points shall be 4 sq mm.

Joints

All joints shall be made at main switches, distribution boards, socket outlets, lighting outlets and switch boxes only. No joints shall be made in conduits and in junction boxes. Conductors shall be continuous from outlet to inlet.

Mains and Sub-Mains

Mains and Sub-Mains cable or wires where called for shall be of the rated capacity and approved make. Every main and sub-main wire shall be drawn into an independent adequate size conduit. An independent earth wire of the proper rating shall be provided for every single-phase sub-main. For every 3-phase sub-main, 2 nos. earth wires of proper rating shall be provided along with the sub-main. The earth wires shall be fixed to conduits by means of clips at not more than 1000mm distance. Where mains and sub-mains cable are connected to switchgear, sufficient extra lengths of cable shall be provided to facilitate easy connections and maintenance.

Load Balancing

Balancing of circuits in three-phase installation shall be planned before the commencement of wiring and shall be strictly adhered to.

Colour Code and Tagging of Conductors

Colour code shall be maintained for the entire wiring installation: red, yellow, blue for three phases, black for neutral, green (or YG) for earthing. Tagging/labelling of the conductors must be done and drawing shall be provided so that it will be easier for future maintenance and finding of circuits.

Wiring for CCTV Surveillance System

Each camera point outdoor/indoor is considered as a point and wiring shall be done using low loss Green Colour CAT-6/CAT-6A cable (as mentioned in BOQ) from each point to NVR direct laying or via switch as shown in the drawing in a GREEN Colour PVC conduit concealed or surface as per site condition. The cables shall be properly terminated and properly numbered at control room for identification. All the civil works including chipping, chicken wire mesh and finishing shall also be included in point wiring.

Wiring for Telephone System

Wiring of telephone points shall be done using telephone cables/CAT-6 (white color) as mentioned in the BOQ from each point to EPX or switch. Tapping from one socket to other is not allowed. Each single telephone line shall be connected to floor Distribution/Switch point by 2 pair/CAT-6 cable (as mentioned in BOQ). Each telephone outlet shall be of single RJ 11/RJ 45 (as mentioned in BOQ) type with face plate. Local RJ 45/ RJ 11 Connectors are not accepted

At least 150mm separation shall be provided between electricity cable conduits and telephone cable conduit. Each separate telephone line shall be considered as a point.

Wiring of Computer Points

Each point for Computer Network point is considered as a point and wiring shall be done using Blue Colour CAT-6/CAT-6A (as mentioned in BOQ) cable with Copper conductor shall be taken to every RJ45 outlet socket point from switch as shown in the drawing in a BLUE Colour PVC conduit concealed or surface as per site condition. Local RJ 45 Connectors are not accepted. Where computer networking cable and electric cables are crossing each other an aluminium jacket screen is to be provided on the telephone cable for that crossing length but it shall not be less than one meter.

Earthing

All the non-current carrying metal parts of electrical installation shall be earthed properly. All metal conduits, trunking, cable sheaths, switchgear, distribution fuse boards and all other parts made of metal shall be bonded together and connected by means of specified earthing conductors to an efficient earthing system as per IS 3034-1966.

Type of Earthing shall be carried as mentioned in BOQ either Plate/Rod/ Chemical. The earth resistance of the earthing electrode shall not exceed five (5) ohms.

The contractor shall furnish main earth connection to all electrical equipment chassis and metallic conduit by means of appropriately sized copper wires as specified herein or shown in drawing or as mentioned in BOQ.

Earthing system shall be at least 1 meter away from the building foundation and the main earth to the building shall be obtained by tapping this system by earth wire of appropriate size as shown in the drawing. The connection of these earth wires by twisting shall not be allowed.

Switches, Sockets & Plates

Switches

All 6/16 amps switches shall be enclosed type flush mounted, suitable for 240 volts AC. All switches shall be fixed inside the switch boxes on adjustable flat MS strips/plates with tapped holes and brass machine screws, leaving ample space at the back and sides for accommodating wires. Switch controlling the light/power point shall be connected to the phase wire of the circuit. All switches shall be:

- Modular Type
- Colour: White
- Marked with ISI as per IS 3854:1997

Power Socket Outlet

All wall socket outlets shall be of the three-pin type. The switch controlling the socket outlet shall be on the phase wire of the circuit. An earth wire shall be provided along with the circuit wires and shall be connected to earthing screw inside the box. The earth terminal of the socket shall be connected to the earth terminal provided inside the box. All sockets shall be:

- Modular Type
- Colour: White
- Marked with ISI as per IS 1293:2005

Rating of Outlets

For purpose of determining the size of the sub-mains and controlling switches, the ratings of outlets shall be as follows, unless otherwise specified.

- Light, Fan Points & 5/6 amp. Convenience outlets - 800W
- Convenience outlets 10/15/16 amp - 3000W

Mounting Heights

Mounting heights of all devices such as switches, Power Socket, Telephone, Network receptacles and wall bracket lights, etc. shall be approved before embedding of the boxes in the masonry. In general, mounting heights to bottom of devices shall be as indicated herein below, unless otherwise specified in the drawings: -

i.	Power Socket	Centered in skirting mounted horizontally 350 mm from finished floor level
ii.	Switches	1300 mm from FFL
iii.	AC Power Socket	300 mm from Beam

Junction Boxes

There must be junction boxes for circuits and branch circuit, junction box shall be not less than 100 mm square and not less than 30 mm deep. The junction box shall be suitable to receive 19 mm dia. (Min.) conduit or required as per condition.

Wall switch and receptacle boxes Mounting

Wall switch and receptacle boxes shall be securely fastened in place; in wall or ceiling; provide with plaster rings if required. The box must be set in proper way and shall be properly jammed. After the inspection of the boxes then only the switches and other receptacles shall be installed. During the inspection if found not acceptable no extra charges shall be bearded by the client. Wall switch and receptacle box shall be not less than 75 mm square and not less than 37 mm deep. Prior to grouting of the wall boxes the proper size shall be confirmed to receive type and number of light switch / MCB/ outlet.

Finish Plates

Plates shall be plain finish to match the skirting or wall as directed. The plate shall be properly aligned in level.

Light Fixtures & Fan

Scope

The scope of this section comprises the supply, erection, testing and commissioning of lighting fixtures for internal lighting of service areas wherever required of the specified models. Without restricting to the generality of the foregoing, this section shall include luminaries, lamps and accessories necessary and required for the installation.

Whether specifically mentioned or not, the luminaries and lamps shall be provided with all fixing devices, terminal blocks, holders etc. as required.

General Requirements

All the luminaries and lamps shall be of best quality and as per approved makes. Wherever alternative makes are specified the choice of selection shall remain with the Consultant/Engineer. The luminaries and lamps shall be fixed in a neat workman like manner, true to level and in accordance with manufacture's instruction. The luminaries and lamps shall be provided with such accessories as are required to complete the item in working conduit whether specifically mentioned in the specifications, drawing or not.

Fitting of Lighting Fixtures

The light fixtures and fittings shall be assembled and installed in position complete and ready for service, in accordance with details, drawings, manufacturer's instructions and to the satisfaction of the Consultant/Engineer.

Fixing of Exhaust, Ceiling and Wall Fan

Heavy-duty exhaust fans of an approved manufacture shall be of approximately 200 mm sweep integral metal units suitable for installation in walls or single or double panel windows. The fans shall be capable of delivery rate of not less than 700 m³/h at 1200 rpm. A louvered shutter shall be provided to close off the fan opening.

Ceiling and wall fans shall be of sweep diameter as shown in drawings. Modular type electronic fan control shall be provided for individual ceiling fan. Fan control shall match in shape and finish with other light and power accessories.

Ceiling fans shall be suspended from the ceiling on U- hooks which are bonded to reinforcement rods of ceiling structural works.

Cutting and Patching

Cutting and patching required for the proper installation and completion of works including false ceiling cutting, plastering, masonry work, concrete work and painting shall be done by the contractor himself and skilled labour shall be provided for the same with out any extra cost to client.

Power Cables

Medium voltage cable shall be aluminium/ copper conductor XLPE/PVC insulated, XLPE/PVC sheathed armoured (as mentioned in BOQ) conforming to latest IS standards cable shall be rated for 1100 volts. Conductors shall be insulated with high quality XLPE/PVC base compound a common covering shall be applied over the laid-up core by extruded sheath of un-vulcanized compound. Armouring shall be applied over outer sheath of XLPE/PVC sheathing. The outer sheath shall bear the Embossed Name having the details of manufacturer's name, Size of Cable, Number of Core, Conductor Type, Voltage Grade and Insulation Type, Length Indication and Standard in which it is manufactured (IS/NS) at every meter length Cores shall be provided with following colour scheme of XLPE/PVC insulation.

- (a) 1 Core : Red/Black/Yellow/Blue
- (b) 2 Core : Red and Black
- (c) 3 Core : Red, Yellow and Blue
- (d) 3 ½ or 4 Core : Red, Yellow, Blue and Black.

Short circuit rating of cable shall be as specified in IS standards for Cables.

Cable have been selected considering conditions of maximum connected loads, ambient temperature, grouping of cables and allowable voltage drop. However, the contractor shall recheck the size before cables are fixed and connected to service.

Laying of Wires/Cables

Lying of wires/cables between two points shall follow the following methods.

- (a) Laying of cables directly in the ground in outdoor applications; and
- (b) Laying or supporting of cables in cable ladders, trenches and ducts, or clipped on to the walls or structural members of the building.

Where cables are to be laid direct in ground these shall be laid in cable trenches at least 0.75 m below ground surface. The cable laid shall be covered with 100 mm finely sifted sand and protected on the top with transverse bricks across the trench cross-section. The trench shall then be backfilled and compacted.

Where cable routes run under hard surfaces, or where cables have to be run inside masonry or structural components inside buildings, such cables shall be run in cable trays or cable ladder.

Wires/Cable Laying on wall/ceiling/cable trays

Wherever so specified, cables shall be laid along walls/ceiling or on cable trays. Cable shall be secured in position and dressed properly by means of suitable clamps, hooks, saddles etc. such that the minimum clear spacing between cables is diameter of the cable. Clamping of cables shall be at minimum intervals as below.

Type of cables	Size	Clamping by	Fixing intervals
MV	Up to and including 25 sq. mm	Saddles 1 mm thick	45 cm
MV	35 sq. mm to 120 sq. mm	Clamps 3 mm thick 25 mm wide	60 cm

The fixing intervals specified apply to straight runs. In the case of bends, additional clamping shall be provided at 30 cm from the centre of the bend on both sides.

Cable Entry into Buildings

Cable entry into buildings shall be made through HDPE pipes recessed in the floor.

HDPE pipes shall be provided well in advance for service cable entries. The pipe shall

be filled with sand and sealed at both ends with bitumen mastic to avoid entry of water. Suitable size manholes shall be provided wherever required to facilitate drawing of cables as per requirements.

Testing of Cables

Prior to installation, buying of cables, following tests shall be carried out. Insulation test between phases, phase and neutral, phase and earth for each length of cable.

- (a) Before laying
- (b) After laying
- (c) After jointing

On completion of cable laying work, the following tests shall be conducted in the presence of the consultant:

- (a) Insulation Resistance Test (Sectional and overall)
- (b) Continuity Resistance Test
- (c) Earth Test.

All tests shall be carried out in accordance with relevant Standard code of practice and NEA Rules. The Contractor shall provide necessary instruments, equipment and labor for conducting the above tests and shall bear all expenses of conducting such tests.

Distribution Panels / Boards

Main Distribution Panels/Boards, Sub-Distribution Panels/Boards, Floor Distribution Panels/Boards and Distribution Panels shall be suitable for operation on 3 phase/single phase, 400/230 volts, neutral

grounded at transformer and short circuit level not less than that mentioned on BOQ at 400 volts side of the Transformer.

The Distribution Boards shall compile with the latest relevant IEC, Indian Standards and Electricity Rules and Regulations.

Moulded Case Circuit Breakers

Moulded case circuit breakers shall be of approved make with visible contacts, large contact separation and indication of switch position; shall have adequate breaking capacity, fit for manual operation with a suitable handle; with automatic bimetallic and electromagnetic tripping mechanism having adjustable setting ranges as required. All MCCB shall conforms to IEC 60947-2 / IS 13947 the entire range of MCCB shall have $I_{cs} = 100\%$ of I_{cu} for 1 sec @ 440V AC confirm to IEC-60947. All the MCCB's are of 'C' curve hereon by if not mentioned. The current rating and fault current rating mentioned must be as per BOQ.

Miniature Circuit Breakers

Miniature circuit breakers shall be quick make and break type, and shall conform to relevant Indian Standards. The housing shall be heat resistant and having high impact strength. The fault current shall not be less than 10 KA at 230 volts. MCB's shall be flush mounted and shall be provided with trip free manual operating lever and "ON" and "OFF" indications. The contacts shall be provided to quench the arc immediately. MCB shall be provided with thermal and magnetic releases for over current and short circuit protection. The over load or a short circuit device shall have a common trip bar in the case of DP and TPN Miniature circuit breakers. All the MCCB's are of 'C' curve hereon by if not mentioned. The current rating and fault current rating mentioned must be as per BOQ.

The loading of MCB's Shall be as :

S.N.	MCB	No. of points
1	6 A SP MCB	Max. 10 nos. of light points or max 800 W
2	10 A SP MCB	Max 3 nos. of 13A 3 pin for computer
3	16 A SP MCB	Max 3 nos. of 15 A 3 pin power points
4	20 A DP MCB	1 no. of AC point.

Meters

All meters shall be housed in a separate compartment and accessible from front only. Lockable doors shall be provided for the metering compartment. The main Distribution Boards shall be provided with indicating panel comprising one number (0-500 V) voltmeter with 3 way "ON" and "OFF" selector switch and CT operated ammeter with 3 ways and neutral selector switch of appropriate range and scale. Wiring for meters shall be colour coded and labelled with approved plastic beads for

identification. Miniature circuit breaker shall accommodate the fork as well as pin type bus-bar circuit breaker shall have terminal capacity of 35 sq mm making it suitable for both Copper and Aluminium. The terminals shall have less temperature rise.

Current Transformer

Current transformer shall be provided for Distribution Boards where mentioned. All phases shall be provided with current transformer of accuracy class 1 and suitable VA burden for operation of associated metering.

Indicating Panel

All meters and indicating instruments shall be in accordance with relevant Indian Standards. The meters shall be flush mounted and draw out type. Indicating lamps shall be neon type and of low burden, and must be backed up with 2 amps MCB hereon by if not mentioned.

Earthing

25mm x 3mm copper tapes shall be provided for earthing of main Distribution Boards and connected to the framework of the Distribution Boards. Provision shall be made for connection from this earth bar to the main earthing bar on both sides of Distribution Board.

Painting

All sheet steel work shall undergo a process of decreasing, pickling in acid, cold rinsing, phosphating, passivizing and then sprayed with a high corrosion resistant primer, and then baked in an oven (Seven Tank Process). The powder coat shall be between 70-100 micron. The finishing treatment shall be by application of two coats of synthetic enamel paint of approved colour. Inspection of the panel before the painting and after the dispatch will be done by Consultant/Engineer to ensure the sheet thickness and quality of wiring and material.

Labels

Cross reference ferruling shall be used for the labelling. Engraved PVC labels shall be provided on all incoming and outgoing feeder switches. Circuit diagram showing the arrangements of the circuit inside the Distribution Board shall be pasted on inside of the panel door and covered with transparent plastic sheet.

Testing

All the Distribution Boards shall be subject to tests specified in relevant standards and test certificate shall be furnished.

