

Nepal Electricity Authority
(Government of Nepal Undertaking)
Engineering Services Directorate
Building and Physical Infrastructure Construction Project (BPICP)
Durbarmarg, Kathmandu

BIDDING DOCUMENT
for

THE PROCUREMENT OF

Construction of NEA Corporate Office Building
At Durbarmarg, Kathmandu

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

Issued on:

Issued to:

Invitation for Bids No.: NEA-COB-01/2074/75

NCB No.:



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Abbreviations

BD	Bidding Document
BDF	Bidding Forms
BDS	Bid Data Sheet
BOQ	Bill of Quantities
COF	Contract Forms
DP	Development Partners
ELI	Eligibility
EQC	Evaluation and Qualification Criteria
EXP	Experience
FIN	Financial
GCC	General Conditions of Contract
GoN	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
PAN	Permanent Account Number
PPA	Public Procurement Act
PPMO	Public Procurement Monitoring Office
PPR	Public Procurement Regulations
PL	Profit & Loss
SBD	Standard Bidding Document
SCC	Special Conditions of Contract
TS	Technical Specifications
VAT	Value Added Tax
WRQ	Works Requirements

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Invitation for Bids

Nepal Electricity Authority
(Government of Nepal Undertaking)
Engineering Services Directorate
Building and Physical Infrastructure Construction Project
Durbarmarg, Kathmandu

Invitation for Bids for the **Construction of NEA Corporate Office Building at Durbar Marg, Kathmandu**

Contract Identification No: **NEA-COB-01/2074/75**

Date of publication: 2074/11/20

1. The Nepal Electricity Authority [NEA] **has allocated funds** towards the cost of Construction of Corporate Office Building and intends to apply part of the funds to cover eligible payments under the Contract **for Construction of Corporate Office Building (NEA-COB-01/2074/75)**. Bidding is open to all eligible as per Section V of bidding document.
2. **Nepal Electricity Authority** invites sealed bids or electronic bids from eligible bidders for the construction of **Ten storey building with double basement**, approx. 10700 Sq.m floor area 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. 587,000,000.00**
 - Minimum Work experience of similar size and nature: **Construction and completion of the commercial building/Office building/apartment building of 10 storied and basement parking having construction contract of value not less than NRs. 620,000,000.00 in last ten years.**
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.
 4. Eligible Bidders may obtain further information and inspect the Bidding Documents at the office of **Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority, Durbarmarg, Kathmandu, telephone no. 4153212 and facsimile numbers 4153026 and bpicp@nea.org.np** or may visit NEA's website www.nea.org.np.
 5. A complete set of Bidding Documents may be purchased from the office **Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority, Durbarmarg, Kathmandu** 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. 20,000.00** till **45 day from notice publish during office hours**.

Or



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Bidder who chooses to submit their bid electronically may purchase the hard copy of the bidding documents as mentioned above or may download the bidding documents for e-submission from NEA's website www.nea.org.np. Bidders, submitting their bid electronically, should deposit the cost of bidding document in the NEA account as specified below .

Information to deposit the cost of bidding document in Bank:

Name of the Bank: Bank of Kathmandu

Name of Office : Engineering Service-NEA

Bank Address: Kamaladi, Kathmandu

Account Number: 010000041350524

6. Pre-bid meeting shall be held at **Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority, Durbarmarg, Kathmandu** at **13.00 Hrs on 30th day from notice publish**.
7. Sealed or electronic bids must be submitted to the office **Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority, Durbarmarg, Kathmandu** by hand/courier or through NEA's website www.nea.org.np on or before **12.00 Hrs on 46th day from notice publish**. Bids received after this deadline will be rejected.

The bids will be opened in the presence of Bidders' representatives who choose to attend at **14.00 Hrs on 46th day from notice publish** at the office of **Building and Physical Infrastructure Construction Project, Durbarmarg, Kathmandu**. Bids must be valid for a period of **120 days** after bid opening 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. 22,100,000.00**, which shall be valid for 30 days beyond the validity period of the bid.

8. 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 security shall remain the same as specified for the original last date of bid submission.
9. The employer reserves the right to accept or reject, wholly or partly any or all the application without assigning reason, whatsoever.



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Part I: BIDDING PROCEDURES



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Section I: Instructions to Bidders

A. General	
1. Scope of Bid	<p>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 Contracts of the National Competitive Bidding (NCB) are provided in the BDS.</p> <p>1.2 Throughout this Bidding Document:</p> <p>(a) the term “in writing” means communicated in written form and delivered against receipt;</p> <p>(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</p> <p>(c) “day” means calendar day.</p>
2. Source of Funds	<p>2.1 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.</p>
3. Fraud and Corruption	<p>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;</p> <p>(a) the Employer adopts, for the purposes of this provision, the terms as defined below:</p> <p>(i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;</p> <p>(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;</p> <p>(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;</p> <p>(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.</p>

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'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 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) The Contractor shall permit the GoN/NEA 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/NEA, if so required by the GoN/NEA.

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,
- (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



	<p>the following grounds and seriousness of the act committed by the bidder:</p> <ul style="list-style-type: none"> (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/NEA financed contract. (d) if the Successful Bidder fails to sign the Contract. <p>3.4 A bidder declared blacklisted and ineligible by the GoN, Public Procurement Monitoring Office (PPMO) and/or NEA funded project, may be ineligible to bid for a contract during the period of time determined by the GoN, PPMO and/or NEA.</p> <p>3.5 Furthermore, Bidders shall be aware of the provisions of GCC (GCC 28.3 and 72.3(j)).</p>
<p>4. Eligible Bidders</p>	<p>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:</p> <ul style="list-style-type: none"> (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. <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> (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

	<p>(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</p> <p>(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</p> <p>(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</p> <p>(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.</p> <p>4.4 A firm that is under a declaration of ineligibility by the GoN/NEA in accordance with ITB 3, at the date of the deadline for bid submission or thereafter, shall be disqualified.</p> <p>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.</p> <p>4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.</p> <p>4.7 Firms shall be excluded in any of the cases, if</p> <p>(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;</p> <p>4.8 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.</p>
5. Eligible Materials, Equipment and Services	<p>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.</p> <p>5.2 For purposes of ITB 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced or</p>

	<p>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.</p>
B. Contents of Bidding Documents	
6. Sections of Bidding Document	<p>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.</p> <p>PART I Bidding Procedures</p> <p>Section I Instructions to Bidders (ITB)</p> <p>Section II Bid Data Sheet (BDS)</p> <p>Section III Evaluation and Qualification Criteria (EQC)</p> <p>Section IV Bidding Forms (BDF)</p> <p>Section V Eligible Countries</p> <p>PART II Requirements</p> <p>Section VI Works Requirements (WRQ)</p> <p>Section VII Bill of Quantities (BOQ)</p> <p>PART III Conditions of Contract and Contract Forms</p> <p>Section VIII General Conditions of Contract (GCC)</p> <p>Section IX Special Conditions of Contract (SCC)</p> <p>Section X Contract Forms (COF)</p>
	6.2 The Invitation for Bids 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	<p>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.</p>
	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

	<p>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.</p>
	<p>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.</p>
	<p>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.</p>
	<p>7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer as mentioned in BDS.</p>
	<p>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.</p>
	<p>7.7 Non attendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.</p>
8. Amendment of Bidding Document	<p>8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing agenda.</p>
	<p>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.</p>
	<p>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</p>
C. Preparation of Bids	
9. Cost of Bidding	<p>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.</p>

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	<p>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.</p> <p>11.2 The Technical Bid shall comprise the following:</p> <ul style="list-style-type: none"> (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; and (h) Any other document required in the BDS. <p>11.3 The Price Bid shall comprise the following:</p> <ul style="list-style-type: none"> (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) Any other document required in the BDS. <p>11.4 The Bidder is solely responsible for the authenticity of the submitted documents.</p>
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. Alternative Bids	13.1 Unless otherwise specified in the BDS , alternative bids shall not be considered.
	13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the BDS , as will the method of evaluating different times for completion.
	13.3 When specified in the BDS pursuant to ITB 13.1, and subject to ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the Bidding Document must first price the Employer's design as described in the Bidding Document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.
	13.4 When specified in the BDS , Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified in the BDS and described in Section 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 or the Bid Price in the Bill of Quantities shall 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, 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

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

	<p>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.</p>
	<p>19.2 The bid security shall be, at the Bidder's option, in any of the following forms:</p> <ul style="list-style-type: none"> (a) an unconditional bank guarantee from "A" class commercial bank or; (b) a cash deposit voucher in the Employer's Account as specified in BDS. <p>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.</p>
	<p>19.3 The bid security issued by any foreign Bank outside Nepal must be counter guaranteed by an "A" class commercial Bank in Nepal.</p>
	<p>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.</p>
	<p>19.5 The bid security of unsuccessful Bidders shall be returned within three days, once the successful Bidder's furnishing of the required performance security and signing of the Contract Agreement pursuant to ITB 40.1 and 41.1</p>
	<p>19.6 The bid security shall be forfeited if:</p> <p>NEA funded :</p> <ul style="list-style-type: none"> (a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 18.2: <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> (i) furnish a performance security in accordance with ITB 40.1; (ii) sign the Contract in accordance with ITB 41.1; or (iii) accept the correction of arithmetical errors pursuant to clause 33.1

	<p>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.</p>
<p>20. Format and Signing of Bid</p>	<p>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.</p> <p>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).</p> <p>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 an amended printed literature, shall be signed or initialed by the person signing the bid.</p> <p>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.</p>
<p>D. Submission and Opening of Bids</p>	
<p>21. Sealing and Marking of Bids</p>	<p>21.1 Bidders may always submit their bids by mail or by hand or by courier. When so specified in the BDS, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows:</p> <p>(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.</p> <p>(b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in this clause.</p> <p>i. The bidder is required to register in the website of the NEA https://www.nea.org.np for downloading and submitting the bid electronically.</p> <p>ii. Interested bidders may either purchase the bidding document from the Employer's office as specified in the</p>

Invitation for Bid (IFB) or bidders may download the IFB and bidding document from www.nea.org.np

- iii. The registered bidders need to maintain their profile data required during preparation of bids.
- iv. In order to submit their bids the cost of the bidding document can be deposited as specified in IFB. In addition, electronic scanned copy (.pdf format) of the bank deposit voucher/cash receipt should also be submitted along with the technical bid.
- v. 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.
- vi. Bidders (all partners in case of JV) should update their profile data and documents required during preparation and submission of their technical bids.
- vii. 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.	Company registration	Mandatory	PDF
4.	VAT registration	Mandatory for domestic bidders	PDF
5.	Business Registration Certificate	Mandatory	PDF
6.	Tax clearances certificate or evidence of tax return submission	Mandatory for domestic bidders	PDF
7.	Power of Attorney of Bid signatory	Mandatory	PDF
8.	Bank Voucher for cost of bid document	Mandatory	PDF
9.	Joint venture agreement	Mandatory in case of JV Bids Only	PDF
10.	Qualification Documents	Mandatory	Using profile data(financial details, contract details etc.) and Technical Proposal
11.	Additional documents	If applicable	PDF

specified in ITB 11.2
(h)

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

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

Note: The documents specified as "Mandatory" should be included in e-submission and non-submission of the documents shall be considered as non-responsive bid.

viii. For e-submission purpose the Bidder shall, at first, register in the e-procurement section of NEA Web site <http://www.nea.org.np>

ix. After preparing all the required bidding documents in PDF scan files as specified in (ii) and (iii), the Bidder shall upload the PDF bid files and submit his complete bid online through e-procurement section of NEA website <http://www.nea.org.np> within the specified date and time.

The Employers address for the purpose of e-submission of bid:

The Employers address for the purpose of electronic Bid submission is e-procurement section of <http://www.nea.org.np>.

In case of e-submission of bid, the bidder shall submit his bid electronically in PDF files in the manner as specified above and additional submission of hard copy of "Original plus one copy of bid" is not mandatory.

In case both the electronic bid and original bid in hard copy are submitted to the Employer within the specified time period, the Bidder's electronic bid and original bid in hard copy will be accepted for evaluation provided the Bid price in Bill of Quantity Sheet is same. If there is any discrepancy in Bid price in Bill of Quantity between the electronic and original bid in hard copy it will be treated as two separate bids from one Bidder and hence, both the electronic bid and original bid in hard copy shall be disqualified, as per ITB **Clause.**

However, for electronically submitted bid in PDF files, the bidder shall be required to submit documents/clarifications as specified in ITB Clause.

The deadline for e-submission of bids shall be:

- i) Bidders shall be also explained about the details of e-submission procedures in the pre-bid meeting.
- ii) The e-procurement system will accept the e-submission of bid during office hours from the date after publishing the notice and will automatically not allow the e-submission of bid after the deadline for submission of bid, as specified above.

- iii) The standard time for e-submission is Nepalese standard time as set out in the server of Nepal Electricity Authority.
- iv) In case of e-submission of bid, the Bidder shall submit his bid electronically in PDF files in the manner as specified in ITB Clause only, and submission of "original plus one copy" shall not be required before deadline for submission time as per ITB Clause.

Provision for Substitution or Modification or Withdrawal of Bid

When a bidder submits his bid in hard copy the e-procurement section does not allow the Bidder to submit his Substitution, or Modification, or Withdrawal through e-procurement section of NEA's Web site.

In case of e-submitted bid:

- i) Bidders may submit his Substitution or Modification or Withdrawal either in hard copy or through e-submission.
- ii) For Substitution of Bid the Bidder shall follow similar steps as specified in ITB Clause with a Substitution letter in PDF file.
- iii) For Modification or Withdrawal of bid the Bidder is required to submit PDF scan copy of their Modification or Withdrawal letter and a written Power of Attorney of the signatory for Modification/ Withdrawal, duly signed by Authorized Representative/s of the Firm / all authorized Joint Venture partners.

Bid opening for e-submitted bid:

- i) Electronically submitted bid shall be opened first at the same time and date as specified in the ITB and IFB notice.
- ii) The e-procurement system allows the Employer to download and open the e-submitted bid files from bidders only after the time for opening the bids.
- iii) The e-submitted bids must be readable through open standards interfaces. Unreadable and or partially submitted bid files (not complying the ITB Clauses) shall be considered incomplete and rejected for further bid evaluation.
- iv) After opening of e-submitted bids files, all files shall be printed and recorded at the time of bid opening. In case of "WITHDRAWAL" or "MODIFICATION" or "SUBSTITUTION" by the Bidder through e-submission, the e-submitted PDF files under "WITHDRAWAL" or "MODIFICATION" or "SUBSTITUTION" shall be opened and read out first. Bids for which acceptable notice of "WITHDRAWAL" or "SUBSTITUTION" has been submitted pursuant to ITB Clause shall not be opened.

Clarification of Bid

In case of e-submission of bid, the Bidder shall be required to submit the original completed Bid consisting of Forms of Bid, Qualification Information, Special Conditions of Contract, Bill of Quantities, Supplementary Information and other clarifications for verification purpose upon notification to do so from the Employer.

Examination of e-submitted Bids and Determination of



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Responsiveness

For an e-submitted bid to be substantially responsive the requirement as specified in the ITB Clauses shall be fulfilled.

Evaluation and Comparison of e-submitted Bids

1. In case of e-submitted bids, the Employer evaluates the bid based on the information as per electronically submitted bid files. For clarification/ verification purpose, the Employer may request the Bidder to submit documents/ clarifications as specified in ITB Clause.
2. In case, the Bidder could not substantiate or provide evidence to prove the information provided in e-submitted bid through documents/ clarifications as per ITB Clause, the bid shall not be considered for further evaluation and respective ITB Clause for forfeiture of bid security shall be applicable.

Steps to be followed by a Bidder to submit the electronic bid submission

1. Prepare the paper bid document

- Either purchase the Bid Document directly from the Employer office or may download the bid document from the website and deposit the equivalent amount in the Revenue account of the employer as specified in the notice or/and Bid Document.
- Fill the rates and amount in BOQ,
- Fill the Bid Form,
- Prepare the necessary copy of Company registration, VAT/PAN registration , Tax clearance certificate,
- Prepare the necessary specific papers like Power of Attorney for bid signatory, Joint Venture agreement, if bidding in JV,
- Prepare summary of qualification information sheet (Financial turnover, Experience, Manpower, Equipment, Credit line, Litigation etc) in the specified format,
- Prepare the bid guarantee letter for the specified bid security amount and in the specified format,

2. Prepare the Electronic bid files in pdf format

- Once prepared the above paper documents the bidder shall prepare the electronic bid files in pdf format as follows;
- Scan the above documents in pdf format, give the specific file name for

each document,

- Prepare all scanned bid files in pdf format and save them in a separate folder in own computer to ease bid uploading process,

3. Electronic bid submission

- Once the electronic bid files are ready the Bidder shall connect to internet,
- Open the NEAs website www.nea.org.np and open E-procurement section,
- Register in the Bidders name and get User name and Password for Login,
- Confirm the registration by clicking the specified link in auto generated e-mail from NEAs web site,
- After confirmation for bidders registration click Bidder, fill User name, Password and Login,
- Choose and click the specific tender notice for which the electronic bid files has been prepared,
- Click the Bid now button to submit the electronic bid files,
- Upload each specified electronic bid files by clicking the Upload button and select the respective bid files by Browsing,
- Once all the electronic bid files are uploaded, click the Submit the Bid button for final e-submission of electronic Bid,
- Once the e-submission is successfully completed the Bidder shall receive an auto generated confirmation e-mail from the NEAs website,
- Bidder to keep the conventional paper bid document , qualification information, and other related documents safe as the Buyer may seek the supporting bid documents and clarifications, as necessary during bid evaluation process.
- The Bidder shall submit the necessary supporting documents and clarifications (conventional bid document)

21.2. The inner and outer envelopes shall:

- (a) bear the name and address of the Bidder;
- (b) be addressed to the Employer as provided in BDS 22.1;
- (c) 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



	<p>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.</p> <p>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</p> <p>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.</p>
<p>22. Deadline for Submission of Bids</p>	<p>22.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the BDS.</p> <p>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.</p> <p>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.</p>
<p>23. Late Bids</p>	<p>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.</p>
<p>24. Withdrawal, and Modification of Bids</p>	<p>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:</p> <p>(i) Bids submitted in Hard Copy NEA Funded:</p> <p>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:</p> <p>(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</p> <p>(bb) received by the Employer twenty four hour prior to the deadline prescribed for submission of bids, in accordance with ITB 22.</p> <p>(ii) E-submitted bids - 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:</p> <p>(aa) prepared and submitted in accordance with ITB 20 and ITB</p>

	<p>21, and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL”, “MODIFICATION;” and (bb) received by the Employer twenty four hour prior to the deadline prescribed for submission of bids, in accordance with ITB 22.</p>
	<p>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.</p>
	<p>24.3 The following provisions apply for withdrawal or modification of the Bids:</p> <p>NEA Funded:</p> <p>(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.</p> <p>(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.</p>
	<p>24.4 Bidder may submit request for withdrawal or modification only one time except electronically submitted bid.</p>
	<p>24.5 In case of hard copy bid, no bid may be withdrawn if the bid has already been modified.</p>
	<p>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.</p>
<p>25. Bid Opening</p>	<p>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 entire Bid.</p> <p>25.2 The Employer shall download the e-submitted Technical Bid. The e-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.</p> <p>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.</p> <p>25.4 Thereafter, envelopes marked “WITHDRAWAL” shall be opened and read</p>

	<p>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.</p>
	<p>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.</p> <p>Only Technical Bids read out and recorded at bid opening shall be considered for evaluation.</p> <p>No bid shall be rejected at opening of Technical Bids except for late bids, in accordance with ITB 23.1.</p>
	<p>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.</p>
	<p>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.</p>
	<p>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.</p>
	<p>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.</p>
	<p>25.10 All envelopes containing Price Bids shall be opened one at a time and</p>

	<p>the following read out and recorded:</p> <ul style="list-style-type: none"> (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. <p>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.</p> <p>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.</p>
E. Evaluation and Comparison of Bids	
26. Confidentiality	<p>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.</p> <p>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.</p> <p>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.</p>
27. Clarification of Bids	<p>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.</p> <p>27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.</p>

<p>28. Deviations, Reservations, and Omissions</p>	<p>28.1 During the evaluation of bids, the following definitions apply:</p> <ul style="list-style-type: none"> (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.
<p>29. Examination of Technical Bid</p>	<p>29.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB 11.2 have been provided, and to determine the completeness of each document submitted.</p> <p>29.2 The Employer shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer shall be rejected.</p> <ul style="list-style-type: none"> (a) Letter of Technical Bid; (b) written confirmation of authorization to commit the Bidder; (c) Bid Security; and (d) Technical Proposal in accordance with ITB 16
<p>30. Determination of Responsiveness of Technical Bid</p>	<p>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 ITB11.2.</p> <p>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,</p> <ul style="list-style-type: none"> (a) if accepted, would: <ul style="list-style-type: none"> (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. <p>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.</p> <p>30.4 If a bid is not substantially responsive to the requirements of the</p>



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	<p>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.</p>
	<p>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.</p>
31. Nonconformities Errors, and Omissions	<p>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.</p>
	<p>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.</p>
	<p>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).</p>
	<p>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.</p>
32 Qualification of the Bidder	<p>32.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meet the qualifying criteria specified in Section III (Evaluation and Qualification Criteria).</p>
	<p>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.</p>
	<p>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.</p>
33. Correction of Arithmetical Errors	<p>33.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:</p> <p>(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</p>

	<p>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;</p> <p>(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;</p> <p>(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.</p> <p>(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.</p> <p>33.2 If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited.</p>
34 Subcontractors	<p>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.</p> <p>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.</p> <p>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.</p> <p>Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the BDS.</p>
35. Evaluation of Price Bids	<p>35.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.</p> <p>35.2 To evaluate a Price Bid, the Employer shall consider the following:</p> <p>(a) the bid price, excluding Value Added Tax , Provisional Sums, and the provision, if any, for contingencies 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;</p> <p>(b) price adjustment for correction of arithmetic errors in accordance with ITB 33.1;</p> <p>(c) price adjustment due to discounts offered in accordance with ITB 14.4;</p>

	<p>(d) adjustment for nonconformities in accordance with ITB 31.3;</p> <p>(e) application of all the evaluation factors indicated in Section III (Evaluation and Qualification Criteria);</p> <p>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.</p> <p>35.4 If this Bidding Document allows Bidders to quote separate prices for different Contracts, and to award multiple Contracts to a single Bidder, the methodology to determine the lowest evaluated price of the Contract combinations, including any discounts offered in the Letter of Price Bid, is specified in Section III (Evaluation and Qualification Criteria).</p> <p>35.5 if the bid for an Unit Rate Contract, which results in the lowest Evaluated Bid Price is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analysis, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder as mentioned in BDS to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.</p> <p>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.</p>
36. Comparison of Bids	36.1 The Employer shall compare all substantially responsive bids in accordance with ITB 35.2 to determine the lowest evaluated bid.
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.
F. Award of Contract	
38. Award Criteria	38.1 The Employer shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

<p>39. Letter of Intent to Award the Contract/Notification of Award</p>	<p>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.</p> <p>39.2 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.</p>
<p>40. Performance Security</p>	<p>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 accordance with the Conditions of Contract, subject to ITB 35.5, as specified below from A class Commercial Bank 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 an "A" class commercial Bank in Nepal.</p> <p>i) If bid price of the bidder selected for acceptance is up to 15 (fifteen) percent below the approved cost estimate, the performance security amount shall be 5 (five) percent of the bid price.</p> <p>ii) For the bid price of the bidder selected for acceptance is more than 15 (fifteen) percent below of the cost estimate, the performance security amount shall be determined as follows:</p> <p>Performance Security Amount = [(0.85 x Cost Estimate – Bid Price) x 0.5] + 5% of Bid Price.</p> <p>The Bid Price and Cost Estimate shall be inclusive of Value Added Tax.</p> <p>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 lowest evaluated Bidder 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.</p>
<p>41 Signing of Contract</p>	<p>41.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 40.1.</p> <p>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 Nepal Electricity Authority 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;</p>

	(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 or Public Procurement Monitoring Office or office established as per Clause 145(a) of the Public Procurement Regulation 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, 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 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 is 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 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 Review Committee.
	42.8 The Review Committee, after inquiring from the Bidder and the Public Entity, if needed, shall give its decision within one (1) month 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 "A" class commercial bank equivalent to zero point one five percent (0.15%) of its quoted Bid amount 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 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.

Section II: Bid Data Sheet

A. General	
ITB 1.1	The number of the Invitation for Bids is: NEA-COB-01/2074/75
ITB 1.1	The Employer is: Nepal Electricity Authority, Durbarmarg, Kathmandu.
ITB 1.1	The number and identification of lots comprising this bidding process is: Not Applicable
ITB 2.1	The name of the Project is Construction of NEA Corporate Office Building The implementing agency is Nepal Electricity Authority GoN Funded or NEA Funded: Nepal Electricity Authority Funded.
ITB 4.1 (a)	For GoN/NEA Funded: Maximum number of partner in a joint venture shall be : 3 (three)
ITB 4.2	<i>Eligible Countries: Nepal</i>
B. Bidding Document	
ITB 7.1	For clarification purposes only, the Employer's address is: Attention: Project Chief, Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority Address: Durbarmarg, Kathmandu Telephone: 4153212 Facsimile number: 4153026 Electronic mail address: bpicp@nea.org.np Website: www.nea.org.np
ITB 7.4	A Pre-Bid meeting shall be held. Pre-Bid Meeting will Take place at the following date, time and place: Date: 30th day from notice publish Time: 13.00 Hrs Place: Office of Building and Physical Infrastructure Construction Project, Durbarmarg, Kathmandu
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no



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	later than 15 days prior to the deadline for submission of bids.
C. Preparation of Bids	
ITB 10.1	The language of the bid is: English
ITB 11.2 (h)	The Bidder shall submit with its Technical Bid the following additional documents: Not Applicable
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.
11.3 (d)	The Bidder shall submit with its Price Bid the following additional documents: The bidder must submit Price Bid for both phase of works i.e. Part I: Bill of Quantities for 10 storey Building and Part II: Bill of Quantities for 16 storey building
ITB 13.1	Alternative bids shall not be permitted.
ITB 13.2	Alternative times for completion shall not be permitted.
ITB 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: Not Applicable
ITB 14.6	The prices quoted by the Bidder shall be fixed up to one year from date of commencement of works. The prices quoted by the bidder shall be subject to adjustment after one year as mentioned above. <i>"Bidder shall submit the Table of Price Adjustment Data as a part of price bid."</i>
ITB 18.1	The bid validity period shall be: One Hundred Twenty (120) days.
ITB 19.1	The Bidder shall furnish a bid security, from "A" class commercial bank with a minimum of NRs. 22,100,000.00 , which shall be valid for 30 days beyond the validity period of the bid.
ITB 19.2 (b)	Account Name: Engineering Service-NEA Bank Name: Bank of Kathmandu Bank Address: Kamaladi, Kathmandu Account Number: 010000041350524
ITB 20.1	In addition to the original of the bid, the number of copy/ies is/are: One Copy
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate: <ul style="list-style-type: none"> (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 electronically.
ITB 22.1	For bid submission purposes only, the Employer's address is : Attention : Project Chief, Building and Physical Infrastructure Construction Project, Engineering Services Directorate, Nepal Electricity Authority Address : Durbarmarg, Kathmandu The deadline for bid submission is : Date : 46th day from notice publish Time : 12.00 Hrs.
ITB 25.1	The Technical Bid opening shall take place at : Address : Building and Physical Infrastructure Construction Project, Durbarmarg, Kathmandu Date : 46th day from notice publish Time : 14.00 Hrs.
E. Evaluation and Comparison of Bids	
ITB 34.1	Not Applicable
ITB 35.5	The amount of the performance security be increased by Eight (8) percent of the quoted bid price.

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. NEA 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:

- a. The bidder must have successfully completed at least one commercial building/office building/ apartment having ten storey with basement parking having construction contract of value not less than NRs. 620,000,000.00.
- b. Minimum average annual turnover of NRs. 587.00 Million for the best three years within last ten years

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).

1.2 Multiple Contracts

Pursuant to Sub-Clause 35.4 of the Instructions to Bidders, if Works are grouped in multiple contracts, evaluation will be as follows:

Works are grouped in multiple contracts and pursuant to Sub-Clause 35.4 of the Instructions to Bidders, the Employer will evaluate and compare Bids on the basis of a contract, or a combination of contracts, or as a total of contracts in order to arrive at the least cost combination for the Employer by taking into account discounts offered by Bidders in case of award of multiple contracts.

