



# **BIDDING DOCUMENT**

**for**

## **THE PROCUREMENT OF Construction of Graduate Program Building III at Chitlang, Thaha Municipality Ward 9, Bagmati Province**

IFB No. MBUST/W/NCB-01/2080/81

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

**Madan Bhandari University of Science and  
Technology**

**Chitlang, Thaha Municipality Ward 9, Bagmati Province**

Issued on: 2080/4/15 Monday (31 July 2023)

Invitation for Bids No.: MBUST/W/NCB-01/2080/81

NCB No.: 01/2080/81

Contract Identification No.: MBUST/W/NCB-01/2080/81

## Abbreviations

BD .....	Bidding Document
BDF .....	Bidding Forms
BDS .....	Bid Data Sheet
BOQ .....	Bill of Quantities
COF .....	Contract Forms
DP .....	Development Partners
DoLI .....	Department of Local Infrastructure
ELI .....	Eligibility
EQC .....	Evaluation and Qualification Criteria
EXP .....	Experience
FIN .....	Financial
GCC .....	General Conditions of Contract
GoN <sup>1</sup> .....	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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<sup>1</sup> “GoN” word indicates all public entities according to Public Procurement Act, 2063

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## Invitation for Bids

### Madan Bhandari University of Science and Technology

Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal

Invitation for Bids for the Construction of Graduate Program Building III at Chitlang

Contract Identification IFB No.: MBUST/W/NCB-01/2080/81

First Date of publication: 31 July 2023, Monday (2080/4/15)

1. Madan Bhandari University of Science and Technology (MBUST) has received a grant from GoN towards the cost for the Graduate Program Building III at Chitlang, Thaha Municipality, Ward No. 9, Bagmati Province and intends to apply part of the funds to cover eligible payments under the Contract for the Construction of the Graduate Program Building. Bidding is open to all eligible bidders as per Section V of the bidding document.
2. MBUST invites electronic bids from eligible bidders for the construction of the Graduate Program Building III under the National Competitive Bidding – Single Stage Two Envelope Bidding procedures.

**Only eligible bidders with the following specific construction experience should participate in this bidding:**

- a) Minimum Average Annual Construction Turnover of the best 3 years within the last 10 years: **NRs. 233 Million excluding VAT**
  - b) Participation as Prime contractor, management contractor, or subcontractor, in at least One (1) Contract for RCC frame structure building within the last ten (10) years, with a value of at least **NRs 186 Million excluding VAT** that have been successfully or are substantially completed and that are similar to the proposed works.
  - c) Participation as Prime contractor in **one or more** RCC frame structure institutional buildings contract completed **within the original contract period** prior to the applications submission deadline within the last ten (10) years, with a cumulative value of at least **NRs 186 Million excluding VAT**.
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 MBUST, Telephone no. 9840088016 and 9849848053, email: [info@mbust.edu.np](mailto:info@mbust.edu.np) or may visit PPMO e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp) and [www.mbustb.org](http://www.mbustb.org).
  5. A complete set of Bidding Documents may be downloaded from PPMO's e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp). Bidders, submitting their bids electronically, should deposit the non-refundable cost of bidding document NRs. 20,000.00 in the account as specified below  

Name of the Bank	: Nepal Bank Limited, Gabahal, Lalitpur.
Name of Office	: Madan Bhandari University of Science and Technology
Office Account no.	: 01800106701870000001
  6. Pre-bid meeting shall be held at MBUST at 12:00 hours, 21 August, 2023.
  7. Electronic bids must be submitted to the office Madan Bhandari University of Science and Technology through PPMO's e-GP system [www.bolpatra.gov.np/egp](http://www.bolpatra.gov.np/egp) on or before 13:00 hours

on 4 September, 2023 (2080/5/18). Bids received after this deadline will be rejected.

8. The bids will be opened in the presence of Bidders' representatives who choose to attend at 14:00 hours on 4 September, 2023 (2080/5/18), at the office of MBUST. Bids must be valid for a period of 120 (one hundred twenty) *days (i.e. 4 January 2024)* after bid opening and must be accompanied by a scanned copy of the bid security in pdf format amounting to a minimum of **NRs. 6.5 Million**, which shall be valid for 30 days beyond the validity period of the bid (**i.e. 4 February 2024**)
9. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid and bid security shall remain the same as specified for the original last date of bid submission.

# **Part I: BIDDING PROCEDURES**

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## Section I: Instructions to Bidders

<b>A. General</b>	
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 <b>name, identification, and number</b> of lots (contracts) of the National Competitive Bidding (NCB) are <b>provided in the BDS</b>.</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 GoN Funded: In accordance with its annual program and budget, approved by the GoN, the implementing agency <b>indicated in the BDS</b> plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued.</p> <p style="text-align: center;">Or</p> <p>Public Entities' own Resource Funded: In accordance with its annual program and budget, approved by the public entity, the implementing agency <b>indicated in the BDS</b> plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued.</p> <p style="text-align: center;">Or</p> <p>DP Funded: The GoN has applied for or received financing (hereinafter called “funds”) from the Development Partner (hereinafter called “the DP”) <b>indicated in the BDS</b> toward the cost of the project named in the BDS. The GoN intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.</p> <p>2.2 DP Funded: Payment by the DP will be made only at the request of the GoN and upon approval by the DP in accordance with the terms and conditions of the financing agreement between the GoN and the DP (hereinafter called the “Loan/Grant Agreement”), and will be subject in all respects to the terms and conditions of that Loan/Grant Agreement. No party other than the GoN shall derive any rights from the Loan Agreement or have any claim to the funds.</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 style="padding-left: 40px;">(i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly</p>

the actions of another party;

(ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

v) “obstructive practice” means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an investigation; (b) making false statements to investigators in order to materially impede an investigation; (c) failing to comply with requests to provide information, documents, or records in connection with an investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding GoN/DP’s contractual rights of audit or access to information; and

vi) “integrity violation” is any act which violates Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of GoN/DP sanctions, retaliation against whistleblowers or witnesses, and other violations of Anticorruption Policy, including failure to adhere to the highest ethical standard.

(b) the Employer will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the contract;

(c) DP will cancel the portion of the financing allocated to a contract if it determines at any time that representative(s) of the GoN/or of a beneficiary of DP-financing engaged in corrupt, fraudulent, collusive, or coercive practices or other integrity violations during the procurement or the execution of that contract, without the GoN having taken timely and appropriate action satisfactory to DP to remedy the situation.

(d) DP will impose remedial actions on a firm or an individual, at any time, in accordance with DP’s Anticorruption Policy and related Guidelines (as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in DP-financed, -administered, or -supported activities or to benefit from an DP-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and

	<p>(e) The Contractor shall permit the GoN/DP to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the GoN /DP, if so required by the GoN/DP.</p>
	<p>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 :</p> <ul style="list-style-type: none"> <li>(a) give or propose improper inducement directly or indirectly,</li> <li>(b) distortion or misrepresentation of facts,</li> <li>(c) engaging in corrupt or fraudulent practice or involving in such act,</li> <li>(d) interference in participation of other competing bidders,</li> <li>(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,</li> <li>(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,</li> <li>(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.</li> </ul>
	<p>3.3 PPMO, on the recommendation of the Procuring Entity may blacklist a Bidder for a period of one (1) to three (3) years for its conduct including on the following grounds and seriousness of the act committed by the bidder:</p> <ul style="list-style-type: none"> <li>(a) if convicted by a court of law in a criminal offence which disqualifies the Bidder from participating in the contract,</li> <li>(b) if it is established that the contract agreement signed by the Bidder was based on false or misrepresentation of Bidder's qualification information,</li> <li>(c) if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for, or in executing, a GoN/DP-financed contract.</li> <li>(d) if the Successful Bidder fails to sign the Contract.</li> <li>(e) if the bidder fails to inform about the saturation of maximum number of contracts as per ITB 4.10.</li> </ul>
	<p>3.4 A bidder declared blacklisted and ineligible by the GoN, Public Procurement Monitoring Office (PPMO) and/or the DP in case of DP funded project, may be ineligible to bid for a contract during the period of time determined by the GoN, PPMO and/or the DP.</p> <p>3.5 In case of a natural person or firm/institution/company which is already declared blacklisted and ineligible by the GoN, any other new or existing firm/institution/company owned partially or fully by such Natural person or Owner or Board of director of blacklisted firm/institution/company; shall not be eligible bidder.</p>
	<p>3.6 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"> <li>(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 <b>specified in the BDS</b> and</li> <li>(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.</li> </ul>
	<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"> <li>(a) they have controlling shareholders in common; or</li> <li>(b) they receive or have received any direct or indirect subsidy from any of them; or</li> <li>(c) they have the same legal representative for purposes of this bid; or</li> <li>(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</li> <li>(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</li> <li>(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</li> <li>(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.</li> <li>(h) a Bidder that has a close business or family relationship with a professional staff of the Procuring Entity.</li> </ul>
	<p>4.4 A firm that is under a declaration of ineligibility by the GoN in accordance</p>

	<p>with ITB 3, at the date of the deadline for bid submission or thereafter, shall be disqualified. A firm shall not be eligible to participate in any procurement activities under an DP-financed, -administered, or -supported project while under temporary suspension or debarment by DP pursuant to the DP's Anticorruption Policy (see ITB 3), whether such debarment was directly imposed by the DP, or enforced by other DPs pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a temporary suspended or debarred firm will be rejected.</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> <ul style="list-style-type: none"> <li>(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;</li> <li>(b) DP Funded: as a matter of law or official regulation, Nepal prohibits commercial relations with that country, provided that the DP is satisfied that such exclusion does not preclude effective competition for the supply of goods or related services required;</li> <li>(c) DP Funded: a firm sanctioned or temporarily suspended by the DP in relation to their guidelines or appropriate provisions on preventing and combating fraud and corruption in projects financed by them.</li> </ul>
	<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>
	<p>4.9 Maximum number of running contracts that a Bidder, and all parties constituting the Bidder can have shall be as specified in BDS. The bidders shall be considered ineligible if number of running contracts exceeds the number as specified.</p>
	<p>4.10 For the purpose of ITB 4.9 above, the bidder shall declare that the bidder, and all parties constituting the Bidder have not running contracts more than the number as specified in BDS. If the bidder, and all parties constituting the Bidder has participated in bidding processes of many public entities and during that period the maximum number of contracts as specified saturates due to issuance of letters of acceptance by a particular public entity, the bidder shall inform in written to all other concerned public entities, where the bidder have participated in bidding process, within three days of issuance of last letter of acceptance that saturates the maximum number of contracts as specified.</p>
<p>5. Eligible Materials, Equipment and Services</p>	<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</p>

	<p>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 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>
<p><b>B. Contents of Bidding Documents</b></p>	
<p>6. Sections of Bidding Document</p>	<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 style="padding-left: 40px;">Section I Instructions to Bidders (ITB)</p> <p style="padding-left: 40px;">Section II Bid Data Sheet (BDS)</p> <p style="padding-left: 40px;">Section III Evaluation and Qualification Criteria (EQC)</p> <p style="padding-left: 40px;">Section IV Bidding Forms (BDF)</p> <p style="padding-left: 40px;">Section V Eligible Countries</p> <p>PART II Requirements</p> <p style="padding-left: 40px;">Section VI Works Requirements (WRQ)</p> <p style="padding-left: 40px;">Section VII Bill of Quantities (BOQ)</p> <p>PART III Conditions of Contract and Contract Forms</p> <p style="padding-left: 40px;">Section VIII General Conditions of Contract (GCC)</p> <p style="padding-left: 40px;">Section IX Special Conditions of Contract (SCC)</p> <p style="padding-left: 40px;">Section X Contract Forms (COF)</p> <p>6.2 The Invitation for Bids issued by the Employer is not part of the Bidding Document.</p> <p>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.</p> <p>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.</p>
<p>7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting</p>	<p>7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer’s address <b>indicated in BDS</b> 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</p>

	ITB 22.2.
	7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself, on its own risk and responsibility, all information that may be necessary for preparing the bid and entering into a Contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.
	7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
	7.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if <b>provided for in the BDS</b> . The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
	7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer as <b>mentioned in BDS</b> .
	7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting.
	7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
8. Amendment of Bidding Document	8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing agenda.
	8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
	8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2. However, the time available to submit bids shall not be less than five (5) days since amendment in bidding document.
<b>C. Preparation of Bids</b>	
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs,

	<p>regardless of the conduct or outcome of the bidding process.</p>
<p>10. Language of Bid</p>	<p>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 <b>specified in the BDS</b>. 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 <b>specified in the BDS</b>, in which case, for purposes of interpretation of the Bid, such translation shall govern.</p>
<p>11. Documents Comprising the Bid</p>	<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"> <li>(a) Letter of Technical Bid;</li> <li>(b) Bid Security in accordance with ITB 19;</li> <li>(c) alternative Technical Bid, at Bidder’s option and if permissible, in accordance with ITB 13;</li> <li>(d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;</li> <li>(e) documentary evidence in accordance with ITB 17, establishing the Bidder’s qualifications to perform the contract;</li> <li>(f) Technical Proposal in accordance with ITB 16;</li> <li>(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</li> <li>(h) Any other required documents, which is not against the provision of Procurement Act/Regulation/Directives and Standard Bidding Document issued by PPMO as specified in the <b>BDS</b>.</li> </ul> <p>11.3 The Price Bid shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) Letter of Price Bid;</li> <li>(b) completed Bill of Quantities(BoQ), in accordance with ITB 12 and ITB 14, or as stipulated in the BDS;</li> <li>(c) alternative price Bids, at Bidder’s option and if permissible, in accordance with ITB 13;</li> <li>(d) Any other document required in the <b>BDS</b>.</li> </ul> <p>11.4 The Bidder is solely responsible for the authenticity of the submitted documents.</p> <p>11.5 The Technical Bid shall not include any financial information related to the</p>

	Price Bid. A Technical Bid containing such material financial information shall be declared non-responsive.
12. Letter of Bid and Schedules	12.1 The Letters of Technical Bid and Price Bid, Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms in Section IV (Bidding Forms) and in Section VII (Bill of Quantities). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
13. Alternative Bids	13.1 Unless otherwise <b>specified in the BDS</b> , alternative bids shall not be considered.
	13.2 When alternative times for completion are explicitly invited, a statement to that effect will be <b>included in the BDS</b> , 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 <b>specified in the BDS</b> , Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be <b>identified in the BDS</b> 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 and ITB 35.4, bids are invited for individual Contracts or for any combination of Contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual

	<p>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 <b>provided in the BDS</b> 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>
<p>15. Currency of Bid and Payment</p>	<p>15.1 The currency of the bid and payment shall be in Nepalese Rupees.</p>
<p>16. Documents Comprising the Technical Proposal</p>	<p>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.</p>
<p>17. Documents Establishing the Qualifications of the Bidder</p>	<p>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).</p>
<p>18. Period of Validity of Bids</p>	<p>18.1 Bids shall remain valid for the period <b>specified in the BDS</b> after the bid submission deadline date prescribed by the Employer. If the prescribed bid submission deadline date falls on a government holiday, then the next working day shall be considered as the bid submission deadline date. In such case the validity period of the bids shall be considered from the original bid submission deadline date. 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 and to include any additional conditions against the provisions specified in Bid Documents.</p>
<p>19. Bid Security</p>	<p>19.1 The Bidder shall furnish as part of its bid, in original form, a bid security as <b>specified in the BDS</b>. In case of e-submission of bid, the Bidder shall upload</p>

	<p>scanned copy of Bid security letter at the time of electronic submission of the bid. The Bidder accepts that the scanned copy of the Bid security shall, for all purposes, be equal to the original. The details of original Bid Security and the scanned copy submitted with e-bid should be the same otherwise the bid shall be non-responsive.</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"> <li>(a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law or;</li> <li>(b) a cash deposit voucher in the Employer's Account as <b>specified in BDS</b>.</li> </ul> <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 Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law 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>GoN funded :</p> <ul style="list-style-type: none"> <li>(a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 18.2: <ul style="list-style-type: none"> <li>(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;</li> <li>(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.</li> </ul> </li> <li>(b) a Bidder changes the prices or substance of the bid while providing information pursuant to clause 27.1;</li> <li>(c) a Bidder involves in fraud and corruption pursuant to clause 3.1;</li> <li>(d) the successful Bidder fails to: <ul style="list-style-type: none"> <li>(i) furnish a performance security in accordance with ITB 40.1;</li> <li>(ii) sign the Contract in accordance with ITB 41.1; or</li> </ul> </li> </ul>

	<p>(iii) accept the correction of arithmetical errors pursuant to clause 33.1</p> <p>DP funded:</p> <p>The bid security shall be forfeited</p> <p>(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid, except as provided in ITB 18.2; or</p> <p>(b) if the successful Bidder fails to</p> <p>(i) furnish a performance security in accordance with ITB 40.1; or</p> <p>(ii) sign the Contract in accordance with ITB 41.1;</p> <p>(iii) accept arithmetical corrections in accordance with ITB 33.1;</p> <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 <b>“ORIGINAL – TECHNICAL BID”</b> and <b>“ORIGINAL – PRICE BID.”</b> Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked <b>“ALTERNATIVE”</b>. In addition, the Bidder shall submit copies of the bid in the number specified in the BDS, and clearly mark each of them <b>“COPY.”</b> 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 <b>specified in the BDS</b> and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un amended printed literature, shall be signed or initialed by the person signing the bid.</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><b>D. Submission and Opening of Bids</b></p>	
<p>21. Sealing and Marking of Bids</p>	<p>21.1 Unless otherwise <b>specified in BDS</b>, Bidders shall submit their bids by electronic or by mail/by hand/by courier. Procedures for submission, sealing and marking are as follows:</p> <p>(a) Bidders submitting bids by mail, by hand or by courier</p> <p>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</p>

alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as “**ORIGINAL TECHNICAL BID**”, “**ORIGINAL – PRICE BID**”, “**ALTERNATIVE**” and “**COPY No. – TECHNICAL BID**” and “**COPY NO. PRICE BID**” These envelopes containing the original and the copies shall then be enclosed in one single envelope.

(b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in this clause.

- i. The bidder is required to register in the e-GP system <https://www.bolpatra.gov.np/egp> following the procedure specified in e-GP guideline.
- ii. Interested bidders may either purchase the bidding document from the Employer's office as specified in the Invitation for Bid (IFB) or bidders may download the IFB and bidding document from e-GP system.
- iii. The registered bidders need to maintain their profile data required during preparation of bids.
- iv. 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 Certificate	Mandatory	PDF
4.	VAT registration Certificate	Mandatory (for domestic bidders only)	PDF
5.	Business Registration Certificate	Mandatory	PDF
6.	Tax Clearance Certificate/Tax return	Mandatory (for domestic)	PDF

	submission evidence/evidence of time extension	bidders only)	
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] specified in ITB 11.2 (h)	Mandatory (If any)	PDF

**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	Mandatory (If applicable)	Online Forms
4.	Additional Documents specified in ITB 11.3 (d)	Mandatory (If any)	PDF

Note:

- a) The documents specified as “Mandatory” should be included in e-submission and non-submission of the documents shall be considered as non-responsive bid.
  - b) Bidders (all partners in case of JV) should verify/update their profile documents as appropriate for the specific bid before submitting their bid electronically.
- viii. After providing all the details and documents, two separate bid response documents i.e technical bids and price bids will be generated from the system. Bidders are advised to download and verify the response documents prior to bid submission.
  - ix. For verifying the authentic user, the system will send one time password (OTP) in the registered e-mail address of the bidder. System will validate the OTP and allow bidder to submit their bid.
  - x. Electronically submitted bids can be modified and/or withdrawn through system. The bidder may modify their bids multiple times online within bid submission date and time specified in e-GP system. Once a Bid is withdrawn, bidder won’t be able to submit another bid response for the same bid.
  - xi. The Bidder / Bid shall meet the following requirements and conditions for e-submission of bids;
    - aa) The e-submitted bids must be readable through PDF reader.
    - bb) The facility for submission of bid electronically through e-submission is to promote transparency, non-discrimination, equality of access, and

	<p>open competition in the bidding process. The Bidders are fully responsible to use the e- submission facility properly in e-GP system as per specified procedures and in no case the Employer shall be held liable for Bidder's inability to use this facility.</p> <p>cc) When a bidder submits electronic bid through the PPMO e-GP portal, it is assumed that the bidder has prepared the bid by studying and examining the complete set of the Bidding documents including specifications, drawings and conditions of contract.</p> <p>21.2. The inner and outer envelopes shall:</p> <ul style="list-style-type: none"> <li>(aa) bear the name and address of the Bidder;</li> <li>(bb) be addressed to the Employer as provided in BDS 22.1;</li> <li>(cc) bear the specific identification of this bidding process indicated in BDS 1.1; and</li> </ul> <p>21.3 The outer envelope and the inner envelope containing Technical Proposal shall bear a warning not to open before the time and date for the opening of Technical Bid in accordance with ITB 25.1.</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 <b>in the BDS</b>.</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> <ul style="list-style-type: none"> <li>(i) Bids submitted in Hard Copy GoN Funded: <ul style="list-style-type: none"> <li>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</li> </ul> </li> </ul>

	<p>written notice. All notices must be:</p> <ul style="list-style-type: none"> <li>(aa) prepared and submitted in accordance with ITB 20 and ITB 21, and in addition, the respective envelopes shall be clearly marked <b>“WITHDRAWAL”</b>, <b>“MODIFICATION;”</b> and</li> <li>(bb) received by the Employer twenty four hour prior to the deadline prescribed for submission of bids, in accordance with ITB 22.</li> </ul> <p>DP Funded:</p> <p>A Bidder may withdraw or modify its Bid – Technical or Price – after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.2, (except that withdrawal notices do not require copies). The corresponding modification of the Bid must accompany the respective written notice. All notices must be</p> <ul style="list-style-type: none"> <li>i) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked <b>“WITHDRAWAL;”</b> and <b>“MODIFICATION;”</b> and</li> <li>ii) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.</li> </ul> <p>ii) E-submitted bids.</p> <ul style="list-style-type: none"> <li>a) Bidder may submit modification or withdrawal prior to the deadline prescribed for submission of bids through e-GP system by using the forms and instructions provided by the system.</li> </ul>
	<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>GoN Funded:</p> <ul style="list-style-type: none"> <li>(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.</li> <li>(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.</li> </ul> <p>DP Funded:</p> <p>No Bid may be withdrawn or modified in the interval between the deadline for submission of Bids and the expiration of the period of bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid or any extension thereof.</p>
	<p>24.4 Except in case of any modification or correction in bid document made by procuring entity, Bidder may submit request for withdrawal or modification only one time.</p> <p>24.5 In case of hard copy bid, no bid may be withdrawn if the bid has already been modified; except in case of any modification or correction in bid document by procuring entity.</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 <b>specified in the BDS</b> 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-GP system allows the Employer to download the e-submitted technical bid only after bid opening date and time after login simultaneously by at least two members of the Bid Opening Committee.</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 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. Only Technical Bids read out and recorded at bid opening shall be considered for evaluation. No bid shall be rejected at opening of Technical Bids except for late bids, in accordance with ITB 23.1.</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</p>

	<p>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 the following read out and recorded:</p> <ul style="list-style-type: none"> <li>(a) the name of the Bidder;</li> <li>(b) whether there is a modification;</li> <li>(c) the Bid Prices, including any discounts and alternative offers; and</li> <li>(d) any other details as the Employer may consider appropriate.</li> </ul> <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>
<b>E. Evaluation and Comparison of Bids</b>	
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	27.1 To assist in the examination, evaluation, and comparison of the Technical