Wiring

In wiring, a Distribution Board, it shall be insured that total load of various Distribution Boards and/or consuming devices is divided evenly between the phases and number of ways.

IP PBX System

Contactor shall do the testing and commissioning of IP PBX system as per the requirement of the Client upon the instruction from Consultant/Engineers.

Fire Alarm System

General

The total building shall be divided into different physical/virtual zones with Loop Networkable Addressable Type Fire Alarm Control Panel. Suitable number of smoke detector, heat detectors, multi detectors and beam detectors shall be provided at the ceiling/wall. Each closed room shall have a detector and the area with false ceiling shall have response indicator below the false ceiling. All the Fire Alarm Panel, Repeater Panel, Smoke detector, Heat detector, manual call point unit, response indicator unit, hooter and all the accessories shall be of a single manufacturing brand of standard product with EN54 and NFPA certification.

Testing and Installation

All tests shall be carried out in accordance with relevant Standard Code of Practice by the Local (Nepal) authorized OEM Partners. The Contractor shall provide necessary instruments equipment and labour for conducting the above tests and shall bear all expenses in connection with such tests. All tests shall be carried out in the presence of the Electrical Consultant/Engineer. The testing will be carried out for three (3) or more times for individual zones and whole system until the Consultant/Engineers get satisfied. During the type of testing physical test is compulsory i.e. with heat and smoke.

The location of the smoke detector, heat detectors, Manual Call Point and Hotter might be changed as per site conditions and coverage area since its only design drawing. The final location shall be purposed before installation and shall be approved by the Consultant/Engineer.

All the installation and testing shall be carried out by NFPA guidelines.

Fire Extinguisher

Fire extinguisher shall be of class Type C suitable to extinguish electrical fires. Fire extinguishers are filled with dry chemical or carbon dioxide.

CCTV/ Surveillance System

CCTV camera shall be installed in the common area places where security is required. CCTV shall include both indoor and outdoor type. All cameras will have POE (Power over Ethernet) power supply so that separate electrical point is not required.

The location of the CCTV might be changed as per site conditions and coverage area since its only design drawing. The final location shall be purposed before installation and shall be approved by the Consultant/Engineer.

A brief technical specification is in BOQ.

Standard and Make

All materials intended for light fixtures and fan shall be all new and as per specifications laid herein. The contactors must provide authorization from manufacture and before installation must provide test certification and manufacture supply certificate. Where equivalent types are available, samples must be submitted to the project for formal approval before procurement is made.

Testing of Installation

General

At the completion of the work, the entire installation shall be subject to the following tests:

- Wiring continuity test
- Insulation resistance test
- Earth continuity test.
- Earthing resistance test

Besides the above, any other test specified by the local authority shall also be carried out. All tested and calibrated instruments for testing, labour materials and incidentals necessary to conduct the above tests shall be provided by the Contractor at his own cost.

Testing of Wiring

All wiring systems shall be tested for continuity of circuits, short circuits, and earthing after wiring is completed and before installation is energised.

Insulation Resistance Tests

The insulation resistance shall be measured between earth and the whole system of conductors, or any section thereof, with all fuses in place and all switches closed and except in concentric wiring, all lamps in position of both poles of the installation otherwise electrically connected together, with a direct current pressure of not less than twice the working pressure provided that it does not exceed 660 volts for medium voltage circuits. Where the supply is derived from AC three phase systems, the neutral pole of which is connected to earth, either direct or through added resistance, pressure shall be deemed to be that which is maintained between the phase conductor and the neutral. The insulation resistance measured, as above shall not be less than 50 divided by the number of points provided on the circuit, the whole installation shall have an insulation resistance greater than One Mega Ohm.

The insulation resistance between the frame work of housing of power appliances and all live parts of each appliance shall not be less than that specified in the relevant standard specification or where there is no such specification, shall not be less than half a Mega Ohm.

Testing of Earth Continuity Path

The earth continuity conductor, metallic envelopes of cables shall be tested for electric continuity; and the electrical resistance of the same, including the earthing lead but excluding any added resistance or earth leakage circuit breaker, measured from the connection with the earth electrode to any point in the earth continuity conductor in the completed installation, shall not exceed one ohm.

Testing of Polarity of Non-Linked Single Pole Switch

In a two wire installation a test shall be made to verify that all non-linked single pole switches have been connected to the same conductor throughout, and such conductor shall be labelled or marked for connection to an outer or phase conductor or to the non-earthed conductor of the supply. In the three or four wire installation, a test shall be made to verify that every non-linked single pole switch is fitted to one of the outer or phase conductor of the supply.

Acceptance of the Installation Work

The entire electrical installation shall be subject to the final acceptance of the Engineer as well as the local authorities.

Relevant Standards

Following specifications and code or their latest revision shall apply under all circumstances.

i. Low voltage Molded Case Circuit Breaker	- IS 2516,1977
ii. Earthing	- IS 3043,1966
iii. Wiring installation	- IS 732,1963
iv. PVC cable	- IS 1554,1964
v. Distribution boards	- IS 2675,1966
vi. Bus bars and Bus chambers	- IS 375,1963
vii. Switch fuse units on cubicle switch boards	- IS 4047-1968
viii. Switch gear bus bars	- IS 375-1963
ix. Distribution fuse boards	- IS 2675-1966
x. Switch socket outlets	- IS 4615-1968
xi. Three pin plug and socket outlets	- IS 1293-1967
xii. Switches for domestic and similar purpose	- IS 3854-1966
xiii. Ceiling fans	- IS 374-1966
xiv. 1100 volt cable	- IS 692-1965

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| xv. Low tension circuit breaker | - IS 2516-1965 |
| xvi. Steel boxes for enclosure of electrical | - IS 5133-1969 |

Code of Practice

- | | |
|----------------------------------|----------------|
| Earthing | - IS 3043-1966 |
| Electrical Wiring/ Installations | - IS 732-1966 |
| Switchgears | - IS 3072-1966 |
| Lightening protection | - IS 2309-1969 |

Standard and Make

All materials intended for this project shall be all new and as per specifications laid herein. Where equivalent types are available, samples shall be submitted to the project for formal approval before procurement is made.

Co- ordination with other Trades

Since the electrical works will have to be carried out simultaneously with other trades, specially building construction works, proper coordination with these trades shall be maintained throughout the duration of works, so as to avoid any disputes or unnecessary increase in labour and materials. Hence the drawings shall be thoroughly studied and marked with necessary information laid along with dimensional details, if any, for other trades as well as for electricians. This is to ensure high standards of trade practice based in Codes of Practices.

Guarantee

After the completion of the work and before issuance of final certificate of virtual completion the contractor shall furnish a written guarantee by his acceptance of the contract that all work installed will be free from any defective materials and all defects and that all apparatus will develop capacities and characteristic specified and that if during a period of twelve (12) months from date of completion and acceptance work any such defects on workmanship or defective material, repair or otherwise correct the defects of deficiency without cost to the owner within a reasonable time. In the event of default on this guarantee by the contractor, the owner may have works done as required and charge the cost to the contractors.

Warranty

All the materials and equipment supplied and installed shall have a warranty period of at least 12 months from the date of official handover and commissioning. Within this period contractor shall repair or replace any faulty materials or equipment by new one if necessary.

Important Notice to Bidders:

1. Bidders are requested to quote prices of genuine and good quality products only. Any samples submitted if found duplicate and inferior quality will be rejected outright by concerned authority/consultant. Hence it is requested to take utmost care in filling up BOQ to avoid use of duplicate and inferior quality products.
2. Make and model no. of quoted items shall be mentioned in BOQ and a set of original catalogues of the quoted items shall be submitted along with the bid.

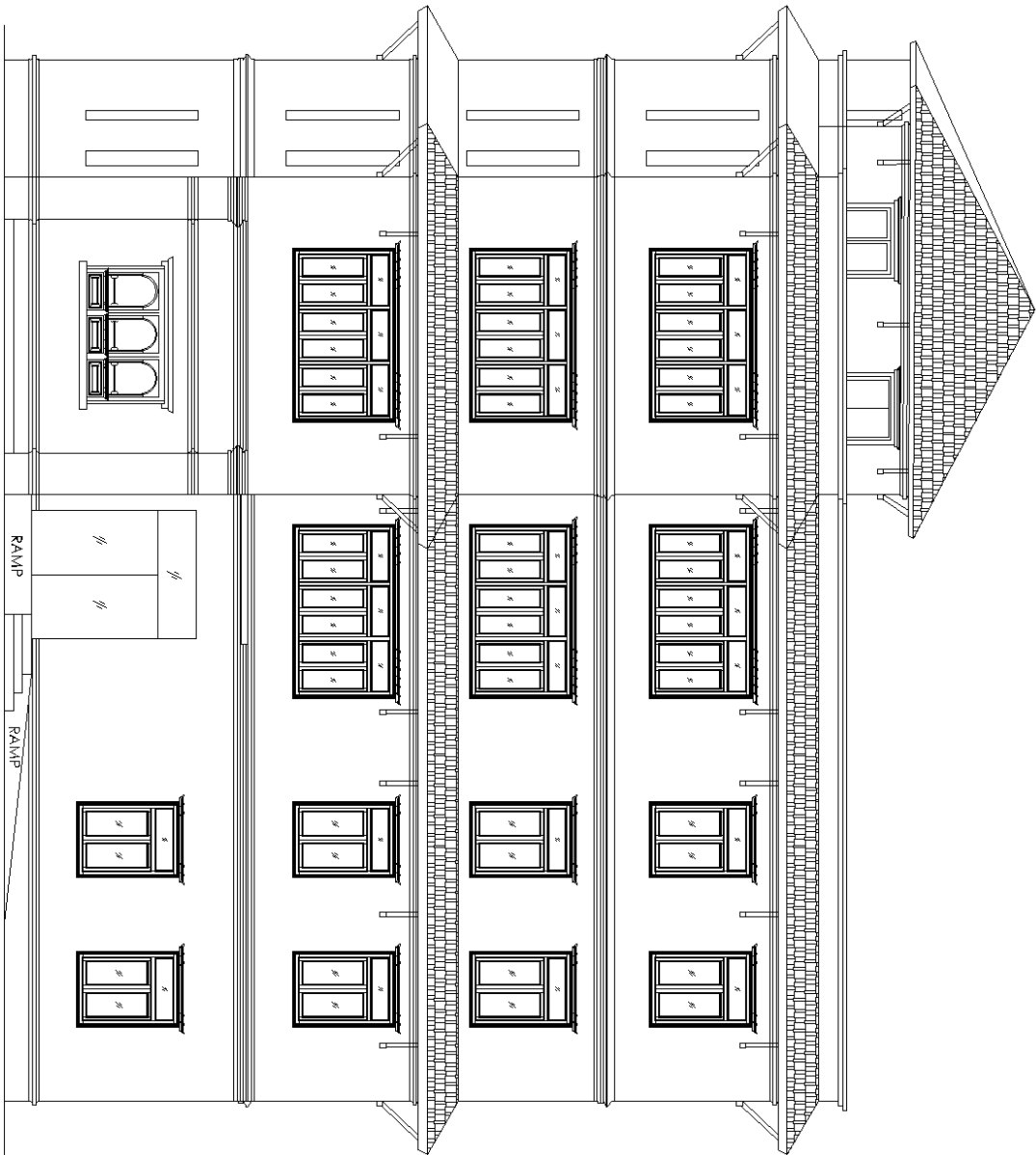
Designs are subject to change during contract negotiation and during implementation period due to site conditions and other reasons. In such cases amount of additional or deleted works shall be determined by as per clause 1 of this specification.