If a bidder submits several successful (lowest evaluated substantially responsive) bids, the evaluation will also include an assessment of the Bidder's capacity to meet the aggregated requirements regarding:

- Specific Construction Experience
- Average Annual Construction Turnover
- Financial Resources, Equipment to be allocated, and
- Personnel to be fielded.

1.3 Completion Time

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

Not Applicable



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1.4 Alternative Technical Solutions

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

Not Applicable

1.5 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:

Pursuant to ITB 31.3, the cost of all quantifiable nonmaterial nonconformities shall be evaluated, but excluding omission of prices in the Bill of Quantities. 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.



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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/NEA Eligibility					
Not having been declared ineligible by government/NEA, 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	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	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid

ITB Sub-Clause 4.8 for prequalification.					
2.1.6 Other Eligibility					
Firm Registration Certificate	must meet requirement	not applicable	must meet requirement	must meet requirement	Document attachment
Business Registration Certificate	must meet requirement	not applicable	must meet requirement	must meet requirement	Document attachment
VAT and PAN Registration certificate	must meet requirement	not applicable	must meet requirement	must meet requirement	Document attachment
Tax Clearance Certificate/Tax return submission evidence/evidence of time extension for the F/Y 2073/74.	must meet requirement	not applicable	must meet requirement	must meet requirement	Document attachment

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 (fifty) 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

2.3 Financial Situation

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.3.1 Historical Financial Performance					
Submission of audited balance sheets and income statements, for the last Five years to demonstrate the current soundness of the Bidder's financial position. As a minimum, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	must meet requirement	Form FIN - 1 with attachments

2.3.2 Average Annual Construction Turnover

Minimum average annual construction turnover of NRs 587,000,000.00, calculated as total certified payments received for construction contracts in progress or completed, within best three years out of last ten years.	must meet requirement	must meet requirement	must meet 25% (3) of the requirement	must meet 40%(4) of the requirement	Form FIN - 2
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Note: The documents shall be substantiated with audited balance sheets. While calculating turnover amount, only the net amount work out after deducting the amount for VAT shall be computed and such amount shall be adjusted to the present value by applying the National Wholesale Price Index: Overall Index of Nepal Rastra Bank. The inflation of turnover amount shall be applicable for Nepalese currency only.

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, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet its current Contract Commitments, plus: <input type="checkbox"/> The following cash-flow requirement 97,000,000.00	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 3 and Form FIN - 4
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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 Ten years prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	must meet requirement	Form EXP - 1

2.4.2 Specific Construction Experience

(a) Contracts of Similar Size and Nature

Participation as Prime contractor, management contractor, or subcontractor, in at least one building contract having ten storey and basement within the last ten (10) years, each with a value of at least NRs 620,000,000.00 that have been successfully or are substantially completed and that are similar to the proposed works (Completion certificate must be attached). The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section VI, Works Requirements.	must meet requirement	must meet requirement	not applicable	not applicable	Form EXP – 2(a)
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(b) Construction Experience in Key Activities

For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum construction experience in the following key activities :	must meet all requirements	must meet all requirements	must meet 25% of the requirement	must meet 40% of the requirement	Form EXP - 2(b)
Completed Certificate of Bore Pile work of 3000 Rm in a single building project within last ten years	must meet all requirements	must meet all requirements	must meet 25% of the requirement	must meet 40% of the requirement	Form EXP - 2(b)
Completed Certificate of RCC work of 4800 Cu.m in a single building project within last ten years	must meet all requirements	must meet all requirements	must meet 25% of the requirement	must meet 40% of the requirement	Form EXP - 2(b)

2.5 Personnel

The Bidder must demonstrate that it has the personnel for the key positions 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	Contract Manager	1	Masters in Construction Management	10	5
2	Deputy Manager	1	Bachelor in Civil Engineer or Architect	10	5
3	Equipment Manager	1	Bachelor in Mechanical Engineering	10	5
4	Chief QSE (Quantity Survey Engineer)	1	Bachelor in Civil Engineer	5	3
5	Electrical Engineer	1	Bachelor in Electrical Engineering	5	3
6	Sanitary Engineer	1	Bachelor in Sanitary Engineering	5	3
7	Quality Control Engineer	1	Bachelor in Quality Control Engineer	10	5
8	Survey Engineer	1	Bachelor in Survey Engineer	10	5
9	Supervision Engineer	2	Bachelor in Civil Engineer with Training in construction supervision	10	5
10	Geo-technical	1	Master in Geotechnical	10	5

	Engineer		Engineering		
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In case the bidder proposes to consider Personnel that may be spared from committed/ongoing contracts for evaluation, the bidder shall provide details of personnel which will be spared from such committed/ongoing contracts based on the physical progress at the date of bid submission.

The Bidder shall provide details of the proposed personnel and their experience records in the relevant Information Forms included in Section IV (Bidding Forms).

2.6 Equipment

The Bidder must demonstrate that it has the key equipment listed hereafter:

No.	Equipment Type and Characteristics	Min. Number Requirement
1.	Tower Crane (Tip load - 3 tons)	1
2.	Concrete batching plant	1
3.	Concrete pump (150 D or more)	1
4.	Excavator (138 H.P. or more)	1
5.	Mini truck	2
6	Tripper	5
7	Car or jeep	2
8	Compressive strength testing machine	1
9	Concrete Mixer two bag capacity	2
10	Concrete mixer one bag capacity	1
11	Needle vibrator 1.9 HP, 12/2	10
12	Plate vibrator- 1.9 HP, 12/2	3

13	Hoist of appropriate height	1
14	Pump set-3HP	1
15	Pump set-1HP	1
16	Laboratory	1 set
17	Testing aggregates	1 set
18	Testing concrete	3 set
19	Testing Steel	1 set
20	Total Station	1
21	Level Machine	2
22	Steel/Marine ply shuttering	5000 Sq.m
23	Steel props/Scaffolding	8000 Nos.
24	Re-bar cutting machine	2
25	A/C Generator, 35 KVA or more	1
26	A/C Generator, 5 KVA or more	1
27	Cube mould for concrete testing	12
28	Slump Cone	2
29	Sieve	2

30	Dumper (1 m ³ capacity) or back hoe loader	1
31	Metal plates (1200 x 600)	800

In case the Bidder proposes to consider Equipment that may be spared from committed/ongoing contracts for evaluation, the Bidder shall provide details of Equipment which will be spared from committed / ongoing contracts clearly demonstrating the availability of such equipment with respect to the physical progress of the ongoing contracts on the date of bid submission.

In case of Equipment to be leased/hired the same procedure as mentioned above shall apply.

The Bidder shall provide further details of proposed items of equipment using the relevant Form in Section IV (Bidding Forms)

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 Bid in its letterhead clearly showing the Bidder's complete name and address.

Date:

Name of the contract:

Invitation for Bid No.:

To: The Project Chief,
Building and Physical Infrastructure Construction Project (BPICP)
Engineering Services Directorate,
Nepal Electricity Authority,
Durbarmarg, Kathmandu, Nepal.

.....
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:
- (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.
- (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 NEA, 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



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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.
- (j) We agree to permit the Employer/NEA 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 III (Evaluation and Qualification Criteria) and our technical proposal, or as otherwise agreed with the Employer.

Name:

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date



Handwritten initials or mark.

Letter of Price Bid

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

Date:

Name of the contract:

Invitation for Bid No.:

To: The Project Chief,
Building and Physical Infrastructure Construction Project (BPICP)
Engineering Services Directorate,
Nepal Electricity Authority,
Durbarmarg, Kathmandu, Nepal.

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:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: NRs.; or when left blank is the Bid Price indicated in the Bill of Quantities¹.
- (d) The discounts offered and the methodology for their application are:.....
- (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:²

¹Absence of the total price in the Letter of Price Bid or in the Bill of Quantities shall result in rejection of the Bid.

² If none has been paid or is to be paid, indicate "None".



Handwritten mark or signature.

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

- (h) We understand that this bid, *together with your written acceptance thereof* included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive; 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/NEA 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:

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date



Handwritten initials or mark.

Table of Price Adjustment Data

[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)			0.15-0.25	
	Materials (c)			0.30-0.40	
	Equipment usage (d)			0.20-0.30	
		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" - "Transport Vehicles and Machinery Goods" 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

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.



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Bid Security

Bank Guarantee

***Bank's Name, and Address of Issuing Branch or Office
(On Letter head of the 'A' class Commercial Bank)***

Beneficiary: **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 **name of Contract** under Invitation for Bids 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..... **name of Bank** hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of **amount in figures** (**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.
- (e) is involved in fraud and corruption in accordance with the ITB

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, ICC Publication No. 758.

... 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).



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Technical Proposal Format

Personnel

Equipment

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others



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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 III (Evaluation and Qualification Criteria). 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 III (Evaluation and Qualification Criteria).

Form PER - 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below. Fields with asterisk (*) shall be used for evaluation.

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*

Note:

In case of e-submission the Resume of Proposed Personnel shall be submitted on notification by the Employer as per ITB 27.



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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 III (Evaluation and Qualification Criteria). A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder. The Bidder shall provide all the information requested below, to the extent possible. Fields with asterisk (*) shall be used for evaluation.

(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	

	<input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> 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.

Note:

In case of e-submission the "Agreements" shall be submitted on notification by the Employer as per ITB 27.1



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Bidder's Information and Qualification Format

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others



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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.	
<ol style="list-style-type: none"> 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.	
<ol style="list-style-type: none"> 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 LIT - 1: Pending Litigation

Each member of a JV must fill in this form

Pending Litigation			
<input type="checkbox"/> No pending litigation in accordance with Criteria 2.2 of Section III (Evaluation and Qualification Criteria) <input type="checkbox"/> 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).

Note:

In case of e-submission the attachments should not be uploaded but shall be submitted on notification by the Employer as per ITB 27.1



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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, lines of credit, 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		

Note :

The letter from the Bank must be unconditional.

Form FIN- 4: 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									
No.	Name of Contract	Name of the Contractor/s	Employer's Contact Address, Tel, Fax	Contract Amount	Contract Date	Contract Duration	Value of outstanding works [NRS]	Estimated Completion Date	Average Monthly Invoicing [NRS/month]
1									
2									
3									
4									
5									
6									



GA

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	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total Contract Amount	<input type="checkbox"/> 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			
<p>Completed Certificate of at least one building contract having ten storey and basement within the last ten (10) years, with a value of at least NRs. 620,000,000.00</p> <p>Note : <i>The Employer should insert here contract size, complexity, methods, technology, or other characteristics as described in Section VI (Work Requirements) against which the bidder demonstrates similarity in the box on the right-hand-side.</i></p>			

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	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total Contract Amount	<input type="checkbox"/> 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			
Completed Certificate of Cast in Situ Pile and Bore Pile work of 3000.00 Rm in a single building project within last ten years			
Completed Certificate of RCC work of 4800 Cu.m in a single building project within last ten years			
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 NEA Funded.]

For GoN funded: *[contract with estimate below NRs. 1 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**”



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Part II : BIDDING PROCEDURES

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Section VI: Works Requirements

This Section contains the Specification, the Drawings, and supplementary information that describe the Works to be procured.

Scope of Work

Contract Reference:

Title: **Procurement of works for construction & completion of corporate office building to Nepal Electricity Authority, Durbarmarg, Kathmandu.**

The Works

The Corporate Office Building is planning of Construction of 16 storied office building plus two basement floor for parking. NEA is in process of approval for Initial Environmental Examination. In initial phase, **this contract will be for construction of double basement and upto ninth floor.** NEA is preparing for Environment Impact Assessment (EIA), after approval of EIA, the construction of Corporate Office Building will be carried out up to fifteenth floor in second phase.

This is high class office building of the high standard finish. All workmanship called for a superior finish than normal office building finish of the Kathmandu.

The building intended to construct have the following area

Lower basement	1112 Sqm.
Upper basement	1123 Sqm.
Ground floor	811 Sqm.
1 st , 2 nd , 3 rd , 14 th , 15 th floor	833 Sqm.
4 th , 6 th , 7 th , 10 th , 11 th , 12 th floor	868 Sqm.
5 th , 8 th , 9 th , 13 th floor	868 Sqm.
16 th floor	407 Sq.m.

Total Area: 16298.00 Sq.m

The works to be executed will comprise mainly the following items for Corporate Office Building, but not limited to:

- Earthworks
- Micro Pile, Protection Pile and Bore Pile



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- Raft foundation
- Ready Mix Concrete works
- Reinforcement works
- Brick works
- Plywood Formworks
- Interior and Exterior Paint
- Water supply and sanitary works
- Electrical works etc.

In second phase, after the approval of Environment Impact Assessment (EIA) and subsequent approval from Kathmandu Metropolitan City, the construction of Corporate Office Building from tenth floor to fifteen floor will be executed. The bidder is also requested to provide the bid of the above works in the Bill of Quantities part II for total 16 storey building works. For the second phase of works, the bidder with the competitive bidding will be selected and awarded after the completion of the approval process mentioned above. The NEA (Employer) reserves the right to accept or reject, wholly or partly any or all the application for the second phase without assigning reason, whatsoever.

Specifications

Equivalency of Standards and Codes

The contractor should strictly follow Specifications, Drawing and Bill of Quantities provided by the Nepal Electricity Authority. In the case, Specifications and BOQ's description are not clear about the specifications of works and tests to be executed, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply. 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.

Specifications is Given in Volume 2



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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, posts, 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.

Drawings is Given in Volume 3



Supplementary Information

[insert supplementary information if any]



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Section VI: Bill of Quantities³

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:

³In lump sum contracts, delete “Bill of Quantities” and replace with “Schedule of Activities” throughout this section.

- (a) *A list of the various classes of labor, 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.*
- (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: **as mentioned**

B. Day work Schedule

a) General

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

b) Day work Labor

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

c) Day work Equipment

1. The Contractor shall be entitled to payments in respect of Constructional Plant already on site and employed on day work at the basis rental rates entered by him in the "SCHEDULE OF DAY WORK RATES:2 EQUIPMENT ". The said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricant, and other consumables and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants also shall be included in the rate of the equipment and no separately payment shall be made for it.
2. In calculating the payment due to the Contractor for Constructional Plant employed on day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Project Manager, the travelling time from the part of the Site where the Construction Plant was located when ordered by the Project Manager to be employed on day work and the time for return journey there to shall be included for payment.

d) Day work Materials

1. The Contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labor costs as detailed heretofore), at the rates entered by him in the "SCHEDULE OF DAY WORK RATES: 3 MATERIALS" and shall be deemed to include overhead charges and profit as follows;
 - (i) the rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc. and shall provide for delivery to



- store for stockpiling at the Site.
- (ii) the cost of hauling materials for use on work ordered to be carried out as day work, from the store or stockpile on the Site to the place where it is to be used also shall be include in the same rate.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Project Manager's).

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

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Kathmandu

Part I: BOQ for 10 Storey Building - Bill of Quantities - General works

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
1	Insurance of work, Plants & equipment, workman, third party, client & consultants, sub consultant and supervision team.	lot	1.00			
2	Setting up of field lab for confirming the quality of the construction materials & work standard, for the entire period of the construction.	lot	1.00			
3	Providing office accommodation for supervision team including furniture & furnishing, toilet facilities, heating & ventilation, equipment required for supervision (quality contract check).	lot	1.00			
4	Providing 4 wheel drive vehicle 1 & motorcycle 2 including POL & driver for the supervision team for entire period of the construction work	Month	24.00			



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5	Provision for line, level, verticality, checking of the entire RCC works and finishing during construction with all required equipments and manpower in full time basis, by a third party. The third party shall be nominated by the Employer.	lot	1.00			
	SUB TOTAL					

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Kathmandu

Part I: BOQ for 10 Storey Building -Bill of Quantities - Exterior works

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
1	Main entrance and exit gate size 5.5m wide 2.4m high made of steel section, double shutter including RCC column to support the door hing RCC foundation, cladding in column and provision of gate light system in both side of the gate as per drawing and instruction.	Nos.	2.00			
2	Entry and exit door for pedestrian 1.5m wide, 2.4m high door shutter including RCC column to support the door hing RCC foundation, cladding in column and provision of gate light system in both side of the gate as per drawing and instruction.	Nos.	2.00			
3	Boundary wall made of brick work in cement mortar 1:4 including required foundation and RCC band at top to carry metal grill work of wall height 1.65m, RCC band and grill height 0.9m as per drawing and instruction net.	Rm	5.00			
4	70 mm (M25) thick precast concrete block set in required pattern set in 50 mm thick stone dust laid above water proofing coating	Sq.m	136.00			
5	Brick boundary wall 1.5m height and metal grill of 0.6m height fixed RCC band above top of wall as per drawing and instruction.	Rm	120.00			
6	Landscaping and land development including turfing and flowering etc complete	LS	1.00			
SUB TOTAL						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Kathmandu

Part I: BOQ for 10 Storey Building -Bill of Quantities - Generator House

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
1.0	Earthwork					
1.1	Site clearance					
	Removal of dismantled debries, and removal of top soil vegetation if any including bushes etc. The ground should be levelled and ready for setting out of the proposed building.	Job	1.00			
1.2	Earthwork excavation					
	Earthwork excavation by using mechanical means, in all types of soil average depth of excavation in approximately 1.5 m deep including shoring, dewatering etc all complete as per specification & instruction (dewatering is to be measured seperately)	Cu.m	47.88			
2.0	Foundation filling					
2.1	Gravel filing					
	Supplying and laying gravel in foundation as a base for generator with compaction using a mechanical compactor. Compaction should be tested for 95 % proctor density as per drawing, specification & instruction	Cu.m	3.87			
2.2	PCC 1:4:8					



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	Providing and laying machine mixed plain cement concrete of mix 1:4:8 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension all complete as per specification, drawing and instruction.	Cu.m	1.36			
2.3	Flat Brick Soling					
	Brick flat soling, over well compacted and levelled earthen base all complete as per drawing, specification & instruction	Sq.m	27.23			
2.4	Earth Filling					
	Back filling with granular soil including packing in 150mm, layer watering and well compaction by ramming of each layer up to proper level & dressing, all complete & per drawing, specification & instruction.	Cu.m	15.75			
3.0	Concreting Works					
3.1	Structural concrete					
3.1.1	Structural concrete of following grade in any form, size, shape and level in all RCC works machine mixed/ batching plant, transported using concrete pumps and compacted with vibrator cement concrete works including setting out, mixing, laying, compacting, equipment curing, testing and finishing complete inclusive of providing construction / expansion joints, including applying plastisizer solution as desired, all complete as per drawings, specifications and instructions.					
a	M25 Concrete on columns	Cu.m	3.23			
b	M20 Concrete on Slabs	Cu.m	9.60			
c	M15 Concrete works	Cu.m	29.76			

3.1.2	Shuttering/ Formwork					
	Centering and shuttering with approved material such as ply wood, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.	Sq.m	220.33			
3.1.3	Reinforcement Work					
	TMT reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap)	MT	4.87			
4.0	Brickwork					
4.1	Brick work in 1:6 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc. all complete as per drawing, specification & instruction	Cu.m	31.83			
5.0	Aluminium Doors and Windows					
5.1	Aluminium Doors					
5.1.1	Aluminum hinged door with frosted glass as shown in the drawing including all fitting ironmongers and locks all complete as per design, specification & Instruction	Sq.m	7.46			
6.0	Floor Finish					
6.1	Cement Floor Finish					
	100 mm thick floor with cement concrete of mix 1:2:4 with sand and 12 mm stone aggregate including mixing laying in required slope, including neat finishing in top surface etc all complete as per drawing, specification and instruction.	Sq.m	147.05			

7.0	Wall Finish					
7.1	Plaster Works					
	12.5.mm, thick cement and sand plaster work of mix 1:4 cement & sand in RCC and brick surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing, specification and instruction	Sq.m	184.25			
8.0	Wall Finish					
8.1	Painting Works					
	Two or more coats of water proof cement paint on cement plastered wall and ceiling (basement & parking area) over one coat of white cement base, surface preparation by sanding, filling by fillers to get smooth & uniform surface, all complete as per drawing, specification & instruction	Sq.m	184.25			
9.0	Railings					
9.1	Stair railings					
	Stair railing made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0"finishing all complete as per drawing, specification and instruction.	Rm	9.00			
10.0	Miscellaneous Works					
10.1.1	UPVC Sheets on walls					

	Curtain walls in the two sides of the generator house made out of MS square pipe of size 50.8*50.8*3mm size fixed in RCC floor beam, roof beam and RCC columns. The vertical members are fixed approximately 1500 mm apart c/c , horizontal members are fixed in the ground floor & 2no./3no. horizontal members are fixed in first floor. GI wire mesh and UPVC sheet to be fixed in such frames as shown in drawing					
a	Square pipe of 50.8*50.8*3mm size properly welded to each other well fixed in RCC beams at the top and bottom all complete with anti corrotive paint finished with black Japan paint as per drawing, specification & instruction	Kg	1,226.85			
b	UPVC sheets made to shape & size and fixed to above frame.	Sq.m	115.62			
c	GI wire mesh made to shape and size fixed to above frame.	Sq.m	105.40			
10.1.2	Roof Covering					
a	Roof covering made out of MS square pipe tube frame 50.8*50.8*3 mm section spaced at 1400mm c/c both side well connected to the vertical members and finished with red oxide & black japan paint as per drawing, specification & instruction.	Kg	388.71			
b	Fixing of UPVC roofing sheet properly fixed in the square pipe frame well screwed with bitumen & cup washer all complete as per drawing, specification & instruction.	Sq.m	70.84			
c	200 mm wide metal sheet fascia board made out of the gauze sheet folded at both edge and screwed to roof frame including red oxide paint & black japan paint as per drawing, specification & instruction.	Rm	35.00			

d	PVC gutter fixed to fascia board roof frame as per drawing, specification & instruction.	Rm	10.00			
10.2	Floor traps fixed in the floor to collect waste liquids all complete as per drawing, specification & instruction.	Nos.	4.00			
10.3	UPVC pipe to move waste liquid out of generator house to the sewage collection point all complete as per drawing, specification & instruction.	Rm	10.00			
Sub Total						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part I - Bill of Quantities - Main Building

Item	Description	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
1.0	Earthwork						
1.1	Site clearance						
	Dismantling of Existing Mahendra Power House of 48mx37mx 10; Cooling Tank 2.5mx 22m; Treatment Plant 17mx13m and other structures if any upto foundation level, clear the construction site, removal of dismantled debries and removal of top of top soil vegetation if any including bushes etc. The ground should be levelled and ready for setting out of the proposed building. Dispose the dismantled debris at suitable places upto 5km all complete as per drawing, specifications and instruction nett.						In dismantling works, Contractor could sale the dismantled debris and metal items, contractor should quote the -ve rate for giving the amount to NEA or dismantle cost in +ve for getting charge
	note: The contractor could sale the debris and other material getting from demolition except archeological importance things.	Job	1.00				

1.2	Earthwork excavation by using mechanical and manual means, in all types of soil average depth of excavation is approximately 10 m deep and at lift foundation 11 m depth including shoring, dewatering etc and dispose the excavated soil up to 5 km distance at appropriate site all complete as per specification & instruction (dewatering is to be measured seperately)	Cu.m	12,373.35				
2.0	PILING WORK						
2.1	Micropile: Providing and inserting 9.00 meter micropile of diameter 75 mm, perforated at every 230mm c/c distance in staggered position including the pressure grout with cement sand slurry mixed with grouting chemical of approved brand coregrout grout IG1 or equivalent (dozing - according to manufacturer specification) all complete as per drawing, specification and instruction. (The pipe for micropile must approved brand medium quality MS black pipe) all complete as per drawing, specification & instruction.						
	note: the cost of pile (mentioned below 2.2 & 2.3) also shall include the application of bentonite where required for protecting side collapse, and disposing the same out of site safely when work is done.	Rm	1,746.00				

2.2	Construction of cast-in-situ-concrete Protection pile of diameter 500mm by excavating pile foundation by mechanical drill and/or manual drill by rigs, up to 21 meter depth ., lifting up with shoring the hole, stacking the soil 1.0m minimum from the edge of hole, dewatering within construction period and disposing the soil outside of site or designated place as per drawing, specification and instruction of the engineer all complete. The cost is inclusive of bentonite if required, during boring process, testing of pile as per relevant Indian standard, cost of reinforcement, (cutting bending, placing) 10nos. 16 mm dia ToR Steel with 8mm dia reinforcement 150 mm C/C and also inclusive of providing and pouring M20 grade concrete mix into the excavated pile using trimming pipe. (inclusive of all tools and plants)	Rm	4,452.00				
2.3	Construction of cast-in-situ-concrete pile of diameter 500mm by excavating pile foundation by mechanical drill and/or manual drill by rigs, up to 16 meter depth ., lifting up with shoring the hole, stacking the soil 1.0m minimum from the edge of hole, dewatering within construction period and disposing the soil outside of site or designated place as per drawing, specification and instruction of the engineer, all complete. The cost is inclusive of bentonite if required, during boring process, testing of pile as per relevant Indian standard, cost of reinforcement, (cutting bending, placing) 9nos. 12 mm dia ToR Steel with 8mm dia reinforcement 200mm C/C and also inclusive of providing and pouring M20 grade concrete mix into the excavated pile using trimming pipe. (inclusive of all tools and plants)	Rm	5,888.00				
3.0	DEWATERING						
	Dewatering by using suitable submergesible sludge pump/ or other suitable pump during the entire operation of excavation and piling. The dewatering should be such that no disturbance with work shall occur due to water accumulation the pump shall be operated by suitable generator.	Hrs	2,500.00				

4.0	ANTITERMITE TREATMENT						
	Providing and injecting the pre construction anti termite treatment using Environmental friendly chemical i.e (Premise 30.5% SC) in different stages to create a complete termite chemical barrier to the building at foundation, around the footings, column pits, trenches, wall trenches, inside floor back fill, plinth level, junction of wall and floor, retaining walls of basement floor, external perimeter of building, surrounding the pipes, conduits by Govt. authorized professional pest control company & authorized distributor. Confirming to IS 6313 or equivalent BIS specifications. The total application is provided by the professional and experienced authorized pest control company having professional applicator license issued by PESTICEDE BOARD Ministry of Agriculture , Govt. of Nepal & they have minimum experience in this field at least for 10 years & they have to provide warrantee at least 10 years, after completion of complete treatment.						
a)	Floor area	Sq.m	1,112.50				
b)	Vertical Surface	Sq.m	1,598.47				
5.0	FOUNDATION FILLING						
5.1	GRAVEL SAND FILLING (60:40)						
	Supplying and laying gravel sand (60:40) in foundation with compaction using a mechanical compactor. Compaction should be tested for 95 % proctor density as per drawing, specification & instruction.	Cu.m	355.50				
5.2	P.C.C. (1:4:8)						
	Providing and laying machine mixed plain cement concrete of mix 1:4:8 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension	Cu.m	118.50				

5.3	Supplying and filling above RCC Raft foundation silt/crusher dust (clay less) and compaction as per specification, drawing & instruction. (500 mm thick)	Cu.m	400.00				
5.4	Providing and laying machine mixed plain cement concrete of mix 1:3:6 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension all complete as per specification, drawing and instruction.	Cu.m	80.00				
5.5	Earth filling:						
	Back filling with granular soil including packing in 150mm, layer watering and well compaction by ramming of each layer up to proper level & dressing, all complete & per drawing, specification & instruction.	Cu.m	1,279.98				
6.0	CONCRETING WORK						
6.1	Structural concrete						
6.1.1	Structural concrete of following proportions in any form, size, shape and level in all reinforced machine mixed/ batching plant, transported using concrete pumps and compacted with vibrator cement concrete works including setting out, mixing, laying, compacting, equipment curing, testing and finishing complete inclusive of providing construction / expansion joints, all complete as per drawings, specifications and instructions.						
	Ready mix concrete						
a)	M20 grade concrete	Cu.m	4,072.55				
b)	M30 grade concrete	Cu.m	237.54				
c)	M35 grade concrete	Cu.m	602.27				
d)	M40 grade concrete	Cu.m	1,123.08				
6.1.2	Shuttering / Form Work						