Bids	<p>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>
28. Deviations, Reservations, and Omissions	<p>28.1 During the evaluation of bids, the following definitions apply:</p> <ul style="list-style-type: none"> <li>(a) “Deviation” is a departure from the requirements specified in the Bidding Document;</li> <li>(b) “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and</li> <li>(c) “Omission” is the failure to submit part or all of the information or documentation required in the Bidding Document.</li> </ul>
29. Examination of Technical Bid	<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 submitted. If any of these documents or information (except alternative Technical Bid which is optional) is missing, the bid shall be rejected.</p>
	<p>29.2 In case of e-submission bids, the Employer shall confirm that all the documents and information requested in ITB 21.1 have been submitted. If any of these documents or information is missing, the bid shall be rejected.</p>
30. Determination of Responsiveness of Technical Bid	<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"> <li>(a) if accepted, would: <ul style="list-style-type: none"> <li>(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;</li> <li>or</li> <li>(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</li> </ul> </li> <li>(b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.</li> </ul>

	<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 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>
	<p>30.6 In Case, a corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV such bidder's bid shall be excluded from the evaluation, if public entity receives instruction from Government of Nepal.</p> <p>30.7 Except in case of e-submission, the Financial Bid of the bidder, which is evaluated as substantially non-responsive in technical bid, shall be returned to the respective bidders.</p>
<p>31. Non-conformities Errors, and Omissions</p>	<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 <b>31.3</b>, such bid shall be considered nonresponsive and shall not be involved in evaluation.</p>
<p>32 Qualification of the Bidder</p>	<p>32.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether Bidders meet the qualifying criteria specified in</p>

	<p>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>
<p>33. Correction of Arithmetical Errors</p>	<p>33.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:</p> <ul style="list-style-type: none"> <li>(a) only for unit price Contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;</li> <li>(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;</li> <li>(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.</li> <li>(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.</li> </ul> <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>
<p>34 Subcontractors</p>	<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 <b>specified in the BDS</b>.</p>
<p>35. Evaluation of Price Bids</p>	<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> <ul style="list-style-type: none"> <li>(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;</li> <li>(b) adjustment for correction of arithmetic errors in accordance with ITB 33.1;</li> <li>(c) adjustment due to discounts offered in accordance with ITB 14.4;</li> <li>(d) adjustment for nonconformities in accordance with ITB 31.3;</li> <li>(e) application of all the evaluation factors indicated in Section III (Evaluation and Qualification Criteria);</li> </ul> <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 lots (Contracts), and to award multiple Contracts to a single Bidder <b>as specified in BDS</b>, 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 <b>or extremely low</b> 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 <b>mentioned in BDS</b> to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract <b>or may consider the bid as non-responsive</b>.</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>
	<p>35.7 In Case, a corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV such bidder’s bid shall be excluded from the evaluation, if public entity receives instruction from Government of Nepal.</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.
<b>F. Award of Contract</b>	
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.
39. Letter of Intent to Award the Contract/Notification of Award	39.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 38.1 within seven days of the selection of the bid, in writing that the Employer has intention to accept its bid and the information regarding the name, address and amount of selected bidder shall be given to all other bidders who submitted the bid.
	39.2 After issuance of the notice under ITB 39.1 if the concerned bidder provides information pursuant to ITB 4.10 regarding saturation of maximum number of contracts, the employer shall disqualify the bidder and shall select the next lowest evaluated Bidder in accordance with ITB 38.1 and notify accordingly as per ITB 39.1.
	39.3 If no bidder submits an application pursuant to ITB 42 within a period of seven days of the notice provided under ITB 39.1, the Employer shall, accept the bid selected in accordance with ITB 38.1 and Letter of Acceptance shall be communicated to the selected bidder prior to the expiration of period of Bid validity, to furnish the performance security and sign the contract within fifteen days.
	39.4 After communicating letter of acceptance under ITB 39.3, if the concerned bidder provides information pursuant to ITB 4.10 regarding saturation of maximum number of contracts, the employer shall reject the bid of that bidder and shall select the next lowest evaluated Bidder in accordance with ITB 38.1 and shall issue the notice accordingly as per ITB 39.1. In such case bid security of the rejected bidder shall not be forfeited.
	39.5 In Case, a corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV such bidder's bid shall be excluded from the evaluation, if public entity receives instruction from Government of Nepal.
40. Performance Security and Line of Credit	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 Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal using Sample Form for the Performance Security included in Section X (Contract Forms), or another form acceptable to the Employer.

	<p>The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.</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><b>Performance Security Amount = [(0.85 x Cost Estimate – Bid Price) x 0.5] + 5% of Bid Price.</b></p> <p>The Bid Price and Cost Estimate shall be exclusive 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 <b><i>District Coordination Committee, District Administration Office, Provincial Treasury and Controller Office and District Treasury and Controller Office</i></b>. The Employer may make arrangements to post the notice into its website, if it has; and if it does not have, into the website of the Public Procurement Monitoring Office, identifying the bid and lot numbers and the following information: (i) the result of evaluation of bid; (ii) date of publication of notice inviting bids; (iii) name of newspaper; (iv) reference number of notice; (v) item of procurement; (vi) name and address of bidder making contract and (viii) contract price</p> <p>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.</p> <p>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.</p>
<p>42. Complaint and Review</p>	<p>42.1 If a Bidder is dissatisfied with the Procurement proceedings or the decision made by the Employer in opening of the price bid or the intention to award the Contract, it may file an application to the Chief of the Public Entity within Seven (7) days of providing the notice under ITB 25.8 and ITB 39.1 by the Public Entity, for review of the proceedings stating the factual and legal grounds.</p>

	<p>42.2 Late application filed after the deadline pursuant to ITB 42.1 shall not be processed.</p>
	<p>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:</p> <p>(a) whether to suspend the procurement proceeding and indicate the procedure to be adopted for further proceedings; or</p> <p>(b) to reject the application.</p> <p>The decision of the chief of Public Entity shall be final for the Bid amount up to the value as stated in 42.4.</p>
	<p>42.4 If the Bidder is not satisfied with the decision of the Public Entity in accordance with ITB 42.3, or the decision is not given within five (5) days of receipt of application pursuant to ITB 42.1, it can, within seven (7) days of receipt of such decision, file an application to the Review Committee of the GoN, stating the reason of its disagreement on the decision of the chief of Public Entity and furnishing the relevant documents, provided that its Bid amount ,equal or more than Rupees Twenty Million (NRs. 20,000,000). The application may be sent by hand, by post, by courier, or by electronic media at the risk of the Bidder itself.</p>
	<p>42.5 Late application filed after the deadline pursuant to ITB 42.4 shall not be processed.</p>
	<p>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.</p>
	<p>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.</p>
	<p>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.</p>
	<p>42.9 The Bidder, filing application pursuant to ITB 42.4, shall have to furnish a cash amount or Bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law equivalent to ten percent (10 %) of amount of bid security in case of complaint against decision pursuant to ITB 25.8 and one percent (1%) of its quoted Bid amount in case of complaint against decision pursuant to ITB 39.1 with the validity period of at least ninety (90) days from the date of the filing of application pursuant to ITB 42.4.</p>
	<p>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.</p>

## Section II: Bid Data Sheet

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

<b>A. General</b>	
ITB 1.1	The number of the Invitation for Bids is: <b><i>MBUST/W/NCB-01/2080/81</i></b>
ITB 1.1	The Employer is: <b><i>Madan Bhandari University of Science and Technology</i></b>
ITB 1.1	The number and identification of lots (contracts) comprising this bidding process is: <b><i>MBUST/W/NCB-01/2080/81</i></b>
ITB 2.1	The name of the Project is <b><i>Construction of Graduate Program Building III</i></b> The DP is <b><i>Not Applicable</i></b> The implementing agency is <b><i>Madan Bhandari University of Science and Technology</i></b> GoN Funded or DP Funded: <b><i>GoN Funded</i></b>
ITB 4.1 (a)	Maximum number of partner in a joint venture shall be : <b><i>3 (three)</i></b>
ITB 4.4	<b><i>For DP: Not Applicable</i></b>
ITB 4.9 & <b><u>4.10</u></b>	Maximum number of running contracts that a Bidder, and all parties constituting the Bidder can have shall be : <b><i>5 (five)</i></b>
<b>B. Bidding Document</b>	
ITB 7.1	For clarification purposes only, the Employer's address is: <b>Attention: Sr. Er. Bidya Ratna Bajracharya</b> Address: Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal Telephone: (+977) 9840088016 and 9849848053 Electronic mail address: <a href="mailto:info@mbust.edu.np">info@mbust.edu.np</a>
ITB 7.4	A Pre-Bid meeting <b><i>shall</i></b> held. Pre-Bid Meeting will <b>Take place at the following date, time and place:</b> Date: 21 August 2023. (2080/5/4) Time: 12:00 Noon Place: Madan Bhandari University of Science and Technology, Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal (Meeting will also be conducted online and updates will be available on university website) A site visit <b><i>shall not be</i></b> organized by the Employer.
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no later than <b><i>10</i></b>

	days prior to the deadline for submission of bids.
<b>C. Preparation of Bids</b>	
ITB 10.1	The language of the bid is: <b>English / Nepali</b>
ITB 11.2 (h)	<p>The Bidder shall submit with its Technical Bid the following additional documents</p> <ul style="list-style-type: none"> <li>(a) Letter of Technical Bid;</li> <li>(b) Up to date firm/company registration certificate.</li> <li>(c) Business Registration licenses.</li> <li>(d) VAT and PAN registration certificate.</li> <li>(e) TAX clearance certificate up to Fiscal year 2077/78.</li> <li>(f) Self-declaration letter stating the bidder as well as any partner of joint venture has not participated in more than five bidding process since 2078-12-03 i.e. March 17, 2022 and currently ongoing public construction work that has not been substantially completed.</li> <li>(g) Bid Security in accordance with ITB 19;</li> <li>(h) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;</li> <li>(i) documentary evidence in accordance with ITB 17, establishing the Bidder's qualifications to perform the contract;</li> <li>(j) Technical Proposal in accordance with ITB 16;</li> <li>(k) In the case of a bid submitted by a JV, the JV agreement, or letter of intent to enter into a JV including a draft agreement, indicating at least the parts of the Works to be executed by the respective partners; and</li> <li>(l) Tax clearance certificate and JV agreements for the verification of the turnover of best three years</li> <li>(m) Construction schedule clearly showing start and finish of all the work items in MS Project or Primevera</li> <li>(n) Method statement clearly describing the process of the construction work to be carried out by the contractor.</li> <li>(o) Project organization chart</li> <li>(p) Personnel Mobilization schedule</li> <li>(q) Equipment schedule</li> </ul>
ITB 11.3 (b)	In accordance with ITB 12 and ITB 14, the following schedules shall be submitted with the bid, including the priced Bill of Quantities for Unit Rate Contracts and Schedule of Prices for lump sum contracts: <b><i>Not Applicable</i></b>
11.3 (d)	The Bidder shall submit with its Price Bid the following additional documents: <b><i>Price Adjustment Data</i></b>
ITB 13.1	Alternative bids <b><i>shall not be</i></b> permitted.
ITB 13.2	Alternative times for completion <b><i>shall not be</i></b> permitted.

ITB 13.4	Alternative technical solutions <b>shall not be</b> permitted for the following parts of the Works.
ITB 14.6	The prices quoted by the Bidder <b>shall be</b> subject to adjustment during the performance of the Contract. <b>Bidder shall submit the Table of Price Adjustment Data as a part of price bid.</b>
ITB 18.1	The bid validity period shall be: <b>One Hundred Twenty (120) days.</b>
ITB 19.1	The Bidder shall furnish a bid security, from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law with a minimum of <b>NRs. 6.5 Million</b> which shall be valid for 30 days beyond the validity period of the bid.
ITB 19.2 (b)	Bank Name: Nepal Bank Limited Branch Name: Gabahal, Lalitpur. Office Name: Madan Bhandari University of Science and Technology Account No.: 01800106701870000001
ITB 20.1	In addition to the original of the bid, the number of copy/ies is/are: <b>Not Applicable</b>
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate:  (a) The name and description of the documentation required to demonstrate the authority of the signatory to sign the Bid such as a Power of Attorney; and  (b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
<b>D. Submission and Opening of Bids</b>	
ITB 21.1	Bidders shall have the option of submitting their bids <b>by electronic only</b>
ITB 22.1	For bid submission purposes only, the Employer's address is : Attention : Prof. Rajendra Dhoj Joshi, President , MBUST Address : Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal The deadline for bid submission is: Date : 4 September 2023 (2080/5/18) Time: 13:00 hours
ITB 25.1	The Technical Bid opening shall take place at : Address: Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal Date : 4 September , 2023 (2080/5/18) Time : 14:00 hours
<b>E. Evaluation and Comparison of Bids</b>	
ITB 34.1	a) Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: <b>Not Applicable</b>

ITB 35.5	The amount of the performance security be increased by <b>Eight (8)</b> percent of the quoted bid price.
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## Section III: Evaluation and Qualification Criteria

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

### 1. Evaluation

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

#### 1.1 Adequacy of Technical Proposal

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

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

#### 1.2 Multiple Contracts (Not Applicable)

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

##### **Award Criteria for Multiple Contracts [ITB 35.4]:**

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

##### **Qualification Criteria for Multiple Contracts:**

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

With respect to the **Contracts of Similar Size and Nature** under item 2.4.2(a) of Section III, the evaluation shall be done as below:

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

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

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

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

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

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

----etc.

**Or**

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

### **1.3 In Case, other than Multiple Contracts**

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

### **1.4 Completion Time**

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

*[Not Applicable]*

### **1.5 Alternative Technical Solutions**

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

*[Not Applicable]*

### **1.6 Quantifiable Nonconformities and Omissions**

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

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

## 2. Qualification

### 2.1 Eligibility

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
<b>2.1.1 Nationality</b>					
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
<b>2.1.2 Conflict of Interest</b>					
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
<b>2.1.3 Government/ DP Eligibility</b>					
Not having been declared ineligible by government /DP, as described in ITB Sub-Clause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
<b>2.1.4 Government-owned Entity</b>					
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
<b>2.1.5 UN Eligibility</b>					
Not having been declared ineligible based on a United Nations resolution or Employer's country law, as described in ITB Sub-Clause 4.8.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Technical Bid

<b>2.1.6 Bidder's Running Contracts</b>					
Bidder's Running Contracts not more than <b>not more than five (5) bidding process since 2078-12-03 i.e. March 17, 2022</b> as described in ITB Sub-Clause 4.9.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	ELI-3
<b>2.1.7 Other Eligibility</b>					
Firm Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Business Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
VAT and PAN Registration certificate ( <i>only for domestic bidders</i> )	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Tax Clearance Certificate/Tax return submission evidence/evidence of time extension for the <b>F/Y 2078/79 (Only for domestic bidders)</b>	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment

## **2.2 Pending Litigation**

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

### **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 <b>50 percent</b> of the Bidder's net worth.	must meet requirement by itself or as partner to past or existing JV	not applicable	must meet requirement by itself or as partner to past or existing JV	not applicable	Form LIT - 1
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**2.3 Financial Situation**

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

**2.3.2 Average Annual Construction Turnover**

Minimum average annual construction turnover of <b>NRs 233 Million</b> calculated as total certified payments received for construction contracts in progress or completed, within best three years out of last ten fiscal years.	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN -2
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Only the net amount shall be calculated after deducting the amount for VAT and such amount shall be adjusted to present value by applying wholesale price index of Nepal Rastra Bank.

<b>2.3.3 Financial Resources</b>					
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 <sup>2</sup> , unencumbered real assets, and other financial resources, (other than any contractual advance payments) to meet the cash-flow requirement of <b>NRs. 70 Million</b>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 3

<b>2.3.4 Required Bid Capacity</b>					
The bidding capacity of the bidder should be equal to or more than the <b>NRs. 250 Million</b>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 4 and Form <u>FIN - 5</u>

## 2.4 Experience

<b>Criteria</b>		<b>Compliance Requirements</b>			<b>Documents</b>
<b>Requirement</b>	<b>Single Entity</b>	<b>Joint Venture</b>			<b>Submission Requirement</b>
		<b>All Partners Combined</b>	<b>Each Partner</b>	<b>One Partner</b>	
<b>2.4.1 General Construction Experience</b>					
Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last Five <b>(5) years</b> prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP - 1

<sup>2</sup> Liquid Assets mean cash and cash equivalents, short-term financial instruments, short term available-for-sale-securities, marketable securities, trade receivables, short-term financing receivables and other assets that can be converted into cash within ONE YEAR.

<b>2.4.2 Specific Construction Experience</b>					
<b>(a) Contracts of Similar Size and Nature</b>					
Participation as Prime contractor, management contractor, or subcontractor, in at least One (1) Contract for RCC frame structure building within the last ten (10) years, with a value of at least <b>NRs 186 Million excluding VAT</b> that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section VI, Works Requirements.	must meet requirement	not applicable	not applicable	must meet requirement	Form EXP – 2(a)
Participation as Prime contractor in <b>one or more</b> RCC frame structure institutional buildings contract completed <b>within the original contract period</b> prior to the applications submission deadline within the last ten (10) years, with a cumulative value of at least <b>NRs. 186 Million excluding VAT.</b>					Form EXP – 2(a) Additional Form-1

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

<b>(b) Construction Experience in Key Activities</b>					
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 in a single building project:	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
Reinforcement:260,200.00 kg					

RCC Works M25 or above: 1,290.00 cu.m.					
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**2.5 Subcontractors (Not Applicable)**

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

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

2.7 (a) Nature of Works that can be sub contracted: (Not Applicable)

## **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 letter head clearly showing the Bidder's complete name and address.

Date: .....

Name of the contract: .....

Invitation for Bid No.: **MBUST/W/NCB-01/2080/81**

To: **Madan Bhandari University of Science and Technology,**  
Chitlang, Thaha Municipality Ward 9, Bagmati Province, 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 **120** days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (d) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB 4.2 and meet the requirements of ITB 3.4,& 3.5
- (e) We are not participating, as a Bidder or as a subcontractor, in more than one Bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers submitted in accordance with ITB 13.
- (f) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by DP, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (g) We are not a government owned entity/We are a government owned entity but meet the requirements of ITB 4.5;<sup>1</sup>
- (h) We declare that, we including any subcontractors or suppliers for any part of the contract do not have any conflict of interest in accordance with ITB 4.3 and we have not been punished for an offense relating to the concerned profession or business.
- (i) We declare that we are solely responsible for the authenticity of the documents submitted by us. The document and information submitted by us are true and correct. If any document/information given is found to be concealed at a later date, we shall accept any legal actions by the Employer.
- (j) We agree to permit the Employer/DP or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by

the Employer.

(k) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the requirements set forth in Section VI (Works Requirement) and our technical proposal, or as otherwise agreed with the Employer.

(l) We declare that we have not running contracts more than five (5)<sup>3</sup> in accordance with ITB 4.9.

Name: .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

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<sup>3</sup> Note: Following contracts shall not be counted for this purpose

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

## 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.: *MBUST/W/NCB-01/2080/81*

To: **Madan Bhandari University of Science and Technology,**  
Chitlang, Thaha Municipality Ward 9, Bagmati Province, 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: [Insert one of the options below as appropriate] or when left blank is the Bid Price indicated in the Bill of Quantities

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

Or

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

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

Add following if Bidding Document provisions applicability of multiple contracts:

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

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

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

[Note:

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

(e) Our bid shall be valid for a period of *[insert validity period as specified in ITB 18.1]* days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(f) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;

(g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract:<sup>4</sup>

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/DP or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Employer.

Name: .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date .....

<sup>4</sup> If none has been paid or is to be paid, indicate "None".

## Table of Price Adjustment Data<sup>5</sup>

[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)			0.15-0.30	
	Materials (c)			0.50-0.65	
	Equipment usage (d)			0.05-0.10	
		Total			1.00

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

- (a) Labor: "National Salary and Wage Rate Index"- "Construction Labor" of Nepal Rastra Bank or rate fixed by District Rate Fixation Committee
- (b) Material:"National Wholesale Price Index" - Construction Materials" of Nepal Rastra Bank
- (c) Equipment usage: "National Wholesale Price Index" - Machinery and Equipment" of Nepal Rastra Bank or "Fuel" Price fixed by Nepal Oil Corporation.

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

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<sup>5</sup> Non-compliance of the data (stipulated by the bidder in this table) with requirements described here shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

# Bid Security

## Bank Guarantee

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

Beneficiary: ..... **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. **MBUST/W/NCB-01/2080/81** ("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).

# **Technical Proposal Format**

Personnel

Equipment

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

## Personnel

### Form PER - 1: Proposed Personnel

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

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

\* As listed in Section VI (Work Requirements).

## Form PER - 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below.

Position*		
Personal Information	Name	Date of Birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager/personnel officer)
	Fax	E-mail
	Job title	Years with present employer

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

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

## Equipment

Form EQU: Equipment

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

**(i) For the equipment under Bidder's ownership**

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

**(ii) For the Equipment to be leased/hired**

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

Type of Equipment		
Equipment Information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <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.**

## **Bidder's Information and Qualification Format**

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

## Bidder's Qualification

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

### Form ELI - 1: Bidder's Information Sheet

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

## Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

<b>JV / Specialist Subcontractor Information</b>	
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"> <li>1. articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.</li> <li>2. Authorization to represent the firm named above, in accordance with ITB 20.2.</li> <li>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.</li> </ol>	

### Form ELI - 3: Bidder's Running Contracts<sup>6</sup>

Each member of a JV must fill in this form

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

- \* Mention GON funded or DP funded or Other PE (Insert name) funded
- \*\* Mention "Yet to sign" if contract is not signed, "Running" if contract has been signed and contract is running and "Substantially completed" if taking over certificate has been issued.
- \*\* Insert date of issuance of taking over certificate if the awarded contract has been substantially completed and taking over certificate has been issued.

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<sup>6</sup>Note: Following contracts shall not be counted for this purpose

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

### 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

<b>Total Assets</b>			
<b>Total Liabilities</b>			
<b>Net Worth</b>			
<b>Current Assets</b>			
<b>Current Liabilities</b>			

### Information from Income Statement

<b>Total Revenues</b>			
<b>Profit Before Tax</b>			
<b>Profit After Tax</b>			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three or above years, as indicated above, complying with the following conditions.
- All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
- Historic financial statements must be audited by a certified auditor.
- Historic financial statements must be complete, including all notes to the financial statements.
- Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

**Form FIN - 2: Average Annual Construction Turnover**

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

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

<b>Annual Turnover Data for the Last 10 Years (Construction only)</b>	
<b>Year</b>	<b>Amount Currency</b>

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

**Form FIN - 3: Financial Resources**

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

<b>Financial Resources</b>		
<b>No.</b>	<b>Source of financing</b>	<b>Amount (in NRS)</b>
1		
2		
3		

**Form FIN – 4: Bid Capacity**

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

**Bid Capacity = [(5 x A) – B]**

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

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

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

**Total Bid Capacity:**

**Signature of Bidder**

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

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

Current Contract Commitments ( For Calculation of B with reference of FIN-3)									
No.	Name of Contract	Name of the Contractor/s	Employer's Contact Address, Tel, Fax	Contract Share in % (a)	Contract Amount in Millions (b)	Contract Date(yyyy-mm) (c)	Initial or Revised Contract Duration (months) (d)	Value of outstanding works [In Millions, NRS] <sup>#</sup> (e)	Estimated Time in Month to Complete the outstanding works (f) = (c) + (d) – Date of Invitation of Bid (f)
1									
2									
3									
4									
5									

#### Signature of Bidder

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

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

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

**Form EXP - 1: General Construction Experience**

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

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

## Form EXP - 2(a): Specific Construction Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
<b>Contract No..... of.....</b>	<b>Contract Identification</b>		
<b>Award Date</b>		<b>Completion Date</b>	
<b>Role in Contract</b>	<input type="checkbox"/> <b>Contractor</b>	<input type="checkbox"/> <b>Management Contractor</b>	<input type="checkbox"/> <b>Subcontractor</b>
<b>Total Contract Amount</b>	<input type="checkbox"/> NRS .....		
<b>If Partner in a JV or subcontractor, specify participation of total contract amount</b>	<b>Percent of Total</b>	<b>Amount</b>	
<b>Employer's Name</b> <b>Address</b> <b>Telephone/Fax Number</b> <b>E-mail</b>			
Description of the similarity in accordance with Criteria 2.4.2 (a) of Section III			
Participation as Prime contractor, management contractor, or subcontractor, in at least One (1) Contract for RCC frame structure building within the last ten (10) years, with a value of at least <b>NRs 186 Million excluding VAT</b> that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section VI, Works Requirements.			
Participation as Prime contractor in <b>one or more</b> RCC frame structure institutional buildings contract completed <b>within the original contract period</b> prior to the applications submission deadline within the last ten (10) years, with a cumulative value of at least <b>NRs 186 Million excluding VAT</b> .			