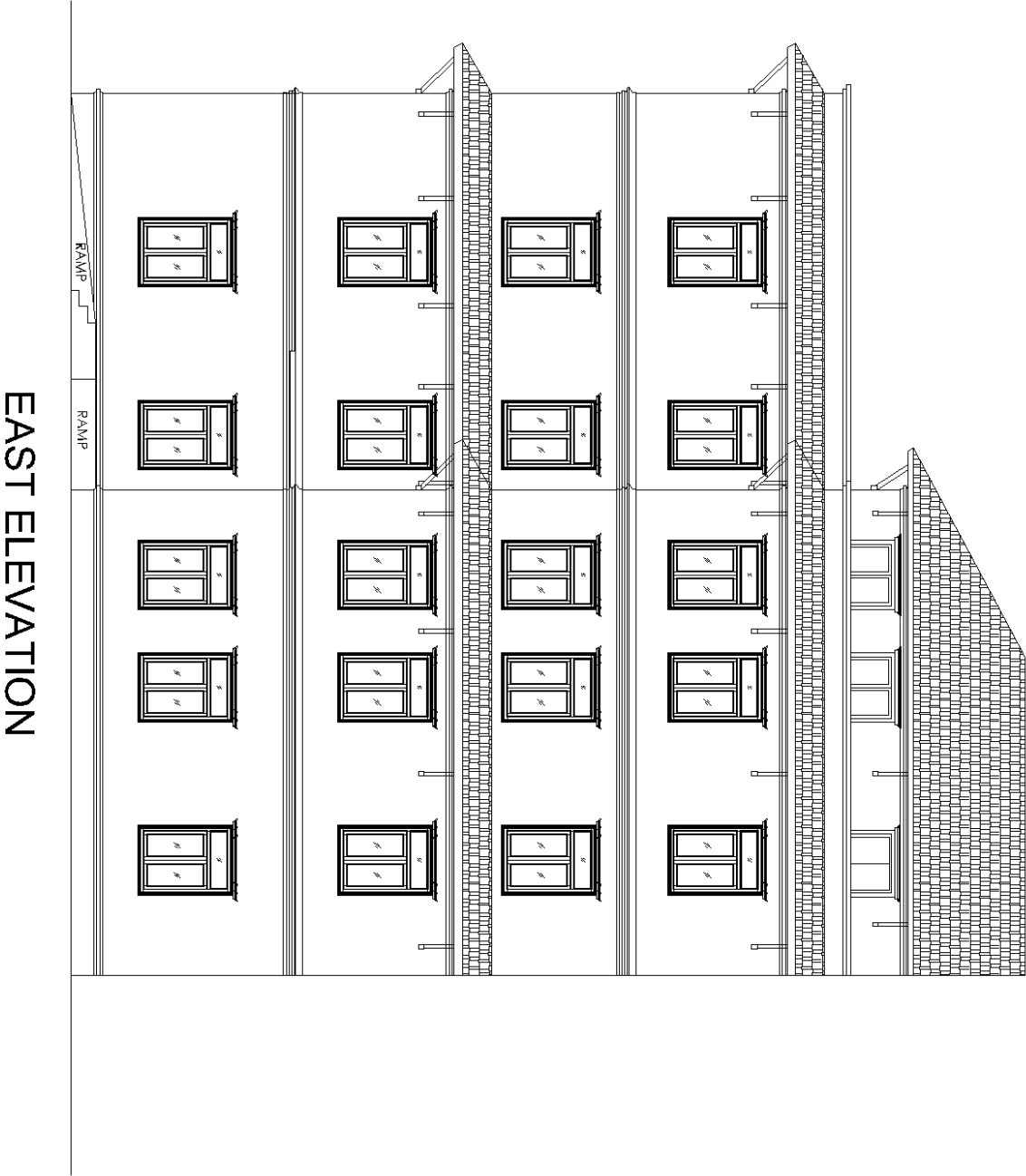
Drawings

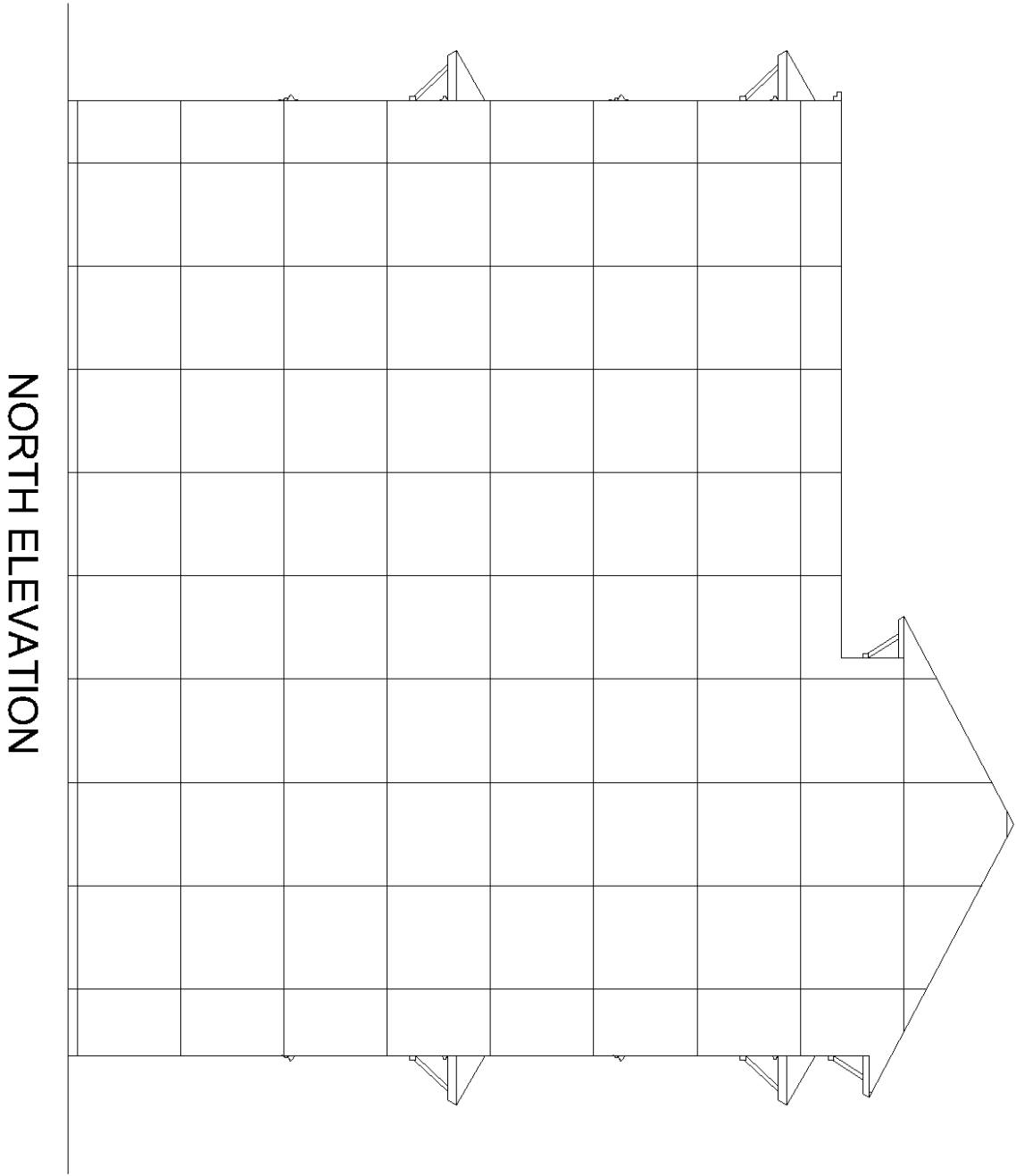
Note:

1. It is customary to bind the drawings in a separate volume, which is often larger than other volumes of the contract documents. The size will be dictated by the scale of the drawings, which must not be reduced to the extent that details are reduced illegible.
2. A simplified map showing the location of the Site in relation to the local geography, indicating major roads, ports, airports, and railroads, is helpful.
3. The construction drawings, even if not fully developed, must show sufficient details to enable bidders to understand the type and complexity of the work involved and the price the Bill of Quantities.

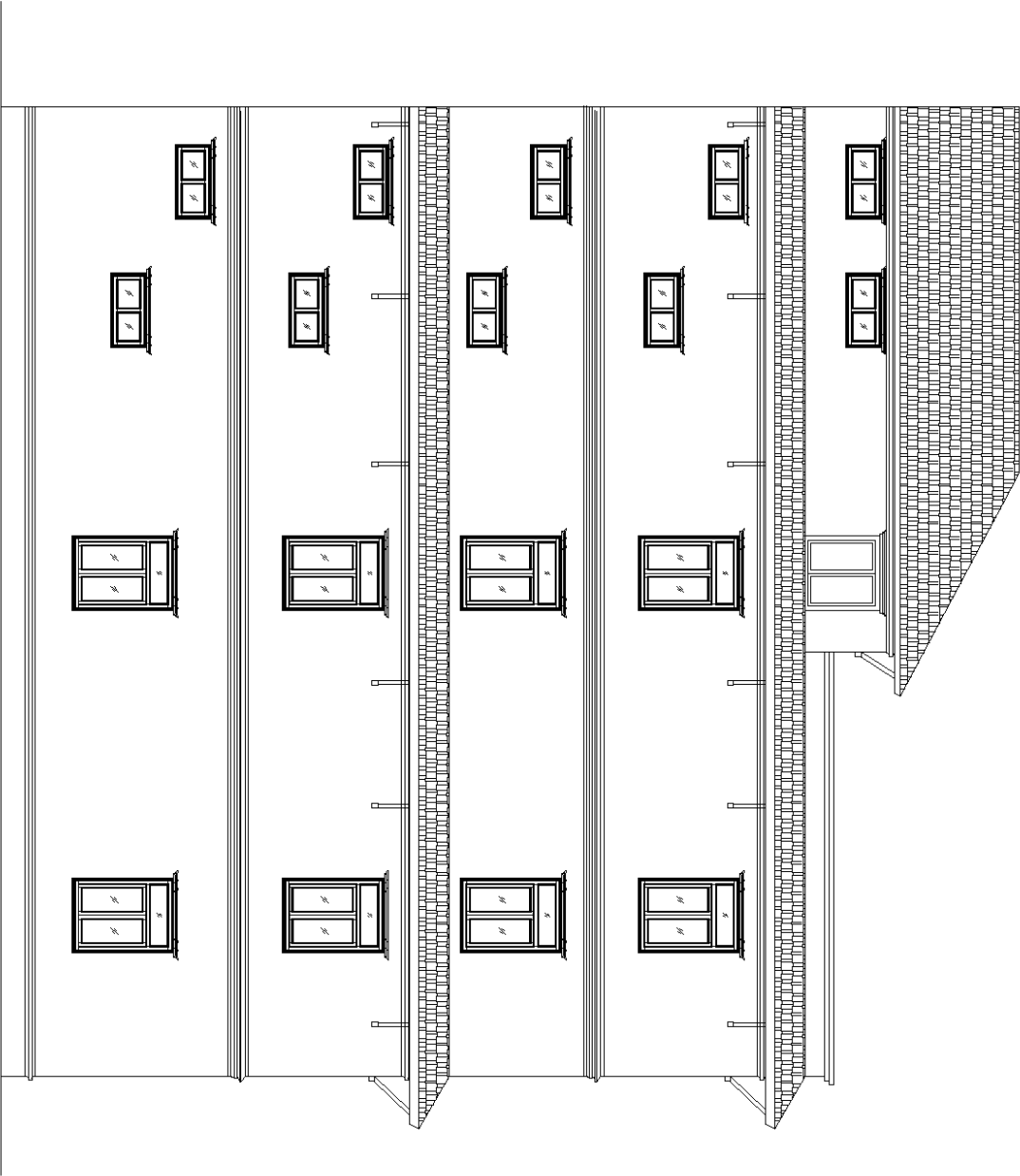
SOUTH ELEVATION



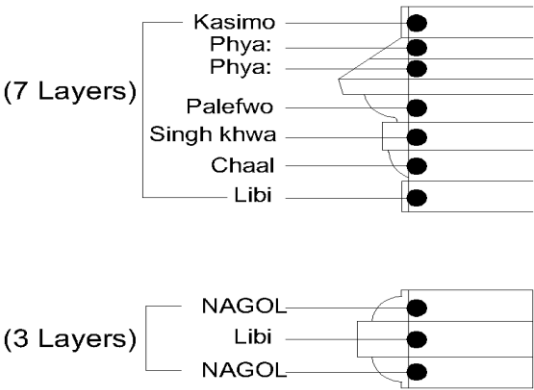




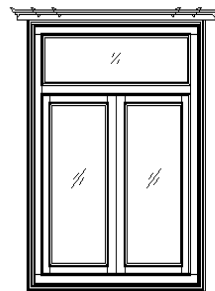
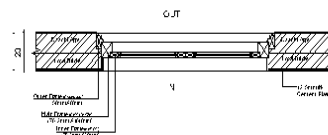
WEST ELEVATION



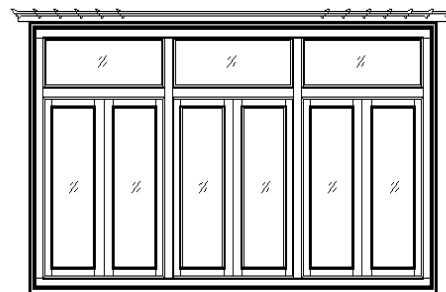
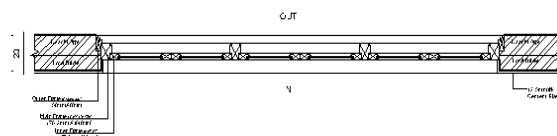




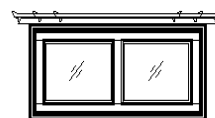
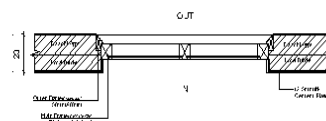
CORNICE DETAIL

ELEVATION

PLAN (4-25)

ELEVATION

PLAN (20)

ELEVATION

PLAN (20)



Supplementary Information

[insert supplementary information if any]

Personnel Requirements

Using Form PER-1 and PER-2 in Section IV (Bidding Forms), the Bidder must demonstrate it has personnel that meet the following requirements:

SN.	Position	Required No.	Academic Qualification <i>[When position demands]</i>	Total Work Experience [Years]	Experience in Similar Works [years]
1.					
2.					
3.					
4.					
5.					

Equipment Requirements

Using Form EQU in Section IV (Bidding Forms), the Bidder must demonstrate it has the key equipment listed below:

No.	Equipment Type and Characteristics	Min. Number Requirement
1.		
2.		
3.		
4.		
5.		

Section VII: Bill of Quantities⁹

Notes for Unit Rate Contracts:

Objectives

The objectives of the Bill of Quantities are

- (a) to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and*
- (b) when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.*

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Content

The Bill of Quantities should be divided generally into the following sections:

- (a) Preamble;*
- (b) Work Items (grouped into parts);*
- (c) Day works Schedule;*
- d) Provisional Sums; and*
- (d) Summary.*

Preamble

The Preamble should indicate the inclusiveness of the unit prices, and should state the methods of measurement which have been adopted in the preparation of the Bill of Quantities and which are to be used for the measurement of any part of the works.

Work Items

The items in the Bill of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. General items common to all parts of the works may be grouped as a separate section in the Bill of Quantities.

Day work Schedule

A Day work Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Employer of the realism of rates quoted by the Bidders, the Day work Schedule should normally comprise the following:

- (a) A list of the various classes of labour, materials, and Constructional Plant for which basic day work rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a day work basis.*

⁹In lump sum contracts, delete “Bill of Quantities” and replace with “Schedule of Activities” throughout this section.

- (b) *Nominal quantities for each item of Day work, to be priced by each Bidder at Day work rates as bid. The rate to be entered by the Bidder against each basic Day work item should include the Contractor's profit, overheads, supervision, and other charges.*

Provisional Sums

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.

Summary

The Summary should contain a tabulation of the separate parts of the Bill of Quantities carried forward, with provisional sums for Day work, for physical (quantity) contingencies, and for price contingencies (upward price adjustment) where applicable.

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 Engineer and the Contractor. Should the Contractor carry out such work without the prior agreement of the Engineer, the Engineer 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 Engineer'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 shall be in accordance with the Specifications.
10. The abbreviations and symbols used in this Bill of Quantities are: *[Insert as applicable]*

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 basic 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.

Provisional Sums

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Employer to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Bill of Quantities

(Bill of Quantities is attached in last pages)

Part III: CONDITIONS OF CONTRACT AND CONTRACT FORMS

***Name of Employer: - Bhaktapur Municipality, Office of
Municipal Executive, Byasi, Bhaktapur***

***Name of Project: - The Procurement of Khwopa Aspatal Parisar
Sahayak Puwadhar Nirman Karya (Finishing Karya)***

Contract Identification No.: bktmun/NCB/works/01/083/84

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Section VIII: General Conditions of Contract

General Conditions of Contract

This Section provides the General Conditions of Contract that will apply to the Contract for which the Bidding document is issued.

A. General	
1. Definitions	1.1 Boldface type is used to identify defined terms. (a) The Accepted Contract Amount means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects. (b) The Activity Schedule is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events. (c) Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid. (d) Compensation Events are those defined in GCC 50 hereunder. (e) The Completion Date is the date of completion of the Works as certified by the Project Manager, in accordance with GCC 68.1. (f) The Contract is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC 2.3 below. (g) The Contractor is the party whose Bid to carry out the Works has been accepted by the Employer. (h) The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer. (i) The Contract Price is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract. (j) Days are calendar days; months are calendar-months. (k) Dayworks are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant. (l) A Defect is any part of the Works not completed in accordance with the Contract. (m) The Defects Liability Certificate is the certificate issued by Project Manager upon correction of defects by the Contractor. (n) The Defects Liability Period is the period calculated from the Completion Date where the Contractor remains responsible for remedying defects. (o) Drawings include calculations and other information provided or