	Centering and shuttering with approved material such as plyboard, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.					
	For Column	Sq.m	5,717.72			
	For Beam, slab	Sq.m	19,310.57			
6.1.3	REINFORCEMENT WORK					
	TMT reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap)	Mt	1,144.04			
6.2	Non Structural concrete					
6.2.1	Concrete of following proportions in any form, size, shape and level mixture mixing and compacted with vibrator including setting out, laying, compacting, curing, testing and finishing complete as per drawings, specifications and instructions.					
a	M20 (1:1.5:3) grade machine mix concrete	Cu.m	68.96			
6.2.2	Shuttering / Form Work					
a	Centering and shuttering with approved material such as plyboard, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.	Sq.m	169.81			
6.2.3	Reinforcement work					

	Steel reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap weight)	MT	2.69				
6.3	Reinforcement protection work						
6.3.1	Providing and supplying the concrete of M10 to a given line and level including compaction with vibrator and curing as per engineer.						
a	M10 (1:3:6) grade machine mix concrete	Cum	64.64				
6.3.2	Shuttering / Form Work						
a	Centering and shuttering with approved material such as plyboard, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.	Sqm	257.28				
7.0	BRICK WORK						
7.1	Brick work in 1:4 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc. all complete as per drawing, specification & instruction						
a	Normal brickwork for super structure	Cu.m	348.28				
7.2	Brick work with hoop reinforcement in 1:4 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc., all complete as per drawing, specification & instruction.	Sq.m	2,211.13				
8.0	Aluminium Windows, doors & wall panels						

	Providing and fixing aluminum frame less (structure glazing) openable casement windows, assembled by reputed firm, using Powder Coated aluminum section including 18mm thick double glazed (5mm clear toughen glass plus 8mm air gap and 5mm thick reflective glass) manufactured by "Asahi" or Saint Gobain or equal and also including the cost of the Silicon (Dow Corning Silicon 995 for glass glazing and 789 for weather proof silicon, and spacer for structure glazing) and all accessories (EPDM marine quality gaskets, stainless steel screws, window closer, window stopper, locks and joining elements), all other necessary fittings as per drawing, specification and instruction of site Engineer. The fabrication shop drawing shall be submitted by the contractor for approvable for commencement of the job. And the Contractor must guaranteed for at least for five years of period after hand over of the work:						
	Note: All windows will be double glazed and Doors will be single glazed.						
8.1	Aluminium window with transom and mullion frame system						
a)	Both the openable and fixed window system should withstand maximum wind load of Kathmandu valley. Wherever windows are indicated, this shall be fully openable casement windows. The window hinges should be of Cotswold or equivalent.	Sq.m	1,389.55				
b	Supply and installtion of 4mm thick Aluminium composite Panel (model: ALP-65 virgina, make: Alstone platinum collection or equivalent) in 57mm x 67mm transom and 130.5mm x 67mm mullion section (Thai or equivalent) adjected to windows with properly applying exterior grade Dow Corning Sillion. The ACP should be installed in proper tray system. The cost should be inclusive of all the materials and labour all complete. The contractor must submit the fabrication shop drawing before the commencement of the work and must guarantee for at least five years after the hand over of works.	Sq.m	6,835.32				

c)	Supply and installation of 30mm thick Extruded polystyrene form for insulation (DOW or Insboards or equivalent) on Aluminium Composite Panel (ACP) from inside and covered with 6mm thick water proof Ply (SHERA lining Boards or equivalent) fixed in Thai G.I. frame and finished with two coats of interior emulsion paint of approved colour upon primer.	Sq.m	6,835.32				
8.2	Aluminum doors						
8.2.1	Automatic sliding main glass door operated by sensor(DORMA or equivalent). Complete set as per drawing, specification & instruction (shop drawing to be approved prior to manufacture)	Set	1.00				
8.2.2	Aluminium double hinged two way glazed swing door as per drawing including all fittings, ironmongers & locks all complete as per design, specification & instruction	Sq.m	73.08				
8.2.3	Aluminum hinged door with frosted glass as shown in the drawing including all fitting ironmongers and locks all complete as per design, specification & Instruction	Sq.m	84.63				
8.2.4	Aluminum hinged door with laminate boards shown in the drawing including all fitting ironmongers and locks all complete as per design, specification & Instruction	Sq.m	83.07				
8.3	Ventilation						
	Aluminum ventilation of specified size & design all complete as per drawing, specification & instruction	Sq.m	82.02				
8.4	Supply, fitting and fixing of 4.5x20mm M/S plate around the frame with 12mm x 12mm solid iron rod making Grill in window and ventilators cleaning by sand paper and painting with one coat of primer and two coat of black enamel all complete as per drawing, specification and instruction net.	Sqm	112.09				
9.0	FLOOR FINISH						
9.1	Cement floor finish						

	50mm thick IPC floor finish with cement concrete of mix 1:2:4 with sand and 6 mm thick stone aggregate including mixing laying in required slope, including finishing in top surface etc all complete as per drawing, specification and instruction.	Sq.m	5,639.59				
9.2	Granite floor						
	19 mm thk.Granite laid over a 20 mm base mortar of 1:2 cement sand plaster in perfect line, level, slope, etc. and curing, rubbing and polishing etc. all complete as per drawing, specification and instructions.	Sq.m	490.26				
9.3	Ceramic Floor Tile						
	Glazed ceramic tile in floor with 600 × 600 mm size (Kajaria, Somany or equivalent) approved non-glazed tile laid over a base mortar of 1:4 cement sand plaster in perfect line, level, slope, etc. and curing, etc. all complete as per drawing, specification and instructions	Sq.m	6,520.61				
9.4	Parking floor finish						
	100 mm thick IPC floor finish in the basement parking area with broom finish as per specification and instructions.	Sqm	1,967.87				
9.5	Cement skirting						
	10 cm high cement plaster skirting on all the plaster area on column and walls as per specification and instructions.	Rm	640.00				
9.6	Glazed Ceramic Wall Tiles						
	Glazed ceramic tile (Kajaria, Somany or equivalent) at wall with 600 × 600 mm size of approved colour laid over a base mortar of 1:4 cement sand ratio in perfect line, level, slope, etc. and curing, etc. including approved quality of matching colour grout all complete as per drawing, specification and instructions	Sq.m	1,811.90				
9.7	Sesam wood or Burmese Teak parquet flooring of 12.0mm thick including melamine polish with proper sealers and fillers, all complete as per drawing, specification and instructions.	Sq.m	570.93				

9.8	150 mm high Parquet skirting all over the parquet floor finish area as per drawing, specification and instructions.	Rm	64.00				
10.0	WATER PROOFING						
10.1	Water proofing of basement						
a)	Providing chemical injection in the form of pressure grouting to the raft at any depth, height & level by injecting cement slurry mixed with grout admixture MC Special DM or equivalent in the required consistency through the prefixed GI nozzles in the 18mm dia holes drilled in grid pattern at a spacing not exceeding 1 metre c/c on the top of raft under pressure using grout pump including preparation of surface de-watering, drilling holes, using pneumatic hammer for fixing of GI nozzles to the required depth, grouting admixture and finally cutting the projected nozzles and sealing of the GI nozzles after injection operation is over with MC Special DM or equivalent non shrink polymer grouting compound, finishing, curing, etc., as per manufacturer's specification and instruction.						
	Rate shall include for preparation of surface by mechanical upgrading to remove all loose mortar and laitance, oil, grease etc. and washing the surface with water jet to get clean surface, dewatering, finishing, curing, scaffolding, waterproofing chemicals, wastage, conveyance, tools and plants, mixing device and gauge, shuttering, Nozzles etc. complete as per manufacturer's specification and as instructed.						
	The Contractor must provide written guarantee for 15 years against any defect and leakage.	Sq.m	1,221.38				
10.2	Water proofing of shear wall						
	Treatment to shear wall, covering the following sequence of operations :						

a)	<p>Providing chemical injection treatment in the form of pressure grouting to shear walls by injecting cement slurry mixed with grout admixture MC Special DM non shrink polymer grouting compound or equivalent in the required consistency through the prefixed GI nozzles in the 18 mm dia. holes drilled on the surface of shear wall at every 1 m spacing in horizontal direction, after construction joints at every stage and junction of raft slab & shear wall under pressure using grout pump including preparation of surface, dewatering, drilling holes using pneumatic hammer, fixing of GI nozzles to the required depth, grouting the nozzles with MC Special DM or equivalent chemical and finally cutting the projected nozzles and sealing off the GI nozzles after the injection operation is over with MC Special DM non shrink polymer grouting compound or approved equivalent, finishing, curing etc. as per manufacturers specification and instruction.</p>						
b)	<p>Providing, supplying, mixing, applying two coats of ready to use two component acrylic polymer modified cement based flexible water proofing slurry like Emceflex or approved equivalent conforming to IS to thickness of 2 mm on the surface of side wall after the chemical injection treatment is completed as specified under point (a) above.</p>						
c)	<p>Providing, supplying, mixing, laying cement plaster 12 mm thick with cement mortar 1:4 mixed with approved water proofing compound like MC Special DM or equivalent conforming to IS at the rate specified by the manufacturer over the coated surface of operation specified in point no. (b) above.</p>						
	<p>Rate shall include for preparation of surface by mechanical upgrading to remove all loose mortar and laitance, oil, grease etc. and washing the surface with water to get neat surface, dewatering, finishing, curing, scaffolding, waterproofing chemicals, wastage, conveyance, tools and plants, mixing device and gauge, shuttering, Nozzles etc. complete as per manufacturer's specification and instruction.</p>						

	The Contractor must provide written guarantee for 15 years against any defect and leakage.	Sq.m	1,598.47				
10.3	Water proofing of toilets						
	Any existing debris on slab is removed and surface is prepared. Construction joints, if any, are raked and cleaned.						
	Two more coats of acrylic based two packed water proofing membrane, like WATERGUARD A or equivalent are applied on the surface.						
	A layer of brick bats / brick ballasts with average thickness of 11 cm is laid in cement sand mortar (1:4) to maintain a proper gradient. The joints between the brick bats are generally 15 to 25 mm wide and these joints are filled with cement mortar(1:4) mixed with water proofing compound.	Sq.m	638.78				
11.0	PLASTER WORK						
11.1	12.5.mm, thick cement and sand plaster work of mix 1:4 cement & sand in RCC surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing , specification and instruction	Sq.m	17,241.73				
11.2	12.5mm, thick cement sand plaster work of mix 1:4 cement & sand in brick surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing, specification and instruction.	Sq.m	12,304.99				
11.3	Finishing plastered wall & ceiling by applying Birla Putty topping finish as per drawing, specification & instruction.	Sq.m	29,546.72				
12.0	WALL FINISH						
12.1	PAINTING WORKS						
a	Two or more coats of acrylic emulsion paint of approved colour, over one coat of base paint on Birla putty finished on cement plastered wall. Including preparation of surface by sanding, filling of fillers to get smooth & uniform finish all complete as as per drawing, specification & instruction	Sq.m	23,803.98				

b	Two or more coats of water proof cement paint on cement plastered wall and ceiling (basement & parking area) over one coat of white cement base, surface preparation by sanding, filling by fillers to get smooth & uniform surface, all complete as per drawing, specification & instruction	Sq.m	5,742.74				
12.2	Granite / tile						
a	Granite tile cladding in lift wall as shown in the drawing, over base cement mortar of mix 1:4 including preparation of the base, laying granite slab in required pattern in perfect line, level, shape & size with uniform joint & surface inclusive of silicon filling in the joint as per design, specification & instruction						
	Granite tile skirting in walls adjacent to granite floor and as shown in the drawing, over base cement mortar of mix 1:4 including preparation of the base, laying granite slab in required pattern in perfect line, level, shape & size with uniform joint & surface inclusive of silicon filling in the joint as per design, specification & instruction	Rm	688.50				
b	300x600 size glazed ceramic tile in rustic metal finish (Kajaria or Somany or equivalent) fixing in lift wall in base cement plaster of mix 1:4 and laying of tile in rich cement mortar in perfect line, level, shape size and pattern with uniform joint etc all complete as per drawing, specification & instruction	Sq.m	1,136.88				
13.0	Railings						
13.1	Ramp railing						
	Railing for Ramp for handicap use, the railing is made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0" finishing all complete as per drawing, specification and instruction.	Rm	23.91				

13.2	Railing for stair, the railing is made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0" finishing all complete as per drawing, specification and instruction.	Rm	355.20				
13.3	50 mm dia stainless steel tube hand rail fixed with stainless steel bracket fixed into RCC/brick wall with proper hold fast, all complete as per drawing, specification and instruction	Rm	179.90				
13.4	Parapet: Moulded ACP sheet for parapet of terrace/ verandah made to shape & size out of aluminum sheet fixed into RCC parapet wall/ ACP selection neatly jointed including 50mm dia SS hand rail, as per drawing, specification & instruction.	Sq.m	48.25				
14.0	SPIRAL STAIRCASE						
	Supplying, fitting and fixing spiral stair case of width 2' to 2'-6" using 4"- 6" Medium Black pipe post with 1 1/4" dia handrail on .5"x.5" square pipe including cutting and making good of civil works, painting etc.all complete as per drawing, specification and instruction.						
a	From lower basement to upper basement	Set	1.00				
b	From upper basement to ground floor	Set	1.00				
c	At tenth floor	Set	1.00				
15.0	TERRACING						
15.1	Providing and applying the water proofing membrane, Aquafin or equivalent for top terrace including base preparation by cleaning all surface horizontal & vertical using wire brush, applying two coats water proffing system in flat roof including (vertical upto 300 mm) providing 150 thick insulation material such as foam concrete with Flag stone laid in cement mortar at top finished in pattern as per drawing, specification & instruction .	Sq.m	928.00				
16.0	Basement Ventilator						

	Aluminum louver Ventilator of 600mm high supported in 175mm thick RCC base and 175 thick RCC base, covered by acrylic sheet roof supported in aluminum pipe all complete as per drawing, specification & instruction.						
a	1660 wide earth ramming to smooth surface	Sq.m	50.87				
b	1660 wide 55 mm thick brick flat soling	Sq.m	50.87				
c	1660 wide, 100 mm thick PCC 1:3:6	Sq.m	50.87				
d	RCC base M20 (1:1.5:3) ratio concrete 1510 wide 175 thick with reinforcement RCC vertical wall 1210 high, 175 thick with reinforcement & shuttering	Cu.m	25.39				
e	600 high Aluminum lower window	Sq.m	25.20				
f	900 wide Acrylic roof fixed in aluminum pipe frame	Sq.m	35.83				
g	Toughened glass over basement skylight	Sq.m	12.48				
17.0	Granite Cladding						
	16mm thick Granite Cladding at exterior wall up to plinth level over base mortar 1:4 cement sand plaster in perfect line and level including silicon filling in joints all complete as per drawing, specification and instruction.	Sq.m	169.83				
18.0	LOW DENSITY FILLING						
	Low density concrete filling for bathroom drop Slab by using 1:4:8 cement, sand or brick powder and low density brick bats, compacted and leveled smooth at top. (No disturbance in the pipe line and other conduits shall be made) all complete as per drawing, specification & instruction .	Cu.m	239.66				
19.0	SKYLIGHT SYSTEM						
	Skylylight system in RCC slope roof (app size 1500 x 3000) made of aluminum frame of suitable section fixed & grouted in RCC slab with 12mm thick toughned glass (saint gobins or Assai or equivalent) shop drawing to be approved, including providing water proofing membrane all around all complete as per drawing, specification & instruction.	Nos.	12.00				
20.0	Porch						

	Main entrance canopy structure as per detailed drawing (tubular cantilever Roof structure) fabricated out of various size structural grade ms pipe of various size including anchored beam high tension string system and covering by 10 mm thick acrylic sheet all complete. The structure shall be fixed with expandable bolting system (Hilti or equivalent) anchor properly and inclusive of providing drainage system and appropriate painting & finishing all complete as per drawing, specification & instruction.	Set	1.00				
23.0	Elevators (Lift)						
	ELEVATORS (LIFT) Providing and installation of 10 person capacity, 18 stops, latest model elevator (Kone or Otis equivalent) with following specification:as per the manufacture's specification, equipments, fittings, including mechanical, electrical and electronics works with materials and fitting all complete as per drawing, specification and instruction for the following items.						
	i. System does not require machine room (Mono Space Type)						
	ii. Speed : 1.0 - 1.75 m/sec (adjustable)						
	iii. Vector controlled inverter incorporating microcomputer control for accurate and precise control for smooth and quite ride. The system should have advanced multi-processor control system. The inverter control system should regulate both the amplitude and frequency of the motor drive voltage, based on the pulse width modulation algorithm for precise and reliable speed control.						
	iv. The elevator controller should determine the floor heights and travel distances, and store the collected information in memory chip.						
	v. Door Frame : Hairline stainless steel.						
	vi. Door Panel : Stainless steel Hairline finishing.						
	vii. Sill : Extruded hard aluminium						
	viii. Ceiling : Suspended ceiling made of hairline stainless steel						

	ix. Lighting : LED						
	x. Side and rear wall : Hairline stainless steel						
	xi. Flooring : stone finish						
	xii. Emergency Car Lighting : Swatches on automatically in the event of a power failure, providing						
	xiii. Emergency Car Lighting : Swatches on automatically in the event of a power failure providing illumination within the car.						
	xiv. Fire Emergency Return: When the building's fire or smoke detectors are activated or the swatch on the supervisory panel is activated, all calls should be cancelled and all the elevators should immediately travel to the main lobby and park there with the door open.						
	xv. Fan Automatic Shut Off : Automatically swatches off the ventilation fans when no calls are registered after a predetermined period of time.	Set	3.00				
22.0	Designing, Drawing, Estimate, Supplying and installation of dog legged steel staircase made of MS steel from ground floor to tenth floor. The design should be approved from Engineer including cutting joining, erection, one coat red lead oxide and two coat of enamel paint all complete as per drawing, specification and instruction.	Job	1.00				
23.0	Designing, Drawing, Estimate, Supply, fitting and Fixing of 5 Nos. of six meter wide truss structure and acrylic sheet for Ramp Cover up to 25m length as shown in Drawing with one coat of red oxide and two coat of enamel paint all complete as per drawing, specification and instruction	Job	1.00				
	Sub Total						

Nepal Electricity Authority
Engineering Services Directorate
Building and Physical Infrastructure Construction Project
Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part I: BOQ for 10 Storey Building -BILL OF QUANTITIES-SANITARY

Item	Description	Unit	Quantity	Rate		Amount	Remarks
				in Figure	in Words		
A.	SANITARY INSTALLATION						
1	WC						
1.1	Providing and fixing in position Vitreous China European pattern floor mounted water closet, seat height lev. at 17"-19" above finished floor "S" or "P" type white glazed with dual flush cistern of 3/6 litre capacity with dual flush fitting, Heavy SS 3" screw with grip, Antimicrobial Seat, 1nos. PVC connecting pipe with angle valve with CP cap, 1nos. of long neck CP Bib Cock etc. accessories connection to soil pipe line and water line connections all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	50.00				
1.2	Providing and fixing in position Vitreous China European pattern floor mounted water closet, seat height lev. at 17"-19" above finished floor "S" or "P" type white glazed with 32mm dia. CP flush valve. Heavy SS 3" screw with grip, Antimicrobial Seat, 1nos. of long neck CP Bib Cock etc. accessories connection to soil pipe line and water line connections all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	10.00				
2	WASH BASIN						

2.1	Providing and fixing in position Vitreous China Wall Hung Basin size of 550x 400 with MS brackets with 8mm dia. screw holes and heavy SS screw with expansion grip with 32mm dia. waste coupling with 32mm dia. PVC bottle trap, 1nos. of Angular Stop Cock with CP cap, 1nos. of Pressmatic Piller Cock with PVC 1' Connecting pipe, connection to waste line and water lines all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	18.00				
2.2	Providing and fixing in position Vitreous China Table Top Basin size of 550x 400 with MS brackets with 32mm dia. waste coupling with 32mm dia. PVC bottle trap, 1nos. of Angular Stop Cock with CP cap, 1nos. of Pressmatic tap with PVC 1' Connecting pipe, connection to waste line and water lines all complete as per drawing, specification, direction of direction of the engineer and ready for operation.	Nos.	40.00				
3	URINAL						
	Providing and fixing in position Vitreous China Urinal white glazed with Urinal pressmatic auto closing valve with Spreader etc. accessories connection to waste line and water line all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	32.00				
4	STAINLESS STEEL SINK						

4.1	Providing and fixing in position single bowl Stainless Steel Sink with drain board size of 1200mmx510mmx160mm with 32mm dia. waste coupling with 32mm dia. PVC bottle trap heavy quality, 1 nos. 15mm dia. CP angle stop cock with CP cap and 15mm dia. PVC connecting pipe, 15mm dia. CP cold water sink bib cock with long neck etc. and connection to waste line and water lines all complete as per drawing, specification, direction of engineer and ready for operation. Ariston or equivalent.	Nos.	13.00				
4.2	Providing and fixing in position double bowl Stainless Steel Sink with drain board size of 1500x510mmx160mm with 32mm dia. waste coupling with 2nos. of 32mm dia. PVC bottle trap heavy quality, 2 nos. 15mm dia. CP angle stop cock with CP cap and 15mm dia. PVC connecting pipe, 15mm dia. CP swingable long neck bib cock mixer etc. and connection to waste line and water lines all complete as per drawing, specification, direction of engineer and ready for operation. Ariston or equivalent.	Nos.	2.00				
5	Providing and fixing in position the following accessories with SS screws or mortar of 1:1 etc. all complete as per drawing, specification, direction of the engineer and ready for operation.						
	a) Beveled edge glass mirror of float glass of Ashai with pasting onto 12thk waterproof Sajun ply board with enamel paint of ply board all sides.	Sq.m	40.00				
	b) CP Towel Bar 24"	Nos.	40.00				
	c) Porcelain clay white recess tupe Soap Holder 150mm x 70mm	Nos.	60.00				
	d) Porcelain clay white recess type toilet paper holder size 150mm x 70mm	Nos.	54.00				

	e) Cockroach Trap 115 x 115 of SS	Nos.	102.00				
	f) 160dia. PVC Floor Trap Gali	Nos.	8.00				
	g) 2' Grab bar	Nos.	11.00				
	h) 18" Grab bar	Nos.	11.00				
	i) Ceramic Urinal Partition 680mm x 300mm	Nos.	22.00				
	j) Providing and fixing in position heavy quality long bib cock with extended lever handles.	Nos.	1.00				
	TOTAL OF SANITARY INSTALLATION						
B.	SOIL, WASTE, VENT & RAIN WATER PIPES						
1	Providing and fixing in position heavy quality 6kgf/cm.sq UPVC pipes and fittings for soil, waste, vent and rain water lines as per need including cutting the pipes to required length and fixing in position with PVC or MS clamps as required keeping pipe barer min. 50mm apart from the wall face, joining pipes and fittings with rubber rings and joining solution etc. including nailing, clamping. Pipe line should lay disregarding groove cutting, hole cutting in brick work or RCC all complete as per drawing, specification, direction of the engineer and ready for operation. The clam of MS clamps is separte. Brand Panchakanya						
	a) 160 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	470.00				
	b) 110 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	1,100.00				

	c) 75 mm dia. dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	190.00				
	d) 50 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	120.00				
2	Providing and fixing in position heavy quality PVC fittings or specials with or without door access as per need, joining pipes and fittings with rubber rings and solution etc. including nailing, clamping. Pipe line should lay disregarding groove cutting, hole cutting in brick work or RCC work and all complete as per drawing, specification, direction of Engineer and ready for operation. The clam of MS clamps is separate. Brand Panchakanya or equivalent						
	a) 160mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	36.00				
	b) 110mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer	Nos.	664.00				
	c) 75mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	360.00				
	d) 50mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	236.00				
3	MS STRUCTURAL FABRICATION						

	Providing and fixing M.S structural work fabricated from standard sections i.e. rounds, solid angels, slotted angles, channels, cutting to size, drilling, welding, fixing and welding to insert plates in RCC structural members, hang, clamp it properly in position with metal grip expansion bolt, including red oxide and enamel painting for pipe hanger, supports, clamps all complete as per drawing specification, direction of the engineer and ready for operation. (The fabrication shop drawing shall be submitted by the contractor for commencement of the job).	kg.	2,000.00				
	TOTAL OF SOIL, WASTE, VENT & RAIN WATER PIPES						
C.	WATER SUPPLY						
1	COLD WATER LINES						
1.1	Providing and fixing in position Chlorinated Poly Vinyl Chloride (CPVC) with necessary CPVC fittings such as elbow, tee, union, nipple, brass elbow and brass tee etc making joint with applying solvent yellow, including nailing, clamping. Pipe line should lay disregarding groove cutting and hole cutting all complete as per drawing specification, direction of the engineer and ready for operation. Note: at the outlet fittings should be of brass elbow or brass tee and check valve as required. Brand Astral						
	a) 80mm dia. SDR 11 CPVC pipe with fittings	Rm.	80.00				
	b) 65mm dia. SDR 11 CPVC pipe with fittings	Rm.	26.00				
	c) 50mm dia. SDR 11 CPVC pipe with fittings	Rm.	144.00				
	d) 40mm dia. SDR 11CPVC pipe with fittings	Rm.	20.00				
	e) 32mm dia. SDR 11 CPVC pipe with fittings	Rm.	108.00				
	f) 25mm dia. SDR 11 CPVC pipe with fittings	Rm.	108.00				
	g) 20mm dia. SDR 11CPVC pipe with fittings	Rm.	154.00				

	h) 15mm dia. SDR 11 CPVC pipe with fittings	Rm.	286.00				
1.2	Providing and fixing in position CPVC valve as per drawing specification, direction of the engineer and ready for operation. Astral						
	a) CPVC CTS 80mm dia. Ball Valve	Nos.	8.00				
	b) CPVC CTS 65mm dia. Ball Valve	Nos.	5.00				
	c) CPVC CTS 50mm dia. Ball Valve	Nos.	6.00				
	d) CPVC CTS 40mm dia. Ball Valve	Nos.	5.00				
	e) CPVC CTS 32mm dia. Ball Valve	Nos.	10.00				
2	Providing and fixing in position Bronze non return valve of LEADER all complete as per drawing specification, direction of the engineer and ready for operation.						
	a) 80mm dia. Butterfly Valve	Nos.	1.00				
	b) 80mm dia. Non return Valve	Nos.	1.00				
	c) 65mm dia. Butterfly Valve	Nos.	2.00				
	e) 80mm dia. CI "Y" Strainer	Nos.	1.00				
	f) 50mm dia. Non return Valve	Nos.	1.00				
3	Water Bar Flange						
	Providing and fixing Pipe Inserts (Water Bar Flange) up to 1000mm long to tank using 'C' class M.S.Pipe, providing 4 to 5mm thick M.S plate at center projecting 25mm around pipe insert, applying 3 coats of anti- corrosive paint before fixing						
	a) 80 mm dia	Nos.	4.00				
	b) 65 mm dia	Nos.	5.00				
4	WATER TRANSFER PUMP						

	Providing and fixing in position centrifugal pump set of 10lit/sec against 100m head with electric motor including base plate made out of MS Channel fixed with nuts and bolts on leveled and strong foundation, connection to 65mm suction and 50mm delivery lines and connection to electrical line thru separate panel box with control to water tank filling manage system, 7.5HP speed of pump 2900rpm as well as testing commissioning the same all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	2.00				
5	Providing and fixing in position overhead water tank of PVC with required base support including hoisting & fixing in position with inlet, outlet, overflow and cleanout connections all complete as per drawing, specification, direction of the engineer and ready for operation.						
	a)5,000 litre capacity PVC water tank. Hilltake (Heavy) with lock.	Nos.	8.00				
6	UPVC SLEEVES						
	Providing and fixing in position UPVC of 160mm dia to 110mm dia and CPVC 50mm dia to 80mm dia. Sleeves in perfect line and level all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	170.00				
7	SUBMERSIBLE PUMP						
	Providing and fixing in position submersible Italian pumps for basement drain out single phase, power .60 kw, 1 HP, automatic drain out system all complete as per drawing, specification and instruction of engineer. Grundfos or equivalent	Nos.	2.00				
	TOTAL OF WATER SUPPLY WORKS						
D.	EXTERNAL WORKS						

1	HDP PIPE						
	Providing and laying in position HDP pipes including excavation of earth to any soil, any depth as per need and refilling the trenches 1' sand before laying pipes and rest of portion refilling soil with soil sprinkling water and compacting. Removing surplus earth with dumping to a distance as directed all complete as per drawing, specification, direction of the engineer and ready for operation.						
	a) 160 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	110.00				
	b) 200 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	50.00				
	c) 250 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	30.00				
2	MANHOLE						
	Construction of a manhole size of 1.0m dia. for soil line and max. depth of 1.5m as per site condition including earth excavation, brick soling, brick work 250mm and 350mm thick in cement mortar (1:4) 110mm base concrete (1:1.5:3), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 300mm ID heavy CI man hole cover with frame fixed over 110mm thick RCC coping in 1:1.5:3 cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	3.00				
3	CATCH BASIN						