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

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
<b>Contract No..... of.....</b>	<b>Contract Identification</b>		
<b>Award Date</b>		<b>Completion Date</b>	
<b>Role in Contract</b>	<input type="checkbox"/> <b>Contractor</b>	<input type="checkbox"/> <b>Management Contractor</b>	<input type="checkbox"/> <b>Subcontractor</b>
<b>Total Contract Amount</b>	<input type="checkbox"/> <b>NRS</b> .....		
<b>If Partner in a JV or subcontractor, specify participation of total contract amount</b>	<b>Percent of Total</b>	<b>Amount</b>	
<b>Employer's Name</b> <b>Address</b> <b>Telephone/Fax Number</b> <b>E-mail</b>			
Description of the similarity in accordance with Criteria 2.4.2 (a) of Section III			
<i>Key Production Activities:</i>  1. Reinforcement: 260,200.00 kg  2. RCC Works M25 or above: 1,290.00 cu.m.	<i>Fill in the volume of key production activities</i>		

**Additional Form-1**

**Specific Construction Experience for Completed Building Projects with in Last Ten Years** (to be filled separately by each of the JV partners)

Participation as Prime contractor in **one or more** RCC frame structure institutional buildings contract completed **within the original contract period** prior to the applications submission deadline within the last ten (10) years, with a cumulative value of at least **NRs. 186 Million excluding VAT**.

<b>Specific Construction Experience<sup>7</sup></b>					
<b>Name of Contract</b>	<b>Name of the Contractor</b>	<b>Role in JV, if JV (Prime contractor or management contractor or sub-contractor)</b>	<b>Contract Date (yyyy-mm-dd)</b>	<b>Original date of contract completion (yyyy-mm-dd) as per contract document</b>	<b>Actual date of contract completion (yyyy-mm-dd) as per completion certificate</b>

<sup>7</sup> Notarized copies of the Contract Document showing the agreement date and original completion date and Completion Certificate must be submitted. The Bidder should be able to submit the originals on request. Failure to submit notarized copies or originals on demand will be treated as the lack of evidence of dates referred to in the table.

## **Section V - Eligible Countries**

For GoN funded: **Nepal**

## **Part II : EMPLOYER'S REQUIREMENTS**

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Sample Clause: Equivalency of Standards and Codes.....	<b>Error! Bookmark not defined.</b>
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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, Personnel Requirements and Equipment Requirements.

## **Scope of Work**

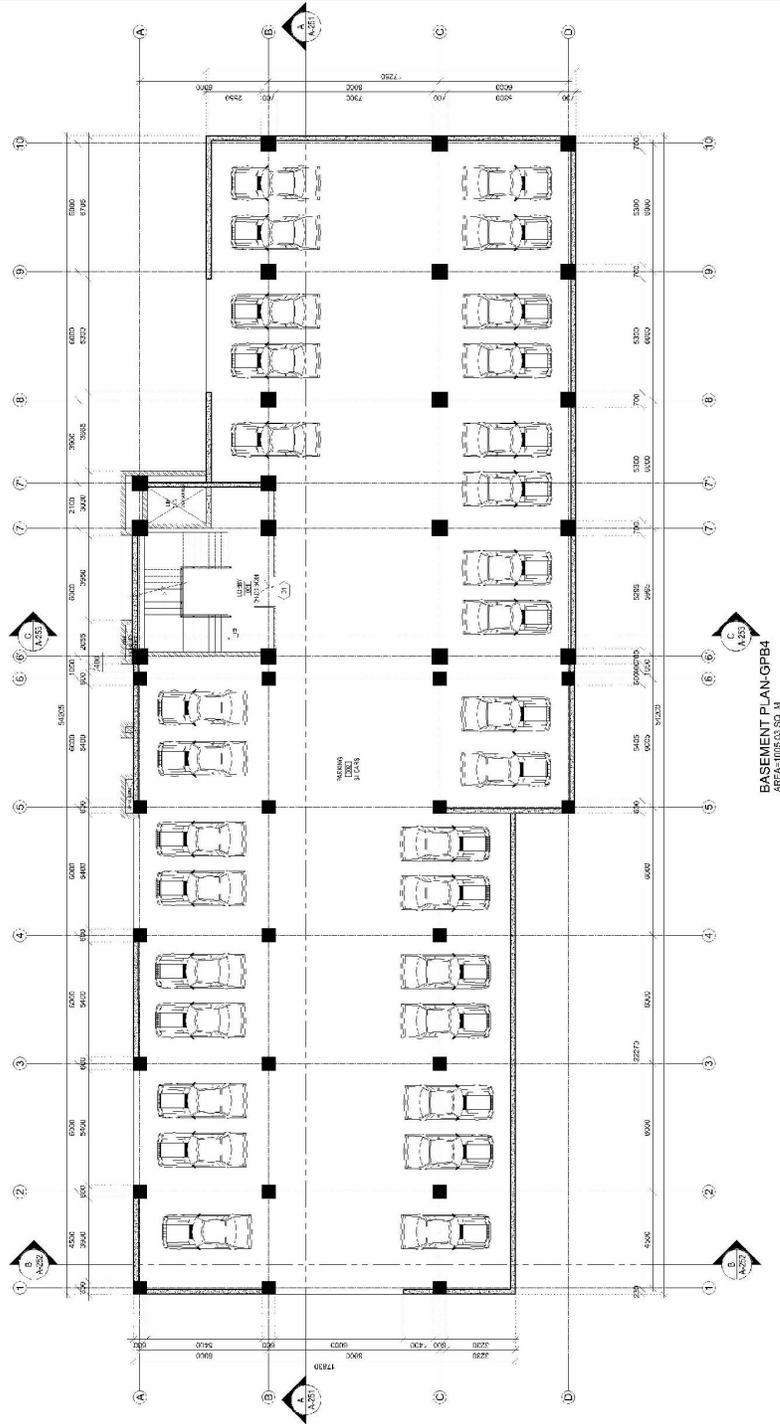
The construction site is located at Chitlang, Thaha Municipality Ward 9, Bagmati Province. The main work is the construction of RCC Frame Structure Graduate Program Building III. Civil works will be accompanied by Sanitary and Plumbing works, Electrical Works including landscaping works etc.

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**Specifications**  
**Attached in Annex I**

## **Drawings**

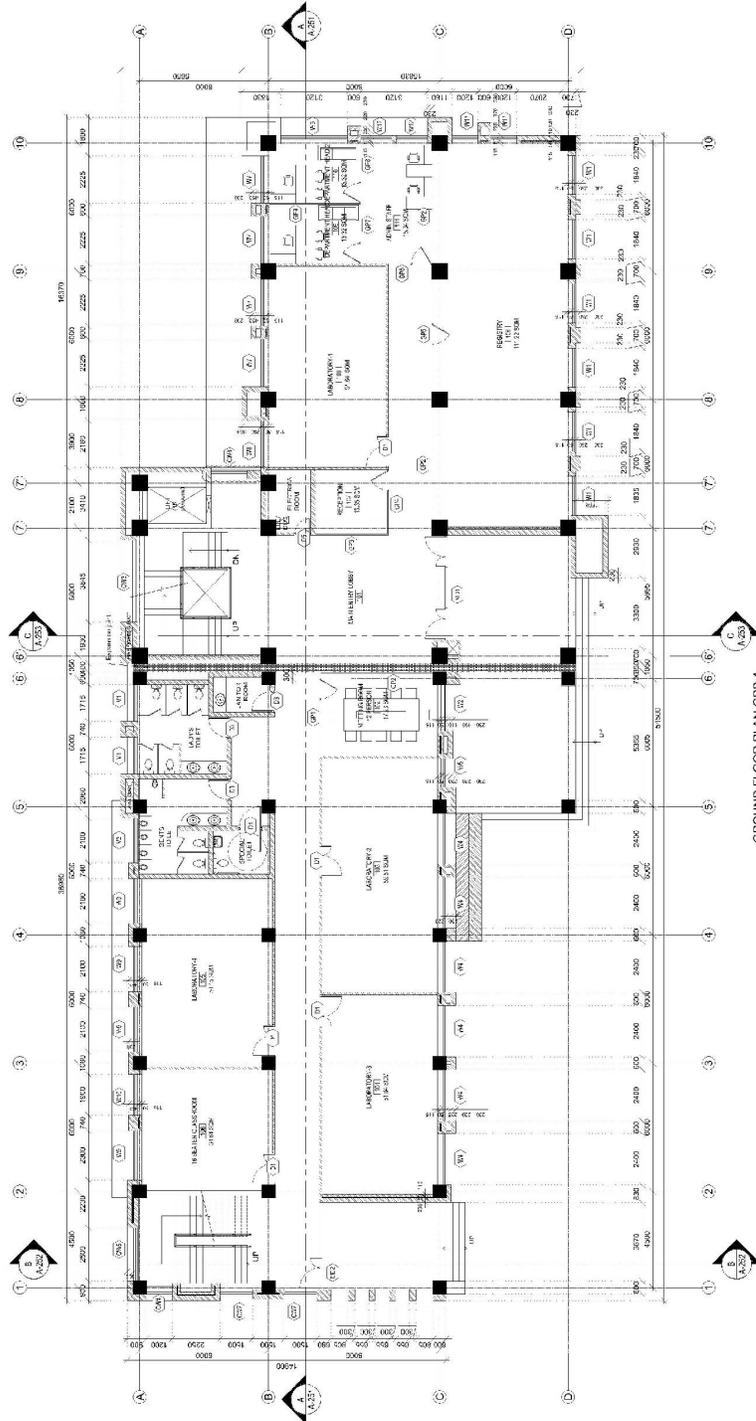
1. It is customary to bind the drawings in a separate volume, which is often larger than other volumes of the contract documents. The size will be dictated by the scale of the drawings, which must not be reduced to the extent that details are reduced illegible.
2. A simplified map showing the location 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.
4. Complete set drawings can be downloaded from <https://mbust.edu.np/>



BASEMENT PLAN-GPB4  
AREA=1083.50 SQ.M

LEGEND

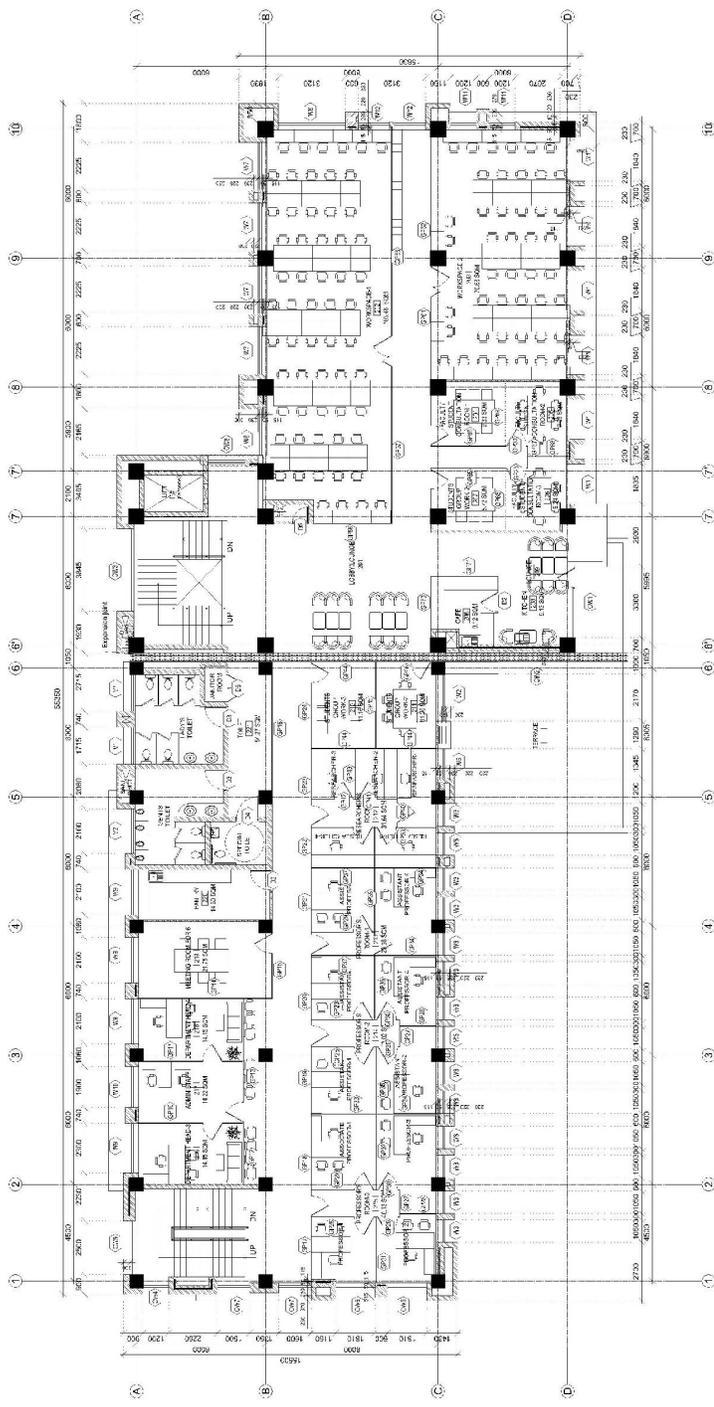
SN	SYMBOL	MATERIAL
1		RCC WALL
2		CEILING (200/100/100) (MM)
3		DEMOUNTABLE PARTITION-FULL HT.
4		DEMOUNTABLE PARTITION-200MM HT.



GROUND FLOOR PLAN-GPB 4  
AREA=8241.15 SQ. M.

LEGEND

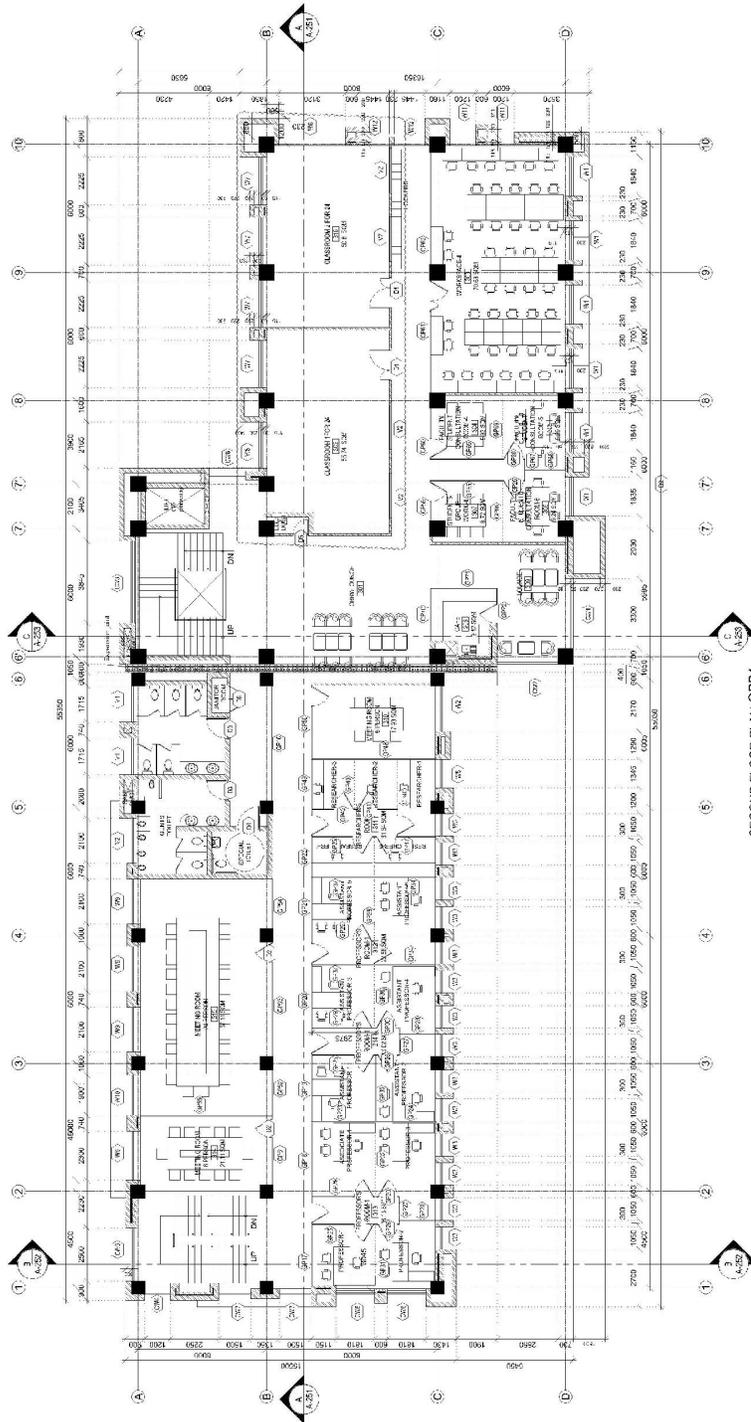
SN	SYMBOL	MATERIAL
1		RCC WALL
2		CSB WALL (20M x 1000 MM)
3		DEMOUNTABLE PARTITION-FULL HT.
4		DEMOUNTABLE PARTITION-2/3RUM HT.



FIRST FLOOR PLAN-GPB 4  
AREA=872.39 SQ. M

**LEGEND**

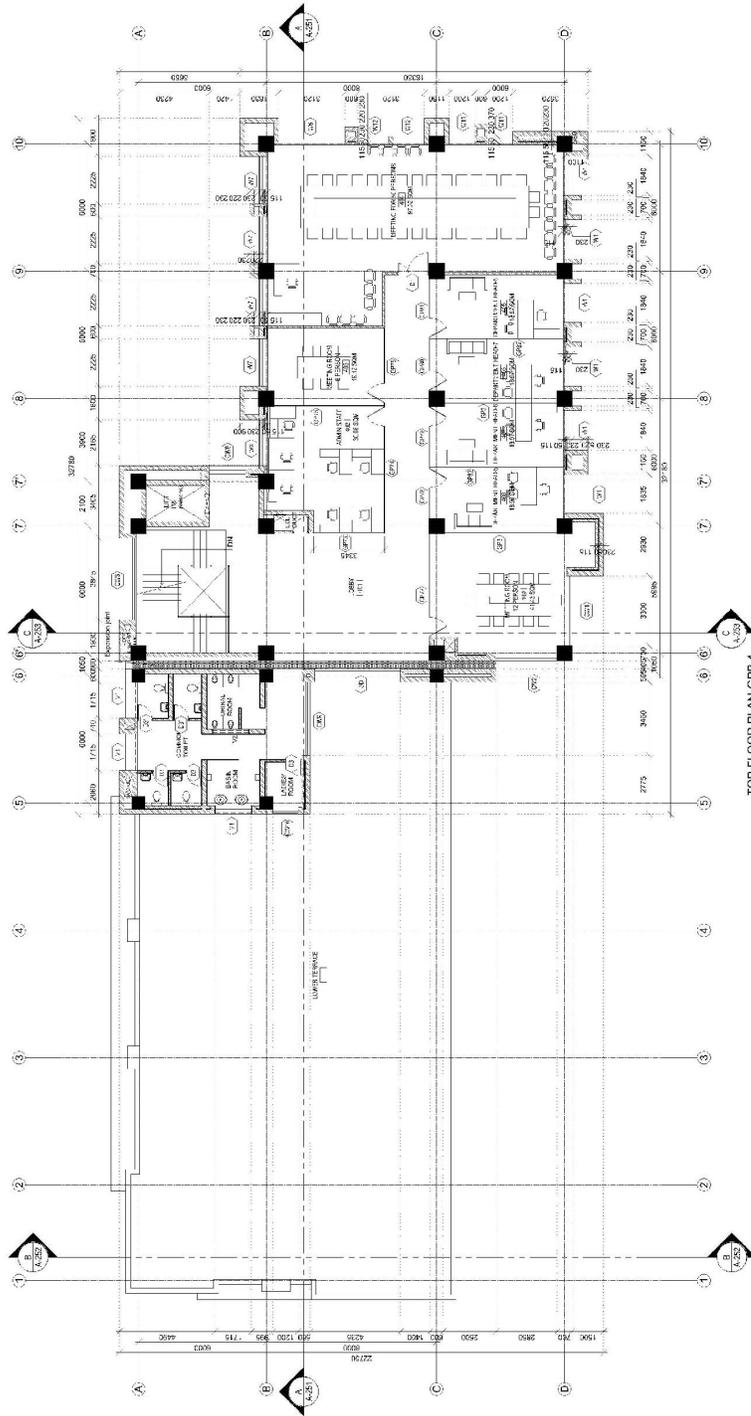
SN	SYMBOL	MATERIAL
1		RCC WALL
2		GSEB WALL(200/100/100 MM)
3		DEMOUNTABLE PARTITION-FULL HT.
4		DEMOUNTABLE PARTITION-2100MM HT.



SECOND FLOOR PLAN-GPB4  
AREA=77.39 SQ. M

LEGEND

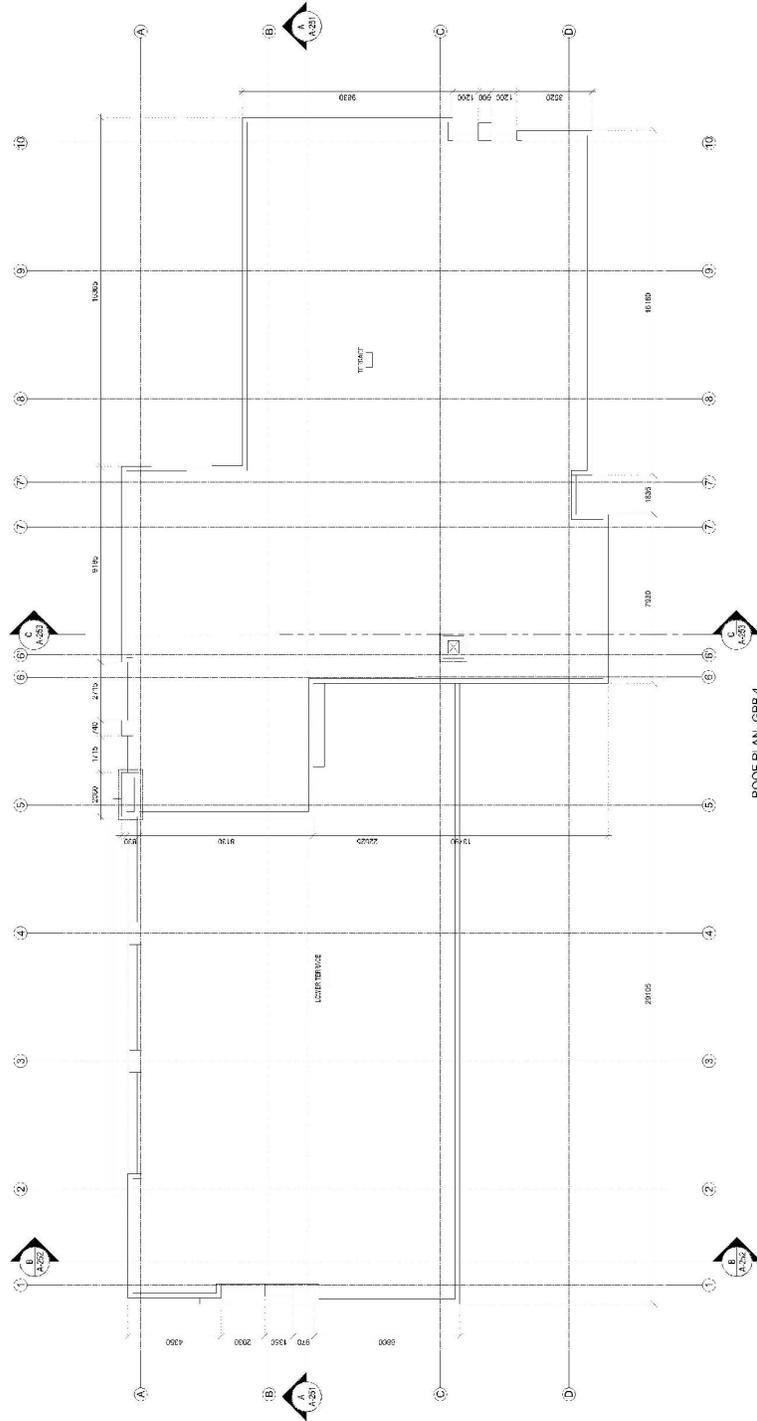
SN	SYMBOL	MATERIAL
1		RCC WALL
2		CSB WALL(200/100/6MM)
3		DEMOUNTABLE PARTITION(ULL HT.)
4		DEMOUNTABLE PARTITION(2100MM HT.)