	approved by the Project Manager for the execution of the Contract. (p) The Employer is the party who employs the Contractor to carry out the Works, as specified in the SCC. (q) Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works. (r) Force Majeure means an exceptional event or circumstance: which is beyond a Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other Party. (s) The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance. (t) In writing or written means hand written, type written, printed or electronically made, and resulting in permanent record. (u) The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the SCC. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order. (v) Letter of Acceptance means the formal acceptance by the Employer of the Bid and denotes the formation of the contract at the date of acceptance. (w) Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works. (x) Party means the Employer or the Contractor, as the context requires. (y) SCC means Special Conditions of Contract (aa) Plant is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function. (bb) The Project Manager is the person named in the SCC (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract. (cc) Retention Money means the aggregate of all monies retained by the Employer pursuant to GCC 54.1. (dd) Schedules means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Bids, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices. (ee) The Site is the area defined as such in the SCC (ff) Site Investigation Reports are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site. (gg) Specification means the Specification of the Works included in the
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	Contract and any modification or addition made or approved by the Project Manager. (hh) The Start Date is given in the SCC. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates. (ii) A Subcontractor is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site. (jj) Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works. (kk) A Variation is an instruction given by the Project Manager which varies the Works. (ll) The Works are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the SCC.
2. Interpretation	2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.
	2.2 If sectional completion is specified in the SCC, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
	2.3 The documents forming the Contract shall be interpreted in the following order of priority: (a) Contract Agreement, (b) Letter of Acceptance, (c) Letters of Technical Bid and Price Bid, (d) Special Conditions of Contract, (e) General Conditions of Contract, (f) Specifications, (g) Drawings, (h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and (i) Any other document listed in the SCC as forming part of the Contract.
3. Language and Law	3.1 The language of the Contract and the law governing the Contract are stated in the SCC.
	3.2. Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when (a) 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 Employer's Country prohibits any import of goods from, or any payments to, a particular country, person, or entity. Where the employer's country prohibits payments to a particular firm or for particular goods by such an act of compliance, that firm may be excluded.
4. Contract Agreement	4.1 The Parties shall enter into a Contract Agreement within 15 days after the Contractor receives the Letter of Acceptance, unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the attached Contract forms in Section X.
	4.2 Without altering the basic nature or scope of work, the contract may be amended upon mutual written consent as per prevailing Public Procurement Law.
5. Assignment	5.1 Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party (a) may assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party; and (b) may, as security in favor of a bank or financial institution, assign its right to any moneys due, or to become due, under the Contract.
6. Care and Supply of Documents	6.1 The Specification and Drawings shall be in the custody and care of the Employer. Unless otherwise stated in the Contract, one copy of the Contract and of each subsequent Drawing shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
	6.2 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Employer. Unless otherwise stated in the Contract, the Contractor shall supply to the Engineer six copies of each of the Contractor's Documents.
	6.3 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Employer's Personnel shall have the right of access to all these documents at all reasonable times.
	6.4 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.
7. Confidential Details	7.1 The Contractor's and the Employer's Personnel shall disclose all such confidential and other information as may be reasonably required in order to verify the Contractor's compliance with the Contract and allow its proper implementation.
	7.2 Each of them shall treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However,

	the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects. 7.3 Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Employer to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this Clause.
8. Compliance with Laws	8.1 The Contractor shall, in performing the Contract, comply with applicable Laws of Nepal.
9. Joint and Several Liability	9.1 If the Contractor is a joint venture of two or more entities, all such entities shall be jointly and severally liable to the Employer for the fulfillment of the provisions of the Contract, and shall designate one of such persons to act as a leader with authority to bind the joint venture. The contractor shall not handover the responsibility of the contract to any one member or some members of Joint Venture or any other parties, not involved in the contract. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.
10. Project Manager's Decisions	10.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
11. Delegation	11.1 The Project Manager may delegate any of his duties and responsibilities to other people after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
12. Communications	12.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices and requests, these communications shall be: (a) in writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the SCC; and (b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract. However: (i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and (ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued. Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. 12.2 A Notice shall be effective when delivered or on the Notice's effective date, whichever is later.

13. Subcontracting	13.1 For GON Funded: A list of approved Subcontractors including its value/works is included as Article 2 (k) of Contract Agreement Approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties, or responsibilities under the contract. For DP Funded: The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. Bidders may propose subcontracting up to the percentage of total value of contracts as specified in the SCC. The Sub contractor shall meet the qualification requirement as specified in SCC. 13.2 The contractor shall give prior notice to the Employer clearly specifying the nature, scope, and responsibilities of the work to be performed, to engage other subcontractors, material suppliers, equipment suppliers, service providers, or other persons or entities during the implementation of the contract. 13.3 Before notifying the Employer as per GCC 13.2, the contractor shall enter into a written agreement with the subcontractors, material suppliers, equipment suppliers, service providers, or other persons or entities clearly specifying the scope of work, responsibilities, quality requirements, duration, payment terms, security, labor-related obligations, and conditions relating to performance of the work. 13.4 Any subcontracting arrangement made in accordance with GCC 13.2 shall not relieve the Contractor of any of its obligations or liabilities under the Contract. 13.5 The contractor shall provide the Employer with details of the payments made to the subcontractors, material suppliers, equipment suppliers, service providers, or other persons or entities engaged under GCC 13.1 and/or GCC 13.2. 13.6 If the contractor is found not to have made payment to the subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities engaged under GCC 13.1 and/or GCC 13.2 in accordance with the terms of the agreement, the Employer may determine the amount payable to such subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities and make payment to them from any remaining dues to be paid to the contractor, retention money, or forfeited performance security.
14. Other Contractors	14.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the SCC. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and

	shall notify the Contractor of any such modification
15 Personnel and Equipment	15.1 The Contractor shall employ the key personnel and use the equipment identified in its Bid to carry out the Works, or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.
	15.2 If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.
	15.3 If the Employer, Project Manager, or Contractor determines, that any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or other prohibited practices during the execution of the Works, then that employee shall be removed in accordance with Clause 15.2 above.
16. Employer's and Contractor's Risk	16.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.
17. Employer's Risks	17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks: (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or (ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor. (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.
	17.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to (a) a Defect which existed on the Completion Date, (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or (c) the activities of the Contractor on the Site after the Completion Date.
18. Contractor's	18.1 From the Starting Date until the Defects Liability Certificate has been issued,

Risks	the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.
19. Insurance	19.1 The Contractor shall provide insurance in the joint names of the Employer and the Contractor from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the SCC for the following events which are due to the Contractor's risks: (a) loss of or damage to the Works, Plant, and Materials; (b) loss of or damage to Equipment; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and (d) Personal injury or death. 19.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the proportions of Nepalese Rupees required to rectify the loss or damage incurred. 19.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due. 19.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager. 19.5 Both parties shall comply with any conditions of the insurance policies.
20. Site Investigation Reports	20.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC , supplemented by any information available to the Contractor.
21. Contractor to Construct the Works	21.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
22. The Works to Be Completed within intended Completion Date	22.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them within the intended Completion Date.
23. Design by	23.1 The contractor shall be responsible for the design of permanent works as

contractor and Approval by the Project Manager	specified in SCC.
	23.2 Contractor shall be responsible for design of the Temporary Works. The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.
	23.3 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, shall be subject to prior approval by the Project Manager before their use.
	23.4 The Project Manager's approval shall not alter the Contractor's responsibility for design of temporary works.
24. Safety, Security and Protection of the Environment	24.1 The Contractor shall, throughout the execution, and completion of the works and remedying of any defects therein: a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so as the same is under his control) and the works (so far as the same are not completed or occupied by the Employer) in an orderly state appropriate to the avoidance of danger to such persons. b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others. c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion. e. Any spoil or material removed from drains shall be disposed of to designated stable tipping areas as directed by the Project Manager. f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works. g. The Project Manager shall have the power to disallow any working practice or activity of the Contractor or direct that such practices or activities be modified should the Project Manager consider, on the advice of the relevant Government Departments, that the practices or activities will be harmful to wildlife. h. Provide on the Site such lifesaving apparatus as may be appropriate and an adequate and easily accessible first aid outfit or such outfits as may be required by any government ordinance, factory act, etc., subsequently published and amended from time to time.
	24.2 The Contractor shall comply with the Employer's Occupational Health and Safety (OHS) Policy, Guideline and/or Operating Manual, if any, as specified in the SCC.
25. Discoveries	25.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

26. Possession of the Site	26.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the SCC , the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
27. Access to the Site	27.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
28. Instructions, Inspections and Audits	28.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.
	28.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub consultants to keep accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.
	28.3 The Contractor shall permit the GoN/DP and/or persons appointed by the GoN/DP to inspect the Site and/or the accounts and records of the Contractor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the GoN/DP if required by the GoN/DP. The Contractor's attention is drawn to Sub-Clause 73.2 which provides, inter alia, that acts intended to materially impede the exercise of the GoN's/DP's inspection and audit rights provided for under this Sub-Clause constitute a obstructive practice subject to contract termination.
29. Dispute Settlement	29.1 The Employer and the Contractor shall attempt to settle amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the Contract.
	29.2 Any dispute between the Parties as to matters arising pursuant to this Contract which cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party 's request for such amicable settlement may be referred to Arbitration within 30 days after the expiration of amicable settlement period.
30. Procedures for Disputes	30.1 In case of arbitration, the arbitration shall be conducted in accordance with the arbitration procedures in accordance with law of Nepal at the place within the territory of Nepal given in the SCC .
B1. Staff and Labor	
31. Forced Labor	31.1 The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty. This covers any kind of involuntary or compulsory labor, such as indentured labor, bonded labor, or similar labor–contracting arrangements.
32. Child Labor	32.1 The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where national laws have provisions for employment of minors, the Contractor shall follow those

	laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.
33. Non-discrimination and Equal Opportunity	33.1 The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employment or retirement, and discipline. In countries where national law provides for non-discrimination in employment, the Contractor shall comply with national law. When national laws are silent on nondiscrimination in employment, the Contractor shall meet this Sub clause's requirements. Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination.
B. Time Control	
34. Program	34.1 Within the time stated in the SCC , after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.
	34.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.
	34.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period stated in the SCC . If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall Provide an updated Activity Schedule within 15 days of being instructed to by the Project Manager.
	34.4 The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.
35. Extension of the Intended Completion Date	35.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.
	35.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information at least 21 days prior

	to the intended completion date. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date. Along with full supporting information, the contractor shall also submit a revised work schedule and ensure that the Performance Security, Insurance, and Advance Payment Security (if any) remain valid. The contractor shall submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents, as required with extended validity, within fifteen (15) days of receiving the Letter of Extension of Intended Completion Date from the Employer.
	35.3 If the contractor fails to submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents, as required with extended validity within the prescribed time as per GCC 35.2, the Contractor shall pay a fine at the rate of 0.01% of the final contract price (without VAT but including PS) per day for a maximum of fifteen (15) days. The Employer may deduct the fine from payments due to the Contractor.
36. Acceleration	36.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor. 36.2 If the Contractor's priced proposals for acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.
37. Delays Ordered by the Project Manager	37.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.
38. Management Meetings	38.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure. 38.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.
39. Early Warning	39.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible. 39.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance

	can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.
C. Quality Control	
40. Identifying Defects	40.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.
41. Tests	41.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
42. Correction of Defects	42.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at issuance of taking over certificate pursuant to GCC clause 69.2, and is defined in the SCC . The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
	42.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.
43. Uncorrected Defects	43.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.
D. Cost Control	
44. Contract Price	44.1 In the case of a Unit Rate contract, the Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.
	44.2 In the case of a lump sum contract, the Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for Materials on Site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.
45. Changes in the Contract Price	45.1 In the case of a Unit Rate contract: (a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 2 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. (b) If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the

	Bill of Quantities.
	45.2 In the case of a lump sum contract, the Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.
46. Variations	46.1 All Variations shall be included in updated Programs, and, in the case of a lump sum contract, also in the Activity Schedule, produced by the Contractor.
	46.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.
	46.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.
	46.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
	46.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.
	46.6 In the case of a Unit Rate contract, if the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in GCC 45.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.
47. Cash Flow Forecasts	47.1 When the Program, or, in the case of a lump sum contract, the Activity Schedule, is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.
48. Payment Certificates	48.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
	48.2 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor within 30 days of submission by contractor.
	48.3 The value of work executed shall be determined by the Project Manager.

	48.4 The value of work executed shall comprise: (a) In the case of a Unit Rate contract, the value of the quantities of work in the Bill of Quantities that have been completed; or (b) In the case of a lump sum contract, the value of work executed shall comprise the value of completed activities in the Activity Schedule.
	48.5 The value of work executed shall include the valuation of Variations and Compensation Events.
	48.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
49. Payments	49.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest as indicated in the SCC on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made.
	49.2 If an amount certified is increased in a later certificate or as a result of an award by an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.
	49.3 Items of the Works for which no rate or price has been entered in BOQ shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
50. Compensation Events	50.1 The following shall be Compensation Events: (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 26.1. (b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract. (c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time. (d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects. (e) The Project Manager unreasonably does not approve a subcontract to be let. (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.

	(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons. (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor. (i) The advance payment is delayed. (j) The effects on the Contractor of any of the Employer's Risks. (k) The Project Manager unreasonably delays issuing a Certificate of Completion.
	50.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
	50.3 As soon as information demonstrating effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.
	50.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.
51. Tax	51.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC 53.
52. Currency	52.1 The currency of Contracts shall be Nepalese Rupees.
53. Price Adjustment	53.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the SCC. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due.
	53.2 Adjustment Formulae¹⁰: The formulae will be of the following general type:

¹⁰ For complex Works involving several types of construction work with different inputs, a family of Formulae will be necessary. The various items of Day work may also require different formulae, depending on the nature and source of the inputs

	$pn = A + b \frac{Ln}{Lo} + c \frac{Mn}{Mo} + d \frac{En}{Eo} + etc.$ Where: <i>pn</i> is a price adjustment factor to be applied to the amount for the payment of the work carried out in the subject month, determined in accordance with Clause 49; <i>A</i> is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;¹¹ <i>b</i>, <i>c</i>, <i>d</i>, etc., coefficients representing the estimated proportion of each cost element (labor, materials, equipment usage, etc.) in the Works or sections thereof, net of Provisional Sums, as specified in the SCC; <i>Ln</i>, <i>Mn</i>, <i>En</i>, etc., are the current cost indices or reference prices of the cost elements for month “n,” determined pursuant to Sub-Clause 53.4, applicable to each cost element; and <i>Lo</i>, <i>Mo</i>, <i>Eo</i>, etc., are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4. 53.3 Sources of Indices and Weightings: The sources of indices shall be those listed in the Bidding Forms- Table of Price Adjustment data, as approved by the Project Manager and stated in SCC. Indices shall be appropriate for their purpose and shall relate to the Contractor’s proposed source of supply of inputs on the basis of which his Contract shall have been computed. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightings and Source of Indices in the Bidding Forms, which shall be subject to approval by the Project Manager. 53.4 Base, Current and Provisional Indices: The base cost indices or prices shall be those prevailing on the day 30 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 30 days prior to the last day of the period to which a particular Interim Payment Certificate is related. If at any time the current indices are not available, provisional indices as determined by the Project Manager will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available. 53.5 Weightings: The weightings for each of the factors of cost given in the Bidding Forms shall be adjusted if, in the opinion of the Project Manager, they have been rendered unreasonable, unbalanced or inapplicable as a result of varied or additional work already executed or instructed under Clause 46 or for any other reason. 53.6 Where, price adjustment provision is not applicable pursuant to Sub-clause 53.1 then the Contract is subject to price adjustment only for construction
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¹¹ Insert a figure for factor A only where there is a part of the Contractors’ expenditures which will not be subject to fluctuation in cost or to compensate for the unreliability of some indices. A should normally be 0.15. The sum of A, b, c, d, etc., should be one.

	material in accordance with this clause. If the prices of the construction materials stated in the contract is increased or decreased in an unexpected manner in excess of ten (10%) percent in comparison to the base price construction material stated in Section –IV, Bidding Forms-Table of Price Adjustment Data, then the price adjustment for the increase or decrease of price of the construction material beyond 10% shall be made by applying the following formulas: For unexpected increase in price $P = [R_1 - (R_0 \times 1.10)] \times Q$ For unexpected decrease in price P $= [R_1 - (R_0 \times 0.90)] \times Q$ Where: “P” is price adjustment amount “R₁” is the present price of the construction material (Source of indices shall be those listed in the Bidding forms) “R₀” is the base price of the construction material “Q” is quantity of the construction material consumed in construction during the period of price adjustment consideration If the Base price and source is to be proposed by the Bidder as per the provision made in Section –IV, Bidding Forms-Table of Price Adjustment Data then the Base price and source filled by Bidder for the construction material stated in the Bidding Form shall be subject to the approval of the Project manager and shall be as stated in SCC. 53.7 The Price Adjustment amount shall be limited to a maximum of the initial Contract Amount as specified in the SCC. 53.8 The Price Adjustment provision shall not be applicable for delayed period if the contract is not completed in time due to the delay caused by the contractor or the contract is a Lump sum Contract.
54. Retention	54.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the SCC until Completion of the whole of the Works. 54.2 Upon the issue of a Defects Liability Certificate by the Project Manager, in accordance with GCC 70.1, half the total amount retained shall be repaid to the Contractor and half when the Contractor has submitted the evidence of submission of tax return to the concerned Internal Revenue Office. 54.3 The Contractor may substitute retention money with an unconditional bank guarantee issued from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law if: (a) at least eighty (80) percent of the whole works have been completed, (b) progress of the works is satisfactory in accordance with the Contract as per approved work schedule, and