	Construction of a catch basin size of 3.5ft dia. for rain water line and max. depth of 1.25m as per site condition including earth excavation, brick soling, brick work 9" thick in cement mortar (1:4) 110mm base concrete (1:2:4), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 600x600 heavy CI grating with frame fixed over 110mm thick RCC coping in 1:1.5:3. cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	9.00				
4	GULLY TRAP						
	Construction of gully trap size of 600 x 600mm for waste line and max. depth of 1m as per site condition including earth excavation, brick soling, brick work 250mm thick in cement mortar (1:4) 110mm base concrete (1:1.5:3), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 600mm ID heavy CI man hole cover with frame fixed over 110mm thick RCC coping in 1:2:4 cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	1.00				
5	ANAEROBIC BAFFLE REACTOR						

	Construction of a Anaerobic Baffle Reactor with Anaerobic Filter size of length 6.0m x breath 3.0m x depth 3.0m for including earth excavation, brick soling, 4" thk PCC (1:3:6), 350mm base RCC (1:1.5:3) with 12mm dia. reinforcement 6"c/c both way in double layer, 6" wall RCC (1:1.5:3) with 10mm dia. reinforcement 6"c/c and 8mm dia. reinforcement 7"c/c both way in double layer, internal surface cement plaster (1:4) & 5mm cement punning and fixing 2nos. of 2ft. x 2ft. medium weight CI manhole cover with frame fixed over 6" thick RCC (1:1.5:3) cover slab with 10mm reinforcement 6" c/c and 10mm dia. reinforcement 6"c/c both way in double layers, Screeding and punning on the floor with 1:10 slope and including 5nos. 110mm dia. vertical pipe, including formwork, water proffing with grouting all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	1.00				
6	DEEP WELL						
	Construction of water production deep well of size 150mm diameter depth up to 250m with pump discharge capacity 7 cu.m/hr, shaft seal of motor CER or Carbon with built in non return valve, pump, impeller and motor made of stainless steel boring in clay, silt gravel, rock, etc. heavy class MS black pipe and screen pipes, natural gravel packing surging with compressed air, discharge measurement, submersible pump of Grundfos or equivalent, cable, electric panel board etc. the pump entirely made of Stainless Steel 3 phase, outlet of 1.5" and 8HP speed of pump 2900rpm all complete and ready for use.	Rm	300.00				
7	WATER TREATMENT PLANT						

	Providing and fixing in position water treatment plant made of FRP consisting of dosing, aeration, sand pressure filter, activated carbon filter complete with internal media, piping with required valves, electronic closing system with tank, pump, piping and valves all complete with chemicals required to run the unit for one month, raw water treated to meet WHO potable standard all complete of 7 cu.m/hr capacity.	set	1.00				
	TOTAL OF EXTERNAL WORKS						
E.	FIRE FIGHTING						
1	Excavation of trenches of required width for pipes, including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning soil as required, in layers not exceeding 20cm depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil all complete, as per drawing and instruction of the Engineer.						
a)	Pipes 150mm dia in all types of soil.	Rm	125.00				
2	Supply, Installtion and testing of MS Class C pipe (make: HIPCO or equivalent)with fitting, Welded joint and two coat oxide paint or screwed joints and flanges as required and cutting holes and chase in brick or RCC walls, wherever required and making good the same all complete, as per drawing and instruction of the Engineer.						
a)	200mm dia	Rm	129.00				
b)	150mm dia	Rm	90.00				
c)	100mm dia	Rm	150.00				
d)	65mm dia	Rm	70.00				
e)	50mm dia	Rm	35.00				
f)	40mm dia	Rm	40.00				

g)	32mm dia	Rm	30.00				
h)	25mm dia	Rm	140.00				
3	Providing and laying anti-corrosive tapes of MAKPOLYKOTE / PYPKOTE make, 100mm wide and 4mm thick including an initial coat of primer for preventing the corrosion of buried pipe in trenches, complete in all respects as per manufacturers specifications all complete, as per drawing and instruction of the Engineer..						
a)	150mm dia	Rm	125.00				
4	Painting of exposed pipes with two or more coats of synthetic enamel paint of approved shade as per pipe colour code including painting of legends in English with direction arrows all complete, as per drawing and instruction of the Engineer..						
a)	200mm dia	Rm	129.00				
b)	150mm dia	Rm	90.00				
c)	100mm dia	Rm	150.00				
d)	65mm dia	Rm	70.00				
e)	50mm dia	Rm	35.00				
f)	40mm dia	Rm	40.00				
g)	32mm dia	Rm	30.00				
h)	25mm dia	Rm	140.00				
5	Providing and fixing standard mild steel flanges, (only in valves, strainers, expansion joint and pumps matching flanges) screwed or welded complete with 1.5mm thick compressed asbestos gasket, nuts, bolts and washers etc., complete including testing of joints. all complete, as per drawing and Specification						
a)	200mm dia	Set	4.00				
b)	150mm dia	Set	4.00				

c)	100mm dia	Set	6.00				
d)	50mm dia	Set	4.00				
6	Providing and fixing gunmetal fullway valve with wheel tested to 20 Kg/cm ² quality all complete, as per drawing and Specification						
a)	50mm nominal bore	Pc.	2.00				
b)	25mm nominal bore	Pc.	4.00				
7	Providing and fixing butterfly valves, wafer end type class PN 1.6 including necessary nuts, bolts, gaskets etc. complete (without gear box) as per Specification						
a)	200mm dia nominal	Nos.	1.00				
b)	150mm dia nominal	Nos.	2.00				
c)	100mm dia nominal	Nos.	5.00				
d)	80mm dia nominal	Nos.	3.00				
e)	65mm dia nominal	Nos.	2.00				
8	Providing and fixing of Non - return valves Horizontal / vertical 20kg/sq m including necessary unts, bolts, gasket etc. all complete, as per drawing and Specification						
a)	100mm dia	Nos.	2.00				
b)	75mm dia	Nos.	4.00				
c)	50mm dia	Nos.	2.00				
9	Providing, fixing of Cast Iron / Gun metal Y stainer as per IS standard including necessary nut, bolts, gasket etc all complete, as per drawing and Specification						
a)	200mm dia	Nos.	1.00				
b)	100mm dia	Nos.	1.00				

10	Providing and fixing Flexible joint of pump for eliminate vibration as tested 20 kg/ sq m including all necessary requirment all complete, as per drawing and Specification						
a)	150mm dia	Nos.	2.00				
b)	50mm dia	Nos.	1.00				
11	Supply and fixing of installation valve assembly of approved make complete with turbine type automatic alarm valve control valve , test and drain valve and hydraulic alarm with motor and gong including interconnecting pipe all complete of 100mm dia as per Specification	Nos.	1.00				
12	Providing and fixing 25mm dia. C.I. air valve, single acting including the cost of all pipes and fitting as per standard design and site conditions complete in all respects, (excluding the gate valve) all complete, as per drawing and Specification	Nos.	3.00				
13	Providing, fixing and testing of external fire hydrants with 63mm dia single outlets and with instantaneous type pope threaded make coupling for connection to hose Type -A (Oblique) inlets flanged, mounted on a 80mm dia stand post complete in all respect as per attached Sketch. The stand post to be tapped form the external ring, supported on a pedestal. The exposed prtion of the stand post and hydrant to be painted in red colour and bituman paint of flanges and post underground all complete, as per drawing and Specification.	Nos.	4.00				

14	Providing and fixing landing valve/ Hydrants to type - A of with 63mm dia gunmetal instantaneous type single headed outlet, M.S.pipe bend and flange of required size with blank caps and chain complete with instantaneous spring lock type G.M. female coupling of 63 mm dia for connecting hose pipe, all complete, as per drawing and Specification	Nos.	14.00				
15	Providing and fixing standard short size gunmetal branch pipe with gunmetal nozzle 20mm nominal bore outlet with standard instantaneous type coupling, all complete, as per drawing and instruction of the Engineer.	Nos.	14.00				
16	Providing and fixing first aid fire hose reel, wall mounted swinging type fitted with 36.5mx20mm dia, high pressure hose conforming to IS:1532 with 5mm outlet gunmetal nozzle with shut off valve NAFFCO Brand as per IS:884-1969, all complete, as per drawing and instruction of the Engineer.	Nos.	14.00				
17	Providing and fixing 63mm dia 15m long rubberized fabric lined hose including gunmetal male and female instantaneous type coupling, approved by fire authority, machine wound with G.I. wire complete in all respects with hose conforming to type-II and coupling with ISI certification, all complete, as per drawing and specification	Nos.	36.00				
18	Providing and fixing fire hose cabinet fabricated from 14 gauge M.S sheet with single or double glazed front door and locking arrangement, painted "Fire Hose" with stove enameled paint, written on front, including necessary supports all complete, as per drawing and specification	Nos.	14.00				

19	Providing and fixing standard fire mans axe with heavy duty insulated rubber handle all complete, as per drawing and instruction of the Engineer.	Nos.	13.00				
20	Supply, Installation and testing, of Brass body quartzoide bulb type automatic sprinkler head						
a)	Pendent type with single piece rosette, dia 15mm, 68 deg.c temp as per specification	Nos.	100.00				
21	Providing and fixing 100mm dia two-way fire brigade inlet connection consisting of 63mm size instantaneously make coupling and shall be protected by cap scored with a chain glass bore etc. complete with one 100mm dia Butterfly valve (To be connected to external ring main/wet riser/sprinkler riser) all complete, as per drawing and specification	Nos.	2.00				
22	Providing and fixing M.S structural work fabricated from standard sections e.g. M.S. rounds, angles, channels, plates including cutting to size, welding, drilling with concrete drilling bits and fixing dash fasteners in RCC structural members as directed by Engineer-in-charge including cutting and making good the walls, ceilings and floors (for all types of pipe supports, clamps, etc.) all complete, as per drawing and specification.	Nos.	140.00				
23	Supply, installing, testing and commissioning of electric driven fire pump suitable for automatic operation consisting of following all complete, as per drawing and specification						

	Fire pump with bronze/ gun metal impeller, horizontal split casing, centrifugal suction type multistage, having a capacity of 40 ltrs/ sec against a total head of 90m so as to ensure a minimum pressure of 3 kg per sq cm at the highest and farthest outlet at the specified flow complete with necessary pressure guage on the delivery side including by - pass arrangement for priodical testing of the working of the pumping set with 50mm dia G.I. pipe upto 5m length & control valve. The pump shall be provided with mechanical seals all complete, as per drawing and specification	Set	1.00				
24	Supplying, installing, testing and commissioning of diesel engine driven fire pump suitable for automatic operation consisting of the following all complete, as per drawing and specification						
	Horizontal centrifugal type fire pump with bronze/ gun metal imperller, complete for delivery of 40 Lts/ sec at a total head of 90 m so as to ensure a minimum pressure of 3.0 kg per sq. cm at the highest & farthest outlet at the specified flow, complete with necessary pressure gauge on the delivery side etc. including by - pass arrangement for periodical testing of the working of the pump set as required. The pump shall be provided with mechanical seals.	Set	1.00				
25	Supplying, installation, testing and commissioning of electric motor driven Jocky pump consisting of the following all complete, as per drawing and specification						

	Centrifugal Pump of 2 l/s capacity, capable of building pressure lost or any leakage in the system against a total head head of 90 m approx. with bronze/gun metal impeller complete with necessary pressure gauge on delivery side etc. including by-pass arrangement for testing of the working of the pumping set and with mechanical seals as required.	Set	1.00				
26	Fabricating, supplying, erection, testing and commissioning of cubical type, floor mounted, control panel complete with suitable relays, contactor, indication lamps, fuses, instrument isolator, automatic star delta type motor starter and auxiliary switch including connections complete as required for 1 nos. main pump (one for wet riser and spare space for sprinkler pump and pne diesel - driven stand -by) and 1 no. jockey pump and one spare space for jockey pump and Local Fire Department requirements as detailed below all complete, as per drawing and specification						
	switch 200A 50KA MCCB TPN Voltmeter(0-500)V+(0-200)A Amp meter						
	Voltmeter(0-500)V+(0-200)A Amp meter						
	V.S.S						
	indication lamp						
	protection fuse base						
	Outgoing main pump 1 set 70 HP Auto S/D Stator						
	1 set 7.5 HP DOL						
	16/40 amps tp MCB						
	25 amps sp MCB	Set	1.00				

27	Supply & laying PVC insulated and sheathed armoured cables of 1.1 KV copper conductor Including supplying and making end termination with brass compression glands all complete, as per drawing and instruction of the Engineer.					
a)	3cx4 sq mm CU/Arm. Cable	Rm	29.00			
b)	3cx120 sq mm cu cable	Rm	25.00			
c)	1x25 sq mm PYC/PVC in conduit/Trunking	Rm	25.00			
d)	1x6 sqmm P/V/C/PVC in conduit/Trunking	Rm	38.00			
28	Earthing with GI earth Plate 600mmx600mmx 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangements and watering pipe ect. (including Charcol or coke and salt) all complete, as per drawing and specification	Set	1.00			
29	Providing and Fixing 20 mmx 3 mm Cu strip in 40 mm dia GI pipe from earth electrode as required all complete, as per drawing and specification	Rm	29.00			
30	providing and fixing 20 mmx 3 mm Copper strip on surface or in recess for earth connection all complete, as per drawing and specification	Rm	10.00			
31	Providing and fixing 8 SWG dia GI wire on surface or recess foe loop earthing all complete, as per drawing and specification	RM	50.00			
32	Providing and fixing of Fire Extinguishers,with all accessories as per specification					
a)	Fire Extinguishers ABC Type, 5 Kg Capacity With Fire Rating of 34A 183B	Set	14.00			
	TOTAL OF FIRE FIGHTING					
	Grand Total					

Nepal Electricity Authority

Engineering Services Directorate
Building and Physical Development Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part I: BOQ for 10 Storey Building -Bill of Quantity - Electrical Works (External Works)

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
A	POWER SUPPLY SYSTEM					
	Supply, Installation, testing, commissioning including the necessary connecting, fixing, insulating and earthing as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete					
1.0	HT Panel Board					
	Floor mounting type 11kV VCB, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out minimum 2mm sheet steel duly treated with 2 coats of red oxide and epoxy paints, Panels shall be suitable for 11KV, 3 phase, 3 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomming : 1 no 630 A 20 KA , 11 KV ,VCB					
	50 -100/5 A 2 core CT for protection (class IP20) and metering Class 1					
	3 nos 11kV/110V PT 30VA					
	Outgoings : 2 nos 630 A 20 KA , 11 KV ,VCB					
	Metering and protection units for Incoming and out going feeders.					
	External/Switchyard Building Panel					



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2.0	Recess/Surface type External/ Switchyard Building Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomer :					
	1 no 63 A TP 25 KA MCCB					
	Outgoings :					
	3 Nos. 25 A TP 10 KA MCB					
	12 Nos. 6 A SP 10 KA MCB					
	9 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.					
	Battery and Battery Charger					
3.0	Supply,Installation, testing, commissioning of 110 V DC maintenance free Lead Acid Battery (9 nos of 12v 60/70AH) and charger including the necessary connecting, wiring, DC DB ,fixing, MS rack, metal enclosure as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete. Input of battery charger shall be 230V AC +/- 15%, 50 +/- 2.5 Hz and out put shall be 110 V DC 25 A.	set	1.00			
4.0	Earthing system including connection to the switch fuse unit, main panel, floor distribution boards as per IS 3043-1966 specifications and instruction such that the earth resistance should	set	6.00			

	not exceed 5 ohm as per Specification & drawings , with following accessories:					
	a) Copper plate of size 600mm x 600mm x 3.15mm as electrode					
	b) Copper earth conductor of size 6 SWG , as earth lead , duly brazed to electrode					
	c) 25mm dia 2 m long G.I. Pipe , perforated , for watering					
	d) 300x300x50mm RCC slab inspection cover					
	e) Common salt, charcoal, water treatment arrangement etc.					
5.0	Main Earthing system including main earth grid, connection to the 11kV VCB , MPB, Lightning protection system , floor distribution boards as per IS 3043-1966/IEEE - 80, specifications and instruction such that the earth resistance should not exceed 1 ohm as per Specification & drawings , with following accessories:					
5.1	6x32 mm GI strip as earth electrode (200 rm)	mtr.	200.00			
5.2	95 sq mm copper earth wire laid in ground and earth riser to connect to the different electrical equipment as main earth connection including cable lugs and other necessary accessories.	mtr.	400.00			
5.3	19mm dia 2 m long Copper pipe as earth electrode	nos	12.00			
5.4	Necessary thermal joint and mechanical connectors	lot	1.00			
5.5	minimum 50 sq mm cu earth wire to connect from main earth terminal to electrical equipment including cable lugs and other necessary accessories.	mtr.	200.00			

6.0	Supplying , laying and jointing of following mains / sub mains cables including crimping type jointing materials , sleeves, trench works, manholes etc as per Specification & drawings :					
6.1	1x3cx95 sq.mm Al armoured 11 KV grade XLPE cable from NEA Connection point to NEA metering Unit to HT Panel to Transformer 1 & 2 .	mtr.	100.00			
6.2	Out door/Indoor type Heat Shrinkage type Jointing kits for 3cx95 sq.mm AL XLPE cable	set	8.00			
6.3	(4x4x1cx300 + 2x1c x300) sq.mm Al unarmoured cable from Transformer 1, 2 to Motor Control Panel (MCP) .	mtr.	110.00			
6.4	2x3.5cx300 sq.mm Al armoured cable from Generator1, 2 to MCP .	mtr.	110.00			
6.5	3cx2.5 sq.mm Cu armoured cable for external light point wiring.	mtr.	500.00			
7.0	Supply and installation of MS made following cable ladders with supports.					
7.1	600 mm wide	mtr.	50.00			
7.2	300 mm wide	mtr.	15.00			
SUB TOTAL COST OF EXTERNAL WORKS						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Development Construction Project

Project : Corporate Office Building, Durbar Marg, Bhadrakali, Kathmandu

Part I: BOQ for 10 Storey Building - Bill of Quantity - Electrical Works (Main Building)

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
A	POWER SUPPLY SYSTEM					
	Supply, Installation, testing, commissioning including the necessary connecting, fixing, insulating and earthing as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete					
1.0	Panel/Riser/DB					
1.1	Main Control Panel (MCP)					
	Cubical Floor mounting type Main Control Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 2mm sheet steel duly treated. with 2 coats of red oxide ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system and epoxy paints and comprising of :	set	1.00			
	Mains Section					
	Incomings :					
	2 nos 1250 A 4P MDO 50KA ACB For Transformers 1 & 2					
	2 nos 1000 A 4P MDO 50KA ACB For Generator 1 & 2					
	1 no 200 A 4P 50 KA Motorized MCCB with shunt tripe facility For Generator 3					

	Bus Couplor : 1 no 1250 A 4P MDO 50KA ACB				
	Outgoings :				
	2 nos 800 A 4P 35 KA MCCB for Rising Mains				
	1 no 200 A, TP 35 KA MCCB For Fire Pump				
	1 no 250 A, TP 35 KA MCCB For Utility Panel				
	4 no 100 A, TP 35 KA MCCB For Spare				
	1 no 16 A HRC Fuse For FACP				
	2 set of 1000/5 A CT for APFCP control				
	2 set of Multi Functional Meter with 1000/5 A CT, Indicator Lamp etc For NEA Supply				
	2 set of Multi Functional Meter with 800/5 A CT , Indicator Lamp etc For Gen Supply				
	1 set of Multi Functional Meter with 400/5 A CT , Indicator Lamp etc For Gen Supply				
	1 set of TP & N copper busbar of at least 1500 A capacity complete with terminal lugs and solderless connectors.				
	1 set of Indicator lamps				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	All ACBs and motorised MCCB shall be controlled by PLC, supplied by generator supplier, i.e ACB and motorised MCCB shall be switched ON and OFF as per requirement of different operation condition.				
	CAPACITOR BANKS PANELS				

1.2	Cubical Floor mounting type Capacitor Bank Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 16 SWG sheet steel duly treated with 2 coats of red oxide and epoxy paints, Panels shall be suitable for 400v, 3 phase, 4 wire, 50 HZ supply systems as per Specification & drawings and comprising of :	set	2.00			
	Incomer :					
	1 nos 400 A TP 35 KA MCCB					
	Outgoing :					
	8 nos 50 A TP 25 KA MCCB					
	4 nos 32 A TP 25 KA MCCB					
	8 nos 50 A TP Capacity Duty Magnetic Contactor					
	4 nos 40 A TP Capacity Duty Magnetic Contactor					
	6 nos 25 KVAR Capacitor Bank					
	4 nos 15 KVAR Capacitor Bank					
	1 unit 14 way Microprocessor APFC controller power factor controller with over voltage off facility .Controller should mounted on the front side of the panel					
	1 set of TP & N copper busbar of at least 500 A capacity complete with terminal lugs and solderless connectors.					
	ON/OFF indicator lamps					
	Manual ON/OFF push switches,					
	Heavy duty exhaust fans to be provided for cooling Thyristors.					
	Rising Mains					

1.3	Supply, installation, testing and comissioning of 2 mm thick steel sheet factory fabricated post galvanized riising mains with internal partition of the following accesaries including providing removable 3 mm thick GI cover, knock out holes and fixing accessories earthing with 8 SWG copper earth wire complete as required including floor supports, bends, access boxes, tap off boxes and cross over as per specification and site requirement :					
1.3.1	Supply, installation, testing and comissioning of Incomer for Rising Mains (Busduct) with 630 A TP 50 KA MCCB enclusing necessary Bus Bar, incloser etc as per drawing and specification.	Set	2.00			
1.3.2	Supply, installation, testing and comissioning of Rising Mains (Busduct) with 1000 A TPN Rising including necessary AI Bus Bar , encloser etc, necessary busbar bend unit as per drawing and specification.	mtr.	110.00			
1.3.3	Supply, installation, testing and comissioning of Tap Off Box (Unit) for Rising Mains (Busduct) with 200 A TP 35 KA MCCB including necessary Bus Bar, encloser etc as per drawing and specification.	Set	10.00			
1.4	Floor Panel Board - FPB					
	Cubical Floor mounting type Floor Panel Board panel(FPB) with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	10.00			

	Mains Section					
	Incomer :					
	1 no 200 A TP 35 KA MCCB					
	Outgoings :					
	3 Nos. 40 A TP 10 KA MCB for Individual DB's					
	3 Nos. 32 A DP 10 KA MCB for Individual DB's					
	3 Nos. (10-40)A 3x380/220v Cl. 1 Three Phase Energy Meter With NEA Test report					
	3 Nos. (10-40) A 2x220v Cl. 1 Single Phase Energy Meter With NEA Test report					
	Space For 1 no of 40 A TP MCB & 1no of Three Phase Meter					
	1 set of TP & N copper busbar of at least 250 A capacity complete with terminal lugs and solderless connectors.					
	1 set of Indicator lamps with fuses					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1set 0 - 500 V voltmeter with selector switch and protection fuses.					
	1 set 0 - 200 A Ampermeter with 200/5A CTs selector switch and necessary accessories.					
1.5	Utility Panel Board					
	Cubical Floor mounting type Utility Panel Board panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			

	Mains Section					
	Incomer :					
	1 no 250 A TP 35 KA MCCB					
	Outgoings :					
	3 Nos. 40 A TP 25 KA MCCB for Lower/Upper Basement DB's & Spare					
	3 Nos. 63 A TP 25 KA MCCB for Water Treatment Plant DB, Spare					
	2 Nos. 75 A TP 25 KA MCCB for DB External/Switchyard Building DB , Lift Panel,Attic Floor DB,					
	5 Nos. 32 A TP 10 KA MCB for Floor Utility DB's & Spare					
	2 Nos. 20-25 A TP 10 KA MCB for Spare					
	1 set of TP & N copper busbar of at least 300 A capacity complete with terminal lugs and solderless connectors.					
	1 set of Indicator lamps with fuses					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of Multi Functional Meter with 300/5 A CT , Indicator Lamp etc					
1.6	Floor Utility DB					
	Recess/Surface type Utility DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	10.00			
	Sec A (NEA/ Gen Supply)					

	Incomer :					
	1 no 25 A TP 10 KA MCB					
	Outgoings :					
	9 Nos. 6 A SP 10 KA MCB					
	6 Nos. 10 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Sec B (UPS Supply)					
	Incomer :					
	1 no 16 A DP 10 KA MCB					
	Outgoings :					
	4 Nos. 6 A SP 10 KA MCB					
	1 set of Phase & Neutral copper busbar of at least 25 A capacity complete with terminal lugs and solderless connectors.					
1.7	Lift Panel					
	Recess type Utility DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomer :					
	1 no 63 A TP 25 KA MCCB					
	Outgoings :					
	4 Nos. 32 A TP 10 KA MCB					
	3 Nos. 6 A SP 10 KA MCB					

	3 Nos. 16 A SP 10 KA MCB				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.				
1.8	UPS Panel				
	Recess type UPS Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 1 phase, 2 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00		
	Incomer :				
	1 no 50 A DP 15 KA MCB				
	Outgoings :				
	9 Nos. 20 A DP 10 KA MCB For DB & Spare				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	1 set of TP & N copper busbar of at least 60 A capacity complete with terminal lugs and solderless connectors.				
	Individual DB For Offices				

1.9	Recess/ Surface type DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	30.00			
	Main Supply					
	Incomer: 32 A TP 10 KA MCB					
	Outgoings :					
	9 nos 6 A SP 10 KA MCB					
	9 nos 16 A SP 10KA MCB					
	3 nos indicator lamps with fuses					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Individual DB For Offices					
1.10	Recess/ Surface type DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 1 phase, 2 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	30.00			
	Main Supply					
	Incomer: 25 A DP 10 KA MCB					
	Outgoings :					
	6 nos 6 A SP 10 KA MCB					
	6 nos 16 A SP 10KA MCB					

	1 nos indicator lamps with fuses					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Basement DB					
1.11	Recess/Surface type Lower/ Upper Basement floor DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	2.00			
	Sec A (NEA/ Gen Supply)					
	Incomer :					
	1 no 40 A TP 10 KA MCB					
	Outgoings :					
	1 Nos. 25 A TP 10 KA MCB					
	12 Nos. 6 A SP 10 KA MCB					
	6 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Sec B (UPS Supply)					
	Incomer :					
	1 no 16 A DP 10 KA MCB					
	Outgoings :					
	4 Nos. 6 A SP 10 KA MCB					

	1 set of Phase & Neutral copper busbar of at least 25 A capacity complete with terminal lugs and solderless connectors.					
	Cafeteria Panel					
2.0	Supplying , laying and jointing of following mains / sub mains cables including crimping type jointing materials , sleeves, trench works, manholes etc as per Specification & drawings :					
2.1	1x3.5cx300 sq.mm Al armoured cable from Generator 3 to MCP .	mtr.	25.00			
2.2	2x3.5cx300 sq.mm Al armoured cable from MCP to Rising Mains 1, 2 .	mtr.	30.00			
2.3	1x3.5cx120 sq.mm Cu armoured cable & 16 Sq.mm Cu wire as earth condutor from MCP to Fire Pump Panel .	mtr.	40.00			
2.4	1x3.5cx150 sq.mm Cu armoured cable & 16 Sq.mm Cu wire as earth condutor from MCP to Utility Panel .	mtr.	10.00			
2.5	1x3.5cx185 sq.mm Al armoured cable & 16 Sq.mm Cu wire as earth condutor and 2cx2.5 Sq.mm Cu cable for PF controller from MCP to APFC Panel .	mtr.	20.00			
2.6	3x2.5 sq.mm Cu armoured cable from MCP to FACP .	mtr.	35.00			
2.7	4cx16 sq.mm copper armoured cable from Utility Panel board to Lift Panel ,Lower Basement DB, Upper Basement DB.	mtr.	105.00			
2.8	4cx25 sq.mm copper armoured cable & 6 sq.mm copper wire as earth conductor from Utility Panel board to Water Treatment Plant Panel, DB for external Switchyard Building.	mtr.	90.00			