TOP FLOOR PLAN-GPB 4  
AREA=498.97 SQ. M

LEGEND

SN	SYMBOL	MATERIAL
1		RCC WALL
2		CSEB WALL(200/100/100)
3		DEMOUNTABLE PARTITION-FULL HT.
4		DEMOUNTABLE PARTITION-2100MM HT.

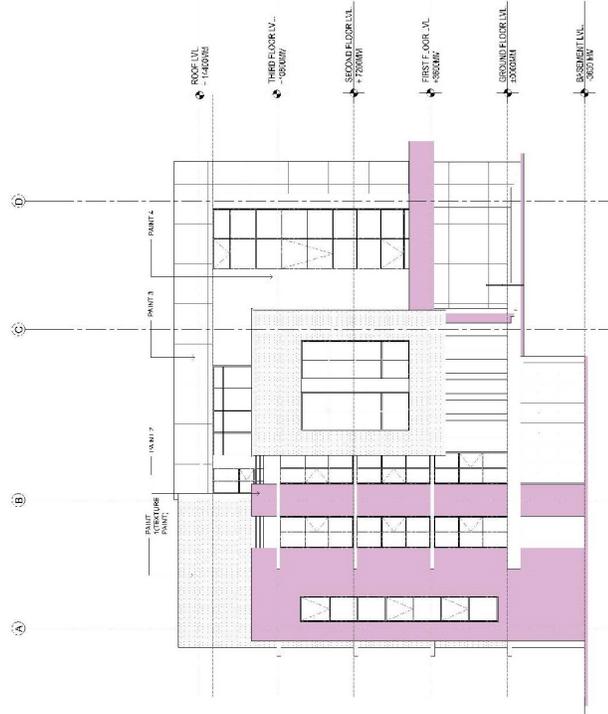


**LEGEND**

SN	SYMBOL	MATERIAL
1		RCC WALL
2		CSEB WALL(230X1100 MM)
3		DEMOUNTABLE PARTITION-FILL HT
4		DEMOUNTABLE PARTITION-2100MM HT







WEST ELEVATION



EAST ELEVATION





## **Supplementary Information**

**Not Applicable**

## Personnel Requirements

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

SN.	Position	Required No.	Academic Qualification	Total Work Experience [Years]	Experience in Similar Works [years]
1.	Project Manager	1	Master's degree in Architecture/ Construction Management/ Civil Engineering/ Engineering Management	7	5
2.	Civil Engineer	1	Bachelor's degree in Civil Engineering	5	3
3.	Architect	1	Bachelor's degree in Architecture	5	3
4.	Electrical Engineer	1	Bachelor's degree in Electrical Engineering	5	3
5.	Civil Sub Engineer	1	Diploma in Civil Engineering	5	3

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).

**Note:**

The managerial and technical competence of a contractor is largely related to the key personnel on site. The extent to which the Bidder should demonstrate having staff with extensive experience should be limited to those requiring critical operational or technical skills. The qualification criteria should therefore refer to a limited number of such key personnel, for instance, the project or contract manager and those superintendents working under the project manager who will be responsible for major components (e.g., superintendents specialized in dredging, piling, tunneling, or earthworks, as required for each particular project).

Criteria of acceptability should be based on:

- (a) a minimum number of years of experience in a similar position; and
- (b) a minimum number of years of experience and/or number of comparable projects carried out in a specified number of preceding years.
- (c) minimum education qualification only in case the position requires. It is appropriate to specify that certain positions are filled by individuals who have held posts of comparable authority for, say, three years with the Bidder, so that key staff in executive site positions have sufficient knowledge of the Bidder's management, policy, procedures, and practices to act with confidence and authority within that framework.

## Equipment Requirements

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

No.	Equipment Type and Characteristics	Min. Number Requirement
1.	Excavator	1 Nos.
2.	Tipper/Trucks	2 Nos.
3.	Two Bag Concrete Mixture Machine	2 Nos.
4.	Concrete Pump minimum 40 m head	2 Nos.
5.	Hoist with capacity of 1 Ton of appropriate height	1 Nos.
6.	Needle Vibrators	5 Nos.
7.	Plate Vibrator	2 Nos.
8.	Water Pumps minimum 2 Hp	2 Nos.
9.	Electrical Generator of minimum 50 KVA	1 Nos.

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)

**Note:**

An inventory of construction equipment represents a high capital cost overhead to a contractor. Consequently, not all competent potential bidders will maintain an inventory of high-value items that are in suitable condition for major contracts. This is particularly so with management contractors, who undertake construction projects mainly by subcontracting. In most cases Bidders can readily purchase, lease, or hire equipment; thus, it is usually unnecessary for the assessment of a contractor's qualification to depend on the contractor's owning readily available items of equipment. The pass-fail criteria adopted should therefore be limited only to those bulky or specialized items that are critical for the type of project to be implemented, and that may be difficult for the contractor to obtain quickly. Examples may include items such as heavy lift cranes and piling barges, dredgers, tunnel boring machines, asphalt mixing plants, etc. Even in such cases, contractors may not own the specialized items of equipment, and may rely on specialist subcontractors or equipment-hire firms. The availability of such subcontractors and of the specified equipment should be subject to verification prior to contract award. The terms of any lease or hire agreement for equipment should preferably include provision that the equipment will remain on the site (or be vested in the Employer) in the event of default of the Contractor, thereby ensuring more timely continuity of work by a replacement contractor

## Section VI: Bill of Quantities<sup>8</sup>

### Notes for Unit Rate Contracts:

#### **Objectives**

*The objectives of the Bill of Quantities are*

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

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

#### **Content**

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

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

#### **Preamble**

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

#### **Work Items**

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

#### **Day work Schedule**

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

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

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<sup>8</sup>In lump sum contracts, delete "Bill of Quantities" and replace with "Schedule of Activities" throughout this section.

### ***Provisional Sums***

*Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager in accordance with the Conditions of Contract.*

### ***Summary***

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

## **Preamble of Bill of Quantities**

### **A. General**

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

documentation shall be made before entering prices against each item in the priced Bill of Quantities. The Specification Clause references where given in the item description of the Bills of Quantities are for the convenience of bidders and generally refer to the principal relevant- specification clause but do not necessarily represent the whole of the specification requirements for the work required within the item. The presence of a Specification clause reference shall not in any way reduce the Bidders obligation to complete work in accordance with all the requirements of the Specification.

8. Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Project Manager in accordance with the Conditions of Contract.
9. The method of measurement of completed work for payment shall be in accordance with the Specifications.
10. The abbreviations and symbols used in this Bill of Quantities are:*[Insert as applicable]*

## **B. Day work Schedule**

### **a)General**

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

### **b) Day work Labor**

1. In calculating payments due to the Contractor for the execution of day works, the hours for labor will be reckoned from the time of arrival of the labor at the job site to execute the particular item of day work to the time of departure from the job site, but excluding meal breaks and rest periods. Only the time of classes of labor directly doing work ordered by the Project Manager and are competent to perform such work will be measured. The time of gangers (charge hands) actually doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.
2. The Contractor shall be entitled to payment in respect of the total time that labor is employed on day work, calculated at the 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

SN.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
<b>A.</b>	<b>Provisional Sum</b>						
1.	Provide insurance for the loss of damage to works, plant, material, equipment, property and personnel injury or death as per specification and instruction all complete.	P.S	1				
<b>B</b>	<b>GENERAL ITEMS</b>						
2.	Provide, erect and maintain project site notice board (2m x 2m) with metal frame, posts and necessary accessories up to the completion of the project as per specifications and instructions of the site engineer all complete.	No	2				
3.	Supplying and laying CGI sheet (0.41mm thick) around the construction area including 50mm dia. black metal pipe post to avoid trespassers as per drawings, specifications and instructions of approved engineer all complete.	Sq.m	377				
4.	Supplying and laying safety net and other necessary accessories/items around the constructing building as per instruction and specification all complete.	Job	1				
5.	Provide & maintain the continuous site surveillances with provision of Close Circuit Security Camera at least 4 numbers for photographic and video graphic records day by day including desktop and other accessories as per instruction & specification all complete.	LS	1				
6.	Provide, operate, maintain and ensure Quality Control Laboratory at site including all necessary equipment, accessories and consumables with manpower for Concrete Test (Cubes or cylinder crushing Test), Brick Test (Brick Crushing Strength Test, Water Absorption Test, Efflorescence Test) and Sieve Analysis as per specification and approval of engineer up to the completion of the project.	Job	1				
7.	Provide laptop of Genuine brand including 8th Gen Core i7 processor, 16 GB RAM, 1TB HDD, 4 GB Graphics and Genuine OS Windows 10 along with the provision of repair and maintenance all complete as per specification and instruction of engineer .	No	1				
8.	Provide as Built Drawing of project (Architectural, Structural, electrical, sanitary & building services) in 1:100 scale 5 sets hard copy including digital copy as per the approval of the engineer up to the completion of project.	Job	1				
9.	Supplying and providing all the safety equipment like helmets, boots, gloves, safety wears, jackets, goggles, masks etc. to the engineers, site supervisors, workers, labors, visitors, official personnel and all the people involved in the construction up to the completion of the constructions as per specifications and instructions all complete.	LS	1				
<b>C.</b>	<b>CIVIL WORKS :-</b>						
10.	Clearing & uprooting thin vegetation, grubbing their roots and disposal far from the construction sites also leveling the surface as per instruction, specification and drawing all complete.	Sq.m	4077				
11.	Earthwork in excavation in perfect line and level using hydraulic excavator in foundations and stacking to the appropriate location near site for refill all complete as per instruction, specification and drawing all complete.	Cu.m	8,092				
12.	Earthwork in manual excavation in Boulder mixed and hard soil in foundation, trenches including	Cu.m	50				

	timbering and shoring & 30m Lead and 1.5 m. lift all complete as per design, drawing, specification and instruction of site Engineer.						
13.	Backfilling of excavated earthwork in layers of 150mm with sprinkling water and compaction in foundation, flower bed, steps etc. as per instruction, specification and drawing all complete.	Cu.m	2,116				
14.	Disposal of excavated soil outside from site area including labour and transportation all complete as per instruction, specification all complete.	Cu.m	6,026				
15.	Dewatering works with the use of pressure pumps during construction phase as per design, drawings, specifications and instructions of the site engineer all complete works.	hrs.	480				
16.	Supplying and applying Pre-construction anti termite treatment by use of chemicals and creating a continuous chemical barrier under and all around the raft, under basement, column pits, wall trenches & shear wall of upper and lower basement floor etc. in contact between building and soil as per drawings, specifications and instructions of the approved engineer all complete.	Sq.m	1,678				
17.	Supplying and applying Gravel packing works in perfect line and level, compaction with 8-10 Ton Smooth Wheeled Roller as per specification, drawing and instruction all complete.	Cu.m	201				
18.	Supplying and laying dry brick flat soling with chimney made bricks with sand filling in joints as per instruction, specification and drawing all complete.	Sq.m	54				
19.	Plain cement concrete in Foundation with cement, sand and crushed aggregate in 1:3:6 ratio including Mixing, laying, curing and finishing all complete as per instruction, specification and drawing.	Cu.m	120				
20.	Plain cement concrete in Foundation with cement, sand and crushed aggregate in 1:2:4 ratio including Mixing, laying, curing and finishing all complete as per instruction, specification and drawing.	Cu.m	173				
21.	Structural concrete in any form, size shape and level for all R.C.C. works with cement, sand and crushed aggregate in Nominal mix 1:1.5:3 ratio (M20) including Mixing, laying, compacting, finishing and curing all complete as per instruction, specification and drawing.	Cu.m	88				
22.	Structural concrete in any form, size shape and level for all R.C.C. works for all structural members with cement, sand and crushed aggregate in Nominal mix 1:1:2 ratio (M25) including Mixing, laying, compacting, finishing and curing all complete as per instruction, specification and drawing.	Cu.m	1,560				
23.	R.C.C works with micro silica admixture by 4% of total cement volume per cu.m, in terrace and shear wall with cement, sand and crushed aggregate in Nominal mix 1:1:2 ratio including super plasticizer @12ltrs per cu.m, mixing, laying, compaction, finishing and curing all complete as per instruction, specification and drawing.	Cu.m	302				
24.	Providing and laying design mixed M30 grade concrete for Reinforced Cement Concrete (R.C.C) works in any form, size shape and level for all R.C.C. works for structural elements like column using Ordinary Portland Cement (OPC) cement, sand, crushed aggregate and approved quantity/brand of admixture @ minimum of 0.6% by wt. of cement (Shalplast, A&A Flowgel or equivalent) including mixing, laying, compacting, finishing and	Cu.m	284				

	curing as per drawing, specification and approval of engineer all complete.					
25.	Providing, straightening, cleaning, cutting, fabricating, bending and placing TMT(Fe 500) for stirrups, ties and main reinforcement bars and binding the bars with 18 gauge annealed wire for tying them at each junction as per design and details for all types of RCC elements including all waste and cut pieces, provision for spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in the intended position at all levels as per drawing, specification and approval of engineer all complete.	Kg	4,33,646			
26.	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C. works of any shape size and at any level with necessary propping scaffolding, staging supporting. Cutting holes for utilization works and removal of formwork and lead up to 30 m etc. all complete as per instruction, specification and drawing. Column	Sq.m	1,728			
27.	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C. works of any shape size and at any level with necessary propping scaffolding, staging supporting. Cutting holes for utilization works and removal of formwork and lead up to 30 m etc. all complete as per instruction, specification and drawing. Beam	Sq.m	2,428			
28.	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C. works of any shape size and at any level with necessary propping scaffolding, staging supporting. Cutting holes for utilization works and removal of formwork and lead up to 30 m etc. all complete as per instruction, specification and drawing. Slab	Sq.m	5,634			
29.	Brick masonry work in (1:4) cement sand mortar up to ground floor with approved quality first class chimney made bricks in perfect line and level including wetting the bricks, packing the joints and curing, with necessary scaffolding work ,including supplying of all materials, labour, lead and lift, Work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	246			
30.	Brick masonry work in (1:4) cement sand mortar above ground floor with approved quality first class chimney made bricks in perfect line and level including wetting the bricks, packing the joints and curing, with necessary scaffolding work, including supplying of all materials, labour, lead and lift, Work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	674			
31.	Stone masonry work in (1:6) cement sand mortar with approved quality stone on up to ground floor in perfect line and level including wetting the bricks, packing the joints and curing, with necessary scaffolding work, including supplying of all materials, labour, lead and lift work as per design, drawings, specifications and instructions of the site engineer all complete works.	Cu.m	609			
32.	Supplying and laying 100 mm diameter high density polyethene pipe (1.703 Avg. wt. kg/m) staggers at 1m c/c all complete as per specification, instruction and drawing.	R.m	583			
33.	Supplying and laying geotextile membrane around the pipe of weep hole of retaining wall all complete as per specification, instruction and drawing.	Sq.m	43			
34.	Providing and fixing Structural Glazing of aluminum	Sq.m	237			

	section in white anodized/powder coated color of section size (60x75+13x1.6 mm) thk. Aluminum Bar, fitted with 5 mm thick toughened colored glass including all the necessary hardware, fittings and accessories all complete. (Average panel area 6.00 Sq. ft.)						
35.	Providing and fixing double glazed sliding window of two leaves with white color section size-101x45x1.5mm frame, Double Glazed Vacuumed Glass 21mm thick (5mm toughened glass +11mm Air Gap+5mm toughened glass) with mosquito net, Roller, Lock, Silicone and all other necessary hardware as per design, drawing, specification and approval of site Engineer.	Sq.m	293				
36.	Providing and fixing double glazed sliding window of three leaves with white color section size-101x45x1.5mm frame, Double Glazed Vacuumed Glass 21mm thick (5mm clear toughened glass +11mm Air Gap+5mm clear toughened glass) with mosquito net, Roller, Lock, Silicone and all other necessary hardware as per design, drawing, specification and approval of site Engineer.	Sq.m	36				
37.	Providing and fixing Structural Glazing with frameless door of aluminum section in white anodized/powder coated color of section size (60x75+13x1.6 mm) 2 mm thk. Aluminum Bar, fitted with 5 mm thick toughened colored glass including all the necessary hardware, fittings and accessories all complete. (Average panel area 6.00 Sq. ft.)	Sq.m	23				
38.	Salwood chaukhat frame works for doors as approved by site in charge including the timber shall be seasoned and matured, Free from wraps, Knots holes and other defects all complete as per specification, instructions and drawing.	Cu.m	1.11				
39.	Providing and fixing non fire rated wooden door a BB 4330, 5 Knuckle, 2 Ball bearing butt hinges size 4" x 3" x 3mm, in SS 304 and in SSS finish, Pure 8100 Type 3 Package with Pair of Antimicrobial with Master Key System with Pure series lever handle Pure 8906 / 8100 /8998 Lever Handle on Roses & escutcheons 7122. Including 271 Sash lock with 78mm CTC, 55mm Backset 20mm Square for end, floor stop half dome with 45mm dia. door will be 40 mm thick Single leaf solid core and resin bound FLUSH DOOR SHUTTERS, conforming to IS 1659 - 1960 and 2202 part I - 1962 as modified unto date BOTH SIDE TEAK veneering factory pressed teakwood lipping as per specification & design around the shutters and fixed to existing frame and as specified including cost of all materials. Equivalent Brand: Dormakaba / Navair / Sumai/ Tostem.	Sqm	65				
40.	Providing and fixing double glazed sliding door white color section size-101x45x1.5mm frame , Double Glazed Vacuumed Glass 21mm thick (5mm clear toughened glass +11mm Air Gap+5mm clear toughened glass) with mosquito net, Roller, Lock, Silicone and all other necessary hardware as per design, drawing, specification and approval of site Engineer.	Sq.m	4				
41.	Providing and fixing Double Panel Casement (Hinged) door of aluminium section in natural or color anodized/powder coated color section size(102x45x1.5 mm) fitted with 5 mm clear glass of 9 mm both side laminated board with necessary	Sq.m	6				

	hardware (Hinges, Mortice Lock, Tower bolt, handle) as per specification, instructions and drawing all complete.						
42.	Toilet partition panel made of HPL (high pressure laminate) board 12mm thickness having Tensile Strength $\geq 60$ as per EN ISO 527-2 standard, Impact $\geq 1800$ as per EN 438-2-21 standard, Fire Performance = B-s1.do as per EN 13501-1:2002 standard including SS 304 grade hardware: handle, hinges, hanging clamp, supported leg (minimum 6" height), bracket, coat hook, lock, lock back. Approved by supplier or manufacturer. Standard size of the cubicle would be 1500 mm x 1000 mm (maximum) x 2000 mm maximum height. Installers have to fix the cubicle as per the site condition and design provided as per drawing. Material should be weather resistant, corrosion resistant, Scratch resistant, UV resistant, dismountable and easy to clean and repair.	Set	21				
43.	Urinal Partition(Division Plate): Toilet partition panel made of HPL (high pressure laminate) board 12mm thickness having Tensile Strength $\geq 60$ as per EN ISO 527-2 standard, Impact $\geq 1800$ as per EN 438-2-21 standard, Fire Performance = B-s1.do as per EN 13501-1:2002 standard including SS 304 grade hardware: bracket screw, Length: 900mm breath: 400 mm	Pcs	18				
44.	Supplying and installation of frameless glass doors aligned with the acoustic fixed glass partition of 10mm thick with door hard wares such as patch fitting with stainless steel cover (Bottom Patch), (Top Patch), (Centre Lock), 304 grade pull handle 450 back to back with 350 mm CTC, adjustable fixing for glass, Length=450mm,-SS304 1, Floor Spring with standard spindle and cover plate, floor stop half dome with 45 mm dia with fixing accessories, in Satin Chrome. Use of 45*30 mm (1.5mm thick) anodized matt black aluminum profiles all around the door and end profile for the center locking and ventilation. Final Certifications of products should be submitted from the product manufacturer for the originality of the product, as per drawings, specification and the supervision of the site engineer all complete. Equivalent Brand: Dormakaba/Tostem/Sumai or equivalent.	Sqm	197				
45.	Providing and fixing of slim acoustic glass partition system using 10 mm thick toughened glass. The anodized aluminum frame of size 45*30 mm with Concealed sealing (No Visible Gaskets/Seals) with acoustic rating of minimum 32 db with third party test certificate and with the thickness not less than 1.5mm excluding 20 micron of anodizing. The use of base profile, support profile, end profile, 90 Degree Profile, junction Profiles as per the design requirements to maintain the stability and acoustic property of system which should be verified by manufacturer itself. Use of 5mm thick H profile instead of silicon in between 2 glass to ensure aesthetic and acoustic. Structure stability test accordance to BS 5234: Part 2:1992 and EN 1991-1-1; 2002 Acoustic test for sound insulation in accordance to DIN EN ISO 10140-2 ASTM-E 90. All profile sections to be manufactured and tested in accordance to EN 573-3, DIN EN 12020 T2. Contractor has to submit the final Material Test Certifications of items mentioned in the BOQ, provided by the manufacturer in its letter head all complete to the consultant and client as per the design, drawings, specifications and the supervision	Sqm	1097				

	of the site engineer. Equivalent brand: Dormakaba, Tostem, Sumai						
46.	Supplying and laying 12.5 mm thick cement plastering work with (1:3) cement sand mortar on ceiling surfaces and beam of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sq.m	3,649				
47.	Supplying and laying 12.5 mm thick cement plastering work in 1:4 cement mortar on walls of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sq.m	7,241				
48.	Providing and laying 2 mm thick plain white Putty on internal walls & ceiling surfaces with proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	7,841				
49.	Providing and laying 2 mm thick waterproof plain white Putty on external walls with proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	2,137				
50.	Providing drip Edge around the edge of all projected slabs above ground floor as per drawing, specification and instructions all complete.	R.m	658				
51.	Supplying and laying pointing works with (1:1) cement sand mortar on stone masonry wall surfaces of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	R.m	256				
52.	Painting work with two coat plastic emulsion paint on inner wall and ceiling surfaces along with one coat of primer with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	7,841				
53.	Supplying and Painting two coat weather proof paint (Apex or equivalent) with one coat primer on outer wall surfaces with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	2,137				
54.	Two coat of Enamel paint over one coat of primer on wooden with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	414				
55.	Supplying and applying approved shade of Pierre De Beton Texture with one coat of polyunder primer, base coat of Hyperion or equivalent by trowel, coat of Hyperion or equivalent by Pierre De Beton tool, color coat of Antica wash by brush including form and top coat of Acropure or equivalent over the exterior plaster surface of any shape, size and height inclusive of surface preparation by providing puttying sanding surface,	Sq.m	912				