	(c) it can be assured that the works can be completed at the intended completion date. The validity of the bank guarantee under this sub-clause shall be at least 30 days beyond the end of Defect Liability Period.
	54.4 If retention money is substituted by bank guarantee in accordance with clause 54.3, the bank guarantee shall be submitted either using the Retention Money Security Form included in Section X (Contract Forms) or in another Form acceptable to the employer. The validity of the bank guarantee shall be at least one month more than the end of defect liability period.
55. Liquidated Damages	55.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the SCC for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the SCC. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.
	55.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC 49.
56. Bonus	56.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day stated in the SCC for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.
57. Advance Payment	57.1 Unless otherwise stated in SCC, the Employer shall make advance payment to the Contractor of the amounts stated in the SCC in a separate bank account maintained for the contract in two equal installments by the date stated in the SCC, against provision by the Contractor of an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in a form acceptable to the Employer in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment. The validity of the bank guarantee under this sub-clause shall be at least 30 days beyond the end of intended completion date. The contractor shall submit the list of activities for which the Advance Payment for mobilization is to be used along with their time schedules.
	57.2 The Contractor is to use the advance payment only to pay for the purpose

	of construction site preparation, establishment of temporary camp facilities, construction of workers' housing, mobilization of labors, materials or equipment etc. required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.
	57.3 The advance payment shall be repaid by deducting proportionate amounts, as stated in SCC , from payments otherwise due Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.
	57.4 If the advance provided under GCC 57.1 is not repaid due to non-performance of the works under the contract, by the Contractor within the time period specified in the Contract, the Employer shall recover the advance by enforcing the bank guarantee as provided under GCC 57.1, and shall also recover interest on the advance amount from the Contractor at a rate stated in SCC .
58. Securities	58.1 The Performance Security, including any additional security required as per ITB 35.5, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the SCC , by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in accordance with the conditions of Contract using Sample Form for the Performance Security included in Section X (Contract Forms), or another form acceptable to the Employer, and denominated in Nepalese Rupees. The Performance Security shall be valid until a date 30 days beyond the end of the Defect Liability Period. However, any additional performance security required as per ITB 35.5 shall be valid until a date 30 days beyond the end of the intended completion date.
	58.2 The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.
59. Dayworks	59.1 If applicable, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.
	59.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.
	59.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.
60. Cost of Repairs	60.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

F. Force Majeure	
61. Definition of Force Majeure	61.1 In this Clause, “Force Majeure” means an exceptional event or circumstance, (a) which is beyond a Party’s control; (b) which such Party could not reasonably have provided against before entering into the Contract; (c) which, having arisen, such Party could not reasonably have avoided or overcome; and (d) which is not substantially attributable to the other Party.
	61.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied: (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies; (b) rebellion, terrorism, sabotage by persons other than the Contractor’s Personnel, revolution, insurrection, military or usurped power, or civil war; (c) riot, commotion, disorder, strike or lockout by persons other than the Contractor’s Personnel; (d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor’s use of such munitions, explosives, radiation or radio-activity; and (e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
62. Notice of Force Majeure	62.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
	62.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
	62.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.
63. Duty to	63.1 Each Party shall at all times use all reasonable endeavors to minimize any

Minimize Delay	delay in the performance of the Contract as a result of Force Majeure.
	63.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.
64. Consequences of Force Majeure	64.1 If the Contractor is prevented from performing its substantial obligations under the Contract by Force Majeure of which notice has been given under GCC 62, and suffers delay and/or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to GCC 30 to (a) an extension of time for any such delay, if completion is or will be delayed, under GCC35; and (b) if the event or circumstance is of the kind described in subparagraphs (a) to (d) of GCC 61.2 and, in the case of subparagraphs (b) to (d), occurs in the Country, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.
	64.2 After receiving this notice, the Project Manager shall proceed in accordance with GCC 10 to agree or determine these matters.
65. Force Majeure Affecting Subcontractor	65.1 If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's nonperformance or entitle him to relief under this Clause.
66. Optional Termination, Payment and Release	66.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 90 days by reason of Force Majeure of which notice has been given under GCC 62, or for multiple periods which total more than 150 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with GCC 72.5.
	66.2 Upon such termination, the Project Manager shall determine the value of the work done and issue a Payment Certificate, which shall include (a) the amounts payable for any work carried out for which a price is stated in the Contract; (b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer, and the Contractor shall place the same at the Employer's disposal; (c) other Costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of

	completing the Works; (d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and (e) the Cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.
67. Release from Performance	67.1 Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises, which makes it impossible or unlawful for either or both Parties to fulfill its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance, (a) the Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract; and (b) the sum payable by the Employer to the Contractor shall be the same as would have been payable under GCC 66 if the Contract had been terminated under GCC 66.
G. Finishing the Contract	
68. Completion	68.1 The Contractor shall request the Project Manager to issue a certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the work is completed. 68.2 In addition to the other provisions, before acceptance of the completed works, Employer shall verify and assure that such works are within the set objective, quality and appropriate to operate and use.
69. Taking Over	69.1 In the contractor's Opinion, if the works are complete and ready for taking over, the contractor may apply by notice to the Project Manager for a Taking-Over Certificate. If the Works are divided into Sections, the Contractor may similarly apply for a Taking-Over Certificate for each Section. 69.2 The Project Manager shall, within 30 days after receiving the Contractor's application: (a) issue the Taking-Over Certificate to the Contractor if physical progress of works is at least ninety (90) percent in accordance with the Contract except for any minor outstanding work and defects (as listed in the Taking-Over Certificate) which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or (b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.

	69.3 If the Engineer fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially completed in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on the last day of that period.
70. Final Account	70.1 The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 60 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 60 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.
71. Operating and Maintenance Manuals	71.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the SCC .
	71.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC pursuant to GCC 71.1 , or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount stated in the SCC from payments due to the Contractor.
72. Termination	72.1 The Employer may terminate the Contract at any time if the contractor; a. does not commence the work as per the Contract, b. abandons the work without completing, c. fails to achieve progress as per the Contract.
	72.2 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
	72.3 Fundamental breaches of Contract shall include, but shall not be limited to, the following: a. the Contractor uses the advance payment for matters other than the contractual obligations, b. the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager; c. the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days; d. the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation. e. a payment certified by the Project Manager is not paid by the Employer to the Contractor within 90 days of the date of the Project Manager's certificate; f. the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager; g. the Project Manager gives two consecutive Notices to update the Program and accelerate the works to ensure compliance with GCC Sub

	clause 22.1 and the Contractor fails to update the Program and demonstrate acceleration of the works within a reasonable period of time determined by the Project Manager; h. the Contractor does not maintain a Security, which is required; i. the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the SCC; and j. If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to GCC 73.1. k. If the Contractor fails to submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents even after the time period indicated in GCC 35.3. 72.4 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC 72.3 above, the Project Manager shall decide whether the breach is fundamental or not. 72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience. 72.6 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.
73. Fraud and Corruption	73.1 If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 15 days' notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site. 73.2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with GCC Clause 15. For the purposes of this GCC 73; (i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party. (ii) "fraudulent practice"⁵ is 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) "collusive practice"⁶ is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; (iv) "coercive practice"⁷ is 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; (v) "obstructive practice" is (aa) deliberately destroying, falsifying, altering or concealing of

	evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (bb) acts intended to materially impede the exercise of the GON's/DP's inspection and audit rights provided for under GCC28.3.
	73.3 The contractor shall be prosecuted for offenses under prevailing criminal laws, if the contractor: (i) Misuses the Advance Payment or payments received from the Employer; (ii) Receives payment by submitting false information or documents; (iii) Abandons the works before completion; (iv) Commits a serious violation of the contract; or (v) Causes loss or damage to the Employer.
74. Black Listing	74.1 Without prejudice to any other rights of the Employer under this Contract, GoN, Public Procurement Monitoring Office (PPMO), on the recommendation of procuring entity, may blacklist a Bidder or contractor for its conduct for a period of one (1) to three (3) years on the following grounds and seriousness of the act committed by the bidder or contractor: (a) if it is established that the Contractor has committed substantial defect in implementation of the contract or has not substantially fulfilled its obligations under the contract or the completed work is not of the specified quality as per the contract. (b) If convicted from a court of law in a criminal offense liable to be disqualified for taking part in procurement contract, (c) If it is established that the Contractor has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
75. Payment upon Termination	75.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer. 75.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate. 75.3 If the Contract is terminated because of fundamental breach of Contract or for any other fault by the Contractor, the Employer may: (a) withhold further payments to the Contractor until the costs of design, execution, completion and remedying of any defects, liquidated damages (if any), and all other costs incurred by the Employer, have been established, and/or (b) recover from the Contractor any losses and damages incurred by the

	Employer and any additional costs of completing the Works, after allowing for any sum due to the Contractor, as Government dues. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor. (c) forfeit the Performance Security. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
76. Property	76.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.
77. Release from Performance	77.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.
78. Suspension of DP Loan/Credit/Grant	78.1 In the event that the DP suspends the loan/ credit/grant to the Employer from which part of the payments to the Contractor are being made: a. the Employer is obligated to notify the Contractor of such suspension within 7 days of having received the DP's suspension notice; and b. if the Contractor has not received sums due him within the 30 days for payment provided for in GCC 49.1, the Contractor may immediately issue a 15-day termination notice.
79. Eligibility	79.1 The Contractor shall have the nationality of an eligible country as specified in Section V of the bidding document. The Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, or incorporated, 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. 79.2 The materials, equipment, and services to be supplied under the Contract shall have their origin in eligible source countries as specified in Section V of the bidding document and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, the Contractor may be required to provide evidence of the origin of materials, equipment, and services. 79.3 For purposes of GCC 79.2, "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.
80. Project Manager's Duties and Authorities	80.1 The Project Manager's duties and authorities are restricted to the extent as stated in the SCC.

81. Quarries and Spoil Dumps	81.1 Any quarry operated as part of this Contract shall be maintained and left in a stable condition without steep slopes and be either refilled or drained and be landscaped by appropriate planting. Rock or gravel taken from a river shall be removed over some distance so as to limit the depth of material removed at any one location, not disrupt the river flow or damage or undermine the river banks. The Contractor shall not deposit excavated material on land in Government or private ownership except as directed by the Project Manager in writing or by permission in writing of the authority responsible for such land in Government ownership, or of the owner or responsible representative of the owner of such land in private ownership, and only then in those places and under such conditions as the authority, owner or responsible representative may prescribe.
82. Local Taxation	82.1 The prices bid by the Contractor shall include all taxes that may be levied in accordance to the laws and regulations in being in Nepal on the date 30 days prior to the closing date for submissions of Bids on the Contractor's equipment, plant and materials acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor from his responsibility to pay any tax that may be levied in Nepal on profits made by him in respect of the Contract.
83. Value Added Tax	83.1 The Contract is not exempted from value added tax. An amount specified in the schedule of taxes shall be paid by the Contractor in the concerned VAT office within time frame specified in VAT regulation.
84. Income Taxes on Staff	84.1 The Contractor's staff, personnel and labor will be liable to pay personal income taxes in Nepal in respect of their salaries and wages, as are chargeable under the laws and regulations for the time being in force, and the Contractor shall perform such duties in regard to such deductions as may be imposed on him by such laws and regulations.
	84.2 The issue of the Final Account Certificate pursuant to clause GCC 70 shall be made only upon submittal by the Contractor of a certificate of income tax clearance from the Government of Nepal.
85. Duties, Taxes and Royalties	85.1 Any element of royalty, duty or tax in the price of any goods including fuel oil, and lubricating oil, cement, timber, iron and iron goods locally procured by the Contractor for the works shall be included in the Contract rates and prices and no reimbursement or payment in that respect shall be made to the Contractor.
	85.2 The Contractor shall familiarize himself with GON the rules and regulations with regard to customs, duties, taxes, clearing of goods and equipment, immigration and the like, and it will be necessary for him to follow the required procedures regardless of the assistance as may be provided by the Employer wherever possible.
	85.3 The Contractor shall pay and shall not be entitled to the reimbursement of cost of extracting construction materials such as sand, stone/boulder, gravel, etc. from the river beds or quarries. Such prices will be levied by concerned Local

	Government as may be in force at the time. The Contractor, sub-contractor(s) employed directly by him and for whom he is responsible, will not be exempted from payment of royalties, taxes or other kinds of surcharges on these construction materials so extracted and paid for to the concerned Local Government.
86. Member of Government, etc, not Personally Liable	86.1 No member or officer of GoN or the Employer or the Project Manager or any of their respective employees shall be in any way personally bound or liable for the act or obligations of the Employer under the Contract or answerable for any default or omission in the observance or performance of any of act, matter or thing which are herein contained.
87. Approval of Use of Explosives	87.1 No explosives of any kind shall be used by the Contractor without the prior consent of the Employer in writing and the Contractor shall provide, store and handle these and all other items of every kind whatsoever required for blasting operations, all at his own expense in a manner approved in writing by the Employer.
88 Compliance with Regulations for Explosives	88.1 The Contractor shall comply with all relevant ordinances, instructions and regulations which the Government, or other person or persons having due authority, may issue from time to time regarding the handling, transportation, storage and use of explosives.
89. Permission for Blasting	89.1 The Contractor shall at all times maintain full liaison with and inform well in advance, and obtain such permission as is required from all Government authorities, public bodies and private parties whatsoever concerned or affected, or likely to be concerned or affected by blasting operation.
90. Records of Explosives	90.1 Before the beginning of the Defects Liability Period, the Contractor shall account to the satisfaction of the Project Manager for all explosives brought on to the Site during the execution of the Contract and the Contractor shall remove all unused explosives from the Site on completion of works when ordered by the Project Manager.
91. Traffic Diversion	91.1 The Contractor shall include the necessary safety procedures regarding and pedestrian traffic diversion that is needed in execution of the works. The Contractor shall include in his costing of works, any temporary works or diversion that are needed during the construction period. All traffic diversion should be designed for the safety of both the motoring public and the men at work. It shall ensure the uninterrupted flow of traffic and minimum inconvenience to the public during the period concerned. As such, adequate warning signs, flagmen and other relevant safety precautionary measures shall be provided to warn motorists and pedestrians well ahead of the intended diversion as directed by the Project Manager. All traffic devices used shall be designed in accordance with the instruction of Project Manager.
92 Social Security Fund	92.1 The contractor shall enroll the laborers, employees, or other workforce engaged in such work in the Social Security Fund in accordance with prevailing laws.
	92.2 The contractor shall be responsible to disburse the remuneration, benefits, and other payments of the laborers, employees, or workforce into the bank account of the concerned individual.
	92.3 The contractor shall be responsible for ensuring that the required work permit has been obtained in accordance with prevailing laws in respect of

	foreign personnel.,
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Section IX: Special Conditions of Contract

The following Special Conditions of Contract shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

***Name of Employer: - Bhaktapur Municipality, Office of
Municipal Executive, Byasi, Bhaktapur***

***Name of Project: - The Procurement of Khwopa Aspatal Parisar
Sahayak Puwadhar Nirman Karya (Finishing Karya)***

Contract Identification No.: bktmun/NCB/works/01/083/84

Special Conditions of Contract

A. General	
GCC 1.1 (p)	The Employer is <i>Bhaktapur Municipality, Office of Municipal Executive, Byasi, Bhaktapur.</i>
GCC 1.1 (u)	The Intended Completion Date for the whole of the Works shall be: <i>2084 Asar 22.</i>
GCC 1.1(bb) & GCC10.1	The Project Manager is <i>Chief Administrative Executive, Bhaktapur Municipality.</i> The Project Manager and Engineer are synonyms.
GCC 1.1 (ee)	The Site is located at <i>Chyamasingh, Bhaktapur and is defined in drawings No.</i>
GCC 1.1 (hh)	The Start Date shall be <i>the day after work order given.</i>
GCC 1.1 (ll)	The Works consist of <i>brick work, electrical, Plumbing and other finishing work.</i>
GCC 2.2	Sectional Completions are: <i>Not Applicable</i>
GCC 2.3(i)	The following documents also form part of the Contract: <i>mentioned in GCC 2.3</i>
GCC 3.1	The language of the contract is ENGLISH/NEPALI The law that applies to the Contract is the law of NEPAL
GCC 11.1	The Project Manager <i>may</i> delegate any of his duties and responsibilities.
GCC 12.1 (a)	The agreed electronic transmission shall be email address of employer is <u>bhaktapurmuni@gmail.com</u> and <i>Insert E-mail or any other such means of Contractor.</i>
GCC 13.1	<u>For GoN Funded:</u> Maximum percentage of subcontracting permitted is 0% of the total contract amount (without VAT but including PS).
GCC 14.1	Schedule of other contractors: <i>Not Applicable</i>
GCC 19.1	The minimum insurance amounts and deductibles shall be: 1. The minimum cover for loss of or damage to the Works, Plant and Materials is: 115% of the Contract Amount. 2. The maximum deductible for insurance of the Works and of Plant and Materials is: 4% of the loss amount or insured value for normal perils. 3. The minimum cover for loss or damage to immovable Equipment/plants is: 100 % (i.e. Replacement Cost). 4. The maximum deductible for insurance of immovable Equipment/plant is: 2% of the Sum Insured.