2.9	4cx10 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from Lift Panel to individual Lift .	mtr.	25.00			
2.10	4cx6 sq.mm copper armoured cable from Utility Panel to Floor Utility DB from Ground to fourth Floor, from Fifth to nighth floor (Sec A) .	mtr.	135.00			
2.11	2cx4 sq.mm copper cable from UPS Panel to Floor Utility DB (Sec B) from Ground to fourth Floor, from Fifth to nighth floor, from tenth to fifteen floor DB, Lower/Upper Basement Floor DB.	mtr.	135.00			
2.12	3.5cx95 sq.mm copper armoured cable from Floor Tap Off Box(Unit) to individual Floor Panel.	mtr.	45.00			
2.13	4cx10 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from individual Floor Panel to Floor DB's,	mtr.	960.00			
2.14	2cx6 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from individual Floor Panel to Floor DB's.	mtr.	1,000.00			
3.0	Supply and installation of MS made following cable ladders with supports.					
3.1	600 mm wide	mtr.	40.00			
3.2	300 mm wide	mtr.	250.00			
4.0	Earthing System					
4.1	Earthing system including earth works in excavation and back filling as per IS 3043-1966 specifications and instruction such that the earth resistance should not exceed 5 ohm as per Specification & drawings , with following accessories:	set	3.00			
	a) Copper plate of size 600mm x 600mm x 3.15mm as electrode					

	b) Copper earth conductor of size 6 SWG from electrode to Panel, as earth lead , duly brazed to electrode					
	c) 25mm dia 2 m long G.I. Pipe , perforated , for watering					
	e) 300x300x50mm RCC slab inspection cover					
	f) Common salt, charcoal, water treatment arrangement etc.					
4.2	Supply , laying and installation of main earth conductor as 3mmx 25 mm copper strip from MCCB box at lower basement to floor Tap Off Box .	mtr.	90.00			
4.3	Supply , laying and installation of 4 Sq.mm Cu wire as earth conductor from main earth conductor to DB .	mtr.	200.00			
4.4	Supply , laying and installation of 6 Sq.mm Cu wire as earth conductor from main earth conductor to,Lift Panel , Lower/Upper Basement DB.	mtr.	100.00			
4.5	Supply , laying and installation of 10 Sq.mm Cu wire as earth conductor from main earth conductor to Individual Floor Panel .	mtr.	70.00			
5.0	Light Fixtures complete with lamps/tubes , electronic / copper ballast as necessary all complete including fixing materials as per Specification & drawings Make: PHILIPS, GE, WIPRO or equivalent					
5.1	1x32 w LED (2'x2') surface/recess type light fixtures	set	32.00			
5.2	1x11w hanging type LED light fixtures	set	32.00			
5.3	1x8 w LED Dome light fixture	set	115.00			
5.4	2x11 w CFL mirror optic light fixture	set	75.00			
5.5	1x36 w FTL light fixture	set	80.00			

6.0	Supply and installation of fans including flymesh framing.					
6.1	200 mm dia exhaust fan with louvre opening	set	4.00			
7.0	Supply and installation of various Sockets in metal box, sockets as per Specification & drawings Make:					
7.1	15 A/ 13 A Three Pin power sockets	nos	360.00			
8.0	Concealed Wiring					
	Point wiring from Floor Distribution Board to junction boxes, from junction boxes to light /fan and power outlets, switches in suitable HDP Polythene pipe with PVC insulated copper conductor recessed inside ground, concrete slab and wall, as per Specification & drawings etc					
8.1	Light and fan points wiring from distribution boards to light fixtures and fans with 3 nos. 1.5 sq mm PVC insulated cu wire through HDP Polythene pipe including conduits, switch/ fan control switch etc.	pts	1,045.00			
8.2	Power points wiring from distribution boards to 2 - 3 outlets per circuit with 3 nos. 2.5 sq mm PVC insulated copper wires through HDP Polythene pipe including all necessary materials for point wiring excluding power sockets.	pts	360.00			
8.3	HVAC Power points wiring from distribution boards to Indoor/ Outdoor Unit with (2x4+1x2.5) sq mm PVC insulated copper wires through HDP Polythene pipe including all necessary materials for point wiring excluding power sockets.	pts	25.00			

8.4	Supply and installation of Lift Shaft Lighting wiring with 3x1.5 Sq.mm Cu wire through HDP Polythene pipe from DB including 1x15 w CFL bulkhead light fixture , switch etc .	set	30.00			
8.5	Supply and installation of Lift Power point wiring with 3x 2.5 Sq.mm Cu wire through HDP Polythene pipe from DB including socket .	set	30.00			
9.0	GENERATOR					
9.1	Supply installation testing and commissioning of 125kVA, 400V four wire, 50Hz sound proof diesel generator with electronic governer, control panel, as per specification and drawing . (Engine Make: Cummins, Perkins or equivalent ; Alternator: Stamford or equivalent)	set	1.00			
	ALLIED SERVICES					
10.0	Telephone System					
	Supply installation of following telephone/ fire alarm distribution board including crone connectors.					
10.1	2x500 pair Telephone Cabinet (Main Distribution Board)	set	1.00			
10.2	2x50 pair Distribution Board for tel and necessary connectors for fire alarm system	set	10.00			
10.3	2x20 pair Distribution Board for tel and necessary connectors for fire alarm system	set	1.00			
10.4	10 pair Distribution Board for tel and necessary connectors for fire alarm system	set	2.00			
10.5	Point wiring from Tag Blocks / Junction to individual telephone points with 2 pair Telephone wires in HDP pipe laid under floor , ceiling /wall including terminations at both ends and providing marking ferrules / sleeves	pts	80.00			

10.6	Supply laying and installation of following jelly filled telephone cable from Telephone Cabinet to individual telephone distribution box inclusive of necessary conduits etc.					
10.6.1	50 PAIRS Tel. cable	mtr.	300.00			
10.6.2	20 PAIRS Tel. cable	mtr.	50.00			
10.6.3	Supply and installation of RJ11 Telephone outlets in metal box including terminations	nos	80.00			
11.0	Computer Networking System (Equipment, accessories, switchers, Patch Panels / cords not included)					
11.1	Supply installation testing of 4 pair fibre optical cable.	mtr.	70.00			
11.2	Optical termination unit suitable for 4 pair optical cable inclusive of splicing works	set	4.00			
11.3	Wiring for computer outlets with CAT 6 , 4 pair , computer cable in HDP pipe laid under floor / wall / ceiling or tagged on furniture	pts	250.00			
11.4	CAT 6 , 4 PAIR , compatible RJ45 Computer Socket	nos	250.00			
12.0	Fire Alarm System					
12.1	Supply installation testing and comissioning of 32 zone fire alarm system. The Fire alaram system shall be microcontroller based and shall have remote indication system facility using RS232 or RJ 45 connector as per drawing & specification.A battery back up for minimum eight hours shall also be provided.The fire alarm control panel shall be UL listed or CE approved.	set	1.00			

12.2	Wiring for fire alarm system from fire alarm panel to Floor TJB with 2x1 sq. mm fire retardant cu wire in HDP pipes laid under ceiling / wall as per drawing & specification	mtr.	320.00			
12.3	Wiring for fire alarm system smoke/ heat detectors / manual call points and response indicators from Floor TJB with 2x1 sq. mm fire retardant cu wire in HDP pipes laid under ceiling / wall as per drawing & specification	pts	426.00			
12.4	Wiring from Fire Alarm Panel to Hooters with 2x1 sq mm fire retardant copper wires in HDP pipes laid under ceiling / wall as per drawing & specification	pts	45.00			
12.5	Supply and installation of Smoke Detector	nos	285.00			
12.6	Supply and installation of Heat Detector	nos	60.00			
12.7	Supply and installation of Break Glass type manual call point	nos	14.00			
12.8	Supply and installation of Response Indicator	nos	60.00			
12.9	Supply and installation of electronic hooter with strobe light	nos	54.00			
12.10	Supply and installation of weather proof outdoor bell for fire alarm system	nos	1.00			
13.0	LIGHTNING PROTECTION SYSTEM					
	Supply and installation of lightning protection system inclusive of following materials as per specification and drawing:					
13.1	25 mmx3mm copper strip(for horizontal & vertical conductor)	mtr.	475.00			
13.2	25 mmx6mm copper strip(Earthing pit looping conductor)	mtr.	145.00			

13.3	16 mm 2 m long copper rod as air terminator	set	1.00			
13.4	50 mm dia 6 m long GI pipe as earth electrode	set	1.00			
13.5	Low -Intensity Aviation Obstruction Fixture with 1x 70 VA Neon Spiral Lamp with automatic switch /wiring.	set	1.00			
14.0	PUBLIC ADDRESS SYSTEM					
14.1	Supply and Installation of flush type ceiling mounted / surface mounted type 6 W speaker with grill and frame including 100 V matching transformer as per specification and drawing. Make: Ahuja or equivalent	set	75.00			
14.2	Supply and installation of 300 W RMS dual channel audio amplifier with various input facilities including microphone inputs. Make Ahuja or equivalent	set	1.00			
14.3	Supply and installation of uni directional dynamic microphone with table stand. Make ahuja or equivalent	set	1.00			
14.4	Speaker point wiring inclusive of 20 mm HDP conduits, 2x1 sq mm flexible wires and necessary accessories.	pts	75.00			
	SUB TOTAL OF ELECTRICAL WORKS					

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part II: BOQ for 16 Storey Building- Bill of Quantities - General works

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
	Part I: General					
1	Insurance of work, Plants & equipment, workman, third party, client & consultants, sub consultant and supervision team.	lot	1.00			
2	Setting up of field lab for confirming the quality of the construction materials & work standard, for the entire period of the construction.	lot	1.00			
3	Providing office accommodation for supervision team including furniture & furnishing, toilet facilities, heating & ventilation, equipment required for supervision (quality contract check).	lot	1.00			
4	Providing 4 wheel drive vehicle 1 & motorcycle 2 including POL & driver for the supervision team for entire period of the construction work	Month	36.00			
5	Provision for line, level, verticality, checking of the entire RCC works and finishing during construction with all required equipments and manpower in full time basis, by a third party. The third party shall be nominated by the Employer.	lot	1.00			
	SUB TOTAL					



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Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part II: BOQ for 16 Storey Building -Bill of Quantities - Exterior works

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
1	Main entrance and exit gate size 5.5m wide 2.4m high made of steel section, double shutter including RCC column to support the door hing RCC foundation, cladding in column and provision of gate light system in both side of the gate as per drawing and instruction.	Nos.	2.00			
2	Entry and exit door for pedestrian 1.5m wide, 2.4m high door shutter including RCC column to support the door hing RCC foundation, cladding in column and provision of gate light system in both side of the gate as per drawing and instruction.	Nos.	2.00			
3	Boundary wall made of brick work in cement mortar 1:4 including required foundation and RCC band at top to carry metal grill work of wall height 1.65m, RCC band and grill height 0.9m as per drawing and instruction net.	Rm	5.00			
4	70 mm (M25) thick precast concrete block set in required pattern set in 50 mm thick stone dust laid above water proofing coating	Sq.m	136.00			
5	Brick boundary wall 1.5m height and metal grill of 0.6m height fixed RCC band above top of wall as per drawing and instruction.	Rm	120.00			
6	Landscaping and land development including turfing and flowering etc complete	LS	1.00			
SUB TOTAL						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part II: BOQ for 16 Storey Building -Bill of Quantities - Generator House

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
1.0	Earthwork					
1.1	Site clearance					
	Removal of dismantled debries, and removal of top soil vegetation if any including bushes etc. The ground should be levelled and ready for setting out of the proposed building.	Job	1.00			
1.2	Earthwork excavation					
	Earthwork excavation by using mechanical means, in all types of soil average depth of excavation in approximately 1.5 m deep including shoring, dewatering etc all complete as per specification & instruction (dewatering is to be measured seperately)	Cu.m	47.88			
2.0	Foundation filling					
2.1	Gravel filing					
	Supplying and laying gravel in foundation as a base for generator with compaction using a mechanical compactor. Compaction should be tested for 95 % proctor density as per drawing, specification & instruction	Cu.m	3.87			
2.2	PCC 1:4:8					

	Providing and laying machine mixed plain cement concrete of mix 1:4:8 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension all complete as per specification, drawing and instruction.	Cu.m	1.36			
2.3	Flat Brick Soling					
	Brick flat soling, over well compacted and levelled earthen base all complete as per drawing, specification & instruction	Sq.m	27.23			
2.4	Earth Filling					
	Back filling with granular soil including packing in 150mm, layer watering and well compaction by ramming of each layer up to proper level & dressing, all complete & per drawing, specification & instruction.	Cu.m	15.75			
3.0	Concreting Works					
3.1	Structural concrete					
3.1.1	Structural concrete of following grade in any form, size, shape and level in all RCC works machine mixed/ batching plant, transported using concrete pumps and compacted with vibrator cement concrete works including setting out, mixing, laying, compacting, equipment curing, testing and finishing complete inclusive of providing construction / expansion joints, including applying plastisizer solution as desired, all complete as per drawings, specifications and instructions.					
a	M25 Concrete on columns	Cu.m	3.23			
b	M20 Concrete on Slabs	Cu.m	9.60			
c	M15 Concrete works	Cu.m	29.76			
3.1.2	Shuttering/ Formwork					
	Centering and shuttering with approved material such as ply wood, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.	Sq.m	220.33			

3.1.3	Reinforcement Work					
	TMT reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap)	MT	4.87			
4.0	Brickwork					
4.1	Brick work in 1:6 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc. all complete as per drawing, specification & instruction	Cu.m	31.83			
5.0	Aluminium Doors and Windows					
5.1	Aluminium Doors					
5.1.1	Aluminum hinged door with frosted glass as shown in the drawing including all fitting ironmongers and locks all complete as per design, specification & Instruction	Sq.m	7.46			
6.0	Floor Finish					
6.1	Cement Floor Finish					
	100 mm thick floor with cement concrete of mix 1:2:4 with sand and 12 mm stone aggregate including mixing laying in required slope, including neat finishing in top surface etc all complete as per drawing, specification and instruction.	Sq.m	147.05			
7.0	Wall Finish					
7.1	Plaster Works					
	12.5.mm, thick cement and sand plaster work of mix 1:4 cement & sand in RCC and brick surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing, specification and instruction	Sq.m	184.25			
8.0	Wall Finish					
8.1	Painting Works					

	Two or more coats of water proof cement paint on cement plastered wall and ceiling (basement & parking area) over one coat of white cement base, surface preparation by sanding, filling by fillers to get smooth & uniform surface, all complete as per drawing, specification & instruction	Sq.m	184.25			
9.0	Railings					
9.1	Stair railings					
	Stair railing made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0"finishing all complete as per drawing, specification and instruction.	Rm	9.00			
10.0	Miscellaneous Works					
10.1.1	UPVC Sheets on walls					
	Curtain walls in the two sides of the generatoe house made out of MS square pipe of size 50.8*50.8*3mm size fixed in RCC floor beam, roof beam and RCC columns. The vertical members are fixed approximately 1500 m apart c/c , horizontal members are fixed in the ground floor & 2no./3no. horizontal members are fixed in first floor. GI wire mesh and UPVC sheet to be fixed in such frames as shown in drawing					
a	Square pipe of 50.8*50.8*3mm size peoperly welded to each other well fixed in RCC beams at the top and bottom all complete with anti corrotive paint finished with black Japan paint as per drawing, specification & instruction	Kg	1,226.85			
b	UPVC sheets made to shape & size and fixed to above frame.	Sq.m	115.62			
c	GI wire mesh made to shape and size fixed to above frame.	Sq.m	105.40			
10.1.2	Roof Covering					
a	Roof covering made out of MS square pipe tube frame 50.8*50.8*3 m section spaced at 1400mm c/c both side well connected to the vertical members and finished with red oxide & black japan paint as per drawing, specification & instruction.	Kg	388.71			

b	Fixing of UPVC roofing sheet properly fixed in the square pipe frame well screwed with bitumen & cup washer all complete as per drawing, specification & instruction.	Sq.m	70.84			
c	200 mm wide metal sheet facia board made out of the gauze sheet folded at both edge and screwed to roof frame including red oxide paint & black japan paint as per drawing, specification & instruction.	Rm	35.00			
d	PVC gutter fixed to facia board roof frame as per drawing, specification & instruction.	Rm	10.00			
10.2	Floor traps fixed in the floor to collect waste liquids all complete as per drawing, specification & instruction.	Nos.	4.00			
10.3	UPVC pipe to move waste liquid out of generator house to the sewage collection point all complete as per drawing, specification & instruction.	Rm	10.00			
Sub Total						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Infrastructure Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part II-Bill of Quantities - Main Building

Item	Description	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
1.0	EARTHWORK						
1.1	Site clearance :						
	<p>Dismantling of Existing Mahendra Power House of 48mx37mx 10; Cooling Tank 2.5mx 22m; Treatment Plant 17mx13m and other structures if any upto foundation level, clear the construction site, removal of dismantled debris and removal of top of top soil vegetation if any including bushes etc. The ground should be levelled and ready for setting out of the proposed building. Dispose the dismantled debris at suitable places upto 5km all complete as per drawing, specifications and instruction nett.</p> <p>note: The contractor could sale the debris and other material getting from demolition except archeological importance things.</p>	Job	1.00				<p>In dismantling works, Contractor could sale the dismantled debris and metal items, contractor should quote the -ve rate for giving the amount to NEA or dismantle cost in +ve for getting charge</p>

1.2	Earthwork excavation by using mechanical means, in all types of soil average depth of excavation is approximately 10 m deep and at lift foundation 11 m depth including shoring, dewatering etc all complete as per specification & instruction (dewatering is to be measured seperately)	Cu.m	12,373.35				
2.0	PILING WORK						
2.1	Providing and inserting 9.00 meter micropile of diameter 76 mm, perforated at every 200mm c/c distance in staggered position including the pressure grout with cement sand slurry mixed with grouting chemical of approved brand coregrout grout IG1 or equivalent (dozing - according to manufacturer specification) all complete as per drawing, specification and instruction. (The pipe for micropile must approved brand medium quality black pipe) all complete as per drawing, specification & instruction. note: the cost of pile (mentioned below 2.2 & 2.3) also shall include the application of bentonite where required for protecting side collapse, and disposing the same out of site safely when work is done.	Rm	1,746.00				
2.2	Construction of cast-in-situ-concrete Protection pile of diameter 500mm by excavating pile foundation by mechanical drill and/or manual drill by rigs, up to 21 meter depth ., lifting up with shoring the hole, stacking the soil 1.0m minimum from the edge of hole, dewatering within construction period and disposing the soil outside of site or designated place as per drawing, specification and instruction of the engineer all complete. The cost is inclusive of bentonite if required, during boring process, testing of pile as per relevant Indian standard, cost of reinforcement, (cutting bending, placing) 10nos. 16 mm dia ToR Steel with 8mm dia reinforcement 150 mm C/C and also inclusive of providing and pouring M20 grade concrete mix into the excavated pile using trimming pipe. (inclusive of all tools and plants)	Rm	4,452.00				

2.3	Construction of cast-in-situ concrete pile of diameter 500mm by excavating pile foundation by mechanical drill and/or manual drill by rigs, up to 16 meter depth ., lifting up with shoring the hole, stacking the soil 1.0m minimum from the edge of hole, dewatering within construction period and disposing the soil outside of site or designated place as per drawing, specification and instruction of the engineer, all complete. The cost is inclusive of bentonite if required, during boring process, testing of pile as per relevant Indian standard, cost of reinforcement, (cutting bending, placing) 9nos. 12 mm dia ToR Steel with 8mm dia reinforcement 200mm C/C and also inclusive of providing and pouring M20 grade concrete mix into the excavated pile using trimming pipe. (inclusive of all tools and plants)	Rm	5,888.00				
3.0	DEWATERING						
	Dewatering by using suitable submergesible sludge pump/ or other suitable pump during the entire operation of excavation and piling. The dewatering should be such that no disturbance with work shall occur due to water accumulation and the pump shall be operated by suitable generator.	HR	2,500.00				
4.0	ANTITERMITE TREATMENT						

	Providing and injecting the pre construction anti termite treatment using Environmental friendly chemical i.e (Premise 30.5% SC) in different stages to create a complete termite chemical barrier to the building at foundation, around the footings, column pits, trenches, wall trenches, inside floor back fill, plinth level, junction of wall and floor, retaining walls of basement floor, external perimeter of building, surrounding the pipes, conduits by Govt. authorized professional pest control company & authorized distributor. Confirming to IS 6313 or equivalent BIS specifications. The total application is provided by the professional and experienced authorized pest control company having professional applicator license issued by PESTICEDE BOARD Ministry of Agriculture , Govt. of Nepal & they have minimum experience in this field at least for 10 years & they have to provide warrantee at least 10 years, after completion of complete treatment.						
a)	Floor area	Sq.m	1,112.50				
b)	Vertical Surface	Sq.m	1,598.47				
5.0	FOUNDATION FILLING						
5.1	GRAVEL SAND FILLING (60:40)						
	Supplying and laying gravel sand (60:40) in foundation with compaction using a mechanical compactor. Compaction should be tested for 95 % proctor density as per drawing, specification & instruction.	Cu.m	355.50				
5.2	P.C.C. (1:4:8)						
	Providing and laying machine mixed plain cement concrete of mix 1:4:8 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension all complete as per specification, drawing and instruction.	Cu.m	118.50				

5.3	Supplying and filling above RCC Raft foundation silt/crusher dust (less clay) and compaction as per specification, drawing & instruction. (500 mm thick)	Cu.m	400.00				
5.4	Providing and laying machine mixed plain cement concrete of mix 1:3:6 in foundation with cement, sand and stone ballast of maximum size 25 mm gauge including setting out, mixing, compacting, curing and finishing etc. to approved level, lines and dimension all complete as per specification, drawing and instruction.	Cu.m	80.00				
5.5	Earth filling:						
	Back filling with granular soil including packing in 150mm, layer watering and well compaction by ramming of each layer up to proper level & dressing, all complete & per drawing, specification & instruction.	Cu.m	1,279.98				
6.0	CONCRETING WORK						
6.1	Structural concrete						
6.1.1	Structural concrete of following proportions in any form, size, shape and level in all reinforced machine mixed/ batching plant, transported using concrete pumps and compacted with vibrator cement concrete works including setting out, mixing, laying, compacting, equipment curing, testing and finishing complete inclusive of providing construction / expansion joints, all complete as per drawings, specifications and instructions.						
	Readymix Concrete						
a)	M 20 grade concrete	Cu.m	5,121.64				
b)	M 30 grade concrete	Cu.m	1,066.35				
c)	M 35 grade concrete	Cu.m	695.77				
d)	M 40 grade concrete	Cu.m	1,106.05				
6.1.2	Shuttering / Form Work						

a)	Centering and shuttering with approved material such as ply wood, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.						
	For Coloumn	Sq.m	8,168.87				
	For Slab	Sq.m	27,347.94				
6.1.3	REINFORCEMENT WORK						
	TMT reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap)	Mt	1,558.00				
6.2	Non Structural concrete						
6.2.1	Concrete of following proportions in any foRm, size, shape and level mixture mixing and compacted with vibrator including setting out, laying, compacting, curing, testing and finishing complete as per drawings, specifications and instructions.						
a)	M 20 grade concrete	Cu.m	68.96				
6.2.2	Shuttering / Form Work						
a)	Centering and shuttering with approved material such as ply wood, plain steel sheet, wooden plank for all kinds of R.C.C. work including all necessary propping, scaffolding, staging, supporting, applying form oil etc. all complete as per drawing, specifications and instructions.	Sq.m	169.81				
6.2.3	Reinforcement work						
	Steel reinforcement work including straightening, cleaning, cutting, bending, binding with 20 SWG. annealed type wire and fixing in position, all complete as per drawing, specification and instruction. (length of reinforcement exceeding 10 meter in length will be considered for lap)	MT	2.69				

7.0	BRICK WORK						
7.1	Brick work in 1:4 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc. all complete as per drawing, specification & instruction						
a)	Normal brick work for superstructure	Cu.m	588.70				
7.2	Brick work with hoop reinforcement in 1:4 cement mortar (cement & sand) with first class chimney made bricks in perfect line & level including racking the joints, scaffolding, curing etc., all complete as per drawing, specification & instruction.						
		Sq.m	2,211.13				
8.0	ALUMINUM WINDOWS, DOORS & WALL PANEL						
	Providing and fixing aluminum frame less (structure glazing) operable casement windows, assembled by reputed firm, using Powder Coated aluminum section including 18mm thick double glazed (5mm clear toughen glass plus 8mm air gap and 5mm thick reflective glass) manufactured by "Asahi" or Saint Gobain or equal and also including the cost of the Silicon (Dow Corning Silicon 995 for glass glazing and 789 for weather proof silicon, and spacer for structure glazing) and all accessories (EPDM marine quality gaskets, stainless steel screws, window closer, window stopper, locks and joining elements), all other necessary fittings as per drawing, specification and instruction of site Engineer. The fabrication shop drawing shall be submitted by the contractor for approvable for commencement of the job. And the Contractor must guaranteed for at least for five years of period after hand over of the work:						
	Note: All windows will be double glazed and Doors will be single glazed.						
8.1	Aluminum window with transom and mullion frame system.						

a	Both the openable and fixed window system should withstand maximum wind load of Kathmandu valley. Wherever windows are indicated, this shall be fully openable casement windows. The window hinges should be of Cotswold or equivalent.	Sq.m	2,040.76				
b	Supply and installation of 4mm thick Aluminium Composite Panel (model: ALP-65 virgina, make: Alstone platinum collection or equivalent) in 57mm x 67mm transom and 130.5mm x 67mm mullion section (Thai or equivalent) adjoined to windows with properly applying exterior grade Dow Corning Silicon. The ACP should be installed in proper tray system. The cost should be inclusive of all the materials and labour, all complete. The contractor must submit the fabrication shop drawing before the commencement of the work.	Sq.m	10,749.31				
c	Supply and installation of 30mm thick Extruded polystyrene form for insulation (DOW or Insuboards or equivalent) on Aluminium Composite Panel (ACP) from inside and covered with 6mm thick water proof Ply (Shera Ply or equivalent) fixed in Thai G.I. framework and finished with two coats of interior emulsion paint of approved colour upon primer.	Sq.m	10,749.31				
8.2	Aluminum doors						
8.2.1	Automatic sliding main glass door operated by sensor(DORMA or equivalent). Complete set as per drawing, specification & instruction (shop drawing to be approved prior to manufacture)	set	1.00				
8.2.2	Aluminium double hinged two way glazed swing door as per drawing including all fittings, ironmongers & locks all complete as per design, specification & instruction	Sq.m	133.56				
8.2.3	Aluminium hinged door with frosted glass as shown in the drawings including all fittings, ironmongers and locks all complete as per design, specification and instructions.	Sq.m	147.00				

8.2.4	Aluminum hinged door with laminate boards shown in the drawing including all fitting ironmongers and locks all complete as per design, specification & Instruction	Sq.m	159.03				
8.3	Ventilation						
	Aluminum ventilation of specified size & design all complete as per drawing, specification & instruction	Sq.m	139.42				
8.4	Supply, fitting and fixing of 4.5x20mm M/S plate around the frame with 12mm x 12mm solid iron rod making Grill in window and ventilators cleaning by sand paper and painting with one coat of primer and two coat of black enamel all complete as per drawing, specification and instruction net.	Sqm	112.09				
9.0	FLOOR FINISH						
9.1	Cement floor finish						
	50mm thick IPC floor finish with cement concrete of mix 1:2:4 with sand and 6 mm thick stone aggregate including mixing laying in required slope, including finishing in top surface etc all complete as per drawing, specification and instruction.	Sq.m	9,289.15				
9.2	Granite floor						
	19mm thk.Granite laid over a base mortar of 1:4 cement sand plaster in perfect line, level, slope, etc. and curing, etc. all complete as per drawing, specification and instructions.	Sq.m	716.47				
9.3	Ceramic floor tile						
	Glazed ceramic tile in floor with 600 × 600 mm size (Kajaria, Somany or equivalent) approved non-glazed tile laid over a base mortar of 1:4 cement sand plaster in perfect line, level, slope, etc. and curing, etc. all complete as per drawing, specification and instructions	Sq.m	10,991.88				
9.4	Kota Stone						