	watering (if necessary), cleaning as per drawings, specifications and instructions.					
56.	Supplying and fixing of approved quality non-slip Glaze Vitrified tile on toilet, terrace etc. (Somany, Kazaria, NITCO, Griffine or equivalent) on floor surfaces with boarder of size as per drawing and specification in 1:4 cement sand mortar in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	165			
57.	Supplying and fixing of approved quality full body vitrified tile on inner rooms (Somany, Kazaria, NITCO, Griffine or equivalent) on floor surfaces with boarder of size as per drawing and specification in 1:4 cement sand mortar in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	3,267			
58.	Supplying and fixing of approved quality Ceramic glazed wall tile (Somany, Kazaria, NITCO, Griffine or equivalent) of size as per drawing and specification on wall surfaces with boarder in 1:4 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	337			
59.	Supplying and fixing of approved quality full body vitrified tile (600X600) (Somany, Kazaria, NITCO, Griffine or equivalent) skirting in 1:6 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Rm	1,496			
60.	Supplying and fixing of approved quality Glazed vitrified tile (300X300) (Somany, Kazaria, NITCO, Griffine or equivalent) skirting in 1:6 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Rm	34			
61.	Supplying and laying 16 mm thick granite or equivalent on Floor with 20 mm thick 1:2 cement sand mortar in perfect line and level including polishing as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	319			
62.	Supplying and laying 16 mm thick granite skirting with 12.5 mm thick 1:3 cement sand mortar in perfect line and level including polishing as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	14			
63.	Supplying and laying of granite double nosing including polishing & molding in perfect line and level as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	90			
64.	Supplying and applying 50 mm thick Plain cement screeding work in 1:2:4 with cement, sand and crushed aggregate including mixing, laying, compacting and wetting all complete in perfect line and level as per drawings, specifications and approval of site Engineer.	Sq.m	4,649			
65.	Provide and laying 3mm cement punning cement sand (1:1) including cleaning, watering, curing the laid surface all complete as per instruction & specification.	Sq.m	319			
66.	Supplying and laying 16 mm thick C/S skirting with plaster of 1:4 cement sand mortar and 3mm thick punning in perfect line and level all complete as per instruction, specification and drawing.	R.m	27			
67.	Providing and applying Surface Hardener, Non Metallic, and Abrasion Resistant for Heavily Stressed Areas at the coverage of minimum 5 kg per m <sup>2</sup> as per Specification, Drawing, Instruction of Site Engineer and Manufacture Technical Data Sheet all	Kgs	4,525			

	complete. (Floor Top STD, Shali Floor NM, AC HardTop or Equivalent )						
68.	Making and fitting fixing of stainless steel pipe railing with 50 mm dia. stainless steel pipe handrail 4row 25mm dia. stainless steel pipe in between handrail and floor and 50 mm. dia. stainless steel pipe for vertical post @ 2 m. c/c including welding, cutting all complete as per design, specification and approval of site Engineer.	R.m	70				
69.	Supplying and fixing of Mild Steel pipes of various sections for railing on balcony and parapet, landscape including welding, cutting, fixing all complete as per design, specification and approval of site Engineer.	Kg	3,540				
70.	Supply and installation of GEN2 Lifts Nova_ MRL, VVVF of Otis or equivalent brand with Regenerative drive (Closed Loop), Flat coated steel Belt for traction medium with pulse monitoring device, Voice Synthesizer, false ceiling (CD41) with Cross Flow Fan, Door with 120 min fire rating, ARD and carrying capacity of 15 person gearless passenger lift, 5 stops all complete as per drawing, design, specification and site in charge.	Nos	1				
71.	Providing and fixing metal finish False ceiling board at all heights of size 600 X 600 MM of approved texture design and pattern. The tiles should have durable, electrostatic factory applied polyester coil or power coated finish to meet or exceed EN 13964 and TIAM standards. The tile should have standard color i.e. Global white (12% gloss), Light Reflectance min. 80%. Weight 3.1 - 4.3 kg/m <sup>2</sup> , Fire Performance as per (BS 476 pt.~ 6 & 4 7) standard in true horizontal level suspended on interlocking T - Grid all round galvanized iron section of 0.33 MM thick (galvanized @1 20 gsm) comprising of the tile shall be laid on Armstrong Suprafine channel 32 with 15 mm wide T - section flanges color white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 32 mm all complete as per drawing, design, specification and site in charge.	Sq.m	154				
72.	Providing and fixing mineral fiber false ceiling classic-lite board, size 600 X 600 MM & 16 MM Thickness of approved texture. design and pattern_ The board should have Noise Reduction Coefficient (NRC value) = 0.55, Humidity Resistance (RH) of 99%, Light Reflectance-85%, Thermal conductivity k = 0.052 ~ 0.057 w/m K, Weight 3.1 kg/m <sup>2</sup> , Fire Performance as per BS 476 pt. - 6 & 7 in true horizontal level suspended on 2 interlocking T-Grid all round galvanized iron section of 0.33 MM thick (galvanized @120gsm) comprising of silhouette. The tile shall be laid on Silhouette 15 mm wide, having 6mm black color reveal section on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 32 mm and a load carrying capacity of 14 kg/m <sup>2</sup> with a minimum pull out strength of 90 kg all complete as per drawing, design, specification and site in charge.	Sq.m	2,329				
73.	Supplying and laying of designed gypsum board false ceiling work with proper finishing laid in GI frame in proper grid system all complete work as per design, drawing, specification and instruction of the approved engineer all complete.	Sq.m	95				

74.	Providing and Applying crystalline base waterproofing on shear wall, two layers applied in horizontal and vertical strokes, when each coat is in tacky condition,(Aquafin-IC or equivalent) that can resists 130m from positive and negative side that should match German DVGW worksheets W 347 AND W 270, over the prepared RCC slab and on the vertical surfaces . After 3 days ponding the area with water for 3 days to test water tightness etc. complete.	Sqm	1,148				
75.	Providing and Applying polymer modified acrylic base two component water proofing on toilet floor, terrace, balcony etc., flexible waterproofing coating in two layers applied in horizontal and vertical strokes, when each coat is in tacky condition, Aquafin-2K/M plus or equivalent having Crack-bridging to ASTM C836: > 2.0 mm Elongation, to ASTM D 412-16: ca. 192 % and Water tightness when installed: 2.5 bar meeting the ( ASTM D 412-98 a) over the prepared RCC slab and on the vertical surfaces. After 3 days ponding the area with water for 3 days to test water tightness etc. complete as per drawing, specification and instruction of site engineer all complete.	Sqm	1,492				
76.	Supply and fixing of Spring Thunder (Model EM-400) or equivalent for internal vertical wall expansion joint Aluminium (3mm thick) with movement capacity +200/-355mm, joint width 400mm, material 5052 grade aluminium, anodized finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	R.m	72				
77.	Supply and fixing of Spring Thunder (Model EM-400) or equivalent for external vertical wall expansion joint Aluminium (3mm thick) with movement capacity +200/-355mm, joint width 400mm, material 5052 grade aluminium, anodized finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete. .	R.m	46				
78.	Supply and fixing of Spring Thunder (Model SFFS-400) or equivalent for internal horizontal floor expansion joint (3mm thick galvanized steel) with movement capacity +115/-345mm, joint width 400 mm, finished with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	R.m	100				
79.	Supply and fixing of Spring Thunder (Model SFFS-400) or equivalent for internal horizontal Ceiling expansion joint (3mm thick galvanized steel) with movement capacity +115/-345mm, joint width 400 mm, finished with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	R.m	79				
80.	Supply and fixing of Spring Thunder (Model EM-400) or equivalent external horizontal Roof expansion joint Aluminium (3mm thick) with movement capacity +200/-355 mm, joint width 400mm, material 5052 grade aluminium, anodized finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	R.m	35				
81.	Providing and laying Carpet Dubo in perfect line and level as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	785				
82.	Supplying, and laying of 50 mm thick flagstone with cement sand mortar (1:4) in perfect line and level including packing of joints on joint as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	199				

83.	Supplying, installing & fitting of 3D Steel Letter (SS metal material) with text height 350 mm on the walls with required inscriptions as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	Job	1.00				
84.	Providing and laying 50 mm heavy duty interlocking blocks along landscape area as per design specifications and drawings all complete.	Sq.m	534				
85.	Providing and Supplying sound and thermal insulation (HL series 800 or equivalent) having thermal conductivity 0.030-0.056, Reduction in noise 35% - 95%, Density(kg/m3) 10-30 kg, light weight in which no possibilities of the bacterial and fungal growth, no presence of the harmful chemicals like Formaldehyde binders, ecofriendly product, resistant to Insect and Vermin attack, fire retardant as per design, drawings, specifications, instructions and approval of the site engineer all complete works. Equivalent Brand: Nowofill/STP/Ardex Endura or equivalent.	Sq.m	837				
<b>D.</b>	<b>Sanitary Works</b>						
	<b>Fixtures:</b>						
86.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.) <b>Water Closet set:</b> providing and fixing all complete as per specification and instruction of engineer all complete. Porcelain clay white glaze One Piece Commode, Siphonic double flush with 'S' trap and slow falling seat cover	set	28				
87.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.) <b>Wash Basin Set:</b> Providing, fixing and testing all complete as per specification and instruction of engineer. White glazed earthen ware wash basin size of 510 x 375 mm, under counter type with C.P. brass basin tap, long life 28 mm ceramic cartridge and brass nuts complete as required, Star Light chrome finish, Mousseur smooth body. And SS bottle trap all complete.	set	15				
88.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position	set	7				

	<p>marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Wash Basin Set:</b> providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>White glazed earthenware Wall Hung Hand wash basin) with 15 mm CP/PVC connectors with both ends couplings, 15 mm CP angular cocks - 2 no, 15mm CP Single lever Basin Mixer, 32mm PVC bottle trap, waste coupling with testing and ready for operation as per specifications and site engineer.</p>					
89.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Urinal Set:</b> providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Supply and fixing of Porcelain clay white glazed large flat back Urinal 51x41x38 cm size with CP Push cock, Spreader, testing and ready for operation.</p>	set	19			
90.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Urinal Set:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Supply and fixing of White glazed porcelain clay (68x30) cm Division Plate for Urinal.</p>	set	15			
91.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Sink Set:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Providing all complete set of Kitchen sink stainless steel 1000x500x200mm depth with drain board 1mm thickness with Aerator/swan type sink cock. Sink-Hekken, Divin or equivalent Sink cock- Somany,</p>	set	3			

	Essel or equivalent.						
92.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>15 mm CP commode spray with 1.2 m. Long flexible pipe</p>	set	28				
93.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Looking Mirror Modi guard 600 X 450 mm all complete set.</p>	set	7				
94.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Looking Mirror Modi guard 1800 x 600mm all complete set.</p>	set	8				
95.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware,</p>	set	28				

	Parryware, Classica, Cera or equivalent.)						
	<b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.						
	Providing and commissioning of C.P. Toilet paper holder flap type stainless steel 304. Décor, somany, or equivalent.						
96.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)	set	7				
	<b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.						
	Providing and commissioning of soap tray heavy type stainless steel 304. Décor, somany, plato or equivalent.						
97.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)	set	7				
	<b>Fittings, Valves and Bathroom accessories:</b> Providing and fixing all complete as per specification and instruction of engineer all complete.						
	Providing and commissioning of Soap Dish Décor, Somany, Plato or equivalent.						
98.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)	set	28				
	<b>Fittings, Valves and Bathroom accessories:</b> providing and fixing all complete as per specification and instruction of engineer all complete.						
	Providing and commissioning of CP Robe Hook of heavy stainless steel						
99.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever	set	3				

	<p>required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Fittings, Valves and Bathroom accessories:</b> providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Providing and commissioning of CP Grab bar - 1090mm</p>						
100.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p><b>Fittings, Valves and Bathroom accessories:</b> providing and fixing all complete as per specification and instruction of engineer all complete.</p> <p>Providing and commissioning of CP Grab bar -990 mm</p>	set	3				
101.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, cera or equivalent.)</p> <p><b>Floor Drain set:</b> consisting of uPVC multi-port floor trap.</p>	set	42				
102.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)</p> <p>110 mm cowl vent</p>	rm	5				
103.	<p>Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to</p>	rm	1				

	original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)						
	75 mm cowl vent						
104.	Providing and fixing in position of all fixtures with all necessary work and fittings, complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below. (Hindware, Parryware, Classica, Cera or equivalent.)	set	4				
	<b>Water storage tank:</b> Supplying and fixing all complete.						
	Overhead storage 1000 liters capacity Hilltake or equivalent brand extra heavy Plastic cylindrical vertical water storage tank complete with inter-connection, overflow, washout and vents as per specifications and site engineer instructions.						
105.	<b>Supplying and fixing CPVC FOR WATER SUPPLY:-</b> Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps (M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK	rm	94				
	20 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
106.	<b>Supplying and fixing CPVC FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK	rm	308				
	25 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
107.	<b>Supplying and fixing CPVC FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) NSF MARK	rm	117				
	32 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
108.	<b>Supplying and fixing CPVC FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification	rm	42				

	and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK						
	40 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
109.	<b>Supplying and fixing CPVC FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK	rm	15.00				
	50 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
110.	Supplying and fixing CPVC: - Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps (M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK	rm	285				
	20 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
111.	Supplying and fixing CPVC: - Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK	rm	82				
	25 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
112.	Supplying and fixing CPVC: - Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK	rm	31				
	32 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>						
113.	Supplying and fixing CPVC: - Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard) .NSF MARK	rm	15				

	40 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>					
114.	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer	rm	285			
	20 mm dia.					
115.	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer,	rm	82			
	25 mm dia.					
116.	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer,	rm	31			
	32 mm dia.					
117.	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer,	rm	15			
	40 mm dia.					
118.	Supply and fixing of Valves, CTS Socket all complete as per drawing or as instructed by the Engineer.	no	2			
	<b>Valves: (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK:</b>					
	20 mm dia. CPVC Ball Valve, CTS Socket all complete.					
119.	Supply and fixing of Valves, CTS Socket all complete as per drawing or as instructed by the Engineer.	no	10			
	<b>Valves: (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK:</b>					
	25 mm dia. CPVC Ball Valve, CTS Socket all complete.					
120.	Supply and fixing of Valves, CTS Socket all complete as per drawing or as instructed by the Engineer.	no	16			
	<b>Valves: (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK:</b>					
	32 mm dia. CPVC Ball Valve, CTS Socket all complete.					
121.	Supply and fixing of Valves, CTS Socket all complete as per drawing or as instructed by the Engineer.	no	6			
	<b>Valves: (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK:</b>					
	40 mm dia. CPVC Ball Valve, CTS Socket all complete.					
122.	Supply and fixing of Valves, CTS Socket all complete as per drawing or as instructed by the Engineer.	no	5			
	<b>Valves: (Flow guard (Marvel, Panchakanya, Mangalam) or ISI standard). NSF MARK:</b>					
	50 mm dia. CPVC Ball Valve, CTS Socket all complete.					
123.	<b>Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole):</b> Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement with NS testing the pipe line by the smoke test rectifying the leakage if any, , all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent)	rm	143			
	OD 50mm (6.0 kgf/sq cm) uPVC/PVC					

124.	<b>Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole):</b> Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement with NS testing the pipe line by the smoke test rectifying the leakage if any, , all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD 75mm (6.0 kgf/sq cm) uPVC/PVC	rm	121				
125.	<b>Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole):</b> Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement with NS testing the pipe line by the smoke test rectifying the leakage if any, all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD 110mm (6.0 kgf/ sq cm) uPVC/PVC	rm	174				
126.	<b>Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole):</b> Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement with NS testing the pipe line by the smoke test rectifying the leakage if any, all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) <b>Vertical stack</b> 110mm stack	rm	416				
127.	<b>Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole):</b> Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement with NS testing the pipe line by the smoke test rectifying the leakage if any, all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) <b>Vertical stack</b> 75mm stack	rm	27				
128.	Supply and installation of 6nos solar panel of size 1000x2000 mm complete with 2 nos. of Overhead Hot Water Storage of 300 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. also with stands, pipe connections, valves, testing and ready for operation as per specifications and site engineer instructions.	job	1				
129.	Supply and installation of MS stage for the overhead water tank with ladder and ready for operation as per specifications and site engineer instructions.	set	1				
130.	<b>Supplying and fixing CPVC PIPES FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard). NSF MARK 50 mm dia. CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	3,376				
131.	<b>Supplying and fixing CPVC PIPES FOR WATER SUPPLY:</b> - Chlorinated Poly Vinyl Chloride pipe (Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc.) clamps(M.S plate with nut and bolt with hexagonal	no	25				

	screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard). NSF MARK					
	Valves: (Flow guard (Marvel) or ISI standard). NSF MARK:					
	50 mm dia. CPVC Ball Valve, CTS Socket all complete.					
132.	Soil Waste and rain water Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc. as per requirement, specification and instruction all complete. (Marvel, Mangalam or equivalent)	rm	270			
	Soil waste vent and rain water pipe line of NS testing the pipe line by the smoke test rectifying the leakage if any, all complete as per the specification and instruction all complete.					
	OD 160mm (6.0 kgf/sq. cm) uPVC/PVC					
133.	Supplying and fixing HDPE: - High density polyethylene pipe with fittings/ specials (Tees, elbows, Unions etc.) clamps (M.S plate with nut and bolt with hexagonal screws for clamp in ceiling, wall), nails, including jointing materials, installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction.	rm	745			
	High density polyethylene pipe 160 mm dia.					
134.	Construction of Brick masonry manhole of different internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover, 450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm.	set	30			
	Internal size 450x450 mm					
135.	Construction of Brick masonry manhole of different internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover, 450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm.	set	23			
	Internal size 600x600 mm					
136.	Construction of Brick masonry manhole of different internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover, 450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm.	set	5			
	Internal size 900x900 mm					
137.	Supply, Fixing of Stainless Steel Grease Trap (FOG) Interceptor of 25L and (40x25x25) cm with complete set including testing and ready for operation as per specifications and site engineer instructions all complete.	job	3			
138.	Providing and laying RCC hume pipes (NP2) of size 150mm with or without collars, jointed with stiff mixture of cement mortar (1 cement:2 fine sand).in road crossing drain all complete work as per drawings and the site engineer instruction	rm	50			
139.	Electric centrifugal water pump with motor of capacity 60 liters per minute at 25m head (approx. 1.5HP motor) complete with starter, electric cable, check valve, automatic pump controller with high and low level sensors and cable etc. as per drawings and instruction of engineer.	set	5			
140.	Supply and fixing of Non-Return Valve including jointing materials all complete set as per	set	5			

	specifications and site engineer instruction.						
141.	Supply and fixing of pressure gauge including jointing materials all complete set as per specifications and site engineer instruction.	set	5				
142.	Construction of underground water tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty RCC 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete as per drawing, specifications and instructions. Internal size (6x3x1.5)m	job	1				
143.	Construction of Rain Water Collection Tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty CI 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete as per drawing, specifications and instructions. Rain water Collection Tank 1 (8.33x6x2)m	job	1				
144.	Construction of Rain Water Collection Tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty CI 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete as per drawing, specifications and instructions. Rain water Collection Tank 2 (6x4.2x2)m	job	1				
145.	Construction of Recharge Pit size 2m dia. * 3m depth including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, etc., all complete as per drawing, specifications and instructions.	no	15				
146.	Construction of sump pit (800*800*700)mm internal size including earthwork in excavation, backfilling, flat brick soling, M15 P.C.C, RCC M15 including 12.5 mm cement plaster(1:4) with 3mm thick punning on internal walls, 12 mm dia. rebar, formworks etc., all complete work as per drawing, specification and instruction of engineer. sump pit (800*800*700) mm	No.	2				
147.	Supplying and fixing of Submersible water pump with motor of capacity 7800 liters per hour at 12m head (approx. 1HP motor) with starter, electric cable, check valve, automatic pump controller with high and low level sensors and cable etc., all complete set as per drawing, specification and instruction of engineer.	No.	2				
148.	Supplying and fitting of 50mm UPVC Pipe all complete as per drawing, specification and instruction of engineer.	R.m	38				
149.	<b>Hydrant Systems</b> Landing Valve, Single Outlet Gunmetal Copper Alloy Body conforming EN1982, BS 336:2010 Standard, Kitemark/LPCB approved and certificate required, 65 mm Oblique Flanged inlet, Working Pr. 15 Bar, Flow 8.5 L/s @ 4 Bar, Handwheel Grey Cast Iron to BS EN 1561. Make: Naffco/Tyco/Evesafe/Minimax.	Set	5				
150.	<b>Hose Pipe</b> Single Jacket Fire Hose 2.5" x 15 m. in red color made of synthetic woven textile reinforcement outside and high tensile synthetic rubber from inside to BS 6391. It should be maintenance free and	Set	5				

	should not need drying, unaffected by mildew, rot proof, abrasion resistance and excellent resistance to ozone, along with Gun Metal instantaneous hose coupling male and female type, 63 x 63 with self-locking nut. Make: Naffco/Tyco/Evesafe/Minimax.						
151.	<b>Hydrant Systems</b>	Set	5				
	<b>Nozzle / Branch Pipe</b> Branch pipe handheld, 63 mm, Body & tip aluminum, pipe as polyamide complying BS EN 15182-1:2007 & BS EN 15182-3:2007+A1:2009, BSI Kitemark approved and certificate required, flow control through shut, jet & spray, working pr. 16 Bar, length - 445 mm. Make: Naffco/Tyco/Evesafe/Minimax.						
152.	<b>Hydrant Systems</b>	Set	5				
	<b>Fire Hose Reel</b> Swinging Arm Type automatic, 3/4" dia. x 30 meters. Length, reel dia. 550 mm & depth 230 mm to BS EN671-1 certificate required, working pr. 12 bar, burst pr. 50 bar, inlet stop valve 1" brass in chrome finish. Make: Naffco/Tyco/Evesafe/Minimax.						
153.	<b>Hydrant Systems</b>	Set	5				
	<b>Hose Box</b> Fire Hose Cabinet for Hose Reel & Landing Valve and branch pipe, surface mounted/recessed, Double door. MS powder coated in red colour. Size : 1490 x 720x 280mm Make: Naffco/Tyco/Evesafe/Minimax.						
154.	<b>Hydrant Systems</b>	set	5				
	Providing and fixing standard <b>fireman's axe</b> with heavy rubber handle. Naffco/Tyco/Evesafe/Minimax.						
155.	<b>Fire Hydrant Post</b>	set	2				
	Stand post Two way 3" female inlet connection made of aluminum alloy suitable for installation on underground hydrants to BS336:2010 with screwed inlet threaded male instantaneous connection. Outlet connection 2 x 2 1/2" instantaneous coupling to BS336, test pressure 24 bar. Upper part should be rotatable to 360 degree for operation. It should be BSI Kitemark and certificate required. Make: Naffco/Tyco/Evesafe/Minimax.						
156.	<b>MS pipes</b>	m.	31				
	Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of supports, anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, etc., as per drawings and technical specification complete. Make: Hulas / Mainawati / Rajesh / Jagdamba Equivalent 100 mm dia.						
157.	<b>MS pipes</b>	m.	4				
	Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of supports, anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, etc., as per drawings and technical specification complete. Make: Hulas / Mainawati / Rajesh / Jagdamba Equivalent 65 mm dia.						
158.	<b>MS Pipes</b> Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of	m.	2				

	supports, anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, etc., as per drawings and technical specification complete. Make: Hulas / Mainawati / Rajesh / Jagdamba Equivalent 25 mm dia.						
159.	<b>Painting of MS pipe</b> with metal primer and two coat of RED enamel complete. Make: NS approved. 100 mm dia.	m.	31				
160.	<b>Painting of MS pipe</b> with metal primer and two coat of RED enamel complete. Make: NS approved. 65 mm dia.	m.	4				
161.	<b>Painting of MS pipe</b> with metal primer and two coat of RED enamel complete. Make: NS approved. 25 mm dia.	m.	2				
162.	<b>Ball Valve</b> , full bore, 1" NPT female/female, 42 bar working pressure, brass body and steel handle. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	Nos.	5				
163.	Pressure Gauge, 90 mm dial, 1/4" BSPT, 0-21 Kg/cm2 range direct mounting type with Siphon made of polished SS case, hardened glass window. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	Nos.	1				
164.	<b>Air Release Valve, 1"</b> It should be made of brass, 1" male BSP inlet, 350 PSI test pressure. Make: Shield/Naffco/Tyco/Honeywell	Nos.	1				
165.	<b>Fire Extinguisher, ABC Dry Powder, 6 Kg.</b> It should be mono ammonium phosphate based dry chemical agent with high quality polyester paint CRCA steel, brass nickel plated head, 15 bar working pressure conforming to 97/23/EC (PED). It should be Kitemark/LPCB certified to BS EN3, CR marked and LPCB approval. Fire Rating 34A 183B. It should be supplied with powder coated, factory manufactured wall bracket. Certificates required. Make: Naffco/Tyco/Evesafe/Minimax.	Nos.	6				
166.	<b>Fire Extinguisher, CO<sub>2</sub>, 5 Kg.</b> It should be made of Carbon Steel with outer polyester paint, brass head valve, Test pressure of 250 Bar conforming to 2014/68/EU (PED) & certified to BSI (0086). It should be Kitemark/LPCB certified to BS EN3, CE marked and LPCB approval. Fire Rating 55B. It should be supplied with powder coated, factory manufactured wall bracket. Certificates required. Make: Naffco/Tyco/Evesafe/Minimax.	Nos.	6				
167.	<b>Fire Hydrant Pumping System</b> should be completely skid mounted with MS powder coated frames, pre-wired, pre-piped with all the pumps, pneumatic vessel, control panel etc. mounted on the same single skid. Complete skid mount system should be factory tested and test certificate to be provided. Drawings of the skid system should be submitted. Make: Naffco/Grundfos/Wilo	Set	1				
	<b>Fire Pump, Main, Electrical</b> End Suction, horizontal, back pull out, split casing, dimensions and characteristics conforming to DIN						