	5. The minimum cover for loss of or damage to other property is: NPR. 10,00,000 with unlimited number of occurrences. 6. The maximum deductible for insurance of other property is: NPR 50,000 7. The minimum cover for personal injury or death insurance i. for the Contractor's employees is that specified in the Labor act of Nepal and ii. for other people is: 1 million with an unlimited number of occurrences.
GCC 20.1	Site Investigation Reports are: as per project manager call.
GCC 23.1	The following shall be designed by the Contractor: NA
GCC 24.2	• <i>Safe Work Method Statements (SWMS) or Procedures.</i> • Contractor's OHS Management Plan (C-OHSP) (These documents shall be provided by contractor to whom the contract is awarded.)
GCC 26.1	The Site Possession Date(s) shall be: the day after the issuance of work order.
GCC 30.1	The place of arbitration shall be: Bhaktapur
C. Time Control	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within 15 days from the date of the Letter of Acceptance.
GCC 34.3	The period between Program updates is 30 days. The amount to be withheld for late submission of an updated Program is NPR 2,00,000.
D. Quality Control	
GCC 42.1	The Defects Liability Period is: 365 days.
E. Cost Control	
GCC 49.1	0 percent
GCC 53.1	The Contract "is not" subject to price adjustment, and the following information regarding coefficients "does not" apply. The coefficients and indices for adjustment of prices in Nepalese Rupees shall be as specified in the Table of Adjustment Data submitted by bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.6	Base Price of Construction Materials applicable for price adjustment shall be as per the Table of Adjustment Data submitted by Bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.7	The Price Adjustment amount shall be limited to a maximum of: For GoN Funded: 0 % of the initial Contract Amount (without VAT but including PS)

GCC 54.1	The proportion of payments retained is: For GoN Funded: 5 (five) percent.											
GCC 55.1	The liquidated damages for the whole of the Works are 0.05 Percent of the final Contract Price (without VAT but including PS) per day. The maximum amount of liquidated damages for the whole of the Works is 10 Percent of the final Contract Price (without VAT but including PS).											
GCC 56.1	The provision of bonus “Not Applicable” in the contract. If Applicable, the Bonus for the whole of the Works is 0.05 Percent per day of final contract price (without VAT but including PS). The maximum amount of Bonus for the whole of the Works is 0 % of the final Contract Price (without VAT but including PS).											
GCC 57.1	The provision of Advance Payments “Applicable” in the contract. If Applicable, the Advance Payments shall be: 20 percent of initial contract amount (without VAT but including PS) and shall be paid in two equal installments and to the Contractor. <table><tr><td><i>Installment</i></td><td><i>Percentage</i></td><td><i>Requirement</i></td></tr><tr><td><i>1st</i></td><td><i>10</i></td><td><i>After signing of contract</i></td></tr><tr><td><i>7th</i></td><td><i>10</i></td><td><i>After initiation of work</i></td></tr></table>			<i>Installment</i>	<i>Percentage</i>	<i>Requirement</i>	<i>1st</i>	<i>10</i>	<i>After signing of contract</i>	<i>7th</i>	<i>10</i>	<i>After initiation of work</i>
<i>Installment</i>	<i>Percentage</i>	<i>Requirement</i>										
<i>1st</i>	<i>10</i>	<i>After signing of contract</i>										
<i>7th</i>	<i>10</i>	<i>After initiation of work</i>										
GCC 57.3	Deductions from Payment Certificates will commence in the first certificate in which the value of works executed exceeds 30% of the Contract Price. Deduction will be at the rate of 40 % of the respective Monthly Interim Payment Certificate until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the end of 80 % of the approved contract price.											
GCC 57.4	Recover interest on the advance amount from the Contractor should be at a rate of 10 % .											
GCC 58.1	The Performance Security amount is: 5% prior to the Contract agreement plus extra 8% in case excessive front loading.											
G. Finishing the Contract												
GCC 71.1	The date by which operating and maintenance manuals are required is; 15 days											
GCC 71.2	The date by which “as built” drawings are required is: 15 days The amount to be withheld for failing to produce “as built” drawings and/or Operating and maintenance manuals is: NPR 30,000											
GCC 72.3 (i)	The maximum number of days is: 200											
GCC 80	The Project Manager has to obtain the specific approval of the Employer for taking any of the following actions : a. Approving subcontracting of any part of the works under General Conditions of Contract Clause 13; b. Certifying additional costs determined under General Conditions of Contract											

	Clause 50; c. Determining start date under General Conditions of Contract Clause 1; d. Determining the extension of the intended Completion Date under General Conditions of Contract Clause 35; e. Issuing a Variation under General Conditions of Contract Clause 1 and 46, except in an emergency situation, as reasonably determined by the Project Manager; emergency situation may be defined as the situation when protective measures must be taken for the safety of life or of the works or of adjoining property. f. Adjustment of rates under General Conditions of Contract Clause 45;
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Section X: Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and when required Advance Payment Security and Retention Money Security shall only be completed by the successful Bidder after contract award.

Letter of Intent

[on letterhead paper of the Employer]

Date:

To: *Name and address of the Contractor*

Subject: Issuance of letter of intent to award the contract.....

This is to notify you that, it is our intention to award the contract *[insert date]*for execution of the *[insert name of the contract and identification number, as given in the Contract Data/SCC]* to you as your bid price Nepalese Rupees *[insert amount of contract price in figures and words including taxes]* as corrected and modified in accordance with the Instructions to Bidders is hereby selected as substantially responsive **evaluated bid closest to the Average Bid Price.**

Authorized Signature:

Name:

Title:

CC:

[Insert name and address of all other Bidders, who submitted the bid]

[Notes on Letter of Intent

*The issuance of Letter of Intent is the information of the selection of the bid of the successful bidder by the Employer and for providing information to other unsuccessful bidders who participated in the bid as regards to the outcome of the procurement process. This standard form of Letter of Intent to Award should be filled in and sent to the successful Bidder only after evaluation and selection of substantially **responsible evaluated bid closest to the Average Bid Price.***

Letter of Acceptance

[on letterhead paper of the Employer]

Date:

To: *Name and address of the Contractor*

Subject: *Notification of Award*

This is to notify that your Bid for the Invitation of Bids dated[*Insert date of bid invitation*]for execution of the.....[*Insert name of the contract and identification number, as given in the Contract BDS/SCC*] for the Contract price of Nepalese Rupees [*insert amount of contract price in figures and words including taxes*], as corrected in accordance with the Instructions to Bidders is hereby accepted in accordance with the Instruction to Bidders.

You are hereby instructed to contact this office to sign the formal contract agreement within 15 days with Performance Security of **NRs.** in accordance with the Conditions of Contract, using for that purpose the Performance security Form included in Section X (Contract Forms) of this Bidding Document.

Authorized Signature:

Name and Title of Signatory:

Contract Agreement

THIS AGREEMENT made theday of....between..... name of the Employer(**hereinafter “the Employer”**), of the one part, andname of the Contractor(**hereinafter “the Contractor”**), of the other part:

WHEREAS the Employer desires that the Works known as name of the Contractshould be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects in the sum of NRs**[insert amount of contract price in words and figures including taxes]**(hereinafter “the Contract Price”).

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - (a) the Letter of Acceptance;
 - (b) the Letters of Technical and Price Bid;
 - (c) the Addenda Nos **Insert addenda numbers if any**
 - (d) the Special Conditions of Contract;
 - (e) the List of Eligible Countries that was specified in Section V of the bidding document,
 - (f) the General Conditions of Contract;
 - (g) the Specification;
 - (h) the Drawings;
 - (i) Bill of Quantities (or Schedules of Prices for lump sum contracts), and
 - (j) Table of Price Adjustment Data
 - (k) List of Approved Subcontractors *[For GoN funded project]*
 - (l)**[Specify if there are any other document]**
3. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Nepal on the day, month and year indicated above.

Signed by
for and on behalf the Contractor in the presence of

Witness, Name Signature, Address, Date

Signed by
for and on behalf of the Employer in the presence of

Witness, Name, Signature, Address, Date

List of Approved Subcontractors

In accordance with GCC Sub-Clause 13.1, The following Subcontractors are approved for carrying out the work as specified below.

Name of Subcontractors	Description of Works	Value/Percentage of subcontract

Performance Security (On letterhead paper of the Bank)

..... **Bank's Name, and Address of Issuing Branch or Office**

Beneficiary: **[insert Name and Address of Employer]**

Date:

Performance Guarantee No.:

We have been informed that ... **[insert name of the Contractor, which in the case of a joint venture shall be the name of the joint venture]** (hereinafter called "the Contractor") has been notified by you to sign the Contract No. **[insert reference number of the Contract]**, for the execution of **[insert name of contract and brief description of Works]** (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we..... **[insert name of the Bank]**, hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of Nepalese Rupees.....**[insert amount in figures*and amount in words]**.... such sum being payable in Nepalese Rupees, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the.....**[insert day]**.Day of**[insert month, year]**, **, and any demand for payment under it must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG), 2010 Revisions, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

.....
Seal of Bank and Signature(s)

Note:

All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.

* The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract in Nepalese Rupees.

** Insert the date thirty days after the date specified for the Defect Liability Period. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

Advance Payment Security (On letterhead paper of the Bank)

..... **Bank's Name, and Address of Issuing Branch or Office**.....

Beneficiary: **[insert Name and address of employer]**

Date :

Advance Payment Guarantee No.

We have been informed that **[insert name of the Contractor, which in the case of a joint venture shall be the name of the joint venture]** (hereinafter called "the Contractor") has entered into Contract No. **[insert reference number of the contract]** dated **[date]** with you, for the execution of **[insert name of contract and brief description of Works]** (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum Nepalese Rupees **[Insert amount in figures*and in words]** is to be made against an advance payment guarantee.

At the request of the Contractor, we... **[insert name of the Bank]**, hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of Nepalese Rupees **[insert amount in figures* and amount in words]** upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor:

- (a).....Used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
- (b)... Has failed to repay the advance payment when it has become due and payable in accordance with the conditions of the contract, specifying the amount payable by the contractor.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the **[date]** day of ... **[month],[year]** ... **, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG), 2010 Revisions, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

.....
Seal of Bank and Signature(s)

Note:

All italicized text is for guidance on how to prepare this demand guarantee and shall be deleted from the final document.

**The Guarantor shall insert an amount representing the amount of the advance payment in Nepalese Rupees of the advance payment as specified in the Contract.*

*** Insert the date Thirty days after the intended completion date. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.*

Retention Money Security

(On letterhead paper of the Bank)

..... **Bank's Name, and Address of Issuing Branch or Office**

Beneficiary: _____ *[Insert name and Address of Employer]*

Date: _____ *[Insert date of issue]*

RETENTION MONEY GUARANTEE No.: *[Insert guarantee reference number]*

We have been informed that _____ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Contractor") has entered into Contract No. _____ *[insert reference number of the contract]* dated _____ with the Beneficiary, for the execution of _____ *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when at least eighty (80) percent of the whole works have been completed, progress of the works is satisfactory in accordance with the Contract as per approved work schedule and it can be assured that the works can be completed at the intended completion date, payment of *[insert the amount of the Retention Money]* is to be made against a Retention Money guarantee.

At the request of the Contractor, we, .. *[insert name of the Bank]*, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of Nepalese Rupees _____ *[insert amount in figures and amount in words]*¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.

This guarantee shall expire no later than the day of, ...², and any demand for payment under it must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG), 2010 Revisions, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[Seal of Bank and signature(s)]

¹ The Guarantor shall insert the amount of the Retention Money.

² Insert the same expiry date which is 30 days more than the end of Defect Liability Period. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

Annex-1

Table of Price Adjustment Data [SCC 53.1]

Code	Index Description	Source of Index*	Base Value and Date	Employer's Proposed Weighting Range (coefficient)	Bidder's Proposed Weighting (coefficient)**
1	2	3	4	5	6
	Non - adjustable (A)			0.15	0.15
	Labor (b)				
	Materials (c)				
	Equipment usage (d)				
	...				
		Total			1.00

Note: Base value and Bidder's proposed weighting coefficient to be filled as per "Bid Form of Table of Price Adjustment Data" in Bidding Forms (Section-IV) after verification by the Employer in case of the alternative provision of Bidder proposed value and weighting coefficient.

Table of Price Adjustment Data [SCC 53.6]

Code	Construction Material*	Unit	Base Price (NRs/Unit) ** (Ex-factory)	Source (Factory)**
1	2	3	4	5

** For the purpose of calculation of price adjustment, the Ex-factory price of the same source mentioned in the table shall be taken into consideration.

Note: Base Price and source to be filled as per “Bid Form of Table of Price Adjustment Data” in Bidding Forms (Section-IV) after verification by the Employer in case of the alternative provision of Bidder proposed source and base price.