	Kota Stone floor laid over a base mortar of 1:4 cement sand ratio in perfect line, level, slope, etc. and curing, etc. all complete as per drawing, specification and instructions.	Sq.m	65.42				
9.5	Parking floor finish						
	100 mm thick IPC floor finish in the basement parking area with broom finish as per specification and instructions.	Sq.m	1,967.87				
9.6	Cement skirting						
	10 cm high cement plaster skirting on all the plaster area on column and walls as per specification and instructions.	Rm	1,013.26				
9.7	Glazed ceramic wall tiles						
	Glazed ceramic tile (Kajaria, Somany or equivalent) at wall with 600 × 900 mm size of approved colour laid over a base mortar of 1:4 cement sand ratio in perfect line, level, slope, etc. and curing, etc. including approved quality of matching colour grout all complete as per drawing, specification and instructions	Sq.m	3,080.23				
9.8	Sesam wood or Burmese Teak parquet flooring of 12.0mm thick including melamine polish with proper sealers and fillers, all complete as per drawing, specification and instructions.	Sq.m	570.93				
9.9	150 mm high Parquet skirting all over the parquet floor finish area as per drawing, specification and instructions.	Sq.m	64.00				
10.0	WATER PROOFING						
10.1	Water proofing of basement						

a)	<p>Providing chemical injection in the form of pressure grouting to the raft at any depth, height & level by injecting cement slurry mixed with grout admixture MC Special DM or equivalent in the required consistency through the prefixed GI nozzles in the 18mm dia holes drilled in grid pattern at a spacing not exceeding 1 metre c/c on the top of raft under pressure using grout pump including preparation of surface de-watering, drilling holes, using pneumatic hammer for fixing of GI nozzles to the required depth, grouting admixture and finally cutting the projected nozzles and sealing of the GI nozzles after injection operation is over with MC Special DM or equivalent non shrink polymer grouting compound, finishing, curing, etc., as per manufacturer's specification and instruction.</p>						
b)	<p>Rate shall include for preparation of surface by mechanical upgrading to remove all loose mortar and laitance, oil, grease etc. and washing the surface with water jet to get clean surface, dewatering, finishing, curing, scaffolding, waterproofing chemicals, wastage, conveyance, tools and plants, mixing device and gauge, shuttering, Nozzles etc. complete as per manufacturer's specification and as instructed.</p>						
	<p>The Contractor must provide written guarantee for 15 years against any defect and leakage.</p>	Sq.m	1,221.38				
10.2	Water proofing of shear wall						
	<p>Treatment to shear wall, covering the following sequence of operations :</p>						

a)	<p>Providing chemical injection treatment in the form of pressure grouting to shear walls by injecting cement slurry mixed with grout admixture MC Special DM non shrink polymer grouting compound or equivalent in the required consistency through the prefixed GI nozzles in the 18 mm dia. holes drilled on the surface of shear wall at every 1 m spacing in horizontal direction, after construction joints at every stage and junction of raft slab & shear wall under pressure using grout pump including preparation of surface, dewatering, drilling holes using pneumatic hammer, fixing of GI nozzles to the required depth, grouting the nozzles with MC Special DM or equivalent chemical and finally cutting the projected nozzles and sealing off the GI nozzles after the injection operation is over with MC Special DM non shrink polymer grouting compound or approved equivalent, finishing, curing etc. as per manufacturers specification and instruction.</p>							
b)	<p>Providing, supplying, mixing, applying two coats of ready to use two component acrylic polymer modified cement based flexible water proofing slurry like Emceflex or approved equivalent conforming to IS to thickness of 2 mm on the surface of side wall after the chemical injection treatment is completed as specified under point (a) above.</p>							
c)	<p>Providing, supplying, mixing, laying cement plaster 12 mm thick with cement mortar 1:4 mixed with approved water proofing compound like MC Special DM or equivalent conforming to IS at the rate specified by the manufacturer over the coated surface of operation specified in point no. (b) above.</p>							

	Rate shall include for preparation of surface by mechanical upgrading to remove all loose mortar and laitance, oil, grease etc. and washing the surface with water to get neat surface, dewatering, finishing, curing, scaffolding, waterproofing chemicals, wastage, conveyance, tools and plants, mixing device and gauge, shuttering, Nozzles etc. complete as per manufacturer's specification and instruction.						
	The Contractor must provide written guarantee for 15 years against any defect and leakage.	Sq.m	1,598.47				
10.3	Water proofing of toilets						
	Any existing debris on slab is removed and surface is prepared. Construction joints, if any, are raked and cleaned. Two more coats of acrylic based two packed water proofing membrane, like WATERGUARD A or equivalent are applied on the surface. A layer of brick bats / brick ballasts with average thickness of 11 cm is laid in cement sand mortar (1:4) to maintain a proper gradient. The joints between the brick bats are generally 15 to 25 mm wide and these joints are filled with cement mortar(1:4) mixed with water proofing compound.	Sq.m	1,085.92				
11.0	PLASTER WORK						
11.1	12.5.mm, thick cement and sand plaster work of mix 1:4 cement & sand in RCC surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing , specification and instruction.	Sq.m	26,097.44				

11.2	12.5mm, thick cement sand plaster work of mix 1:4 cement & sand in brick surface at all height including mixing mortar, laying in line, level and plumb and finishing in regular and even surface including throating, dusting, dripping etc all complete as per drawing , specification and instruction.	Sq.m	16,396.68				
11.3	Finishing plastered wall & ceiling by applying Birla Putty or equivalent topping finish as per drawing, specification & instruction.	Sq.m	42,494.12				
12.0	WALL FINISH						
12.1	Painting Work						
(a)	Two or more coats of acrylic emulsion paint of approved colour, over one coat of base paint on Birla putty finished on cement plastered wall. Including preparation of surface by sanding, filling of fillers to get smooth & uniform finish all complete as per drawing, specification & instruction.	Sq.m	36,856.15				
(b)	Two or more coats of water proof cement paint on cement plastered wall and ceiling (basement & parking area) over one coat of white cement base, surface preparation by sanding, filling by fillers to get smooth & uniform surface, all complete as per drawing, specification & instruction.	Sq.m	5,637.97				
12.2	Granite / file						
	Granite tile cladding in lift wall as shown in the drawing, over base cement mortar of mix 1:4 including preparation of the base, laying granite slab in required pattern in perfect line, level, shape & size with uniform joint & surface inclusive of silicon filling in the joint as per design, specification & instruction						

a)	Granite tile skirting in walls adjacent to granite floor and as shown in the drawing, over base cement mortar of mix 1:4 including preparation of the base, laying granite slab in required pattern in perfect line, level, shape & size with uniform joint & surface inclusive of silicon filling in the joint as per design, specification & instruction	Rm	1,111.02				
b)	300x600 size glazed ceramic tile in rustic metal finish (Kajaria or Somany or equivalent) fixing in lift wall in base cement plaster of mix 1:4 and laying of tile in rich cement mortar in perfect line, level, shape size and pattern with uniform joint etc all complete as per drawing, specification & instruction.	Sq.m	1,800.06				
13.0	Railings						
13.1	Ramp railing						
	Railing for Ramp for handicap use, the railing is made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0" finishing all complete as per drawing, specification and instruction.	Rm	23.91				
13.2	Railing for stair, the railing is made out of 50 mm dia. Stainless steel handrail with 50mm dia vertical post fixed at 2 m distance and three layer horizontal member of 25 mm dia stainless steel pipe between ground and top layer handrail of height 2'-6" to 3'-0" finishing all complete as per drawing, specification and instruction.	Rm	575.94				
13.3	50 mm dia stainless steel tube hand rail fixed with stainless steel bracket fixed into RCC/brick wall with proper hold fast, all complete as per drawing, specification and instruction	Rm	305.83				

13.4	Parapet: Moulded ACP sheet for parapet of terrace/ verandah made to shape & size out of aluminum sheet fixed into RCC parapet wall/ ACP selection neatly jointed including 50mm dia SS hand rail, as per drawing, specification & instruction.	Sq.m	64.33				
14.0	SPIRAL STAIRCASE						
	Spiral Steel Stairs as specified in design including fabrication, fixing in position including cutting and making good of civil works, painting etc.all complete as per drawing, specification and instruction						
a)	From lower basement to upper basement	Nos	1.00				
b)	From upper basement to ground floor	Nos	1.00				
c)	From 16th floor to roof level	Nos	1.00				
15.0	TERRACING						
15.1	Providing and applying the water proofing membrane, Aquafin or equivalent for top terrace including base preparation by cleaning all surface horizontal & vertical using wire brush, applying two coats water proffing system in flat roof including (vertical upto 300 mm) providing 150 thick insulation material such as foam concrete with Flag stone laid in cement mortar at top finished in pattern as per drawing, specification & instruction .	Sq.m	928.00				
15.2	Providing and applying the water proofing membrane, Aquafin or equivalent including base preparation by cleaning all surface horizontal & vertical using wire brush, applying two coats water proffing system in flat roof including (vertical upto 300 mm) with Flag stone laid in cement mortar at top finished in pattern as per drawing, specification & instruction for verandhas.	Sq.m	195.44				
16.0	Basement Ventilator						

	Aluminum louver Ventilator of 600mm high supported in 175mm thick RCC base and 175 thick RCC base, covered by acrylic sheet roof supported in aluminum pipe all complete as per drawing, specification & instruction.						
a)	1660 wide earth ramming to smooth surface	Sq.m	50.87				
b)	1660 wide 55 mm thick brick flat soling	Sq.m	50.87				
c)	1660 wide, 100 mm thick PCC 1:3:6	Sq.m	50.87				
d)	RCC base 1510 wide 175 thick with reinforcement RCC vertical wall 1210 high, 175 thick with reinforcement & shuttering	Cu.m	25.39				
e)	600 high Aluminum lower window	Sq.m	25.20				
f)	900 wide Acrylic roof fixed in aluminum pipe frame	Sq.m	35.83				
g)	toughened glass over basement skylight	Sq.m	12.48				
17.0	Granite Cladding						
	19mm thk. Granite Cladding at exterior wall up to plinth level over base mortar 1:4 cement sand plaster in perfect line and level including silicon filling in joints all complete as per drawing, specification and instruction.	Sq.m	169.83				
18.0	LOW DENSITY FILLING						
	Low density concrete filling for bathroom drop Slab by using 1:4:12 cement, sand or brick powder and low density brick bats, compacted and leveled smooth at top. (No disturbance in the pipe line and other conduits shall be made) all complete as per drawing, specification & instruction .	Cu.m	407.42				
19.0	PORCH						

	Main entrance canopy structure as per detailed drawing (tubular cantilever Roof structure) fabricated out of various size structural grade ms pipe of various size including anchored beam high tension string system and covering by 10 mm thick acrylic sheet all complete. The structure shall be fixed with expandable bolting system (Hilti or equivalent) anchor properly and inclusive of providing drainage system and appropriate painting & finishing all complete as per drawing, specification & instruction. Work Shop drawing need to be provided by the contractor and approval take from the Consultant.	Set	1.00				
20.0	ELEVATORS						
	<p>ELEVATORS (LIFT) Providing and installation of 10 person capacity, 18 stops, latest model elevator (Kone or Otis equivalent) with following specification:as per the manufacture's specification, equipments, fittings, including mechanical, electrical and electronics works with materials and fitting all complete as per drawing, specification and instruction for the following items.</p> <p>i. System does not require machine room (Mono Space Type)</p> <p>ii. Speed : 1.00 to 1.75 m/sec adjustable</p> <p>iii. Vector controlled inverter incorporating microcomputer control for accurate and precise control for smooth and quite ride. The system should have advanced multi-processor control system. The inverter control system should regulate both the amplitude and frequency of the motor drive voltage, based on the pulse width modulation algorithm for precise and reliable speed control.</p> <p>iv. The elevator controller should determine the floor heights and travel distances, and store the collected information in memory chip.</p> <p>v. Door Frame : Hairline stainless steel.</p>						

	vi. Door Panel : Stainless steel Hairline finishing.						
	vii. Sill : Extruded hard aluminium viii. Ceiling : Suspended ceiling made of hairline stainless steel ix. Lighting : LED x. Side and rear wall : Hairline stainless steel xi. Flooring : stone finish xii. Emergency Car Lighting : Swatches on automatically in the event of a power failure, providing xiii. Emergency Car Lighting : Swatches on autometrically in the event of a power failure providing illumination within the car. xiv. Fire Emergency Return: When the building's fire or smoke detectors are activated or the swetch on the supervisory panel is activated, all calls should be cancelled and all the elevators should immediately travel to the main lobby and park there with the door open. xv. Fan Automatic Shut Off : Automatically swatches off the ventilation fans when no calls are registered after a predetermined period of time.	Set	3.00				
21.0	Designing, Drawing, Estimate, Supplying and installation of dog legged steel staircase made of MS steel from ground floor to tenth floor. The design should be approved from Engineer including cutting joining, erection, one coat red lead oxide and two coat of enamel paint all compete as per drawing, specification and instruction.	Job	1.00				
22.0	Designing, Drawing, Estimate, Supply, fitting and Fixing of 5 Nos. of six meter wide truss structure and acrylic sheet for Ramp Cover up to 25m length as shown in Drawing with one coat of red oxide and two coat of enamel paint all complete as per drawing, specification and instruction	Job	1.00				
SUB TOTAL MAIN BUILDING							

Nepal Electricity Authority
Engineering Services Directorate
Building and Physical Infrastructure Construction Project
Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu
Part II: BOQ for 16 Storey Building -BILL OF QUANTITIES-SANITARY

Item	Description	Unit	Quantity	Rate		Amount	Remarks
				in Figure	in Words		
A.	SANITARY INSTALLATION						
1	WC						
1.1	Providing and fixing in position Vitreous China European pattern floor mounted one piece water closet, seat height lev. at 17"-19" above finished floor "S" or "P" type white glazed with dual flush cistern of 3/6 litre capacity with dual flush fitting, Heavy SS 3" screw with grip, slow falling Antimicrobial Seat, 1nos. PVC connecting pipe with angle valve with CP cap, 1nos. of long neck CP Bib Cock etc. accessories connection to soil pipe line and water line connections all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	68.00				
1.2	Providing and fixing in position Vitreous China European pattern floor mounted water closet, seat height lev. at 17"-19" above finished floor "S" or "P" type white glazed with 32mm dia. CP flush valve. Heavy SS 3" screw with grip, Antimicrobial Seat, 1nos. of long neck CP Bib Cock etc. accessories connection to soil pipe line and water line connections all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	17.00				
2	WASH BASIN						
2.1	Providing and fixing in position Vitreous China Wall Hung Basin size of 550x 400 with MS brackets with 8mm dia. screw holes and heavy SS screw with expansion grip with 32mm dia. waste coupling with 32mm dia. PVC bottle trap, 1nos. of Angular Stop Cock with CP cap, 1nos. of Pressmatic Piller Cock with PVC 1' Connecting pipe, connection to waste line and water lines all complete as per drawing, specification, direction of direction of the engineer and ready for operation.	Nos.	18.00				

2.2	Providing and fixing in position Vitreous China Table Top Basin size of 550x 400 with MS brackets with 32mm dia. waste coupling with 32mm dia. PVC bottle trap, 1nos. of Angular Stop Cock with CP cap, 1nos. of Pressmatic tap with PVC 1' Connecting pipe, connection to waste line and water lines all complete as per drawing, specification, direction of direction of the engineer and ready for operation.	Nos.	53.00				
3	URINAL						
	Providing and fixing in position Vitreous China large size Urinal white glazed with Urinal pressmatic auto closing valve with Spreader etc. accessories connection to waste line and water line all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	51.00				
4	STAINLESS STEEL SINK						
4.1	Providing and fixing in position single bowl Stainless Steel Sink with drain board size of 1200mmx510mmx160mm with 32mm dia. waste coupling with 32mm dia. PVC bottle trap heavy quality, 1 nos. 15mm dia. CP angle stop cock with CP cap and 15mm dia. PVC connecting pipe, 15mm dia. CP cold water sink bib cock with long neck etc. and connection to waste line and water lines all complete as per drawing, specification, direction of engineer and ready for operation. Ariston or equivalent.	Nos.	20.00				
4.2	Providing and fixing in position double bowl Stainless Steel Sink with drain board size of 1500x510mmx160mm with 32mm dia. waste coupling with 2nos. of 32mm dia. PVC bottle trap heavy quality, 2 nos. 15mm dia. CP angle stop cock with CP cap and 15mm dia. PVC connecting pipe, 15mm dia. CP swingable long neck bib cock mixer etc. and connection to waste line and water lines all complete as per drawing, specification, direction of engineer and ready for operation. Ariston or equivalent.	Nos.	2.00				
5	Providing and fixing in position the following accessories with SS screws or mortar of 1:1 etc. all complete as per drawing, specification, direction of the engineer and ready for operation.						

	a) Beveled edge glass mirror of float glass of Ashai with pasting onto 12thk waterproof Sajun ply board with enamel paint of ply board all sides.	Sq.m	68.00				
	b) CP Towel Bar 24"	Nos.	68.00				
	c) Porcelain clay white recess tupe Soap Holder 150mm x 70mm	Nos.	96.00				
	d) Porcelain clay white recess type toilet paper holder size 150mm x 70mm	Nos.	85.00				
	e) Cockroach Trap 115 x 115 of SS	Nos.	163.00				
	f) 160dia. PVC Floor Trap Gali	Nos.	8.00				
	g) 2' Grab bar	Nos.	17.00				
	h) 18" Grab bar	Nos.	17.00				
	i) Ceramic Urinal Partition 680mm x 300mm	Nos.	34.00				
	j) Providing and fixing in position heavy quality long bib cock with extended lever handles.	Nos.	1.00				
	TOTAL OF SANITARY INSTALLATION						
B.	SOIL, WASTE, VENT & RAIN WATER PIPES						
1	Providing and fixing in position heavy quality 6kgf/cm.sq UPVC pipes and fittings for soil, waste, vent and rain water lines as per need including cutting the pipes to required length and fixing in position with PVC or MS clamps as required keeping pipe barer min. 50mm apart from the wall face, joining pipes and fittings with rubber rings and joining solution etc. including nailing, clamping. Pipe line should lay disregarding groove cutting, hole cutting in brick work or RCC all complete as per drawing, specification, direction of the engineer and ready for operation. The clam of MS clamps is separte. Brand Panchakanya						
	a) 160 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	750.00				
	b) 110 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	1,750.00				

	c) 75 mm dia. dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	290.00				
	d) 50 mm dia. 6kgf/cm.sq UPVC pipes single or double socket as per need with disregarding groove cutting, hole cutting in brickwork or RCC work all complete.	Rm.	190.00				
2	Providing and fixing in position heavy quality PVC fittings or specials with or without door access as per need, joining pipes and fittings with rubber rings and solution etc. including nailing, clamping. Pipe line should lay disregarding groove cutting, hole cutting in brick work or RCC work and all complete as per drawing, specification, direction of Engineer and ready for operation. The clam of MS clamps is separate. Brand Panchakanya						
	a) 160mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	55.00				
	b) 110mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer	Nos.	1,062.00				
	c) 75mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	573.00				
	d) 50mm dia. UPVC fittings even or uneven section such as bend single or double junction. As per need and direction of the engineer.	Nos.	375.00				
3	MS STRUCTURAL FABRICATION						
	Providing and fixing M.S structural work fabricated from standard sections i.e. rounds, solid angels, slotted angles, channels, cutting to size, drilling, welding, fixing and welding to insert plates in RCC structural members, hang, clamp it properly in position with metal grip expansion bolt, including red oxide and enamel painting for pipe hanger, supports, clamps all complete as per drawing specification, direction of the engineer and ready for operation. (The fabrication shop drawing shall be submitted by the contractor for commencement of the job).	kg.	3,000.00				
	TOTAL OF SOIL, WASTE, VENT & RAIN WATER PIPES						
C.	WATER SUPPLY						
1	COLD WATER LINES						

1.1	Providing and fixing in position Chlorinated Poly Vinyl Chloride (CPVC) with necessary CPVC fittings such as elbow, tee, union, nipple, brass elbow and brass tee etc making joint with applying solvent yellow, including nailing, clamping. Pipe line should lay disregarding groove cutting and hole cutting all complete as per drawing specification, direction of the engineer and ready for operation. Note: at the outlet fittings should be of brass elbow or brass tee and check valve as required. Brand Astral						
	a) 80mm dia. SDR 11 CPVC pipe with fittings	Rm.	120.00				
	b) 65mm dia. SDR 11 CPVC pipe with fittings	Rm.	40.00				
	c) 50mm dia. SDR 11 CPVC pipe with fittings	Rm.	230.00				
	d) 40mm dia. SDR 11CPVC pipe with fittings	Rm.	30.00				
	e) 32mm dia. SDR 11 CPVC pipe with fittings	Rm.	170.00				
	f) 25mm dia. SDR 11 CPVC pipe with fittings	Rm.	170.00				
	g) 20mm dia. SDR 11CPVC pipe with fittings	Rm.	245.00				
	h) 15mm dia. SDR 11 CPVC pipe with fittings	Rm.	455.00				
1.2	Providing and fixing in position CPVC valve as per drawing specification, direction of the engineer and ready for operation. Astral						
	a) CPVC CTS 80mm dia. Ball Valve	Nos.	10.00				
	b) CPVC CTS 65mm dia. Ball Valve	Nos.	5.00				
	c) CPVC CTS 50mm dia. Ball Valve	Nos.	6.00				
	d) CPVC CTS 40mm dia. Ball Valve	Nos.	5.00				
	e) CPVC CTS 32mm dia. Ball Valve	Nos.	16.00				
2	Providing and fixing in position Bronze non return valve of LEADER all complete as per drawing specification, direction of the engineer and ready for operation.						
	a) 80mm dia. Butterfly Valve	Nos.	1.00				
	b) 80mm dia. Non return Valve	Nos.	1.00				
	c) 65mm dia. Butterfly Valve	Nos.	2.00				
	e) 80mm dia. CI "Y" Strainer	Nos.	1.00				
	f) 50mm dia. Non return Valve	Nos.	1.00				

3	Water Bar Flange						
	Providing and fixing Pipe Inserts (Water Bar Flange) up to 1000mm long to tank using 'C' class M.S.Pipe, providing 4 to 5mm thick M.S plate at center projecting 25mm around pipe insert, applying 3 coats of anti-corrosive paint before fixing						
	a) 80 mm dia	Nos.	4.00				
	b) 65 mm dia	Nos.	5.00				
4	WATER TRANSFER PUMP						
	Providing and fixing in position centrifugal pump set of 10lit/sec against 100m head with electric motor including base plate made out of MS Channel fixed with nuts and bolts on leveled and strong foundation, connection to 65mm suction and 50mm delivery lines and connection to electrical line thru separate panel box with control to water tank filling manage system, 7.5HP speed of pump 2900rpm as well as testing commissioning the same all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	2.00				
5	Providing and fixing in position overhead water tank of PVC with required base support including hoisting & fixing in position with inlet, outlet, overflow and cleanout connections all complete as per drawing, specification, direction of the engineer and ready for operation.						
	a)5,000 litre capacity PVC water tank. Hilltake (Heavy) with lock.	Nos.	8.00				
6	UPVC SLEEVES						
	Providing and fixing in position UPVC of 160mm dia to 110mm dia and CPVC 50mm dia to 80mm dia. Sleeves in perfect line and level all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	170.00				
7	SUBMERSIBLE PUMP						
	Providing and fixing in position submersible Italian pumps for basement drain out single phase, power .60 kw, 1 HP, automatic drain out system all complete as per drawing, specification and instruction of engineer. Grundfos or equivalent	Nos.	2.00				
	TOTAL OF WATER SUPPLY WORKS						

D.	EXTERNAL WORKS						
1	HDP PIPE						
	Providing and laying in position HDP pipes including excavation of earth to any soil, any depth as per need and refilling the trenches 1' sand before laying pipes and rest of portion refilling soil with soil sprinkling water and compacting. Removing surplus earth with dumping to a distance as directed all complete as per drawing, specification, direction of the engineer and ready for operation.						
	a) 160 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	110.00				
	b) 200 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	50.00				
	c) 250 mm dia. 6kgf/cm.sq HDP pipes single or double socket as per need all complete.	Rm.	30.00				
2	MANHOLE						
	Construction of a manhole size of 1.0m dia. for soil line and max. depth of 1.5m as per site condition including earth excavation, brick soling, brick work 250mm and 350mm thick in cement mortar (1:4) 110mm base concrete (1:1.5:3), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 300mm ID heavy CI man hole cover with frame fixed over 110mm thick RCC coping in 1:1.5:3 cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	3.00				
3	CATCH BASIN						

	Construction of a catch basin size of 3.5ft dia. for rain water line and max. depth of 1.25m as per site condition including earth excavation, brick soling, brick work 9" thick in cement mortar (1:4) 110mm base concrete (1:2:4), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 600x600 heavy CI grating with frame fixed over 110mm thick RCC coping in 1:1.5:3. cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	9.00				
4	GULLY TRAP						
	Construction of gully trap size of 600 x 600mm for waste line and max. depth of 1m as per site condition including earth excavation, brick soling, brick work 250mm thick in cement mortar (1:4) 110mm base concrete (1:1.5:3), internal and outer surface cement plaster (1:4) & internal 5mm cement punning and fixing 600mm ID heavy CI man hole cover with frame fixed over 110mm thick RCC coping in 1:2:4 cement concrete providing 10mm rods 110 c/c x 2nos.10mm rods with screeding and punning on the floor with slope all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	1.00				
5	ANAEROBIC BAFFLE REACTOR						

	Construction of a Anaerobic Baffle Reactor with Anaerobic Filter size of length 6.0m x breath 3.0m x depth 3.0m for including earth excavation, brick soling, 4" thk PCC (1:3:6), 350mm base RCC (1:1.5:3) with 12mm dia. reinforcement 6"c/c both way in double layer, 6" wall RCC (1:1.5:3) with 10mm dia, reinforcement 6"c/c and 8mm dia. reinforcement 7"c/c both way in double layer, internal surface cement plaster (1:4) & 5mm cement punning and fixing 2nos. of 2ft. x 2ft. medium weight CI manhole cover with frame fixed over 6" thick RCC (1:1.5:3) cover slab with 10mm reinforcement 6" c/c and 10mm dia. reinforcement 6"c/c both way in double layers, Screeding and punning on the floor with 1:10 slope and including 5nos. 110mm dia. vertical pipe, including formwork, water proffing with grouting all complete as per drawing, specification, direction of the engineer and ready for operation.	Nos.	1.00				
6	DEEP WELL						
	Construction of water production deep well of size 150mm diameter depth up to 250m with pump discharge capacity 7 cu.m/hr, shaft seal of motor CER or Carbon with built in non return valve, pump, impeller and motor made of stainless steel boring in clay, silt gravel, rock, etc. heavy class MS black pipe and screen pipes, natural gravel packing surging with compressed air, discharge measurement, submersible pump of Grundfos or equivalent, cable, electric panel board etc. the pump entirely made of Stainless Steel 3 phase, outlet of 1.5" and 8HP speed of pump 2900rpm all complete and ready for use.	rm	250.00				
7	WATER TREATMENT PLANT						
	Providing and fixing in position water treatment plant made of FRP consisting of dosing, aeration, sand pressure filter, activated carbon filter complete with internal media, piping with required valves, electronic closing system with tank, pump, piping and valves all complete with chemicals required to run the unit for one month, raw water treated to meet WHO potable standard all complete of 7 cu.m/hr capacity.	set	1.00				
	TOTAL OF EXTERNAL WORKS						
E.	FIRE FIGHTING						