	24255 standards, CI-casing, SS-Impeller & Shaft coupled to 380-415 Volt, 3 pH, 2P, 50 Hz, 2950 RPM totally enclosed fan cooled Electrical Motor. Flow: 144 m <sup>3</sup> /hr. Head: 75 mtrs. Make: Naffco/Grundfos/Wilo					
168.	<p><b>Fire Hydrant Pumping System</b> should be completely skid mounted with MS powder coated frames, pre-wired, pre-piped with all the pumps, pneumatic vessel, control panel etc. mounted on the same single skid. Complete skid mount system should be factory tested and test certificate to be provided. Drawings of the skid system should be submitted. Make: Naffco/Grundfos/Wilo</p> <p><b>Fire Pump, Diesel Engine</b> End Suction, horizontal, back pull out, split casing, dimensions and characteristics conforming to DIN 24255 standards, CI-casing, SS-Impeller &amp; Shaft coupled to direct 4-stroke compression ignition type, injection type, mechanical governor type, long multi hole nozzle, in-line, 4 cylinder, 4.085L, 2950 RPM diesel engine. It should have 12V or 24V electric starter motor with vacuum pump. Exhaust system should consists of 90 degree bend, exhaust silencer and flexible exhaust connector. Exhaust pipe of up to 6 m. length (discharge to leave above roof level as per standard) with 50 mm thick glass wool pipe section, covered with aluminium cladding. Day oil tank of 200 l. with first charge of diesel fabricated out of 4mm MS sheet with inlet. Flow: 144 m<sup>3</sup>/hr. Head: 75 m. Make: Naffco/Grundfos/Wilo</p>	Set	1			
169.	<p><b>Fire Hydrant Pumping System</b> should be completely skid mounted with MS powder coated frames, pre-wired, pre-piped with all the pumps, pneumatic vessel, control panel etc. mounted on the same single skid. Complete skid mount system should be factory tested and test certificate to be provided. Drawings of the skid system should be submitted. Make : Naffco/Grundfos/Wilo</p> <p><b>Jockey Pump, Electrical</b> Multistage SS304 vertical pump conforming to ISO2548C/DIN1944/III and EN60034 standards, CI-casing, SS304-Impeller, Shaft, Base coupled to 380-415 Volt, 3 pH, 50 Hz, 2900 RPM, Eff.2, insulation class F, IP55 motor. Flow: 11 m<sup>3</sup>/hr. Head: 75 m. Make: Naffco/Grundfos/Wilo</p>	Set	1			
170.	<p><b>Fire Hydrant Pumping System</b> should be completely skid mounted with MS powder coated frames, pre-wired, pre-piped with all the pumps, pneumatic vessel, control panel etc. mounted on the same single skid. Complete skid mount system should be factory tested and test certificate to be provided. Drawings of the skid system should be submitted. Make: Naffco/Grundfos/Wilo</p> <p><b>Hydroneumatic vessel (pressure tank)</b> Carbon Steel vertical having electrostatic powder coating with flanged inlet connection from pump, connection for drain out, Pressure Gauge, air relief valve etc. complete set suitable for a working pressure of minimum 10 kg/cm<sup>2</sup>. It should be in accordance to 2014/68/EU Pressure Equipment Directive and TS-EN 13831 standards. It should have interchangeable bladder according to DIN</p>	Set	1			

	4807-3 norms, EPDM standard. Capacity:500L Make: Naffco/Grundfos/Wilo/NEMA						
171.	<p><b>Fire Hydrant Pumping System</b> should be completely skid mounted with MS powder coated frames, pre-wired, pre-piped with all the pumps, pneumatic vessel, control panel etc. mounted on the same single skid. Complete skid mount system should be factory tested and test certificate to be provided. Drawings of the skid system should be submitted. Make: Naffco/Grundfos/Wilo</p> <p><b>Fire Electrical Control panel</b> Powder coated 1.8 mm thick GI, floor mounted suitable for 380-415V AC 3 phase 4 wire 50Hz supply system. It should have triangular lock with key, bush pin hinges, IP54. The panel should be suitable for manual and automatic operation of Main fire pump, Jockey Pump &amp; Fire Diesel Engine Pump (To run automatically in case of power failure) complete with push button type water level guards, auto starting system, having Ammeter, Voltmeter, MCCB Aluminium Bus Bars, continuous earth bar, panel separators, protective screens, cable clamping support system, top/bottom cable gland plates for incoming and outgoing cable entries. Make: Naffco/Grundfos/Wilo</p>	Set	1				
172.	Gate Valve 80-100 mm, Flanged, 175 psi, cast iron body, SS stem. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	Nos.	7				
173.	Flexible Coupling 80-100 mm, Flanged. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	Nos.	7				
174.	Pressure Switch, 1/2" NPT with sensitivity adjustment wheel, reinforced diaphragm resists pressure spikes, two conduit entrances as per NFPA. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	Nos.	1				
175.	Float Switch, 2"-4" size, 15-38LPM flow sensitivity range, 450 PSI working pressure, fusion bonded epoxy coated inside as per NFPA. It should be UL listed & FM approved and certificate required. Make: Shield/Naffco/Tyco/Honeywell	No.	1				
176.	Suction Manifold with matching Flanged ends should be made of Heavy C class MS pipes.	Set	1				
177.	Discharge Manifold with matching Flanged Ends should be made of Heavy C class MS pipes.	Set	1				
178.	Electrical Cabling with Conduits and connections approved for fire applications.	Lot	1				
179.	Skid For Fire Pumps made of epoxy coated steel frame.	Lot	1				
180.	Construction of Pump House internal (3x2x3) m. including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, CGI roofing etc. all complete as per drawing, specifications and instructions.	job	1				
181.	Construction of Firefighting water tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, RCC 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete as per drawing, specifications and instructions.	job	1				

	Internal size (6x4.2x2)m						
<u>E.</u>	<b>Electrical Works</b>						
182.	Light, Fan point and 5 Ampere Power Point wiring, with required materials and labour all complete, PVC rigid Conduit for ceiling circuits and concealed for switches and circuits emanating from Main DB or concerned DB. <b>Wires shall be copper, stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata or equivalent</b> Wiring installation for Lights and fans points on Mains/Essential supplies with mains and sub mains running basically under ceiling and on walls for circuits, switch controls for lights and fans and for wall fans/brackets lights with 2 nos. 2.5 + 1 nos. 1.5 sq.mm stranded flexible PVC insulated copper wire in PVC conduit, with all required fixing accessories including chasing/chiseling of wall and making good of the same	Pts	426				
183.	Wiring Power Points for 13/16 A power outlets with 3 nos. 16 ampere 3 Pin Round or 3 - 4 nos. 13 ampere universal pin outlets , in one circuit and supplied from Mains / Essential section of DB, in concealed PVC Conduit with 2*4.0 sq.mm + 1*2.5 sq.mm Stranded PVC insulated copper wires in basically concealed PVC conduit laid in floor and partly under wall for circuits and for terminals including chiseling/chasing of wall and making good of the same including providing Surface Fixed Double lock type Battens for circuits to Outlets under Counters / Work tables in coordination with other concerned trades). <b>Wires shall be copper, stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Pts	298				
184.	Supply and installation of Convenience Outlets with required surface / concealed mounting boxes. <b>All Switches and outlets shall be Modular Fitting Northwest/Schneider/L&amp;T/Legrand make. Samples shall be submitted before installation.</b> 13 amp Universal Pin single Power Socket flush mounted with GI box	Nos.	150				
185.	Supply and installation of Convenience Outlets with required surface / concealed mounting boxes. <b>All Switches and outlets shall be Modular Fitting Northwest/Schneider/L&amp;T/Legrand make. Samples shall be submitted before installation.</b> 16 amp Switch Socket flush mounted with GI box	Nos.	148				
186.	Supply and installation of following light and fan fixtures. <b>All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make. Samples shall be submitted for approval for all types</b> 12 watt Surface mounted LED Down Lighter Fixture, 6" with inbuilt LED driver and all required fixing accessories	Set	96				
187.	Supply and installation of following light and fan fixtures. <b>All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make. Samples shall be submitted for approval for all types</b> 36 watt LED Panel light fixture 2'x2' surface type with inbuilt LED Driver with lumen efficiency>100 lumen/watt	Set	260				
188.	Supply and installation of following light and fan fixtures. <b>All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make. Samples shall be submitted for approval for all types</b> 20 watt LED tube light 1200mm long with inbuilt LED Driver	Set	42				
189.	Supply and installation of following light and fan fixtures. <b>All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make. Samples shall be submitted for approval for all types</b>	Set	18				

	Mirror Light with 10 Watt LED Lamp and Inbuilt LED Driver						
190.	Supply and installation of following light and fan fixtures. <b>All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make. Samples shall be submitted for approval for all types</b> 12" Exhaust Fan with metallic diffuser (Make: <b>Usha/Bajaj/Almonard/ Crompton</b> )	Set	10				
191.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 1 gang switch	Nos.	37				
192.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 2 gang switch	Nos.	29				
193.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 3 gang Switch	Nos.	20				
194.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 4 gang Switch	Nos.	9				
195.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 6 gang Switch	Nos.	5				
196.	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet, with fascia plates, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. <b>All Switches and outlets shall be Modular Fitting Northwest/Scheider/L&amp;T/ Legrand make. Samples shall be submitted before installation.</b> 2 gang 2 way Switch	Nos.	13				
197.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/ brand shall be LVU/</b>	Rm	150				

	<b>Mahalaxmi/ Prime/Janata</b>					
	3.5C 240 Sq.mm Aluminium Armoured Cable as incomer to Main Electrical Panel					
198.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Rm	140			
	4C 150 Sq.mm Aluminium Armoured Cable as incomer to Main Electrical Panel					
199.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Rm	585			
	4*70 Sq.mm XLPE Copper Cable as incomer to MDB					
200.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Rm	240			
	4*10+1x4 sq.mm Copper Cable, unarmoured from MDB to Floor DB's					
201.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Rm	210			
	4*6+1*2.5 sq.mm Copper Cable, unarmoured from MDB to Floor DB's					
202.	Supply, laying and connection of following copper cables/wires with PVC Pipe sleeves. <b>Wires shall be copper, stranded and make/brand shall be LVU/ Mahalaxmi/ Prime/Janata</b>	Rm	490			
	2*6+1*2.5 sq.mm Copper Cable, unarmoured from MDB to Floor DB's					
203.	Fabricating and installing following size of <b>perforated</b> pre galvanized cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required including all fixing and support accessories such as tie rod, anchor bolt etc. all complete	Rm	80			
	150 mm. width x 50 mm. depth x 2 mm. thickness					
204.	Fabricating and installing following size of <b>perforated</b> pre galvanized cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required including all fixing and support accessories such as tie rod, anchor bolt etc. all complete	Rm	75			
	200 mm. width x 50 mm. depth x 2 mm. thickness					
205.	Supply, fabrication and installation of pre galvanized factory built in <b>ladder</b> type cable trays complete with all bends, tees, elbows, reducers etc. with rungs at every 250mm spacing of various width in two tier/three tier/ five tier fashion either on one side of the wall or on two sides of the wall or at other places and paint afterward if required. (All bends & tees shall be of factory built-in of same make as that of tray) including all fixing and support accessories such as tie rod, anchor bolt etc. all complete	Rm	20			
	200 mm tray, 2.0 mm thick, (25x75x25 side channel) (rung - 15 x35 x 15 mm)					
206.	Supply, fabrication and installation of pre galvanized factory built in <b>ladder</b> type cable trays complete with all bends, tees, elbows, reducers etc. with rungs at every 250mm spacing of various width in two tier/three tier/ five tier fashion either on one side of the wall or on two sides of the wall or at other places	Rm	20			

	and paint afterward if required. (All bends & tees shall be of factory built-in of same make as that of tray) including all fixing and support accessories such as tie rod, anchor bolt etc. all complete						
	300 mm tray, 2.0 mm thick, (25x75x25 side channel) (rung - 15 x35 x 15 mm)						
207.	Supply and embedding of Earth station comprising of 600mm*600mm*3.15mm copper plate, as earth electrode, approx. and average 18m long 35Sq.mm Cu Wire, in PVC Pipe sleeve, as earth lead brazet to electrode and leading to Main DB and system, with perforated GI Pipe connected to electrode in series for reinforcement of earth resistance and also for watering purpose including pipe making and refilling in layers of compacted earth after filling to the top brim of electrode with alternate layers of salt and charcoal, all complete together with making of RCC Slab covered watering chamber of minimum 300*300*300mm brick masonry ( in C/S Mortar) chamber	Set	3				
208.	Supply and installation of class A "ESE Lightning protection Device for building protection as per standard NFC-17-102.It should made of stainless steel with a delta T of 60 microseconds. The device shall be installed at a height of 4 m. from the roof of the building using a GI mast. The device shall be connected to the Earth pit using the copper tape of 25 x 3 mm. This copper tape shall run firmly along the side of the mast with the help of spacers. It shall be ensure that this down conductor shall not touch the building throughout. The down conductor shall be connected to the earth electrodes using clamps. <b>(Make: Schirtek, ALLTEC, LPI, ABB.)</b>	Set	1				
209.	Lightning pad set with stay wire, GI pole, metal grip, saddle, connector grip and soldering etc.	Set	1				
210.	Lightning Strike Counter	Set	1				
211.	Copper strip fiber clamp, screw, grip with 2 volt type.(c-curve)	Set	1				
212.	25 mm Cu strip 3 MM thickness with Cu clamp accessories all complete	Rm	120				
213.	Design, fabrication, assembling, supply, installation, testing and commissioning of Earth box size L 450mm x W 300mm x D 150 mm made out of pre-galvanized sheets 1.2mm sheet steel and glazed steel door with acrylic, enclosure with 25x6 tinned cu strip with 10 holes & brass nut bolt & washer.	Set	1				
214.	Supply, installation, testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards, as per Distribution Diagram, fabricated out of 16SWG CRCA Sheet, double covered, hinged and lockable, provided with 2 coats each of Primer and Epoxy/Duco paints after 7 tank treatment and comprising of following. <b>MCCB, MCB shall be Schneider/Siemens/Lawson/Legrand. The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus.</b>	Set	1				
	<b>Main Distribution Board(MDB), to be installed comprising of the followings</b>						
	1 no. of 400A TPN MCCB, 36kA as incomer						
	3 nos. of 40A TPN MCCB, 25kA as incomer						
	4 nos. 32A TP MCCB, 25kA						
	12 nos. 25A TP MCCB, 25kA						
	4 nos. 25A TP MCB, 10kA						

	8 nos. 16A TP MCB, 10kA					
	44 nos. 16A DP MCB, 10 kA					
	1* 25 kA Surge Protection Device					
	Ammeter, Voltmeter with selector switches and appropriate CT's for Ammeter, RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.					
	100A TPNE Copper Bus on hylam insulation supports- 3 sets					
	800A TPNE Copper Bus on hylam insulation supports- 1 sets					
215.	Supply, installation, testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards, as per Distribution Diagram, fabricated out of 16SWG CRCA Sheet, double covered, hinged and lockable, provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. <b>MCCB, MCB shall be Schneider/Siemens/Lawson/Legrand. The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus.</b>	Set	1			
	<b>DB-BA, comprising of following</b>					
	4 nos. 16A DP MCB as Incomer					
	12 nos. 6/16A SP MCB outgoing for Light, Power and Spare circuits					
	60A TPNE Copper Bus on hylam insulation supports-4 sets					
	Ammeter, Voltmeter with selector switches and appropriate CT's for Ammeter, RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.					
216.	Supply, installation, testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards, as per Distribution Diagram, fabricated out of 16SWG CRCA Sheet, double covered, hinged and lockable, provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. <b>MCCB, MCB shall be Schneider/Siemens/Lawson/Legrand. The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus.</b>	Set	4			
	<b>Typical DB-GF/1, DB-GF/2, DB-FF/1 &amp; DB-SF/1</b>					
	<b>Comprising of following</b>					
	4 nos. 16A DP MCB as Incomer					
	24 nos. 6/16A SP MCB outgoing for Light, Power and Spare circuits					
	60A TPNE Copper Bus on hylam insulation supports- 4 sets					
	Ammeter, Voltmeter with selector switches and appropriate CT's for Ammeter, RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.					
217.	Supply, installation, testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards, as per Distribution Diagram, fabricated out of 16SWG CRCA Sheet, double covered, hinged and lockable, provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. <b>MCCB, MCB shall be Schneider/Siemens/Lawson/Legrand. The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus.</b>	Set	3			
	<b>Typical DB-FF/2, DB-SF/2 &amp; DB-TF, Comprising of following</b>					

	4 nos. 25A TP MCB as Incomer					
	48 nos. 6/16A SP MCB outgoing for Light, Power and Spare circuits					
	60A TPNE Copper Bus on hylam insulation supports- 4 sets					
	Ammeter, Voltmeter with selector switches and appropriate CT's for Ammeter, RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.					
218.	Supply, installation, testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards, as per Distribution Diagram, fabricated out of 16SWG CRCA Sheet, double covered, hinged and lockable, provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. <b>MCCB, MCB shall be Schneider/Siemens/Lawson/Legrand. The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus.</b>	Set	8			
	<b>Typical Sub-Distribution Board's for laboratory and student workspace (SDB1-SDB8), Comprising of following</b>					
	4 nos. 16 DP MCB as Incomer					
	12 nos. 6/16A SP MCB outgoing for Light, Power and Spare circuits					
	60A TPNE Copper Bus on hylam insulation supports- 4 sets					
	Ammeter, Voltmeter with selector switches and appropriate CT's for Ammeter, RYB Indicator lamps and 3 * 6A SP MCB voltmeter and Indicator lamp protection.					
<b>F.</b>	<b>Fire Alarm</b>					
219.	Wiring for fire alarm System equipment smoke detector, heat detector, manual call point and sounder points with 2 core 1.5 sq.mm. FRLS insulated copper cable in concealed PVC Conduit run on walls / false ceiling , and from System Junction located at System Room	Nos	134			
220.	Supply and Installation of Photo Electric smoke detector	Set	94			
221.	Supply and Installation of Rate of Rise heat detector	Set	14			
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223.	Supply and Installation of ceiling mount sounder with strobe	Set	13			
224.	Supply and installation of conventional 8 Zone Panel	Set	1			
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225.	Cubes or cylinder crushing	no	414.00			
226.	Brick Crushing Test	no	51.00			
227.	Brick Water Absorption Test	no	51.00			
228.	Brick Efflorescence Test	no	51.00			
229.	Sieve Analysis (Wet)	no	51.00			
230.	Sieve Analysis (Dry)	no	51.00			
231.	U.T.M. Tensile Strength Test 8mm Ø	no	51.00			
232.	U.T.M. Tensile Strength Test 10mm Ø	no	51.00			
233.	U.T.M. Tensile Strength Test 12mm Ø	no	51.00			
234.	U.T.M. Tensile Strength Test 16mm Ø	no	51.00			
235.	U.T.M. Tensile Strength Test 20mm Ø	no	51.00			

236.	U.T.M. Tensile Strength Test 25mm Ø	no	51.00				
237.	U.T.M. Tensile Strength Test 28mm Ø	no	51.00				
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239.	Initial setting & Final Setting	no	17.00				

# **Part III: CONDITIONS OF CONTRACT AND CONTRACT FORMS**

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## **Section VIII: General Conditions of Contract**

[Name of Employer]

[Name of Contract]

## General Conditions of Contract

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

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

	<p>have avoided or overcome; and, which is not substantially attributable to the other Party.</p> <p>(s) The <b>Initial Contract Price</b> is the Contract Price listed in the Employer’s Letter of Acceptance.</p> <p>(t) <b>In writing</b> or <b>written</b> means hand written, type written, printed or electronically made, and resulting in permanent record.</p> <p>(u) The <b>Intended Completion Date</b> is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is <b>specified in the SCC</b>. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.</p> <p>(v) <b>Letter of Acceptance</b> means the formal acceptance by the Employer of the Bid and denotes the formation of the contract at the date of acceptance.</p> <p>(w) <b>Materials</b> are all supplies, including consumables, used by the Contractor for incorporation in the Works.</p> <p>(x) <b>Party</b> means the Employer or the Contractor, as the context requires.</p> <p>(y) <b>SCC</b> means Special Conditions of Contract</p> <p>(aa) <b>Plant</b> is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.</p> <p>(bb) The <b>Project Manager</b> is the person <b>named in the SCC</b> (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) <b>Retention Money</b> means the aggregate of all monies retained by the Employer pursuant to GCC 54.1.</p> <p>(dd) <b>Schedules</b> 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 <b>Site</b> is the area defined as such in the SCC</p> <p>(ff) <b>Site Investigation Reports</b> 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) <b>Specification</b> 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 <b>Start Date</b> is given <b>in the SCC</b>. 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 <b>Subcontractor</b> is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.</p> <p>(jj) <b>Temporary Works</b> are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.</p> <p>(kk) A <b>Variation</b> is an instruction given by the Project Manager which varies the Works</p> <p>(ll) The <b>Works</b> are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as <b>defined in the SCC</b>.</p>
<p>2. Interpretation</p>	<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</p>

	<p>defined. The Project Manager shall provide instructions clarifying queries about these GCC.</p> <p>2.2 If sectional completion is <b>specified in the SCC</b>, 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"> <li>(a) Contract Agreement,</li> <li>(b) Letter of Acceptance,</li> <li>(c) Letters of Technical Bid and Price Bid,</li> <li>(d) Special Conditions of Contract,</li> <li>(e) General Conditions of Contract,</li> <li>(f) Specifications,</li> <li>(g) Drawings,</li> <li>(h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and</li> <li>(i) Any other document <b>listed in the SCC</b> as forming part of the Contract.</li> </ul>
<p>3. Language and Law</p>	<p>3.1 The language of the Contract and the law governing the Contract are <b>stated in the SCC</b>.</p> <p>4.2. 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"> <li>(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.</li> </ul>
<p>4. Contract Agreement</p>	<p>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.</p>
<p>5. Assignment</p>	<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> <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>
<p>6. Care and Supply of Documents</p>	<p>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.</p>

	<p>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.</p> <p>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.</p> <p>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.</p>
7. Confidential Details	<p>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.</p> <p>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.</p> <p>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.</p>
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 contractor shall not handover the responsibility of the contract to any one member or some members of Joint Venture or any other parties, not involved in the contract. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.
10. Project Manager's Decisions	10.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
11. Delegation	11.1 The Project Manager may delegate any of his duties and responsibilities to other people after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
12. Communications	12.1 Communications between parties that are referred to in the Conditions shall be