Bill of Quantities

Name of the Project is Khwopa Aspatal Parisar Sahayak Puwadhar Nirman Karya (Finishing Karya)

Contract Identification No.: bktmun/NCB/works/01/083/84

A. Provisional Items						
Procurement Item Detail						
S.N.	Item Description	Unit	Quantity	Rate (NPR)		Amount (NPR)
1	Insurance against (i) loss of or damage to the Works, Plant, and Materials (ii) loss of or damage to Equipment (iii) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract (iv) Personal injury or death (contractors all risk).	PS	1.00	150000.00		150000.00
2	Provisional sum for the investigations/laboratory tests as directed by the employer/project manager as stated in specification/special provisions.	PS	1.00	35000.00		35000.00
3	Minor works (Reconstruction and Relocation of damaged public utility services, supply of miscellaneous items required, engineers logistic facility, etc during construction all complete as directed by Engineer.	PS	1.00	30000.00		30000.00
4	Preparation of As Built Drawing after the completion of project	PS	1.00	20000.00		20000.00
	Total of PS Amount					235000.00
B. Finishing work						
B.1	Civil works					
S.N.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Providing and laying Brick Masonry Work in Cement mortar in super structure complete excluding Pointing and Plastering, as per Drawing and Technical Specifications. Cement sand mortar (1:4)	cum	178.20			
2	Providing and applying Traditional Brick (Small Dachi Appa) work in (1:4) cement sand mortar at super structure all complete.	sqm	538.61			
3	Providing and applying Traditional Butta Brick (kasimo, sinkhwo, carnesh, etc) work in (1:4) cement sand mortar .	rm	1432.42			
4	Providing and placing 25mm thick telia tile on parapet wall top in 1:2 cement sand mortar including pointing all complete.	sqm	14.60			

5	PCC M15 (1:2:4) : Supplying, mixing, placing, compacting and curing of (1:2:4) plain cement concrete in chhajja and other places with OPC cement including the cost of formwork all complete work as per design, drawing, specification and instruction of site incharge.	cum	10.25			
6	Providing and fitting Sal wood work for frame (doors, windows, ventilation, etc). And also for Tudal works Including necessities accessories for fixing in wall all complete.	cum	7.14			
7	Providing and fixing Toughened Glass Door at main entrance including all necessary items like hinge, handle, locking set, etc all complete as directed by engineer.	sqm	5.91			
8	Providing and fixing 38 mm thick Sal wood doors and windows including all necessary items like hinge, handle, locking set, etc all complete as directed by engineer.	sqm	3.85			
9	Providing and fixing 38 X 75 mm thick Sal wood windows including 5mm thick plain glass all complete.	sqm	63.38			
10	Providing and fixing 5mm thick plain glass on ventilation and top of windows all complete as per instruction by engineer .	sqm	20.04			
11	Carved Mikhafusi (carved carvesh above window) work excluding wood all complete. (Only carving)	rm	91.04			
12	Carved chu (carved wooden band around windows and door frame) work excluding wood all complete. (Only carving)	rm	320.76			
13	Providing and laying 12.5mm thick Plaster work in 1:4 cement sand mortar all complete as directed by engineer.	sqm	1856.48			
14	Providing and laying 50mm thick Screeding work on floor with 1:2:4 concrete mixture with compaction all complete as directed by engineer.	sqm	998.90			
15	Providing and fixing 50 mm dia stainless steel handrail using 50 mm dia stainless steel vertical post in spacing of 2 meter c/c and fixing 3 layer of 25 mm dia stainless horizontal member including railing of height 2.5 feet to 3 feet including assembling , rubbing and painting all complete as directed by engineer.	rm	67.55			
16	Supplying, cutting and laying 16 mm thick Granite slab in 1:2 cement sand mortar including fine rubbing and polishing all complete as per specification directed by engineer.	sqm	155.88			
17	Providing and fixing 24" X 24" Vertified Gres floor Tiles as per approved standard of manufactured country in 1:4 cement sand mortar in all floor all complete and approved by engineer.	sqm	619.30			

18	Providing and fixing Procelein glazed Tiles(Ordinary floor and Wall Tile) as per approved standard of manufactured country) in 1:4 cement sand mortar work for toilet all complete and approved by engineer.	sqm	139.74			
19	Providing and fixing UPVC Singl Door with full pannel (frame 60*60mm sash 60X100mm White Colour With Panel) all complete and approved by engineer	sqm	28.31			
20	Providing and fixing Fade Resistant, Heavy Duty, Anti Skid, Waterproof, Frost Resistant, Stain Resistant external GVT floor tiles for terrace as per approved standard of manufactured country) in 1:4 cement sand mortar work all complete and approved by engineer.	sqm	140.55			
21	Providing and Fixing roof tiles (ghingati) with 20mm thick cement mortar as per drawing and specification.	sqm	213.29			
22	Providing and Fixing Ridge tiles with clay tiles as per drawing and specification.	rm	30.20			
23	Supply and apply the polythene and Polypropylene Polymer compound waterproof member on vertical and horizontal member of the structure all complete.	sqm	227.74			
24	Providing and fixing 1"thick Nepali Pine wood planking works with three side plainning not < 4" width including necessary nut bolting and nailing all complete as per drawing and specification and approved by engineer.	sqm	122.75			
25	Providing and fixing 1.5" thick Sal Wood Eaves Board with three side plaining including necessary nut bolting and nailing all complete as per drawing and specification.	sqm	34.04			
26	Supplying and applying wall putty on walls and ceiling all complete.	sqm	3301.53			
27	Painting on wall surface including one coat primer and two coat plastic emulsion hospital paint(Asian, Berger, KNP or equivalent)all complete.	sqm	3301.53			
B.2	Plumbing and sanitary					
S.N.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
28	Supplying and fixing 580 mm Porcelain clay white glaze Indian Pan with low level glazed cistern all others accessories Included like flush pipe (e.g., 32mm x 60cm CP pipe), PVC connectors and optional footrests with standard P-trap or S-trap installations all complete set. Make and size approved by site engineer.	set	4.00			

29	Supplying and fixing Porcelain clay white glaze Indian Pattern Comode (Hindware, Parryware or equivalent) with dual flush including cistern, seat cover all complete set. Make and size approved by site engineer.	set	4.00			
30	Supply and Fixing of 1.5 cm CP comode spray (with water spray (health faucet) with 1.2m long flexible pipe , eall flange,cp nipple , valve. All complete set with testing and ready for operation. Make and size approved by Site Engineer. (Jaquare, hindware, Somany)	set	8.00			
31	Supply and Fixing 50x 40 cm Procelain clay glaze Oval Wash Basin with 15mm swan neck type two way CP pillar cock (Jaquar, Hindware, Parryware) all complete set (32mm PVC Bottle Trap including 32mm CP waste coupling with CP chain,SS Coupling and rubber plug etc, 15mm CP basin mixer jaquare,Hindware, Somany)make and size approved by Site Engineer.	set	10.00			
32	Supply and fixing C P 15mm stainless steel Angle valve with wall flange, cp nipple(vlave: Jaquar, Hindware, Somany or equivalent) all complete set with testing and ready for operation. Make size approved by Site Engineer.	set	35.00			
33	Supply and Fixing CP Soap tray(Zink oxide screw etc) all complete set (Jaquare, Hindware, Somany) make size approved by Site Engineer	set	10.00			
34	Supply and Fixing CP Towel rod 1.5 x 60cm size all complete set. With testing and ready for operation. Make size approved by Site Engineer.	set	10.00			
35	Supply and Fixing Bevellege Looking Mirror (50*40cm) 5mm thick all complete set. With testing and ready for operation. Make size approved by Site Engineer.	set	10.00			
36	Supply and Fixing Extra Heavy 2000 ltr Capacity PVC/ HDPE water Tank (inlet , outlet, over flow, cleanout hole etc, tank nipples etc) all complete set with testing and ready for operation.(Hilltake, Nepatop, Jagadamba)	nos	2.00			
37	Supply and fixing of PVC Multi Floor trap (11 x 7.5 cm all complete set with testing and ready for operation . Make and size approved by Site Engineer.(Marvel, Panchakany, Nepatop or equivalent)	nos	11.00			
38	Supply and fixing of CP Square Grating of size 5" X 5"/6" X 6" all complete set . Make and size approved by Site Engineer.	nos	11.00			
39	Supply and Fixing of 25mm CPVC Ball Valve,CTS sockets all complete set with testing and ready for operation.	set	11.00			

40	Supply and Fixing 50mm PVC Pipe with fittings/ specials(socket,Tees,R-Tee, elbows, Unions, End Cap etc) clamps (m.s plate with nut and bolt with with hexagonals screws for clamp in ceiling,walls),nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its originals finish,all complete set as per specification and instruction (NS standard, FLOW guard or ISI standard) all complete set with testing and ready for operation. Make and size approved by Site Engineer.	rm	6.46			
41	Supply and Fixing 75mm PVC Pipe with fittings/ specials(socket,Tees,R-Tee, elbows, Unions, End Cap etc) clamps (m.s plate with nut and bolt with with hexagonals screws for clamp in ceiling,walls),nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its originals finish,all complete set as per specification and instruction (NS standard, FLOW guard or ISI standard) all complete set with testing and ready for operation. Make and size approved by Site Engineer.	rm	1.19			
42	Supply and Fixing 110mm PVC Pipe with fittings/ specials(socket,Tees,R-Tee, elbows, Unions, End Cap etc) clamps (m.s plate with nut and bolt with with hexagonals screws for clamp in ceiling,walls),nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its originals finish,all complete set as per specification and instruction (NS standard, FLOW guard or ISI standard) all complete set with testing and ready for operation. Make and size approved by Site Engineer.	rm	19.72			
43	Supply and Fixing 25mm CPVC Pipe SDR 11CTS,28.1 kg/cm ² (for both hot and cold) or equivalent with CPVC fittings/ specials(socket,Tees,R-Tee, elbows, Unions, End Cap etc) clamps (m.s plate with nut and bolt with with hexagonals screws for clamp in ceiling,walls),nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its originals finish,a ll complete set as per specification and instruction (NS standard, FLOW guard or ISI standard) all complete set with testing and ready for operation. Make and size approved by Site Engineer.	rm	37.74			

	Supply and Fixing 20mm CPVC Pipe SDR 11CTS,28.1 kg/cm2 (for both hot and cold) or equivalent with CPVC fittings/ specials(socket,Tees,R-Tee, elbows, Unions, End Cap etc) clamps (m.s plate with nut and bolt with with hexagonals screws for clamp in ceiling,walls),nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its originals finish,a ll complete set as per specification and instruction (NS standard, FLOW guard or ISI standard) all complete set with testing and ready for operation. Make and size approved by Site Engineer.	rm	78.79			
B.3	Electrical Works					
S.N.	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	LT Panels and DB boxes					
1.1	Main Panel Board	set	1.00			
	Supply, delivery, installation, commissioning, and testing of Floor Mounted, Main Panel Board conforming IS: 8623 and IS: 13032 double door, powder coated enclosure (90-150microns), treated with seven (7) tank process with push-button lock, safety Arcilic Sheet Cover with a warning sign at exposed portion, DB name embossed in Metal tag, ferrule, Spreader, rotor handle in all incoming and outgoings and made of 2 mm metal sheet including Copper neutral bar, phase bar and earth bus bar with adequate space for incoming and outgoing cable with complete internal wiring, as per drawing, specification, and instruction all complete. The panel shall have a degree of protection of enclosure as per IS:13947-1993. [Make: MCCB: Legrand DPX3 /Siemens (3VL)/ABB(T-Max)/Schneider (NSX) ; MCB: Siemens (Sentron)/ ABB(S200M)/ Legrand(DX3)/ Schnider(Acti9); Fabricator - AVONE, NG Electro Power, Suvechchya, Annapurna] (Note: GA & Control drawing should be submitted and approved before fabrication; RCCB, ELCB, Isolator, Timer, SPD and Metering Unit should be of the same company as of Approved Switch Gear; Panel Fabricator shall have ISO 9001 and ISO 14001 Certificate) Note: All the MCCBs should have rotary handle.					
	Incoming					
	320A, 4P, TMA 0.8 to 1In, MCCB, 36KA with shunt trip, Icu=Ics=Icn=100% - 1 Set					
	Indicator lamp with 0.5A MCB (for Phase Indication, ON, OFF, Trip Signals) - 1 Set					
	Resin Cast Current Transformer - 3 nos					
	4P SPD T1+T2 with TP MCB - 1set					
	Earth fault relay with adjustable leakage current - 1 set					
	Panel Mounted Multifunction Energy Meter with full range of parameters; (Basic: VLL, VLN,A,F; Power: W,PF,VA; Energy Wh) with High Accuracy with class 1 as per IEC 62053-21 with RS485 serial channel communication and Modbus compatibility - 1set					
	Busbar					
	500A, 400V, 4P+1/2E, 36 kA/1sec, Copper busbar with colour coded heat shrinkable insulating sleeves - 1 set					
	Outgoing					
	250A 4P MCCB, 25 KA ICS, Icu=Ics=Icn=100% - 1 Nos.					
	80A 4P MCCB, 25 KA ICS, Icu=Ics=Icn=100% - 1 Nos.					
	63A 4P MCCB, 25 KA ICS, Icu=Ics=Icn=100% - 1 Nos.					
	40A 4P MCCB, 25 KA ICS, Icu=Ics=Icn=100% - 2 Nos.					
	40A DP MCB, 10 KA ICS, Icu=Ics=Icn=100% - 9 Nos.					

1.2	Supply, delivery, installation, and Interconnection of factory fabricated and factory assembled, sheet steel clad powder coated, recess mounting dust and vermin proof (IP 43 & IK 09 ingress protection) double door vertical/horizontal type Distribution Boards conforming IEC: 61439-3, fabricated from 16 SWG sheet steel provided with hinged gasket door with padlocking facility and including suitably rated Fully insulated busbar & Shrouded Neutral bars, earthing terminals, etc. complete as required, and incorporating following items (accommodating separate city line distribution and UPS line distribution). Sample to be approved by consultant. Fabricator - Schnider Acti9/ Legrand Ekinox3/ Siemens Alpha].					
	18 Way SPN DB Double Door	set	4.00			
	12 Way SPN DB Double Door	set	1.00			
1.3	Supply, delivery, installation and testing of conforming IEC: 61439-3, fabricated from 16 SWG sheet steel provided with hinged gasket door with padlocking facility and including suitably rated Fully insulated busbar & Shrouded Neutral bars, earthing terminals, etc. complete as required, and incorporating following items (accommodating separate city line distribution and UPS line distribution). Sample to be approved by consultant. Make: Siemens (Sentron)/ ABB(S200M)/ Legrand(DX3)/ Schnider(Acti9).					
	6/16A SP MCB, C-Curve, 10KA, Icu=Icn=100%	nos	70.00			
	16/32A DP MCB, C-Curve, 10KA Icu=Icn=100%	nos	10.00			
	40A DP RCCB 30mA	nos	5.00			
2	LT FEEDER CABLES (Make: Finolex Cables, Bhusal, Prakash, Havells India, KEI, Polycab or equivalent)					
	Supply, Delivery, laying, commissioning & testing of cable following sizes of 1100 volt grade, XLPE/PVC insulated, Inner sheath Extruded PVC, Outer Sheath PVC anti rodent anti termite & armoured/unarmoured (Armoured Galvanised strip/wire with zinc coating as per IS) Power cable (Make: Finolex Cables, Bhusal, Prakash, Havells India, KEI, Polycab or equivalent) including the cost accessories like cable exit, PVC ties, GI Strip, identification clip, coupler etc where necessary with of required number of clamps/saddles/condits /screws/cable identification tages (made of GSS sheet) for proper cable management in Tray/cable trench/burried in ground/clamped to wall with suitable clamps / trefoil clamps for single core cable, saddles, and fixing bolts and including testing and commissioning as required complete as per IS 7098 Part I ,IS 1554 and IS - 694 required as per specification and as required. Cable installation shall be carried out as per relevant IS codes and standards and as per drawing, specification and instruction all complete.					
2.1	400Sq.mm, 4C, AL AR XLPE power cable (Main LT to MDB)	mtr	140.00			
2.2	35Sq.mm, 4C, Cu UAR XLPE power cable (MDB to Fire panel)	mtr	15.00			
2.3	6Sq.mm, 2C, Cu UAR PVC power cable (MDB to all floors)	mtr	130.00			
2.4	4Sq.mm, 2C, Cu UAR PVC power cable (UPS to all floors)	mtr	130.00			