1	Excavation of trenches of required width for pipes, including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning soil as required, in layers not exceeding 20cm depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil all complete, as per drawing and instruction of the Engineer.						
a)	Pipes 150mm dia in all types of soil.	rm	125.00				
2	Supply, Installtion and testing of MS Class C pipe (make: HIPCO or equivalent)with fitting, Welded joint and two coat oxide paint or screwed joints and flanges as required and cutting holes and chase in brick or RCC walls, wherever required and making good the same all complete, as per drawing and instruction of the Engineer.						
a)	200mm dia	rm	129.00				
b)	150mm dia	rm	130.00				
c)	100mm dia	rm	150.00				
d)	65mm dia	rm	70.00				
e)	50mm dia	rm	35.00				
f)	40mm dia	rm	40.00				
g)	32mm dia	rm	30.00				
h)	25mm dia	rm	140.00				
3	Providing and laying anti-corrosive tapes of MAKPOLYKOTE / PYPKOTE make, 100mm wide and 4mm thick including an initial coat of primer for preventing the corrosion of buried pipe in trenches, complete in all respects as per manufacturers specifications all complete, as per drawing and instruction of the Engineer..						
a)	150mm dia	rm	125.00				
4	Painting of exposed pipes with two or more coats of synthetic enamel paint of approved shade as per pipe colour code including painting of legends in English with direction arrows all complete, as per drawing and instruction of the Engineer.						
a)	200mm dia	rm	129.00				

b)	150mm dia	rm	130.00				
c)	100mm dia	rm	150.00				
d)	65mm dia	rm	70.00				
e)	50mm dia	rm	35.00				
f)	40mm dia	rm	40.00				
g)	32mm dia	rm	30.00				
h)	25mm dia	rm	140.00				
5	Providing and fixing standard mild steel flanges, (only in valves, strainers, expansion joint and pumps matching flanges) screwed or welded complete with 1.5mm thick compressed asbestos gasket, nuts, bolts and washers etc., complete including testing of joints. all complete, as per drawing and Specification						
a)	200mm dia	Set	4.00				
b)	150mm dia	Set	4.00				
c)	100mm dia	Set	6.00				
d)	50mm dia	Set	4.00				
6	Providing and fixing gunmetal fullway valve with wheel tested to 20 Kg/cm ² quality all complete, as per drawing and Specification						
a)	50mm nominal bore	Pc.	2.00				
b)	25mm nominal bore	Pc.	4.00				
7	Providing and fixing butterfly valves, wafer end type class PN 1.6 including necessary nuts, bolts, gaskets etc. complete (without gear box) as per Specification						
a)	200mm dia nominal	Nos.	1.00				
b)	150mm dia nominal	Nos.	2.00				
c)	100mm dia nominal	Nos.	5.00				
d)	80mm dia nominal	Nos.	3.00				
e)	65mm dia nominal	Nos.	2.00				
8	Providing and fixing of Non - return valves Horizontal / vertical 20kg/sq m including necessary unts, bolts, gasket etc. all complete, as per drawing and Specification						

a)	100mm dia	Nos.	2.00				
b)	75mm dia	Nos.	4.00				
c)	50mm dia	Nos.	2.00				
9	Providing, fixing of Cast Iron / Gun metal Y stainer as per IS standard including necessary nut, bolts, gasket etc all complete, as per drawing and Specification						
a)	200mm dia	Nos.	1.00				
b)	100mm dia	Nos.	1.00				
10	Providing and fixing Flexible joint of pump for eliminate vibration as tested 20 kg/ sq m including all necessary requirment all complete, as per drawing and Specification						
a)	150mm dia	Nos.	2.00				
b)	50mm dia	Nos.	1.00				
11	Supply and fixing of installation valve assembly of approved make complete with turbine type automatic alarm valve control valve , test and drain valve and hydraulic alarm with motor and gong including interconnecting pipe all complete of 100mm dia as per Specification	Nos.	1.00				
12	Providing and fixing 25mm dia. C.I. air valve, single acting including the cost of all pipes and fitting as per standard design and site conditions complete in all respects, (excluding the gate valve) all complete, as per drawing and Specification	Nos.	3.00				
13	Providing, fixing and testing of external fire hydrants with 63mm dia single outlets and with instantaneous type pope threaded make coupling for connection to hose Type -A (Oblique) inlets flanged, mounted on a 80mm dia stand post complete in all respect as per attached Sketch. The stand post to be tapped form the external ring, supported on a pedestal. The exposed prtion of the stand post and hydrant to be painted in red colour and bituman paint of flanges and post underground all complete, as per drawing and Specification.	Nos.	4.00				

14	Providing and fixing landing valve/ Hydrants to type - A of with 63mm dia gunmetal instantaneous type single headed outlet, M.S.pipe bend and flange of required size with blank caps and chain complete with instantaneous spring lock type G.M. female coupling of 63 mm dia for connecting hose pipe, all complete, as per drawing and Specification	Nos.	20.00				
15	Providing and fixing standard short size gunmetal branch pipe with gunmetal nozzle 20mm nominal bore outlet with standard instantaneous type coupling, all complete, as per drawing and instruction of the Engineer.	Nos.	20.00				
16	Providing and fixing first aid fire hose reel, wall mounted swinging type fitted with 36.5mx20mm dia, high pressure hose conforming to IS:1532 with 5mm outlet gunmetal nozzle with shut off valve NAFFCO Brand as per IS:884-1969, all complete, as per drawing and instruction of the Engineer.	Nos.	20.00				
17	Providing and fixing 63mm dia 15m long rubberized fabric lined hose including gunmetal male and female instantaneous type coupling, approved by fire authority, machine wound with G.I. wire complete in all respects with hose conforming to type-II and coupling with ISI certification, all complete, as per drawing and specification	Nos.	48.00				
18	Providing and fixing fire hose cabinet fabricated from 14 gauge M.S sheet with single or double glazed front door and locking arrangement, painted "Fire Hose" with stove enameled paint, written on front, including necessary supports all complete, as per drawing and specification	Nos.	24.00				
19	Providing and fixing standard fire mans axe with heavy duty insulated rubber handle all complete, as per drawing and instruction of the Engineer..	Nos.	13.00				
20	Supply, Installation and testing, of Brass body quartzoide bulb type automatic sprinkler head						
a)	Pendent type with single piece rosette, dia 15mm, 68 deg.c temp as per specification	Nos.	143.00				

21	Providing and fixing 100mm dia two-way fire brigade inlet connection consisting of 63mm size instantaneously make coupling and shall be protected by cap scored with a chain glass bore etc. complete with one 100mm dia Butterfly valve (To be connected to external ring main/wet riser/sprinkler riser) all complete, as per drawing and specification	Nos.	2.00				
22	Providing and fixing M.S structural work fabricated from standard sections e.g. M.S. rounds, angles, channels, plates including cutting to size, welding, drilling with concrete drilling bits and fixing dash fasteners in RCC structural members as directed by Engineer-in-charge including cutting and making good the walls, ceilings and floors (for all types of pipe supports, clamps, etc.) all complete, as per drawing and specification.	Nos.	220.00				
23	Supply, installing, testing and commissioning of electric driven fire pump suitable for automatic operation consisting of following all complete, as per drawing and specification						
	Fire pump with bronze/ gun metal impeller, horizontal split casing, centrifugal suction type multistage, having a capacity of 40 ltrs/ sec against a total head of 90m so as to ensure a minimum pressure of 3 kg per sq cm at the highest and farthest outlet at the specified flow complete with necessary pressure guage on the delivery side including by - pass arrangement for priodical testing of the working of the pumping set with 50mm dia G.I. pipe upto 5m length & control valve. The pump shall be provided with mechanical seals all complete, as per drawing and specification	Set	1.00				
24	Supplying, insgtalling, testing and commissioning of diesel engine driven fire pump suitable for automatic operation consisting of the following all complete, as per drawing and specification						
	Horizontal centrifugal type fire pump with bronze/ gun metal imperller, complete for delivery of 40 Lts/ sec at a total head of 90 m so as to ensure a minimum pressure of 3.0 kg per sq. cm at the highest & farthest oulet at the specified flow, complete with necessary pressure gauge on the delivery side etc. including by - pass arrangement for periodical testing of the working of the pump set as required. The pump shall be provided with mechanical seals.	Set	1.00				

25	Supplying, installation, testing and commissioning of electric motor driven Jockey pump consisting of the following all complete, as per drawing and ispecification						
	Centrifugal Pump of 2 l/s capacity, capable of building pressure lost or any leakage in the system against a total head head of 90 m approx. with bronze/gun metal impeller complete with necessary pressure gauge on delivery side etc. including by-pass arrangement for testing of the working of the pumping set and with mechanical seals as required.	Set	1.00				
26	Fabricating, supplying, erection, testing and commissioning of cubical type, floor mounted, control panel compete with suitable relays, contactor, indication lamps, fuses, instrument isolator, automatic star delta type motor starter and auxiliary switch including connections complete as required for 1 nos. main pump (one for wet riser and spare space for sprinkler pump and pne diesel - driven stand -by) and 1 no. jockey pump and one spare space for jockey pump and Local Fire Department requirements as detailed below all complete, as per drawing and specification						
	switch 200A 50KA MCCB TPN Voltmeter(0-500)V+(0-200)A Amp meter						
	Voltmeter(0-500)V+(0-200)A Amp meter						
	V.S.S						
	indication lamp						
	protection fuse base						
	Outgoing main pump 1 set 70 HP Auto S/D Stator						
	1 set 7.5 HP DOL						
	16/40 amps tp MCB						
	25 amps sp MCB	Set	1.00				
27	Supply & laying PVC insulated and sheathed armoured cables of 1.1 KV copper conductor Including supplying and making end termination with brass compression glands all complete, as per drawing and instruction of the Engineer.						
a)	3cx4 sq mm CU/Arm. Cable	rm	45.00				
b)	3cx120 sq mm cu cable	rm	40.00				

c)	1x25 sq mm PYC/PVC in conduit/Trunking	rm	40.00				
d)	1x6 sqmm P/V/C/PVC in conduit/Trunking	rm	60.00				
28	Earthing with GI earth Plate 600mmx600mmx 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangements and watering pipe ect. (including Charcol or coke and salt) all complete, as per drawing and specification	Set	1.00				
29	Providing and Fixing 20 mmx 3 mm Cu strip in 40 mm dia GI pipe from earth electrode as required all complete, as per drawing and specification	rm	45.00				
30	providing and fixing 20 mmx 3 mm Copper strip on surface or in recess for earth connection all complete, as per drawing and specification	rm	15.00				
31	Providing and fixing 8 SWG dia GI wire on surface or recess foe loop earthing all complete, as per drawing and specification	rm	80.00				
32	Providing and fixing of Fire Extinguishers, with all accessories as per specification	0	-				
a)	Fire Extinguishers ABC Type, 5 Kg Capacity With Fire Rating of 34A 183B	Set	22.00				
TOTAL OF FIRE FIGHTING							
SUB TOTAL OF SANITARY WORKS							

Nepal Electricity Authority

Engineering Services Directorate
Building and Physical Development Construction Project

Project : Corporate Office Building, Durbarmarg, Bhadrakali, Kathmandu

Part II: BOQ for 16 Storey Building - Bill of Quantity - Electrical Works (External Works)

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
A	POWER SUPPLY SYSTEM					
	Supply,Installation, testing, commissioning including the necessary connecting, fixing, insulating and earthing as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete					
1.0	HT Panel Board					
	Floor mounting type 11kV VCB, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out minimum 2mm sheet steel duly treated with 2 coats of red oxide and epoxy paints, Panels shall be suitable for 11KV, 3 phase, 3 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomming : 1 no 630 A 20 KA , 11 KV ,VCB					
	50 -100/5 A 2 core CT for protection (class IP20) and metering Class 1					
	3 nos 11kV/110V PT 30VA					
	Outgoings : 2 nos 630 A 20 KA , 11 KV ,VCB					
	Metering and protection units for Incoming and out going feeders.					
	External/Switchyard Building Panel					

2.0	Recess/Surface type External/ Switchyard Building Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomer :					
	1 no 63 A TP 25 KA MCCB					
	Outgoings :					
	3 Nos. 25 A TP 10 KA MCB					
	12 Nos. 6 A SP 10 KA MCB					
	9 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.					
	Battery and Battery Charger					
3.0	Supply,Installation, testing, commissioning of 110 V DC maintenance free Lead Acid Battery (9 nos of 12v 60/70AH) and charger including the necessary connecting, wiring, DC DB ,fixing, MS rack, metal enclosure as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete. Input of battery charger shall be 230V AC +/- 15%, 50 +/-2.5 Hz and out put shall be 110 V DC 25 A.	set	1.00			
4.0	Earthing system including connection to the switch fuse unit, main panel, floor distribution boards as per IS 3043-1966 specifications and instruction such that the earth resistance should not exceed 5 ohm as per Specification & drawings , with following accessories:	set	6.00			
	a) Copper plate of size 600mm x 600mm x 3.15mm as electrode					
	b) Copper earth conductor of size 6 SWG , as earth lead , duly brazed to electrode					
	c) 25mm dia 2 m long G.I. Pipe , perforated , for watering					

	e) 300x300x50mm RCC slab inspection cover					
	f) Common salt, charcoal, water treatment arrangement etc.					
5.0	Main Earthing system including main earth grid, connection to the 11kV VCB , MPB, Lightning protection system , floor distribution boards as per IS 3043-1966/IEEE - 80, specifications and instruction such that the earth resistance should not exceed 1 ohm as per Specification & drawings , with following accessories:					
5.1	6x32 mm GI strip as earth electrode (200 rm)	mtr.	200.00			
5.2	95 sq mm copper earth wire laid in ground and earth riser to connect to the different electrical equipment as main earth connection including cable lugs and other necessary accessories.	mtr.	400.00			
5.3	19mm dia 2 m long Copper pipe as earth electrode	nos	12.00			
5.4	Necessary thermal joint and mechanical connectors	lot	1.00			
5.5	minimum 50 sq mm cu earth wire to connect from main earth terminal to electrical equipment including cable lugs and other necessary accessories.	mtr.	200.00			
6.0	Supplying , laying and jointing of following mains / sub mains cables including crimping type jointing materials , sleeves, trench works, manholes etc as per Specification & drawings :					
6.1	1x3cx95 sq.mm Al armoured 11 KV grade XLPE cable from NEA Connection point to NEA metering Unit to HT Panel to Transformer 1 & 2 .	mtr.	100.00			
6.2	Out door/Indoor type Heat Shrinkage type Jointing kits for 3cx95 sq.mm AL XLPE cable	set	8.00			
6.3	(4x4x1cx300 + 2x1c x300) sq.mm Al unarmoured cable from Transformer 1, 2 to Motor Control Panel (MCP) .	mtr.	110.00			
6.4	2x3.5cx300 sq.mm Al armoured cable from Generator1, 2 to MCP .	mtr.	110.00			
6.5	3cx2.5 sq.mm Cu armoured cable for external light point wiring.	mtr.	500.00			

7.0	Supply and installation of MS made following cable ladders with supports.					
7.1	600 mm wide	mtr.	50.00			
7.2	300 mm wide	mtr.	15.00			
SUB TOTAL COST OF EXTERNAL WORKS						

Nepal Electricity Authority

Engineering Services Directorate

Building and Physical Development Construction Project

Project : Corporate Office Building, Durbar Marg, Bhadrakali, Kathmandu

Part II: BOQ for 16 Storey Building -Bill of Quantity - Electrical Works (Main Building)

Item	Description	Unit	Quantity	Rate		Amount
				In Figure	In Words	
A	POWER SUPPLY SYSTEM					
	Supply, Installation, testing, commissioning including the necessary connecting, fixing, insulating and earthing as per drawings, specifications, according to National Electrical Code (NEC), instructions all complete					
1.0	Panel/Riser/DB					
1.1	Main Control Panel (MCP)					
	Cubical Floor mounting type Main Control Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 2mm sheet steel duly treated. with 2 coats of red oxide ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system and epoxy paints and comprising of :	set	1.00			
	Mains Section					
	Incomings :					
	2 nos 1250 A 4P MDO 50KA ACB For Transformers 1 & 2					
	2 nos 1000 A 4P MDO 50KA ACB For Generator 1 & 2					
	1 no 200 A 4P 50 KA Motorized MCCB with shunt tripe facility For Generator 3					
	Bus Couplor : 1 no 1250 A 4P MDO 50KA ACB					
	Outgoings :					
	2 nos 800 A 4P 35 KA MCCB for Rising Mains					
	1 no 200 A, TP 35 KA MCCB For Fire Pump					
	1 no 250 A, TP 35 KA MCCB For Utility Panel					
	4 no 100 A, TP 35 KA MCCB For Spare					



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	1 no 16 A HRC Fuse For FACP					
	2 set of 1000/5 A CT for APFCP control					
	2 set of Multi Functional Meter with 1000/5 A CT, Indicator Lamp etc For NEA Supply					
	2 set of Multi Functional Meter with 800/5 A CT , Indicator Lamp etc For Gen Supply					
	1 set of Multi Functional Meter with 400/5 A CT , Indicator Lamp etc For Gen Supply					
	1 set of TP & N copper busbar of at least 1500 A capacity complete with terminal lugs and solderless connectors.					
	1 set of Indicator lamps					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	All ACBs and motorised MCCB shall be controlled by PLC, supplied by generator supplier, i.e ACB and motorised MCCB shall be switched ON and OFF as per requirement of different operation condition.					
	CAPACITOR BANKS PANELS					
1.2	Cubical Floor mounting type Capacitor Bank Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 16 SWG sheet steel duly treated with 2 coats of red oxide and epoxy paints, Panels shall be suitable for 400v, 3 phase, 4 wire, 50 HZ supply systems as per Specification & drawings and comprising of :	set	2.00			
	Incomer :					
	1 nos 400 A TP 35 KA MCCB					
	Outgoing :					
	8 nos 50 A TP 25 KA MCCB					
	4 nos 32 A TP 25 KA MCCB					
	8 nos 50 A TP Capacity Duty Magnetic Contactor					
	4 nos 40 A TP Capacity Duty Magnetic Contactor					
	6 nos 25 KVAR Capaciyor Bank					
	4 nos 15 KVAR Capaciyor Bank					

	1 unit 14 way Microprocessor APFC controller power factor controller with over voltage off facility .Controller should mounted on the front side of the panel					
	1 set of TP & N copper busbar of at least 500 A capacity complete with terminal lugs and solderless connectors.					
	ON/OFF indicator lamps					
	Manual ON/OFF push switches,					
	Heavy duty exhaust fans to be provided for cooling Thyristors.					
	Rising Mains					
1.3	Supply, installation, testing and comissioning of 2 mm thick steel sheet factory fabricated post galvanized riising mains with internal partition of the following accesaries including providing removable 3 mm thick GI cover, knock out holes and fixing accessories earthing with 8 SWG copper earth wire complete as required including floor supports, bends, access boxes, tap off boxes and cross over as per specification and site requirement :					
1.3.1	Supply, installation, testing and comissioning of Incomer for Rising Mains (Busduct) with 630 A TP 50 KA MCCB including necessary Bus Bar, incloser etc as per drawing and specification.	Set	2.00			
1.3.2	Supply, installation, testing and comissioning of Rising Mains (Busduct) with 1000 A TPN Rising including necessary AI Bus Bar , encloser etc, necessary busbar bend unit as per drawing and specification.	mtr.	160.00			
1.3.3	Supply, installation, testing and comissioning of Tap Off Box (Unit) for Rising Mains (Busduct) with 200 A TP 35 KA MCCB including necessary Bus Bar, encloser etc as per drawing and specification.	Set	16.00			
1.4	Floor Panel Board - FPB					
	Cubical Floor mounting type Floor Panel Board panel(FPB) with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	16.00			
	Mains Section					

	Incomer :					
	1 no 200 A TP 35 KA MCCB					
	Outgoings :					
	3 Nos. 40 A TP 10 KA MCB for Individual DB's					
	3 Nos. 32 A DP 10 KA MCB for Individual DB's					
	3 Nos. (10-40)A 3x380/220v Cl. 1 Three Phase Energy Meter With NEA Test report					
	3 Nos. (10-40) A 2x220v Cl. 1 Single Phase Energy Meter With NEA Test report					
	Space For 1 no of 40 A TP MCB & 1no of Three Phase Meter					
	1 set of TP & N copper busbar of at least 250 A capacity complete with terminal lugs and solderless connectors.					
	1 set of Indicator lamps with fuses					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1set 0 - 500 V voltmeter with selector switch and protection fuses.					
	1 set 0 - 200 A Amperemeter with 200/5A CTs selector switch and necessary accessories.					
1.5	Utility Panel Board					
	Cubical Floor mounting type Utility Panel Board panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Mains Section					
	Incomer :					

	1 no 250 A TP 35 KA MCCB					
	Outgoings :					
	3 Nos. 40 A TP 25 KA MCCB for Lower/Upper Basement DB's & Spare					
	3 Nos. 63 A TP 25 KA MCCB for Water Treatment Plant DB, Spare					
	2 Nos. 75 A TP 25 KA MCCB for DB External/Switchyard Building DB , Lift Panel,Attic Floor DB,					
	5 Nos. 32 A TP 10 KA MCB for Floor Utility DB's & Spare					
	2 Nos. 20-25 A TP 10 KA MCB for Spare					
	1 set of TP & N copper busbar of at least 300 A capacity complete with terminal lugs and solderless connectors.					
	1 set of Indicator lamps with fuses					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of Multi Functional Meter with 300/5 A CT , Indicator Lamp etc					
1.6	Floor Utility DB					
	Recess/Surface type Utility DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	15.00			
	Sec A (NEA/ Gen Supply)					
	Incomer :					
	1 no 25 A TP 10 KA MCB					
	Outgoings :					
	9 Nos. 6 A SP 10 KA MCB					
	6 Nos. 10 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Sec B (UPS Supply)					
	Incomer :					
	1 no 16 A DP 10 KA MCB					

	Outgoings :				
	4 Nos. 6 A SP 10 KA MCB				
	1 set of Phase & Neutral copper busbar of at least 25 A capacity complete with terminal lugs and solderless connectors.				
1.7	Lift Panel				
	Recess type Utility DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00		
	Incomer :				
	1 no 63 A TP 25 KA MCCB				
	Outgoings :				
	4 Nos. 32 A TP 10 KA MCB				
	3 Nos. 6 A SP 10 KA MCB				
	3 Nos. 16 A SP 10 KA MCB				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.				
1.8	Attic Floor Panel				
	Recess type Attic Floor Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00		
	Sec A (NEA/ Gen Supply)				
	Incomer :				
	1 no 75 A TP 35 KA MCCB				
	Outgoings :				
	1 Nos. 50 A DP 10 KA MCB For UPS				

	3 Nos. 25 A TP 10 KA MCB For Spare				
	12 Nos. 6 A SP 10 KA MCB				
	10 Nos. 16 A SP 10 KA MCB				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.				
	Sec B (UPS Supply)				
	Incomer :				
	1 no 16 A DP 10 KA MCB				
	Outgoings :				
	4 Nos. 6 A SP 10 KA MCB				
	1 set of Phase & Neutral copper busbar of at least 25 A capacity complete with terminal lugs and solderless connectors.				
1.9	UPS Panel				
	Recess type UPS Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 1 phase, 2 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00		
	Incomer :				
	1 no 50 A DP 15 KA MCB				
	Outgoings :				
	9 Nos. 20 A DP 10 KA MCB For DB & Spare				
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.				
	1 set of TP & N copper busbar of at least 60 A capacity complete with terminal lugs and solderless connectors.				
	Individual DB For Offices				

1.10	Recess/ Surface type DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	45.00			
	Main Supply					
	Incomer: 32 A TP 10 KA MCB					
	Outgoings :					
	9 nos 6 A SP 10 KA MCB					
	9 nos 16 A SP 10KA MCB					
	3 nos indicator lamps with fuses					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Individual DB For Offices					
1.11	Recess/ Surface type DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 1 phase, 2 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	45.00			
	Main Supply					
	Incomer: 25 A DP 10 KA MCB					
	Outgoings :					
	6 nos 6 A SP 10 KA MCB					
	6 nos 16 A SP 10KA MCB					
	1 nos indicator lamps with fuses					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Basement DB					

1.12	Recess/Surface type Lower/ Upper Basement floor DB with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	2.00			
	Sec A (NEA/ Gen Supply)					
	Incomer :					
	1 no 40 A TP 10 KA MCB					
	Outgoings :					
	1 Nos. 25 A TP 10 KA MCB					
	12 Nos. 6 A SP 10 KA MCB					
	6 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 50 A capacity complete with terminal lugs and solderless connectors.					
	Sec B (UPS Supply)					
	Incomer :					
	1 no 16 A DP 10 KA MCB					
	Outgoings :					
	4 Nos. 6 A SP 10 KA MCB					
	1 set of Phase & Neutral copper busbar of at least 25 A capacity complete with terminal lugs and solderless connectors.					
	Cafeteria Panel					
1.13	Recess/Surface type Cafeteria Panel with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomer :					
	1 Nos. (10-60)A 3x380/220v Cl. 1 Three Phase Energy Meter With NEA Test report					

	1 no 63 A TP 25 KA MCCB					
	Outgoings :					
	1 Nos. 40 A TP 10 KA MCB For Kithcen DB					
	1 Nos. 25 A TP 10 KA MCB					
	9 Nos. 6 A SP 10 KA MCB					
	6 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 100 A capacity complete with terminal lugs and solderless connectors.					
	Kitchen DB					
1.14	Recess/Surface type DB for Kitchen with double cover, including following incomer / out going Units and accessories housed in lockable dust and vermin proof enclosure fabricated out of 1.6 mm sheet steel duly treated and coated with 2 coats of red oxide and epoxy paints ,Panels shall be suitable for 400V, 3 phase, 4 wire, 50 HZ supply system as per Specification & drawings and comprising of :	set	1.00			
	Incomer :					
	1 no 40 A TP 25 KA MCCB					
	Outgoings :					
	1 Nos. 25 A TP 10 KA MCB					
	9 Nos. 6 A SP 10 KA MCB					
	9 Nos. 16 A SP 10 KA MCB					
	1 set of copper ground bus complete with a terminal lug for terminating copper ground wires.					
	1 set of TP & N copper busbar of at least 60 A capacity complete with terminal lugs and solderless connectors.					
2.0	Supplying , laying and jointing of following mains / sub mains cables including crimping type jointing materials , sleeves, trench works, manholes etc as per Specification & drawings :					
2.1	1x3.5cx300 sq.mm Al armoured cable from Generator 3 to MCP .	mtr.	25.00			
2.2	2x3.5cx300 sq.mm Al armoured cable from MCP to Rising Mains 1, 2.	mtr.	30.00			
2.3	1x3.5cx120 sq.mm Cu armoured cable & 16 Sq.mm Cu wire as earth condutor from MCP to Fire Pump Panel .	mtr.	40.00			

2.4	1x3.5cx150 sq.mm Cu armoured cable & 16 Sq.mm Cu wire as earth conductor from MCP to Utility Panel .	mtr.	10.00			
2.5	1x3.5cx185 sq.mm Al armoured cable & 16 Sq.mm Cu wire as earth conductor and 2cx2.5 Sq.mm Cu cable for PF controller from MCP to APFC Panel.	mtr.	20.00			
2.6	3x2.5 sq.mm Cu armoured cable from MCP to FACP.	mtr.	35.00			
2.7	4cx16 sq.mm copper armoured cable from Utility Panel board to Lift Panel, Lower Basement DB, Upper Basement DB.	mtr.	105.00			
2.8	4cx25 sq.mm copper armoured cable & 6 sq.mm copper wire as earth conductor from Utility Panel board to Water Treatment Plant Panel, DB for external Switchyard Building.	mtr.	90.00			
2.9	4cx25 sq.mm copper armoured cable from Utility Panel board to Attic Floor Panel.	mtr.	88.00			
2.10	4cx10 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from Lift Panel to individual Lift.	mtr.	40.00			
2.11	4cx6 sq.mm copper armoured cable from Utility Panel to Floor Utility DB from Ground to fourth Floor, from Fifth to nighth floor (Sec A).	mtr.	200.00			
2.12	2cx16 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from Attic Floor Panel to UPS Panel via UPS.	mtr.	25.00			
2.13	2cx2.5 sq.mm copper cable from UPS Panel to Attic Floor Panel (Sec B), sixteenth floor DB.	mtr.	15.00			
2.14	2cx4 sq.mm copper cable from UPS Panel to Floor Utility DB (Sec B) from Ground to fourth Floor, from Fifth to nighth floor, from tenth to fifteen floor DB, Lower/Upper Basement Floor DB.	mtr.	200.00			
2.15	3.5cx95 sq.mm copper armoured cable from Floor Tap Off Box(Unit) to individual Floor Panel.	mtr.	70.00			
2.16	4cx25 sq.mm copper armoured cable from Fifteenth Floor Tap Off Box(Unit) to Cafeteria at top floor.	mtr.	40.00			
2.17	4cx10 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from individual Floor Panel to Floor DB's,	mtr.	1,700.00			
2.18	2cx6 sq.mm copper armoured cable & 4 sq.mm copper wire as earth conductor from individual Floor Panel to Floor DB's.	mtr.	1,600.00			
3.0	Supply and installation of MS made following cable ladders with supports.					