	<p>effective only when in writing. A notice shall be effective only when it is delivered.</p>
13. Subcontracting	<p><b>13.1 For GoN Funded:</b></p> <p>A list of approved Subcontractors including its value/works is included as Article 2 (k) of contract Agreement Approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties, or responsibilities under the contract.</p> <p><b>For DP Funded :</b></p> <p>The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor’s obligations. Bidders may propose subcontracting up to the percentage of total value of contracts as <b>specified in the SCC</b>. The Sub contractor shall meet the qualification requirement as <b>specified in SCC</b>.</p>
14. Other Contractors	<p>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, <b>as referred to in the SCC</b>. 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</p>
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	<p>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>17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer’s risks:</p> <p>(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</p> <p>(i) use or occupation of the Site by the Works or for the purpose of the</p>

	<p>Works, which is the unavoidable result of the Works or</p> <p>(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.</p> <p>(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> <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> <p>(a) a Defect which existed on the Completion Date,</p> <p>(b) an event occurring before the Completion Date, which was not itself an Employer's risk, or</p> <p>(c) the activities of the Contractor on the Site after the Completion Date.</p>
18. Contractor's Risks	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.
19. Insurance	<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 <b>stated in the SCC</b> for the following events which are due to the Contractor's risks:</p> <p>(a) loss of or damage to the Works, Plant, and Materials;</p> <p>(b) loss of or damage to Equipment;</p> <p>(c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and</p> <p>(d) Personal injury or death.</p> <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 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 <b>in the SCC</b> , supplemented by any information available to the Contractor.
21. Contractor to	21.1 The Contractor shall construct and install the Works in accordance with the

Construct the Works	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 <b>specified in SCC</b>.</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> <ul style="list-style-type: none"> <li>a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so as the same is under his control) and the works (so far as the same are not completed or occupied by the Employer) in an orderly state appropriate to the avoidance of danger to such persons.</li> <li>b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others.</li> <li>c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.</li> <li>d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion.</li> <li>e. Any spoil or material removed from drains shall be disposed of to designated stable tipping areas as directed by the Project Manager.</li> <li>f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works.</li> <li>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.</li> <li>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.</li> </ul>

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 <b>stated in the SCC</b> , 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/DP and/or persons appointed by the GoN/DP to inspect the Site and/or the accounts and records of the Contractor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the GoN/DP if required by the GoN/DP. The Contractor's attention is drawn to Sub-Clause 73.2 which provides, inter alia, that acts intended to materially impede the exercise of the GoN's/DP's inspection and audit rights provided for under this Sub-Clause constitute a obstructive practice subject to contract termination.</p>
29. Dispute Settlement	<p>29.1 The Employer and the Contractor shall attempt to settle amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the Contract.</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 in accordance with law of Nepal at the place within the territory of Nepal <b>given in the SCC</b> .
<b>B. Staff and Labor</b>	
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

	<p>the Contractor. Children below the age of 18 years shall not be employed in dangerous work.</p>
<p>33.Non-discrimination and Equal Opportunity</p>	<p>34.1 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.</p>
<p><b>B. Time Control</b></p>	
<p>34. Program</p>	<p>34.1 Within the time <b>stated in the SCC</b>, 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 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 <b>stated in the SCC</b>. 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>
<p>35. Extension of the Intended Completion Date</p>	<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 21 days prior to the intended completion date. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date. Along with full supporting information the contractor shall also submit Performance</p>

	Security, Advanced Payment Guarantee and insurance Policy with extended validity as well as revised work schedule.
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	37.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.
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 stated in writing to all who attended the meeting.</p>
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>
<b>C. Quality Control</b>	
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 <u>issuance of taking over certificate pursuant to clause 69.2</u>, and is <b>defined in the SCC</b>. 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</p>

	notice.
43. Uncorrected Defects	43.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager’s notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.
<b>D. Cost Control</b>	
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 delivery of Materials to the Site separately on the Activity Schedule.</p>
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</p>

	<p>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 <b>GCC 45.1</b> 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 Forecasts	47.1 When the Program, or, in the case of a lump sum contract, the Activity Schedule, is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast.
48. Payment Certificates	<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> <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul> <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 <b>indicated in the SCC</b> 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</p>

	the Contract.
50. Compensation Events	<p>50.1 The following shall be Compensation Events:</p> <ul style="list-style-type: none"> <li>(a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 26.1.</li> <li>(b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.</li> <li>(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.</li> <li>(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.</li> <li>(e) The Project Manager unreasonably does not approve a subcontract to be let.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(i) The advance payment is delayed.</li> <li>(j) The effects on the Contractor of any of the Employer’s Risks.</li> <li>(k) The Project Manager unreasonably delays issuing a Certificate of Completion.</li> </ul> <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	51.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC 53.
52. Currency	52.1 The currency of Contracts shall be Nepalese Rupees.
53. Price Adjustment	<p>53.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for <b>in the SCC</b>. 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 Formulae<sup>9</sup>: 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><i>A</i> is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;<sup>10</sup> <i>b</i>, <i>c</i>, <i>d</i>, etc., coefficients representing the estimated proportion of each cost element (labor, materials, equipment usage, etc.) in the Works or sections thereof, net of Provisional Sums, <b>as specified in the SCC</b>;</p> <p><i>Ln</i>, <i>Mn</i>, <i>En</i>, etc., are the current cost indices or reference prices of the cost elements for month “n,” determined pursuant to Sub-Clause 53.4, applicable to each cost element; and</p> <p><i>Lo</i>, <i>Mo</i>, <i>Eo</i>, etc., are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4</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,</p>

<sup>9</sup> For complex Works involving several types of construction work with different inputs, a family of Formulae will be necessary. The various items of Day work may also require different formulae, depending on the nature and source of the inputs

<sup>10</sup> Insert a figure for factor A only where there is a part of the Contractors’ expenditures which will not be subject to fluctuation in cost or to compensate for the unreliability of some indices. A should normally be 0.15. The sum of A, b, c, d, etc., should be one.

	<p>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 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  <math display="block">P = [R_1 - (R_0 \times 1.10)] \times Q</math></p> <p>For unexpected decrease in price P  <math display="block">= [R_1 - (R_0 \times 0.90)] \times Q</math></p> <p>Where:</p> <p>“P” is price adjustment amount</p> <p>“R<sub>1</sub>” is the present price of the construction material (Source of indices shall be those listed in the Bidding forms)</p> <p>“R<sub>0</sub>” 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 <b>stated in SCC..</b></p> <p>53.7 The Price Adjustment amount shall be limited to a maximum of the initial Contract Amount <b>as specified in the SCC.</b></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>
<p>54. Retention</p>	<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, <b>in accordance with GCC 70.1</b>, half the total amount retained shall be repaid to the Contractor and half when the Contractor has submitted the evidence of</p>

	<p>submission of tax return to the concerned Internal Revenue Office.</p> <p>54.3 The Contractor may substitute retention money with an unconditional bank guarantee issued from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law if:</p> <ul style="list-style-type: none"> <li>(a) at least eighty (80) percent of the whole works have been completed,</li> <li>(b) progress of the works is satisfactory in accordance with the Contract as per approved work schedule, and</li> <li>(c) it can be assured that the works can be completed at the intended completion date.</li> </ul> <p>54.4 If retention money is substituted by bank guarantee in accordance with clause 54.2, the bank guarantee shall be submitted either using the Retention Money Security Form included in Section X (Contract Forms) or in another Form acceptable to the employer. The validity of the bank guarantee shall be at least one month more than the end of defect liability period.</p>
55. Liquidated Damages	<p>55.1 The Contractor shall pay liquidated damages to the Employer at the rate per day <b>stated in the SCC</b> 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 <b>defined in the SCC</b>. 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 <b>stated in the SCC</b> 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 <b>stated in the SCC</b>, against provision by the Contractor of an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal. in a form acceptable to the Employer in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.</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, <b>as</b></p>

	<p><b>stated in SCC</b>, 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 <b>specified in the SCC</b>, by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal 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 Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.</p>
59. Dayworks	<p>59.1 If applicable, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.</p> <p>59.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.</p> <p>59.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks 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>
<b>F. Force Majeure</b>	
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"> <li>(a) which is beyond a Party's control;</li> <li>(b) which such Party could not reasonably have provided against before entering into the Contract;</li> <li>(c) which, having arisen, such Party could not reasonably have avoided or overcome; and</li> <li>(d) which is not substantially attributable to the other Party.</li> </ul>

	<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"> <li>(a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;</li> <li>(b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war;</li> <li>(c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;</li> <li>(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</li> <li>(e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.</li> </ul>
62. Notice of Force Majeure	<p>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.</p> <p>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.</p> <p>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.</p>
63. Duty to Minimize Delay	<p>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.</p> <p>63.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.</p>
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> <ul style="list-style-type: none"> <li>(a) an extension of time for any such delay, if completion is or will be delayed, under GCC35 ; and</li> <li>(b) if the event or circumstance is of the kind described in sub-paragraphs (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</li> </ul>

	<p>by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.</p>
	<p>64.2 After receiving this notice, the Project Manager shall proceed in accordance with GCC 10 to agree or determine these matters.</p>
<p>65. Force Majeure Affecting Subcontractor</p>	<p>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.</p>
<p>66. Optional Termination, Payment and Release</p>	<p>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.</p>
	<p>66.2 Upon such termination, the Project Manager shall determine the value of the work done and issue a Payment Certificate, which shall include</p> <ul style="list-style-type: none"> <li>(a) the amounts payable for any work carried out for which a price is stated in the Contract;</li> <li>(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;</li> <li>(c) other Costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;</li> <li>(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</li> <li>(e) the Cost of repatriation of the Contractor’s staff and labor employed wholly in connection with the Works at the date of termination.</li> </ul>
<p>67. Release from Performance</p>	<p>67.1 Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises, which makes it impossible or unlawful for either or both Parties to fulfill its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance,</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>
<b>G. Finishing the Contract</b>	
68. Completion	<p>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.</p> <p>68.2 In addition to the other provisions, before acceptance of the completed works, Employer shall verify and assure that such works are within the set objective, quality and appropriate to operate and use.</p>
69. Taking Over	<p>69.1 In the contractor's Opinion, if the works are complete and ready for taking over, the contractor may apply by notice to the Project Manager for a Taking-Over Certificate. If the Works are divided into Sections, the Contractor may similarly apply for a Taking-Over Certificate for each Section.</p> <p>69.2 The Project Manager shall, within 30 days after receiving the Contractor's application:</p> <p>(a) issue the Taking-Over Certificate to the Contractor if physical progress of works is at least ninety (90) percent in accordance with the Contract except for any minor outstanding work and defects (as listed in the Taking-Over Certificate) which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or</p> <p>(b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.</p> <p>69.3 If the Engineer fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially completed in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on the last day of that period.</p>
70. Final Account	<p>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.</p>
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 <b>dates stated in the SCC</b>.</p> <p>71.2 If the Contractor does not supply the Drawings and/or manuals by the dates <b>stated in the SCC</b> pursuant to <b>GCC 71.1</b>, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount <b>stated in</b></p>

	<b>the SCC</b> from payments due to the Contractor.
72. Termination	<p>72.1 The Employer may terminate the Contract at any time if the contractor;</p> <ol style="list-style-type: none"> <li>a. does not commence the work as per the Contract,</li> <li>b. abandons the work without completing,</li> <li>c. fails to achieve progress as per the Contract.</li> </ol> <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> <ol style="list-style-type: none"> <li>(a) The Contractor uses the advance payment for matters other than the contractual obligations,</li> <li>(b) the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;</li> <li>(c) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;</li> <li>(d) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.</li> <li>(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;</li> <li>(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;</li> <li>(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;</li> <li>(h) the Contractor does not maintain a Security, which is required;</li> <li>(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, <b>as defined in the SCC</b>; and</li> <li>(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.</li> </ol> <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,</p>

	make the Site safe and secure, and leave the Site as soon as reasonably possible.
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"> <li>(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.</li> <li>(ii) "fraudulent practice"<sup>5</sup> 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;</li> <li>(iii) "collusive practice"<sup>6</sup> is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;</li> <li>(iv) "coercive practice"<sup>7</sup> 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;</li> <li>(v) "obstructive practice" is <ul style="list-style-type: none"> <li>(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</li> <li>(bb) acts intended to materially impede the exercise of the GON's/DP's inspection and audit rights provided for under GCC28.3.</li> </ul> </li> </ul>
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"> <li>(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.</li> <li>(b) If convicted from a court of law in a criminal offense liable to be disqualified for taking part in procurement contract,</li> <li>(c) If it is established that the Contractor has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.</li> </ul>
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</p>

	<p>date of the issue of the certificate. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.</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	<p>78.1 In the event that the DP suspends the loan/ credit/grant to the Employer from which part of the payments to the Contractor are being made:</p> <ul style="list-style-type: none"> <li>a. the Employer is obligated to notify the Contractor of such suspension within 7 days of having received the DP's suspension notice; and</li> <li>b. if the Contractor has not received sums due him within the 30 days for payment provided for in GCC 49.1, the Contractor may immediately issue a 15-day termination notice.</li> </ul>
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</p>

	<p>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 <b>stated in the SCC.</b>
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	<p>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.</p> <p>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.</p>
85. Duties, Taxes and Royalties	<p>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.</p> <p>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.</p> <p>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.</p>

	<p>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.</p>
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

## Special Conditions of Contract

A. General	
GCC 1.1 (q)	The Employer is <b>Madan Bhandari University of Science and Technology</b> , Chitlang, Thaha Municipality Ward 9, Bagmati Province, Nepal
GCC 1.1 (v)	The Intended Completion Date for the whole of the Works shall be <b>22 months from the date of issue of work order</b>
GCC 1.1(bb) & 10.1	The Project Manager is as defined by the employer in the work order The Project Manager and Engineer are synonyms.
GCC 1.1 (ee)	The Site is located at <b>Chitlang and is defined in the drawings</b>
GCC 1.1 (hh)	The Start Date shall be <b>7 days from the date of work order</b>
GCC 1.1 (ll)	The Works consist of <b>Construction of Graduate Program Building III</b>
GCC 2.2	Sectional Completions are: <b>Not applicable</b>
GCC 2.3(i)	The following documents also form part of the Contract: <b>Not applicable</b>
GCC 3.1	The language of the contract is <b>ENGLISH/NEPALI</b> The law that applies to the Contract is the law of NEPAL
GCC 11.1	The Project Manager <b>may</b> delegate any of his duties and responsibilities.
GCC 13.1	Maximum percentage of subcontracting permitted is: <b>Not Applicable</b> Nature of Works that can be sub contracted: <b>Not Applicable</b> <b>Qualification Criteria: Not Applicable</b>
GCC 14.1	Schedule of other contractors: <b>Not Applicable</b>
GCC 19.1	The minimum insurance amounts and deductibles shall be: <ol style="list-style-type: none"> <li>1. The minimum cover for loss of or damage to the Works, Plant and Materials is: <b>115 %</b> of the Contract Amount.</li> <li>2. The maximum deductible for insurance of the Works and of Plant and Materials is: <b>0.736 %</b></li> <li>3. The minimum cover for loss or damage to <b>immovable</b> Equipment/<b>plants</b> is : <b>100 % (i.e. Replacement Cost)</b></li> <li>4. The maximum deductible for insurance of Equipment/<b>plant</b> is: <b>1 % of sum insured .</b></li> <li>5. The minimum <b>cover for loss of or damage to</b> other property is: <b>NRs. 2.5 Million</b> with unlimited number of occurrences</li> <li>6. The maximum deductible for insurance of other property is: <b>1 % of sum insured.</b></li> <li>7. The minimum cover for personal injury or death insurance               <ol style="list-style-type: none"> <li>i. for the Contractor's employees is that specified in the Labor act of Nepal</li> </ol> </li> </ol>

	and ii. for other people is: <b>NRs. 1 million</b> with an unlimited number of occurrences
GCC 20.1	Site Investigation Reports are: <b><i>The bidder shall make his/her own investigations regarding field conditions</i></b>
GCC 23.1	The following shall be designed by the Contractor: <b><i>Temporary Structure</i></b>
GCC 26.1	The Site Possession Date(s) shall be: <b><i>7 days from the date of Work order</i></b>
GCC 30.1	The place of arbitration shall be: <b><i>Kathmandu, Nepal</i></b>
<b>C. Time Control</b>	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within <b><i>7 days</i></b> from the date of the Letter of Acceptance.
GCC 34.3	The period between Program updates is <b><i>60 days</i></b> . The amount to be withheld for late submission of an updated Program is <b><i>NRs. One Lakh Only</i></b>
<b>D. Quality Control</b>	
GCC 42.1	The Defects Liability Period is: <b><i>365 days</i></b> .
<b>E. Cost Control</b>	
GCC 49.1	<b><i>Not Applicable</i></b>
GCC 53.1	The Contract <b><i>is</i></b> subject to price adjustment, and the following information regarding coefficients <b><i>does</i></b> apply. The coefficients and indices for adjustment of prices in Nepalese Rupees shall be as specified in the Table of Adjustment Data submitted by bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.6	Base Price of Construction Materials applicable for price adjustment shall be as per the Table of Adjustment Data submitted by Bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.7	The Price Adjustment amount shall be limited to a maximum of: For GoN Funded: <b><i>25 %</i></b> percentage of the initial Contract Amount
GCC 54.1	The proportion of payments retained is: For GoN Funded: <b><i>5 (five) percent</i></b>
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	The Bonus for the whole of the Works is 0.05 Percent per day. The maximum amount of Bonus for the whole of the Works is <b><i>10 percent</i></b> of the final Contract Price.
GCC 57.1	The Advance Payments shall be: <b><i>10 percent</i></b> and shall be paid in two equal installments and to the Contractor.

	<p>The First Installment of 5% of the contract amount shall be made to the contractor upon submission of acceptable Bank Guarantee and the submission of program pursuant to GCC 34.1 for advance payment after issuance of work order and after establishing site office and commencing the excavation work for foundation and mobilizing major building materials required for immediate works.</p> <p>The Second Installment of 5% of the contract amount shall be made upon submission of acceptable Bank Guarantee and the submission of program pursuant to GCC 34.1 for advance payment after start of construction work and after fulfilled contractual obligation such as submission of insurance policies, work progress to the employer including evidence of expenditure of 1st instalment in the project activities.</p>
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 <b>percent</b> of the respective Monthly Interim Payment Certificate until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the end of 80 % of the approved contract price.
GCC 58.1	The Performance Security amount is: 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.
<b>G. Finishing the Contract</b>	
GCC 71.1	The date by which operating and maintenance manuals are required is: <b>7 days prior to the submission of final invoice</b>
GCC 71.2	<p>The date by which “as built” drawings are required is: <b>7 days prior to the submission of final invoice</b></p> <p>The amount to be withheld for failing to produce “as built” drawings and/or Operating and maintenance manuals is: <b>Rs. 500,000/-</b></p>
GCC 72.3 (i)	The maximum number of days is: <b>200</b>
GCC 80	<p>The Project Manager has to obtain the specific approval of the Employer for taking any of the following actions:</p> <ol style="list-style-type: none"> <li>a. Approving subcontracting of any part of the works under General Conditions of Contract Clause 13;</li> <li>b. Certifying additional costs determined under General Conditions of Contract Clause 50;</li> <li>c. Determining start date under General Conditions of Contract Clause 1;</li> <li>d. Determining the extension of the intended Completion Date under General Conditions of Contract Clause 35;</li> <li>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.</li> <li>f. Adjustment of rates under General Conditions of Contract Clause 45;</li> </ol>

## **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.

# 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 ***Construction of Graduate Program Building III at Chitlang, Contract ID Number MBUST/W/NCB-01/2080/81*** 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]**

**[Notes on Letter of Intent**

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

**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 ***Construction of Graduate Program Building III at Chitlang, Contract ID Number MBUST/W/NCB-01/2080/81*** 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: .....

## Contract Agreement

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

WHEREAS the Employer desires that the Works known as **Construction of Graduate Program Building III at Chitlang, Contract ID Number MBUST/W/NCB-01/2080/81** should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects in the sum of NRs .....[insert amount of contract price in words and figures including taxes](hereinafter “the Contract Price”).

The Employer and the Contractor agree as follows:

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

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

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

Witness, Name Signature, Address, Date

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

Witness, Name, Signature, Address, Date

## List of Approved Subcontractors N/A

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

<b>Name of Subcontractors</b>	<b>Description of Works</b>	<b>Value/Percentage of subcontract</b>

## Performance Security (On letterhead paper of the 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.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

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

Note:

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

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

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

# Advance Payment Security

*(On letterhead paper of the Bank)*

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

Beneficiary: .....*Name and address of employer*

Date : .....

Advance Payment Guarantee No.....

We have been informed that .....has 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.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

.....  
**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.

# Retention Money Security

*(On letterhead paper of the Bank)*

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

**Beneficiary:** \_\_\_\_\_ *[Insert name and Address of Employer]*

**Date:** \_\_\_\_\_ *[Insert date of issue]*

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

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

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

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

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

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

\_\_\_\_\_  
*[Seal of Bank and signature(s)]*

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

<sup>1</sup> \_\_\_\_\_  
*The Guarantor shall insert the amount of the Retention Money.*

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

**Annex-1**  
**Table of Price Adjustment Data**  
**[SCC 53.1]**

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

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

# SECTION-VI

## Bill of Quantities

Notes for Unit Rate Contracts :

Objectives

The objectives of the Bill of Quantities are

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

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

Content

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

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

Preamble

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

Work Items

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

Day work Schedule

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

- (a) A list of the various classes of 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

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 Contract Data should state the manner in which they will be used, and under whose authority (usually the Project Manager's).

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.