2.5	6Sq.mm, 1C, Cu PVC insulated YG Flexible cable for Earthing	mtr	50.00			
2.6	4Sq.mm, 1C, Cu PVC insulated YG Flexible cable for Earthing	mtr	130.00			
3	CABLE MANAGEMENT					
	Supply, Delivery, laying, commissioning & testing of Hot Deep Galvanised Cable Ladder (with 45 microns & 65 microns for 1.6mm & 2mm thick respectively of zinc as IS 4759) of required width/ size with accessories like Vertical Offset, Coupler, Cable Binder, Horizontal Tee, End Cap, Horizontal Bend, Width Reducer, Beds, cable exit, identification clip, bracket, roller, coupler, auto clip coupler, hangers etc where necessary with of required number of clamps/saddles /threaded rods/ nut & bolts/screws for proper cable management as per drawing, specification and instruction all complete.					
3.1	200mmx50mmx1.6mm for ELV cables	mtr	20.00			
3.2	400mmx50mmx2mm for LV cables	mtr	20.00			
4	Point Wiring [Wire Make: Finolex Cables, Prakash, Pioneer, Havells India, KEI, Polycab, Rathni or equivalent; Switch, BOX and Switch & Outlets Approved Make- Legrand Myrius, Schneider Unica Pure, GE, Hager Sollysta and Honeywell Elements; Conduit Make: Precision, polycab or equivalent]					
4.1	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of light points for lights, emergency lights, fans, two pin outlets, etc of required length of cable from MCB to Switch box/Switch box to Switch Box using 2 x 2.5 sq mm city line (red-phase, black-neutral color) + 2 x 2.5 sq mm ups line (blue-phase, brown-neutral color) + 1 x 1.5 sq mm earthing; Double Coated, Anti-Rodent Anti Termite, 650/1100 Voltage grade FRLSH Insulation, Bunched copper conductor in a standard 20mm dia 2 mm thick heavy duty FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works, wire mesh, etc as per drawing specifications and instruction all complete. All the circuit must be dressed with circuit identification tags and cable shoe/lugs. (Average length:12m)	point	43.00			

4.2	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of light points (1way/2way) for lights, emergency lights, fans, UPS, two pin outlets etc of required length of cable from Switch Box-Light (or Switch Box-Switch Box-Light point or Switch Box-Light Point) using 2 x 1.5 sq mm +1 x 1sq mm Double Coated, Anti-Rodent Anti Termite, 650/1100 Voltage grade FRLSH Insulation, Bunched copper conductor in a standard 20 mm Dia 2 mm thick heavy duty FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works, wire mesh, etc as per drawing specifications and instruction all complete. All the circuit must be dressed with circuit identification tags and cable shoe/lugs. Note 1: The cost of 6A Modular Switch (1way or 2way), GI metal box and front plate is included in point wiring. Note 2: The conduits have already been layed in slab.(Average length: 7m)	point	244.00			
4.3	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of 13A, 6/16A power Outlets using 2 x 4 sq. mm. + 1x 2.5 sq. mm, Double Coated, Anti-Rodent Anti Termite, 650/1100 Voltage grade FRLSH Insulation, Bunched copper conductor in a standard 20mm dia 2 mm thick heavy-duty FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works as per drawing specifications and instruction all complete. All the circuits must be dressed with circuit identification tags. (Note: Double/Trippl power socket in one Metal box is considered as one Point. Color of cable shall be red-phase, black-neutral for city line; blue-phase, brown-neutral for UPS line or as per client.) (Average length:9m)	point	67.00			
4.4	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of CCTV point wiring with Green Color UTP CAT-6 (up to 250 MHz) of 23 AWG Pure Cu cable, with Cross (+) filler pair separator, (Make: Legrand, R&M, Panduit, System, Molex and AMP) in a standard 20 mm Dia 2 mm thick heavy duty Green Color FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works. The cable shall be conform to IEC 11801, EN 50173-1 and EIA 568C; RoHS Compliant (Lead Free). The cable shall have clear details printed like cable AWG, company name, standard, and meter marking. (Note: For outdoor CAT-6 Cable must be outdoor type) Note: The conduits have already been layed in slab (Average Length:12m)	point	28.00			

4.5	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring for Telephone points using 0.45 mm dia. 2 pair pure copper cable in a standard 20 mm Dia 2 mm thick heavy duty FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works as per drawing specifications and instruction all complete. (Average Length: 18m)	point	15.00			
4.6	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of Network point (IP TV, Computer, Access Points, Access Control) wiring with Blue Color UTP CAT-6 (up to 250 MHz) of 23 AWG Pure Cu cable, with Cross (+) filler pair separator, (Make: Legrand, R&M, Panduit, System, Molex and AMP) in a standard 20 mm Dia 2 mm thick heavy duty Blue Color FRLS uPVC Conduit including all conduit accessories via junction box along with all civil works. The cable shall be conform to IEC 11801, EN 50173-1 and EIA 568C; RoHS Compliant (Lead Free). The cable shall have clear details printed like cable AWG, company name, standard, and meter marking. (Average Length: 18m)	point	16.00			
5	Socket and Outlets [Approved Make- Legrand Myrius, Schneider Unica Pure, GE, Hager Sollysta and Honeywell Elements]					
	Supply, installation, testing and commissioning of following 240 V modular switch / socket modular plate [Approved Make- Legrand Myrius, Schneider Unica Pure, GE, Hager Sollysta and Honeywell Elements], having self piercing terminals with Metal Frame for back support & GI metal box with zinc coated and earth link and making necessary connections as required. Company Test certificate for the project required.					
5.1	Single 13 A Universal switched power socket with shutter and indicator.	set	3.00			
5.2	Single 6/16A switched power socket with shutter and indicator.	set	64.00			
5.3	RJ45 network socket with shutter	set	16.00			
5.4	RJ11 telephone socket with shutter	set	15.00			
6	Luminaires & Fixtures (Make: Legero, Heritage, Signify, Mayfair, Jaquar, K-Lite, Aronix, Ligman, Trilux and Delta Light)					

	Supply, installation, testing, and commissioning of following types of LED light fixtures complying LM79-08 certification criteria, and also module should be backed with LM80-08 Certificate from the OEM. The fixtures should be warranted for minimum period of 2 years from the date of Installation. The fixtures should have some kind of embossing/ engraving to identify the brand name. The manufactures should provide all kind of test report, technical details as and when called for. If required contractor have to provide test certificate from a government-approved lab for Claimed parameters by the manufacturer without any extra cost all complete as per specification and IS: 16102 Part-2 IS: 16103 Part – 1 IS: 16013 Part – 2 IS: 16108. The Light fixtures shall be Flicker Free, Direct Backlit LED having IP $\geq$ 20 (or as Mentioned), Voltage Range: 180V-270V, THD <10 %, P.F. 0.9, CRI $\geq$ 80, SPD>2kV, Housing: Mould Die-Cast Al with Company name embossed/ engraved , Trim/Frame: Die-Cast Al, Trim Shape: Square/Circle (or as mentioned) , Electrical protection: II Class, Finish: Powder Coated (or as mentioned), Mounting: Surface/ Recessed, Burning Life>50,000 hours, lumen>90. (Note: Diffuser Shall be Glare Free acceptable or as mentioned.)					
6.1	40W 6000K, LED batten light Aluminium PCB with heavy aluminium housing including mounting clips and accessories for installation as per drawing, specifications and instruction all complete.	set	10.00			
6.2	18W 6000K LED light surface mounting, Circular Trim type as per drawing, specifications and instruction all complete.	set	81.00			
6.3	12W, 3000K/6000K LED light surface mounting, Circular Trim type as per drawing, specifications and instruction all complete.	set	130.00			
6.4	1ft batten Mirror Light wall mounting type including lamps as per drawing specifications and instruction all complete.	set	8.00			
6.5	Low loss 50-55W, 3 Blade, 48" ceiling fan with rotary regulator/dimmer of minimum 500W as per drawing, specification and instruction all complete. (Make: Havells, Orient, Crompton, Usha & Bajaj or equivalent)	set	15.00			
7	Telephone Distribution Box					
7.1	Supply, delivery, installation, testing and commissioning of 16/18/20 Way SPN Distribution Box, wall/recess mounting dust and vermin proof (IP 43 & IK 09 ingress protection) double door vertical/horizontal type Distribution Boards conforming IEC: 61439-3, factory fabricated and factory assembled, fabricated from 16 SWG sheet steel provided with hinged gasketed door with padlocking facility and including, Din rail Mount 10 pair Krone Module for Telephone Distribution Box as per drawing, specification and instruction all complete. [Make: Fabricator - Schneider Acti9/ Legrand Ekinox3 / Siemens Alpha]	set	2.00			
8	Telephone Cable					

	Supply, delivery, Laying, Testing & Commissioning of 10- pair telephone cable cable(10x2x0.45)mm Heavy NS marked Eqv. through suitable size of uPVC Conduit, cable tray/ladder as per drawing and instruction all complete.	Rm	30.00			
9	NETWORKING SYSTEM					
9.1	Supply, delivery, installation, commissioning and testing of 9U Network Rack (Make:Legrand, Schnieder, R&M and Rittal) with Power Distribution Unit, fan and cable manager as per specification and instruction all complete.	set	2.00			
9.2	Supplying, delivery, fixing, and configuration of Rack mount Ethernet Cloud Managed Ethernet (Gigabit) Switch of 24x10/100/1000Base T, 4-Port 1G/10G Base-X SFP+ ports, Switching capacity≥32Gbps, including Power adaptor(Approved Make: Cisco, Mikrotek, Juniper, Huawei or equivalent).	set	2.00			
9.3	Supply, Installation, and Testing of 24 port Patch Panels with keystone and standard patch cord, (Make:Legrand, Panduit, AMP or equivalent) with labeling of Cables.	set	2.00			
9.4	Supply, delivery, installation, commissioning and testing of rack mount 24 port FXS Analog VoIP Gateway compatible with existing IP-PBX (Make: Yeastar, Grandstream, cisco)	Nos	1.00			
9.5	Supply, Laying, Testing & Commissioning of 4- pair, Cat 6A (Orange Jacket) in 20mm FRLS conduit (Make: Legrand, R&M, Panduit), (Cross (+) filler pair separator), LSZH 23 AWG, FTP Cable., Meets or exceeds ANSI/TIA-568-C.2	rm	50.00			
10	Surveillance System (Approved Make: Honeywell, Bosch, Tyco, Tiandy and Hikvision or equivalent)					
10.1	Supply, delivery, installation, and commissioning of 2.0 MP Cable Less Design, IP vandal proof dome camera 2.8mm lens with metal body, POE, IP 66 as per drawing, specification and instruction all complete. [Tech Spec: 1/2.9" CMOS, Min Illumination: Color-0.5lux, B/W-0.01 Lux,IR Range20m, Wide Dynamic Range, Max. Image Resolution: 1920x1080@30fps with HLC, Smart Defog, Privacy Mask]	Nos	27.00			
10.2	Supply, delivery, installation, and commissioning of 2.0 MP Cable Less, IP Outdoor Bullet camera 2.8/4mm lens, metal body, POE, IP 67 as per drawing, specification and instruction all complete. [Tech Spec: 1/2.9" CMOS, Min Illumination: Color-0.5lux, B/W-0.01 Lux, IR Range 50m, Wide Dynamic Range, Max. Image Resolution: 1920x1080@30fps with with HLC, Smart Defog, Privacy Mask]	Nos	1.00			
10.3	Supply, delivery, installation, configuration and commissioning of Rack mount type POE switch with 8 PoE ports for CCTV as per drawing, specification and instruction all complete.	Nos	5.00			

11	Fire Alarm System (Make: Zettler, Honeywell, Bosch, FireClass, Gent) Note: The sensors must be compatible with existing FACP of Honeywell make					
11.1	Supply, delivery, installation, and commissioning of intelligent addressable type optical smoke detector (Make: Zettler, Honeywell, Bosch, Fire Class, Gent) incorporate an LED, clearly visible from the outside, to provide in-dication of alarm or fault actuation.B24 with mounting base complete as required. Smoke detectors shall be capable of detecting visible combustion gases emanating from fires. Detectors shall employ the forward light-scatter principle, using optical components operating at a wavelength of 4.35 nm. Approved by EN54 & VDS/LPCB/UL.	Nos	20.00			
11.2	Supply, delivery, installation, and commissioning of addressable manual call point (Make: Zettler, Honeywell, Bosch, Fire Class, Gent) to monitor and signal to the control and indicating equipment the status of a switch operated by a resettable/deformable assembly be capable of operating by means of thumb pressure and not require a hammer. Incorporate a mechanism to interrupt the normal addressable loop scan to provide an alarm re-sponge within less than 3 seconds. Capable of being tested using a special 'key' without the need for depressing the unit. Provide an integral red LED to indicate activation. Call point to include the use of a yellow led to signal fault condition also to have integral isolator. Approved by EN54/VDS/LPCB/UL.	Nos	6.00			
11.3	Supply, delivery, installation, and commissioning of addressable type fault Isolator for isolating shorted, de-linked and loose circuits between two successive fault isolators with automatic resetting arrangement to be interconnecting to loop cable complete as required. Approved by EN54/LPCB/VDS/UL/BSA.	Nos	5.00			
11.4	Supply, delivery, installation, and commissioning of addressable loop powered sounder with strobe (Make: Zettler, Honeywell, Bosch, Fire Class, Gent) incorporate an integral line isolator. Be capable of producing a sound output of 103 dB at 1m. Sounder cum strobe shall have 2 volume, 2 flash rates & 16 selectable tones which can be configured using panel configuration software. Be equipped with LED beacon that has two flash rates 1 Hz. & 0.5 Hz. Sounder with strobe shall have the feature of Reflective sound monitoring (RSM) & Reflective light monitoring (RLM) which enables a full self-test of devices with an activation time of a fraction of a second per device. Approved by EN54/VDS/LPCB/UL.	Nos	5.00			

11.5	Supply, delivery, installation, laying, commissioning and testing for concealed/surface wiring of Smoke/Heat detector/Glass break/ Hooter using Fire Alarm Cable of 1.5 sq.mm. 2 core Unarmored, copper conductor, PVC (RED color Insulation) insulated FRLS cable, BS 7655-1.3 & EN 60228 standard, in a standard 20mm Dia 2 mm thick heavy duty FRLS Red Color uPVC Conduit including all conduit accessories via junction box along with all civil works .The cable shall be laid from each point to Control panel as per drawing specifications all complete. (Make: Polycab, KEI, Finolex, Havels) Note: The conduits have already been layed in slab (Average Length: 7.5m)	Point s	36.00			
12	Supply delivery, installation and commissioning of Chemical Earthing of 50 mm Dia 2m long as per IS 3043 (1987) (Code of practice for earthing) & its installation in a pit of 90x90x250 cm with the layers of Earthing materials as per standard, specification, drawing and refilling the ground with earth enhancing Compound including 30cm x 30cm Cast iron cover all complete.	Set	1.00			
	Total Item Price					
	VAT 13 %					
	Provisional Sum (PS)					
	Grand Total Amount with VAT and PS					

Name of Contractor :-

Stamp:-