3.1	600 mm wide	mtr.	40.00		
3.2	300 mm wide	mtr.	250.00		
4.0	Earthing System				
4.1	Earthing system including earth works in excavation and back filling as per IS 3043-1966 specifications and instruction such that the earth resistance should not exceed 5 ohm as per Specification & drawings, with following accessories:	set	3.00		
	a) Copper plate of size 600mm x 600mm x 3.15mm as electrode				
	b) Copper earth conductor of size 6 SWG from electrode to Panel, as earth lead , duly brazed to electrode				
	c) 25mm dia 2 m long G.I. Pipe , perforated , for watering				
	e) 300x300x50mm RCC slab inspection cover				
	f) Common salt, charcoal, water treatment arrangement etc.				
4.2	Supply , laying and installation of main earth conductor as 3mmx 25 mm copper strip from MCCB box at lower basement to floor Tap Off Box .	mtr.	90.00		
4.3	Supply , laying and installation of 4 Sq.mm Cu wire as earth conductor from main earth conductor to DB .	mtr.	200.00		
4.4	Supply , laying and installation of 6 Sq.mm Cu wire as earth conductor from main earth conductor to, Lift Panel, Lower/Upper Basement DB.	mtr.	150.00		
4.5	Supply , laying and installation of 10 Sq.mm Cu wire as earth conductor from main earth conductor to Individual Floor Panel .	mtr.	100.00		
5.0	Light Fixtures complete with lamps/tubes , electronic / copper ballast as necessary all complete including fixing materials as per Specification & drawings Make: PHILIPS, GE, WIPRO or equivalent				
5.1	1x52 w 4' LED surface/recess type light fixtures	set	-		
5.2	1x32 w LED (2'x2') surface/recess type light fixtures	set	32.00		
5.3	1x11w hanging type LED light fixtures	set	32.00		
5.4	1x8 w LED Dome light fixture	set	180.00		
5.5	2x11 w CFL mirror optic light fixture	set	120.00		
5.6	1x36 w FTL light fixture	set	120.00		
6.0	Supply and installation of fans including flymesh framing.				
6.1	200 mm dia exhaust fan with louvre opening	set	4.00		
6.2	42" Ceiling Fan	set	24.00		

7.0	Supply and installation of various Sockets in metal box, sockets as per Specification & drawings Make:					
7.1	15 A/ 13 A Three Pin power sockets	nos	575.00			
8.0	Concealed Wiring					
	Point wiring from Floor Distribution Board to junction boxes, from junction boxes to light /fan and power outlets, switches in suitable HDP Polythene pipe with PVC insulated copper conductor recessed inside ground, concrete slab and wall, as per Specification & drawings etc					
8.1	Light and fan points wiring from distribution boards to light fixtures and fans with 3 nos. 1.5 sq mm PVC insulated cu wire through HDP Polythene pipe including conduits, switch/ fan control switch etc.	pts	1,675.00			
8.2	Power points wiring from distribution boards to 2 - 3 outlets per circuit with 3 nos. 2.5 sq mm PVC insulated copper wires through HDP Polythene pipe including all necessary materials for point wiring excluding power sockets.	pts	575.00			
8.3	HVAC Power points wiring from distribution boards to Indoor/ Outdoor Unit with (2x4+1x2.5) sq mm PVC insulated copper wires through HDP Polythene pipe including all necessary materials for point wiring excluding power sockets.	pts	25.00			
8.4	Supply and installation of Lift Shaft Lighting wiring with 3x1.5 Sq.mm Cu wire through HDP Polythene pipe from DB including 1x15 w CFL bulkhead light fixture , switch etc.	set	48.00			
8.5	Supply and installation of Lift Power point wiring with 3x 2.5 Sq.mm Cu wire through HDP Polythene pipe from DB including socket.	set	48.00			
9.0	Renewable Energy (Solar Energy)					
	Supply, installation, testing and comissioning of following equipments for renewable energy supply inclusive of all accessories including civil works, etc as per specification and drawing.					
9.1	Supply , installation testing and commissioning of 50 nos 200 W 35.2 V Solar Panels inclusive of necessary Aluminum or MS/ GI channels for mounting of Solar Panels,Civil works,Cables, Cable shoe etc. The solar panels shall mount such that it faces todars south and has slope of 30 deg. The Panels shall be of IEC 61215 Standard and Make: SIEMENS, GE, KYOCERA or equivalent.	set	1.00			

9.2	192 V 75 A PWM charge controller. Reliability of offered equipment shall be not less than 99.9% Make: Sukam,Hefai or Equivalent	set	2.00			
9.3	96 nos 2 V 400AH @ C20 tublor type lead acid battery with MS rack, necessary cables etc including HRC fuse for protection. The battery shall be specially designed for solar power system.	lot	1.00			
9.4	10 kVA Sine wave ON LINE UPS with 230 V +/- 10% , 50 Hz AC and 192 v DC input and single phase 3 wire 230 V, 50 Hz AC +/-10% out put.Efficiency of inverter shall be not less than 90% for 20% to 100 % load and charging current shall be 5 A.Reliability of offered equipment shall be not less than 99.9%. Make: MATRIX, SUCAM,KEVIN or equivalent.	nos	1.00			
10.0	GENERATOR					
10.1	Supply installation testing and commissioning of 125kVA, 400V four wire, 50Hz sound proof diesel generator with electronic governer, control panel, as per specification and drawing . (Engine Make: Cummins, Perkins or equivalent ; Alternator:Stamford or equivalent)	set	1.00			
	ALLIED SERVICES					
11.0	Telephone System					
	Supply installation of following telephone/ fire alarm distribution board including crone connectors.					
11.1	2x500 pair Telephone Cabinet (Main Distribution Board)	set	1.00			
11.2	2x50 pair Distribution Board for tel and necessary connectors for fire alarm system	set	16.00			
11.3	2x20 pair Distribution Board for tel and necessary connectors for fire alarm system	set	1.00			
11.4	10 pair Distribution Board for tel and necessary connectors for fire alarm system	set	2.00			
11.5	Point wiring from Tag Blocks / Junction to individual telephone points with 2 pair Telephone wires in HDP pipe laid under floor , ceiling /wall including terminations at both ends and providing marking ferrules / sleeves	pts	125.00			
11.6	Supply laying and installation of following jellyfilled telephone cable from Telephone Cabinet to individual telephone distribution box inclusive of necessary couduits etc.					
11.6.1	50 PAIRS Tel. cable	mtr.	480.00			

11.6.2	20 PAIRS Tel. cable	mtr.	80.00			
11.6.3	Supply and installation of RJ11 Telephone outlets in metal box including terminations	nos	125.00			
12.0	Computer Networking System (Equipment, accessories, switchers, Patch Panels/cords not included)					
12.1	Supply installation testing of 4 pair fibre optical cable.	mtr.	100.00			
12.2	Optical termination unit suitable for 4 pair optical cable inclusive of splicing works	set	4.00			
12.3	Wiring for computer outlets with CAT 6 , 4 pair , computer cable in HDP pipe laid under floor / wall / ceiling or tagged on furniture	pts	400.00			
12.4	CAT 6 , 4 PAIR , compatible RJ45 Computer Socket	nos	400.00			
13.0	Fire Alarm System					
13.1	Supply installation testing and comissioning of 32 zone fire alarm system. The Fire alarm system shall be microcontroller based and shall have remote indication system facility using RS232 or RJ 45 connector as per drawing & specification.A battery back up for minimum eight hours shall also be provided.The fire alarm control panel shall be UL listed or CE approved.	set	1.00			
13.2	Wiring for fire alarm system from fire alarm panel to Floor TJB with 2x1 sq. mm fire retardant cu wire in HDP pipes laid under ceiling / wall as per drawing & specification	mtr.	480.00			
13.3	Wiring for fire alarm system smoke/ heat detectors / manual call points and response indicators from Floor TJB with 2x1 sq. mm fire retardant cu wire in HDP pipes laid under ceiling / wall as per drawing & specification	pts	640.00			
13.4	Wiring from Fire Alarm Panel to Hooters with 2x1 sq mm fire retardant copper wires in HDP pipes laid under ceiling / wall as per drawing & specification	pts	70.00			
13.5	Supply and installation of Smoke Detector	nos	450.00			
13.6	Supply and installation of Heat Detector	nos	85.00			
13.7	Supply and installation of Break Glass type manual call point	nos	20.00			
13.8	Supply and installation of Response Indicator	nos	85.00			
13.9	Supply and installation of electronic hooter with strobe light	nos	70.00			

13.10	Supply and installation of weather proof outdoor bell for fire alarm system	nos	1.00			
14.0	LIGHTNING PROTECTION SYSTEM					
	Supply and installation of lightning protection system inclusive of following materials as per specification and drawing:					
14.1	25 mmx3mm copper strip(for horizontal & vertical conductor)	mtr.	570.00			
14.2	25 mmx6mm copper strip(Earthing pit looping conductor)	mtr.	145.00			
14.3	16 mm 2 m long copper rod as air terminator	set	1.00			
14.4	50 mm dia 6 m long GI pipe as earth electrode	set	1.00			
14.5	Low -Intensity Aviation Obstruction Fixture with 1x 70 VA Neon Spiral Lamp with automatic switch /wiring.	set	1.00			
15.0	PUBLIC ADDRESS SYSTEM					
15.1	Supply and Installation of flush type ceiling mounted / surface mounted type 6 W speaker with grill and frame including 100 V matching transformer as per specification and drawing. Make: Ahuja or equivalent	set	120.00			
15.2	Supply and installation of 300 W RMS dual channel audio amplifier with various input facilities including microphone inputs.Make Ahuja or equivalent	set	1.00			
15.3	Supply and installation of uni directional dynamic microphone with table stand.Make ahuja or equivalent	set	1.00			
15.4	Speaker point wiring inclusive of 20 mm HDP conduits, 2x1 sq mm flexible wires and necessary accessories.	pts	120.00			
	SUB TOTAL OF ELECTRICAL WORKS					

Part III: CONDITIONS OF CONTRACT AND CONTRACT FORMS



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Section VIII: General Conditions of Contract



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General Conditions of Contract

A. General	
1. Definitions	<p>1.1 Boldface type is used to identify defined terms.</p> <p>(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.</p> <p>(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.</p> <p>(c) The Adjudicator is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.2 hereunder.</p> <p>(d) Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.</p> <p>(e) Compensation Events are those defined in GCC 50 hereunder.</p> <p>(f) The Completion Date is the date of completion of the Works as certified by the Project Manager, in accordance with GCC 68.1.</p> <p>(g) 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.</p> <p>(h) The Contractor is the party whose Bid to carry out the Works has been accepted by the Employer.</p> <p>(i) The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer.</p> <p>(j) The Contract Price is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.</p> <p>(k) Days are calendar days; months are calendar-months.</p> <p>(l) 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.</p> <p>(m) A Defect is any part of the Works not completed in accordance with the Contract.</p> <p>(n) The Defects Liability Certificate is the certificate issued by Project Manager upon correction of defects by the Contractor.</p> <p>(o) The Defects Liability Period is the period calculated from the Completion Date where the Contractor remains responsible for remedying defects.</p> <p>(p) Drawings include calculations and other information provided or approved by the Project Manager for the execution of the Contract.</p> <p>(q) The Employer is the party who employs the Contractor to carry out the Works, as specified in the SCC.</p> <p>(r) Equipment is the Contractor's machinery and vehicles brought</p>

	<p>temporarily to the Site to construct the Works.</p> <p>(s) 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.</p> <p>(t) The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance.</p> <p>(u) In writing or written means hand written, type written, printed or electronically made, and resulting in permanent record.</p> <p>(v) 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.</p> <p>(w) 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.</p> <p>(x) Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.</p> <p>(y) Party means the Employer or the Contractor, as the context requires.</p> <p>(z) SCC means Special Conditions of Contract</p> <p>(aa) Plant is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.</p> <p>(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.</p> <p>(cc) Retention Money means the aggregate of all monies retained by the Employer pursuant to GCC 54.1.</p> <p>(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.</p> <p>(ee) The Site is the area defined as such in the SCC</p> <p>(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.</p> <p>(gg) Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.</p> <p>(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.</p> <p>(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</p>
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	<p>includes work on the Site.</p> <p>(jj) Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.</p> <p>(kk) A Variation is an instruction given by the Project Manager which varies the Works</p> <p>(ll) The Works are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the SCC.</p>
2. Interpretation	<p>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.</p> <p>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).</p> <p>2.3 The documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> (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	<p>3.1 The language of the Contract and the law governing the Contract are stated in the SCC.</p> <p>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</p> <ul style="list-style-type: none"> (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 Borrower's Country prohibits any import of goods from, or any payments to, a particular country, person, or entity. Where the borrower'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.
5. Assignment	<p>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</p> <p>(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</p> <p>(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.</p>
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.
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 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. A notice shall be effective only when it is delivered.
13. Subcontracting	13.1 Not Applicable
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	<p>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.</p> <p>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.</p> <p>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.</p>
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.

<p>17. Employer's Risks</p>	<p>17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:</p> <ul style="list-style-type: none"> (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 <ul style="list-style-type: none"> (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. <p>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</p> <ul style="list-style-type: none"> (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.
<p>18. Contractor's Risks</p>	<p>18.1 From the Starting Date until the Defects Liability Certificate has been issued, 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.</p>
<p>19. Insurance</p>	<p>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:</p> <ul style="list-style-type: none"> (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. <p>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.</p> <p>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</p>

	<p>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.</p> <p>19.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager.</p> <p>19.5 Both parties shall comply with any conditions of the insurance policies.</p>
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 contractor and Approval by the Project Manager	<p>23.1 The contractor shall be responsible for the design of permanent works as specified in SCC.</p> <p>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.</p> <p>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.</p> <p>23.4 The Project Manager's approval shall not alter the Contractor's responsibility for design of temporary works.</p>
24. Safety, Security and Protection of the Environment	<p>24.1 The Contractor shall, throughout the execution, and completion of the works and remedying of any defects therein:</p> <ol style="list-style-type: none"> 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. 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. 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. Ensure that any cut or fill slopes are planted in grass or other plant

	<p>cover as soon as possible to protect them from erosion.</p> <p>e. Any spoil or material removed from drains shall be disposed of to designated stable tipping areas as directed by the Project Manager.</p> <p>f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works.</p> <p>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.</p> <p>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.</p>
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	<p>28.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.</p> <p>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.</p> <p>28.3 The Contractor shall permit the GoN/NEA and/or persons appointed by the GoN/NEA 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/NEA if required by the GoN/NEA. 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/NEA's inspection and audit rights provided for under this Sub-Clause constitute a obstructive practice subject to contract termination.</p>
29. Dispute	29.1 The Employer and the Contractor shall attempt to settle amicably by direct negotiation any disagreement or dispute arising between them

Settlement	<p>under or in connection with the Contract.</p> <p>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.</p>
30. Procedures for Disputes	30.1 In case of arbitration, the arbitration shall be conducted in accordance with the arbitration procedures published by the Nepal Council of Arbitration (NEPCA) at the place given in the SCC .
B. 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	<p>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.</p> <p>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</p>

	<p>the sequence of the activities.</p> <p>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.</p> <p>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.</p>
35. Extension of the Intended Completion Date	<p>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.</p> <p>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 7 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.</p>
36. Acceleration	<p>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.</p> <p>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.</p>
37. Delays Ordered by the Project Manager	<p>37.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.</p>
38. Management Meetings	<p>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.</p> <p>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</p>

	stated in writing to all who attended the meeting.
39. Early Warning	<p>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.</p> <p>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.</p>
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	<p>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 Completion, and is defined in the SCC. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.</p> <p>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.</p>
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	<p>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.</p> <p>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</p>

	delivery of Materials to the Site separately on the Activity Schedule.
45. Changes in the Contract Price	<p>45.1 In the case of an Unit Rate contract:</p> <p>(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.</p> <p>(b) The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 10 percent, except with the prior approval of the Employer.</p> <p>(c) 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.</p> <p>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.</p>
46. Variations	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>46.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.</p> <p>46.6 In the case of an 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.</p>
47. Cash Flow	47.1 When the Program, or, in the case of a lump sum contract, the Activity

Forecasts	Schedule, is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.
48. Payment Certificates	<p>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.</p> <p>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.</p> <p>48.3 The value of work executed shall be determined by the Project Manager.</p> <p>48.4 The value of work executed shall comprise:</p> <p style="padding-left: 40px;">(a) In the case of an Unit Rate contract, the value of the quantities of work in the Bill of Quantities that have been completed; or</p> <p style="padding-left: 40px;">(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.</p> <p>48.5 The value of work executed shall include the valuation of Variations and Compensation Events.</p> <p>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.</p>
49. Payments	<p>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.</p> <p>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.</p> <p>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.</p>
50. Compensation Events	<p>50.1 The following shall be Compensation Events:</p> <p style="padding-left: 40px;">(a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 26.1.</p> <p style="padding-left: 40px;">(b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.</p> <p style="padding-left: 40px;">(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of</p>

	<p>the Works on time.</p> <p>(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.</p> <p>(e) The Project Manager unreasonably does not approve a subcontract to be let.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(i) The advance payment is delayed.</p> <p>(j) The effects on the Contractor of any of the Employer's Risks.</p> <p>(k) The Project Manager unreasonably delays issuing a Certificate of Completion.</p> <p>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.</p> <p>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.</p> <p>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.</p>
51. Tax	<p>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.</p>
52. Currency	<p>52.1 The currency of Contracts shall be Nepalese Rupees.</p>

<p>53. Price Adjustment</p>	<p>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.</p> <p>53.2 Adjustment Formulae⁴: The formulae will be of the following general type:</p> $pn = A + b \frac{Ln}{Lo} + c \frac{Mn}{Mo} + d \frac{En}{Eo} + etc.$ <p>Where:</p> <p><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;</p> <p>A is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;⁵b, c, d, 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;</p> <p><i>Ln, Mn, En, etc.</i>, 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</p> <p><i>Lo, Mo, Eo, etc.</i>, are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4</p>
	<p>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.</p> <p>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.</p> <p>53.5 Weightings: The weightings for each of the factors of cost given in the</p>

	<p>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.</p>
	<p>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 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:</p> <p>For unexpected increase in price $P = [R_1 - (R_0 \times 1.10)] \times Q$</p> <p>For unexpected decrease in price P $= [R_1 - (R_0 \times 0.90)] \times Q$</p> <p>Where:</p> <p>“P” is price adjustment amount</p> <p>“R₁” is the present price of the construction material (Source of indices shall be those listed in the Bidding forms)</p> <p>“R₀” is the base price of the construction material</p> <p>“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..</p> <p>53.7 The Price Adjustment amount shall be limited to a maximum of the initial Contract Amount as specified in the SCC.</p> <p>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</p>
54. Retention	<p>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.</p> <p>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. On completion of the whole works, the Contractor may substitute retention money with an “on demand” bank guarantee.</p>

55. Liquidated Damages	<p>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.</p> <p>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</p>
56. Bonus	<p>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.</p>
57. Advance Payment	<p>57.1 The Employer shall make advance payment to the Contractor of the amounts stated in the SCC in two equal installments by the date stated in the SCC, against provision by the Contractor of an unconditional bank guarantee from 'A' class commercial Bank 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.</p> <p>57.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses 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.</p> <p>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.</p>
58. Securities	<p>58.1 The Performance Security, including any additional security required as per ITB 35.5 and ITB 40.1, 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 'A' class</p>

	<p>commercial bank acceptable to the Employer, and denominated in Nepalese Rupees. The Performance Security shall be valid until a date 30 days from the date of issue of the Defect Liability Certificate in the case of a bank guarantee.</p> <p>Any additional performance security required as per ITB 35.5 shall be valid until a date 30 days from the date of issue of the certificate of Completion in the case of a bank guarantee.</p> <p>Any additional performance security required as per ITB 40.1 shall be valid until a date 30 days from the date of issue of the certificate of DLP in the case of a bank guarantee.</p> <p>58.2 The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by an "A" class commercial Bank in Nepal.</p>
59. Day works	<p>59.1 If applicable, the Day works 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.</p> <p>59.2 All work to be paid for as Day works 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.</p> <p>59.3 The Contractor shall be paid for Day works subject to obtaining signed Day works forms.</p>
60. Cost of Repairs	<p>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.</p>
F. Force Majeure	
61. Definition of Force Majeure	<p>61.1 In this Clause, "Force Majeure" means an exceptional event or circumstance,</p> <ul style="list-style-type: none"> (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.
	<p>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:</p> <ul style="list-style-type: none"> (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

	<p>usurped power, or civil war;</p> <p>(c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;</p> <p>(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</p> <p>(e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.</p>
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 Minimize Delay	63.1 Each Party shall at all times use all reasonable endeavors to minimize any 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	<p>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</p> <p>(a) an extension of time for any such delay, if completion is or will be delayed, under GCC35 ; and</p> <p>(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 destructed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.</p>

	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 <ul style="list-style-type: none"> (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

	<p>either Party to the other Party of such event or circumstance,</p> <p>(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</p> <p>(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.</p>
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.
69. Taking Over	69.1 The Employer shall take over the Site and the Works within seven days of the Project Manager's issuing a certificate of Completion.
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	<p>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.</p> <p>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.</p>
72. Termination	<p>72.1 The Employer may terminate the Contract at any time if the contractor;</p> <p>a. does not commence the work as per the Contract,</p> <p>b. abandons the work without completing,</p> <p>c. fails to achieve progress as per the Contract.</p> <p>72.2 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.</p> <p>72.3 Fundamental breaches of Contract shall include, but shall not be limited to, the following :</p> <p>(a) The Contractor uses the advance payment for matters other than the contractual obligations,</p> <p>(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</p>

	<p>Project Manager;</p> <p>(c) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;</p> <p>(d) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.</p> <p>(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;</p> <p>(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;</p> <p>(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;</p> <p>(h) the Contractor does not maintain a Security, which is required;</p> <p>(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</p> <p>(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.</p> <p>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.</p> <p>72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience.</p> <p>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.</p>
73. Fraud and Corruption	<p>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.</p> <p>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.</p>

	<p>For the purposes of this GCC 73;</p> <ul style="list-style-type: none"> (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 <ul style="list-style-type: none"> (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/NEA’s inspection and audit rights provided for under GCC28.3.
74. Black Listing	<p>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 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:</p> <ul style="list-style-type: none"> (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	<p>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</p>

	<p>difference shall be a debt payable to the Employer.</p> <p>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.</p> <p>75.3 If the Contract is terminated because of fundamental breach of Contract or for any other fault by the Contractor, the performance security shall be forfeited by the Employer.</p> <p>In such case, amount to complete the remaining works as per the Contract shall be recovered from the Contractor as Government dues.</p>
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	Not Applicable
79. Eligibility	<p>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.</p> <p>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.</p> <p>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.</p>

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 the local District Development Committee (DDC) 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 DDC.
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.

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



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Special Conditions of Contract

A. General	
GCC 1.1 (q)	The Employer is <i>Nepal Electricity Authority, Durbarmarg, Kathmandu</i>
GCC 1.1 (v)	The Intended Completion Date for the whole of the Works shall be <i>Twenty Four Month from the Commencement of the work</i>
GCC 1.1(bb)	The Project Manager is <i>the person authorized in writing by Project Chief of Building and Infrastructure Construction Project, Engineering Service Directorate, Nepal Electricity Authority</i>
GCC 1.1 (ee)	The Site is located at <i>Durbarmarg, Kathmandu within NEA Head Office Compound</i>
GCC 1.1 (hh)	The Start Date shall be <i>within 15 days of signing contract after the issue of commencement of the works by the Employer</i>
GCC 1.1 (ll)	<p>The Works consist of Construction of Corporate Office Building up to Sixteen storey and double basement but this contract is up to ten storey. After approval of EIA, the construction of Corporate Office Building may be up to sixteen floor. The contractor is required to submit bid for the both phase of works as mentioned in section vi scope of the works.</p> <p>The various Works to be carry out are as follows:</p> <ul style="list-style-type: none"> • Earthworks • Micro Pile, Protection Pile and Bore Pile • Raft foundation • Ready Mix Concrete works • Reinforcement works • Brick works • Plywood Formworks • Interior and Exterior Paint • Water supply and sanitary works • Electrical works etc.
GCC 2.2	Sectional Completions are: <i>Not Applicable</i>
GCC 2.3(i)	<p>The following documents also form part of the Contract:</p> <ul style="list-style-type: none"> - Addendum issued (if any) in accordance with ITB 8 - Letter of negotiation - Minutes of negotiation - Construction work schedule submitted by the bidder
GCC 3.1	<p>The language of the contract is ENGLISH</p> <p>The law that applies to the Contract is the law of NEPAL</p>

GCC 14.1	Schedule of other contractors: Not Applicable
GCC 19.1	The minimum insurance amounts and deductibles shall be: <ol style="list-style-type: none"> 1. The minimum cover for loss of or damage to the Works, Plant and Materials is: 110 percent of the Contract Amount. 2. The maximum deductible for insurance of the Works and of Plant and Materials is: 200,000.00 3. The minimum cover for loss or damage to Equipment is : Replacement cost of equipment cost 4. The maximum deductible for insurance of Equipment is: 50,000.00 5. The minimum for insurance of other property is: 2,000,000.00 with unlimited number of occurrences 6. The maximum deductible for insurance of other property is: 50,000.00 7. The minimum cover for personal injury or death insurance <ol style="list-style-type: none"> i. for the Contractor's employees is that specified in the Labor act of Nepal and ii. for other people is :1,000,000.00 per person for 60 persons with an unlimited number of occurrences
GCC 20.1	Site Investigation Reports are: Soil Test Report
GCC 23.1	The following shall be designed by the Contractor: Steel Staircase for emergency exit, Entrance Canopy and Truss for ramp
GCC 26.1	The Site Possession Date(s) shall be: Durbarmarg, Kathmandu within fifteen days from issue of Commencement of Works.
GCC 30.1	The place of arbitration shall be: Kathmandu, Nepal
C. Time Control	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within fifteen 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 NRs. 500,000.00
D. Quality Control	
GCC 42.1	The Defects Liability Period is: 365 days
E. Cost Control	
GCC 49.1	Interest rate of 5% per annum
GCC 53.1	The Contract is subject to price adjustment, and the following information regarding coefficients does 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.
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.
GCC 53.7	The Price Adjustment amount shall be limited to a maximum of: For GoN/NEA Funded: 25 percentage of the initial Contract Amount
GCC 54.1	The proportion of payments retained is: For NEA 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 per day. The maximum amount of liquidated damages for the whole of the Works is 10 Percent of the final Contract Price.
GCC 56.1	Not Applicable
GCC 57.1	The Advance Payments shall be: 20 percent of the Contract Price and shall be paid in two equal installments to the Contractor. The Contractor must commence the Works within 30 days after receiving the first installment of Advance Payment. The second installment of the Advance Payment shall be provided on the basis of Works progress.
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 20 percent 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 period.
GCC 58.1	The Performance Security amount is: as per amount based on ITB 40.1 and amount including an additional amount of 8% of the contract price if the employer has increased the performance security amount according to ITB 35.5
G. Finishing the Contract	
GCC 71.1	The date by which operating and maintenance manuals are required is; within 30 days after the date of completion of the works.
GCC 71.2	The date by which “as built” drawings are required is: within 30 days after the date of completion of the works. The amount to be withheld for failing to produce “as built” drawings and/or Operating and maintenance manuals is: 1,000,000.00
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

	<p>any of the following actions :</p> <ul style="list-style-type: none">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 Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.



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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 **[insert amount in figures and words in Nepalese Rupees]** as corrected and modified in accordance with the Instructions to Bidders is hereby selected as substantially responsive lowest evaluated bid.

Authorized Signature:

Name:

Title:

CC:

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



Handwritten mark or signature.

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 dated**date**for execution of the.....**name of the contract and identification number, as given in the Contract Data/SCC** for the Contract price of Nepalese Rupees [**insert amount in figures and words in Nepalese Rupees**], 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:



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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



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Performance Security

(On letterhead paper of the 'A' class commercial Bank)

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

 Date:

Performance Guarantee No.:.....

We have been informed that **[insert name of the Contractor]** (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 **[insert name of the currency and amount in figures*] (... .. insert 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.....Day of **, and any demand for payment under it must be received by us at this office on or before that date.

.....
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. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee".



Handwritten mark or signature.

Advance Payment Security (On letterhead paper of the 'A' class commercial Bank)

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

Beneficiary: **Name and address of employer**

Date :

Advance Payment Guarantee No.....

We have been informed thathas entered into Contract No. **Name and Address of Employer**.....**name of the Contractor**.....(hereinafter called "the Contractor")..reference number of the Contract.....dated with you, for the execution 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..... name of the currency and amount in figures*...(**amount in words**) is to be made against an advance payment guarantee.

At the request of the Contractor, we..... **name of the Bank** hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of.....name of the currency and amount in figures*.....(**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 used the advance payment for purposes other than the costs of mobilization in respect of the Works.

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 day of **, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

.....
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 expected 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. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee".



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