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

# Bill of Quantities

1 Provisional Sum						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Unit Rate(NPR)	Amount(NPR)	
1	Provide insurance for the loss of damage to works, plant, material, equipment, property and personnel injury or death as per specification and instructions of approved engineer all complete.	ps	1.0	1909272.21	1,909,272.21	
2 Construction work						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Provide, erect and maintain project site notice board (2mx2m) with metal frame, posts and necessary accessories up to the completion of the project as per specifications and instructions of the site engineer all complete.	No	2.0			
2	Supplying and laying CGI sheet (0.41 mm thick) around the construction area including 50mm dia. black metal pipe post to avoid trespassers as per drawings, specifications and instructions of approved engineer all complete.	Sqm	377.0			
3	Supplying and laying safety net and other necessary accessories/items around the constructing building as per specification and instructions of approved engineer all complete.	Job	1.0			
4	Provide & maintain the continuous site surveillance with provision of Close Circuit Security Camera atleast 4 numbers for photographic and videographic records day by day including desktop and other accessories as per specification and instructions of approved engineer all complete.	LS	1.0			
5	Provide, operate, maintain and ensure Quality Control Laboratory at site including all necessary equipment, accessories and consumables with manpower for Concrete Test (Cubes or cylinder crushing Test), Brick Test (Brick Crushing Strength Test, Water Absorption Test, Efflorescence Test) and Sieve Analysis as per specification and approval of engineer up to the completion of the project.	Job	1.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
6	Provide laptop of Genuine brand including 8th Gen Core i7 processor, 16 GB RAM, 1TB HDD, 4 GB Graphics and Genuine OS Windows 10 along with the provision of repair and maintenance as per specification and instructions of approved engineer all complete.	No	1.0			
7	Provide as Built Drawing of project (Architectural, Structural, electrical, sanitary & building services) in 1:100 scale 5 sets hard copy including digital copy as per the approval of the engineer upto the completion of project.	Job	1.0			
8	Supplying and providing all the safety equipments like helmets, boots, gloves, safety wears, jackets, goggles, masks etc to the engineers, site supervisors, workers, labors, visitors, official personels and all the people involved in the construction upto the completion of the constructions as per specification and instructions of approved engineer all complete.	LS	1.0			
9	Site Clearance Works: Clearing & uprooting thin vegetation, grubbing their roots and disposal far from the construction sites also leveling the surface as per instruction, specification and drawing all complete.	sqm	4077.0			
10	Earthwork in excavation in perfect line and level using Hydraulic Excavator in foundations and stacking to the appropriate location near site for refill as per instruction, specification and drawing all complete.	cum	8092.0			
11	Earthwork in manual excavation in Boulder mixed and hard soil in foundation , trenches including timbering and shoring & 30m Lead and 1.5 m. lift as per design, drawing, specification all complete and instruction of site Engineer.	cum	50.0			
12	Backfilling of excavated earthwork in layers of 150mm with sprinkling water and compaction in foundation, flower bed, steps etc as per instruction, specification and drawing all complete.	cum	2116.0			
13	Disposal of excavated soil outside from site area including labour and transportation all complete as per instruction, specification all complete.	cum	6026.0			
14	Dewatering works with the use of pressure pumps during construction phase as per design, drawings, specifications and instructions of the site engineer all complete works.	hrs	480.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
15	Anti Termite Work: Supplying and applying Pre-construction anti termite treatment by use of chemicals and creating a continuous chemical barrier under and all around the raft, under basement, column pits, wall trenches & shear wall of upper and lower basement floor etc in contact between building and soil as per drawings, specifications and instructions of the approved engineer all complete.	sqm	1678.0			
16	Gravel Packing Works: Supplying and applying Gravel packing works in perfect line and level, including compaction with 8-10 Ton Smooth Wheeled Roller as per drawings, specification, and instruction of Engineer all complete.	cum	201.0			
17	Soling Works: Supplying and laying Chimney made Dry Flat Brick Soling with sand filling in joints as per drawing, specification and instruction of Engineer all complete.	sqm	54.0			
18	Plain Cement Concrete (PCC) in Foundation with cement, sand and crushed aggregate in 1:3:6 ratio including mixing, laying, curing and finishing all complete as per drawing, specification and instruction of Engineer.	cum	120.0			
19	Plain cement concrete (PCC) in Foundation with cement, sand and crushed aggregate in 1:2:4 ratio including Mixing, laying, curing and finishing all complete as per drawing, specification and instruction of Engineer.	cum	173.0			
20	Structural Concrete in any form,size, shape and level for all Reinforced Cement Concrete (R.C.C) works with cement, sand and crushed aggregate in Nominal mix 1:1.5:3 ratio (M20) including mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of Engineer.	cum	88.0			
21	Structural concrete in any form,size shape and level for all Reinforced Cement Concrete (R.C.C) works for all structural members with cement, sand and crushed aggregate in Nominal mix 1:1:2 ratio (M25) including mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of Engineer.	cum	1560.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
22	Reinforced Cement Concrete (R.C.C) works with micro silica admixture by 4% of total cement volume per cu.m in terrace and shear wall with cement, sand and crushed aggregate in Nominal mix 1:1:2 ratio (M25) including super plasticizer @ 12ltrs per cu.m, mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of Engineer.	cum	302.0			
23	Providing and laying design mixed M30 grade concrete for Reinforced Cement Concrete (R.C.C) works in any form, size shape and level for all R.C.C. works for structural elements like column using Ordinary Portland Cement (OPC) cement, sand, crushed aggregate and approved quantity/ brand of admixture @ minimum of 0.6% by wt of cement (Shalplast PCE 200, A&A FLowgel or equivalent) including mixing, laying, compacting, finishing and curing as per drawing, specification and approval of engineer all complete.	cum	284.0			
24	Providing, straightening, cleaning, cutting, fabricating, bending and placing TMT(Fe 500) for stirrups, ties and main reinforcement bars and binding the bars with 18 gauge annealed wire for tying them at each junction as per design and details for all types of R.C.C elements including all waste and cut pieces, provision for spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in the intended position at all levels as per drawing, specification, instruction and approval of engineer all complete.	Kg	433646.0			
25	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C. works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. Column	sqm	1728.0			
26	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C. works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. Beam	sqm	2428.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
27	Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing,specification, instruction and approval of engineer all complete. Slab	sqm	5634.0			
28	Brick masonry work in (1:4) cement sand mortar upto ground floor with approved quality first class chimney made bricks in perfect line and level including wetting the bricks ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, Work all complete as per design, drawing, specification and approval of site Engineer.	cum	246.0			
29	Brick masonry work in (1:4) cement sand mortar above ground floor with approved quality first class chimney made bricks in perfect line and level including wetting the bricks ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, Work all complete as per design, drawing, specification and approval of site Engineer.	cum	674.0			
30	Stone masonry work in (1:6) cement sand mortar with approved quality stone on upto ground floor in perfect line and level including wetting the bricks, packing the joints and curing, with necessary scaffolding work, including supplying of all materials, labour, lead and lift work as per design, drawings, specifications and instructions of the site engineer all complete.	cum	609.0			
31	Supplying and laying 100 mm diameter high density polethene pipe (1.703 Avg. wt. kg/m) staggers at 1m c/c all complete as per specification, instruction and drawing.	Rm	583.0			
32	Supplying and laying Geotextile Membrane around the pipe of weep hole of Retaining wall as per design, drawings, specifications and instructions of the site engineer all complete.	sqm	43.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
33	Providing and fixing Structural Glazing of aluminum section in white anodized/powder coated color of section size (60x75+13x1.6 mm) thick Aluminum Bar, fitted with 5 mm thick Toughened colored glass including all the necessary hardwares, fittings and accessories all complete as per design, drawing, specification and approval of site Engineer. (Average panel area 6.00 Sq.ft.)	sqm	237.0			
34	Providing and fixing Double glazed sliding window of two leaves with white color section size-(101x45x1.5mm) frame , Double Glazed Vaccumed Glass 21mm thick (5mm toughened glass +11mm Air Gap+5mm toughened glass) with mosquito net, roller, lock, silicone and all other necessary hardwares as per design, drawing, specification and approval of site Engineer.	sqm	293.0			
35	Providing and fixing double glazed sliding window of three leaves with white color section size-101x45x1.5mm frame , Double Glazed Vaccumed Glass 21mm thick (5mm clear toughened glass +11mm Air Gap+5mm clear toughened glass) with mosquito net, Roller, Lock, Silicone and all other necessary hardwares as per design, drawing, specification and approval of site Engineer.	sqm	36.0			
36	Providing and fixing Structural Glazing with frameless door of aluminum section in white anodized/powder coated color of section size (60x75+13x1.6 mm) 2 mm thick Aluminum Bar, fitted with 5 mm thick toughened colored glass including all the necessary hardwares, fittings and accessories all complete. (average panel area 6.00 Sq.ft.)	sqm	23.0			
37	Salwood Chaukhat frame works for doors as approved by site incharge including the timber shall be seasoned and matured, free from wraps, knots holes and other defects as per design, drawings, specifications and instructions of the site engineer all complete.	cum	1.11			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
38	<p>Providing and fixing non fire rated wooden door a BB 4330, 5 Knuckle, 2 Ball bearing butt hinges size 4" x 3" x 3mm, in SS 304 and in SSS finish, Pure 8100 Type 3 Package with Pair of Antimicrobial with Master Key System with Pure series lever handle Pure 8906 / 8100 /8998 Lever Handle on Roses &amp; escutcheons 7122. Including 271 Sash lock with 78mm CTC, 55mm Backset 20mm Square for end, floor stop half dome with 45mm dia door will be 40 mm thick Single leaf solid core and resin bound FLUSH DOOR SHUTTERS, confirming to IS . 1659 - 1960 and 2202 part I - 1962 as modified unto date BOTH SIDE TEAK veneering factory pressed teakwood lipping as per specification &amp; design around the shutters and fixed to existing frame and as specified including cost of materials as per design, drawings, specifications and instructions of the site engineer all complete. Equivalent Brand : Dormakaba / Navair / Sumai/Tostem</p>	Sqm	65.0			
39	<p>Providing and fixing double glazed sliding door white color section size-101x45x1.5mm frame , Double Glazed Vaccumed Glass 21mm thick (5mm clear toughened glass +11mm Air Gap+5mm clear toughened glass) with mosquito net, roller, lock, silicone and all other necessary hardwares as per design, drawing, specification and approval of site Engineer all complete.</p>	Sqm	4.0			
40	<p>Providing and fixing Double Panel Casement (Hinged) door of aluminium section in natural or color anodized/powder coated color section size(102x45x1.5 mm) fitted with 5 mm clear glass of 9 mm both side laminated board with all necessary hardwares (Hinges,Mortice Lock, Tower bolt,handle) as per design, drawing, specification and approval of site Engineer all complete.</p>	Sqm	6.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
41	Providing and fixing of Toilet Cubicle partition system is made of HPL compact laminate board with quality hardware's in stainless steel (SS)-304, grade, 12 mm thick.Product will be certified for GREEN GUARD as per UL2818-2013 standard, reaction to fire shall be as per EN 438-7:2005, fire reaction classification: CLASS B-s1d0, Resistance to stain. Made of decorative kraft paper impregnated with fire prof melamine resin, Tested by UNE-ENISCO-11925-2:2011, UNE-EN1823:2012+A1:2013, size of cubicle partition would be 1.5mtr x 1mtr x 2 mtr height, Stylam or equivalent.	Set	21.0			
42	Urinal Partition is made of HPL compact laminate board with quality hardware's in stainless steel(SS) -304, grade, 12mm thick. Product will be certified for GREEN GUARD as per UL28182013 standard, reaction to fire shall be as per EN 438-7:2005, fire reaction classification: CLASS B-s1d0, Resistance to stain. Made of decorative Kraft paper impregnated with fire prof melamine resin, tested by UNEENISO-11925-2:2011, UNE-EN1823:2012+A1:2013, size of urinal partition would be 1.5mtr x 1mtr x 1.8 mtr height , Stylam or equivalent. Length 900mm , Breadth: 400mm	Pcs	18.0			
43	Supplying and installation of frameless glass doors aligned with the acoustic fixed glass partition of 10mm thick with door hardwares such as patch fitting with stainless steel cover (Bottom Patch), (Top Patch), (Centre Lock), 304 grade pull handle 450 back to back with 350 mm CTC, adjustable fixing for glass, Length=450mm,- SS304 l, Floor Spring with standard spindle and cover plate, floor stop half dome with 45 mm dia with fixing accessories, in Satin Chrome. Use of 45*30 mm(1.5mm thick) anodised matt black aluminum profiles all around the door and end profile for the centre locking and ventilation.Final Certifications of products should be submitted from the product manufacturer for the originality of the product, as per drawings, specification and the supervision of the site engineer all complete. Equivalent Brand: Dormakaba/Tostem/Sumai or equivalent.	Sqm	197.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
44	Providing and fixing of slim acoustic glass partition system using 10 mm thick toughened glass. The anodised aluminum frame of size 45*30 mm with Concealed sealing(No Visible Gaskets/Seals) with acoustic rating of minimum 32 db with third party test certificate and with the thickness not less than 1.5mm excluding 20 micron of anodising. The use of base profile, support profile, end profile, 90 Degree Profile, junction Profiles as per the design requirements to maintain the stability and acoustic property of system which should be verified by manufacturer itself. Use of 5mm thick H profile instead of silicon in between 2 glass to ensure aesthetic and acoustic.Structure stability text accordance to BS 5234:Part 2:1992 and EN 1991-1-1;2002 Acoustic test for sound insulation in accordance to DIN EN ISO 10140-2 ASTM-E 90. All profile sections to be manufactured and tested in accordance to EN 573-3, DIN EN 12020 T2. Contractor has to submit the final Material Test Certifications of items mentioned in the BOQ, provided by the manufacturer in its letter head all complete to the cocsultant and client as per the design, drawings, specifications and the supervision of the site engineer. Equivalent brand:Dormakaba, Tostem, Sumai	Sqm	1097.0			
45	Supplying and laying 12.5 mm thick cement plastering work with (1:3) cement sand mortar on Celing surfaces and beam of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sqm	3649.0			
46	Supplying and laying 12.5 mm thick cement plastering work in (1:4) cement mortar on walls of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sqm	7241.0			
47	Providing and laying 2mm thick Plain White Putty on internal walls & ceiling surfaces with proper finishing , work all complete as per specification and approval of site Engineer.	Sqm	7841.0			
48	Providing and laying 2mm thick Waterproof Plain White Putty on external walls with proper finishing , work all complete as per specification and approval of site Engineer.	Sqm	2137.0			
49	Providing Drip Edge around the edge of of all pojected slabs above ground floor as per drawing, specification and instructions all complete.	rm	658.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
50	Supplying and laying pointing works with (1:1) cement sand mortar on stone masonry wall surfaces of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	rm	256.0			
51	Painting work with two coat plastic emulsion paint on inner wall and ceiling surfaces along with one coat of primer with approved colour as per design and proper finishing, work all complete as per specification and approval of site Engineer.	sqm	7841.0			
52	Supplying and Painting two coat weather proof paint (Apex or equivalent) with one coat primer on outer wall surfaces with approved colour and proper finishing , work all complete as per specification and approval of site Engineer.	sqm	2137.0			
53	Two coat of Enamel paint over one coat of primer on wooden/metal surface with approved colour and proper finishing , work all complete as per specification and approval of site Engineer.	sqm	414.0			
54	Supplying and applying approved shade of Pierre De Beton Texture with one coat of polyunder primer, base coat of Hyperion or equivalent by trowel, coat of Hyperion or equivalent by Pierre De Beton tool , color coat of Antica wash by brush including form and top coat of Acropure or equivalent over the exterior plaster surface of any shape , size and height inculsive of surface preparation by providing puttying sanding surface , watering (if necessary) ,cleaning as per drawings , specifications and instructions of Site Engineer.	sqm	912.0			
55	Supplying and fixing of approved quality non-slip Glaze Vitrified tile on toilet , terrace etc (Somany, Kazaria, NITCO, Vermora, Griffine or equivalent) on floor surfaces with boader of size as per drawing and specification in 1:4 cement sand mortar in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	165.0			
56	Supplying and fixing of approved quality full body vitrified tile on inner rooms (Somany, Kazaria , NITCO, Vermora, Griffine or equivalent) on floor surfaces with boader of size as per drawing and specification in 1:4 cement sand mortar in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	3267.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
57	Supplying and fixing of approved quality Ceramic glazed wall tile (Somany, Kazaria, NITCO, Vermora, Griffine or equivalent) of size as per drawing and specification on wall surfaces with boader in 1:4 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	337.0			
58	Supplying and fixing of approved quality full body vitrified tile (600X600) (Somany, Kazaria, NITCO, Vermora, Griffine or equivalent) skirting in 1:6 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Rm	1496.0			
59	Supplying and fixing of approved quality Glazed vitrified tile(300X300) (Somany, Kazaria, NITCO, Vermora, Griffine or equivalent) skirting in 1:6 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Rm	34.0			
60	Supplying and laying 16 mm thick granite or equivalent on Floor with 20mm thick 1:2 cement sand mortar in perfect line and level including polishing as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	319.0			
61	Supplying and laying 16 mm thick granite skirting with 12.5 mm thick 1:3 cement sand mortar in perfect line and level including polishing as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	14.0			
62	Supplying and laying of granite double nosing including polishing & moulding in perfect line and level as per design, drawings, specifications and instructions of the site engineer all complete works.	sqm	90.0			
63	Supplying and applying 50 mm thick Plain cement screeding work in 1:2:4 with cement, sand and crushed aggregate including mixing, laying, compacting and wetting in perfect line and level as per drawings, specifications and approval of site Engineer all complete.	sqm	4649.0			
64	Provide and laying 3mm cement punning cement sand (1:1) including cleaning, watering, curing the laid surface all complete as per specification, instruction & approval of Site Engineer.	sqm	319.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
65	Supplying and laying 16 mm thick C/S skirting with plaster of 1:4 cement sand mortar and 3mm thick punning in perfect line and level as per drawing, specification, instruction & approval of Site Engineer all complete.	rm	27.0			
66	Providing and applying Surface Hardener, Non Metallic, Abrasion Resistant for Heavily Stressed Areas at the coverage of minimum 5 kg per m2 as per Specification, Drawing, Instruction of Site Engineer and Manufacture Technical Data Sheet all complete. (Floor Top STD ,Shali Floor NM ,AC HardTop or Equivalent )	Kg	4525.0			
67	Making and fitting fixing of stainless steel pipe railing with 50 mm diameter stainless steel pipe handrail with 4 rows of 25mm diameter stainless steel pipe in between handrail and floor and 50 mm diameter stainless steel pipe for vertical post @ 2m. c/c including welding , cutting, finishing all complete as per design, specification and approval of site Engineer.	rm	70.0			
68	Supplying and fixing of Mild Steel pipes of various sections for railing on balcony and parapet, landscape including welding , cutting ,fixing all complete as per design,specification and approval of site Engineer.	Kg	3540.0			
69	Supply and installation of GEN2 Lifts Nova_ MRL, VVVF of Otis or equivalent brand with Regenerative drive(Closed Loop), Flat coated steel Belt for traction medium with pulse monitoring device, Voice Synthesizer, false ceiling (CD41) with Cross Flow Fan,Door with 120 min fire rating, ARD and carrying capacity of 15 person gearless passenger lift, 5 stops all complete as per drawing, design, specification and approval of site incharge.	Nos	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
70	Metal Lay-in Plain False ceiling Providing and fixing Metal finish False ceiling board at all heights of size 600 x 600 mm of approved texture, design and pattern. The tiles should have durable, electrostatic factory applied polyester coil or power coated finish to meet or exceed EN 13964 and TIAM standards. The tile should have standard color i.e. Global white(12% gloss}, Light Reflectance min. 80%. Weight 3.1 - 4.3 kgs/mZ, Fire: Performance as per (BS 476 pt- 6 & 4 7) standard in true horizontal level suspended on interlocking T -Grid all round galvanized iron section of 0.33 mm thick (galvanized @120gsm) comprising of the tile shall be laid on Armstrong Suprafine channel 32 with 15 mm wide T - section flanges color white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 32mm all complete as per drawing, design, specification and approval of site incharge.	sqm	154.0			
71	Mineral Fibre False Ceiling with Silhouette Channel: Providing and fixing Mineral Fiber false ceiling classic-lite board, size 600 x 600 mm & 16 mm Thickness of approved texture, design and pattern. The board should have Noise Reduction Coefficient (NRC value) = 0.55 , Humidity Resistance (RH) of 99%, Light Reflectance-85%, Thermal conductivity k = 0.052 - 0.057 w/m K, Weight 3.1 kgs/m2, Fire Performance as per BS 476 pt - 6 & 7 in true horizontal level suspended on 2 interlocking T-Grid all round galvanized iron section of 0.33 MM thick (galvanized @120gsm) comprising of silhouette. The tile shall be laid on Silhouette 15 mm wide, having 6mm black color reveal section on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 32mm and a load carrying capacity of 14 Kgs/M2 with a minimum pull out strength of 90 Kgs all complete as per drawing, design, specification and approval of site incharge.	sqm	2329.0			
72	Gypsum Board False Ceiling: Supplying and laying of Designed Gypsum board false ceiling work with proper finishing layered in GI frame in proper grid system all complete work as per design, drawing, specification and instruction of the approved engineer all complete.	sqm	95.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
73	Providing and applying crystalline base waterproofing on shear wall, in two layers with horizontal and vertical strokes, when each coat is in tacky condition, Aquafin-IC or equivalent that can resist 130m from positive and negative side that should match German DVGW worksheets W 347 AND W 270 or equivalent, over the prepared RCC slab and on the vertical surfaces . After 3 days ponding the area with water for 3 days to test water tightness etc. as per drawings, specification & instruction of Site Engineer all complete.	Sqm	1148.0			
74	Providing and Applying polymer modified acrylic base two component water proofing on toilet floor, terrace , balcony etc, flexible waterproofing coating in two layers applied in horizontal and vertical strokes, when each coat is in tacky condition, Aquafin-2K/M plus or equivalent having cTack-bridging to ASTM C836: > 2.0 mm Elongation, to ASTM D 412-16: ca. 192 o/o and Water tightness when installed: 2.5 bar meeting the ( ASTM D 412-98 a) over the prepared RCC slab and on the vertical surfaces . After 3 days ponding the area with water for 3 days to test water tightness etc. as per drawing, specification and instruction of site engineer all complete.	Sqm	1492.0			
75	Supply and fixing of Spring Thunder (Model EM-400) or equivalent for internal vertical wall expansion joint Aluminium (3mm thick) with movement capacity +200/-355mm, joint width 400mm, material 5052 grade aluminium, anodised finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	rm	72.0			
76	Supply and fixing of Spring Thunder (Model EM-400) or equivalent for external vertical wall expansion joint Aluminium (3mm thick) with movement capacity +200/-355mm, joint width 400mm, material 5052 grade aluminium, anodised finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete. .	rm	46.0			
77	Supply and fixing of Spring Thunder (Model SFFS-400) or equivalent for internal horizontal floor expansion joint (3mm thick galvanized steel) with movement capacity +115/-345mm, joint width 400mm, finished with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	rm	100.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
78	Supply and fixing of Spring Thunder (Model SFFS-400) or equivalent for internal horizontal Ceiling expansion joint (3mm thick galvanized steel) with movement capacity +115/-345mm, joint width 400mm, finished with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	rm	79.0			
79	Supply and fixing of Spring Thunder (Model EM-400) or equivalent external horizontal Roof expansion joint Aluminium (3mm thick) with movement capacity +200/-355mm, joint width 400mm, material 5052 grade aluminium, anodised finish with water barrier as per drawings, specifications, instruction & approval of Site Engineer all complete.	rm	35.0			
80	Providing and laying Carpet Dubo in perfect line and level as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	sqm	785.0			
81	Supplying, and laying of 50mm thick flagstone with cement sand mortar (1:4) in perfect line and level including packing of joints as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	sqm	199.0			
82	Supplying, installing & fitting of 3D Steel Letter (SS metal material) with text height 350mm on the walls with required inscriptions as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	job	1.0			
83	Providing and laying 50 mm heavy duty interlocking blocks along landscape area as per design specifications and drawings all complete.	sqm	534.0			
84	Providing and Supplying sound and thermal insulation (HL series 800 or equivalent) having thermal conductivity 0.030-0.056, Reduction in noise 35%-95%, Density(kg/m <sup>3</sup> ) 10-30 kg, light weight in which no possibilities of the bacterial and fungal growth, no presence of the harmful chemicals like Formaldehyde binders, ecofriendly product, resistant to Insect and Vermin attack, fire retardant as per design, drawings, specifications, instructions and approval of the site engineer all complete works. Equivalent Brand: Nowofill/STP/Ardex Endura or equivalent	sqm	837.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
85	Sanitary Works : Fixtures: Porcelain clay white glaze One Piece Comode, Siphonic double flush with 's ' trap and slow falling seat cover with all complete set.	set	28.0			
86	White glazed earthenware wash basin size of 510x375 mm, undercounter type with C.P. brass basin tap, longlife 28 mm ceramic cartridge and brass nuts complete as required, StarLight chrome finish, Mousseur smooth body. and ss bottle trap all complete set.	set	15.0			
87	White glazed earthenware Wall Hung Hand wash basin) with 15 mm CP/PVC connectors with both ends couplings, 15mm CP angular cocks -2 no, 15mm CP Single lever Basin Mixer, 32mm PVC bottle trap, waste coupling with testing and ready for operation with all complete set as per specifications and instruction of engineer.	set	7.0			
88	Supply and fixing of Porcelain clay white glazed large flat back Urinal 51x41x38 cm size with CP Push cock, Spreader, testing and ready for operation with all complete set as per specification and instruction of engineer .	set	19.0			
89	Supply and fixing of White glazed porcelain clay (68x30) cm Division Plate for Urinal with all complete set as per specifications and instruction of engineer.	set	15.0			
90	Providing ,fixing and testing of all complete set of Kitchen sink stainless steel 1000x500x200mm depth with drain board 1mm thickness with Aerator/swan type sink cock. Sink- Hekken,Divin or equivalent Sink cock- Somany, Essel or equivalent .	set	3.0			
91	providing of 15 mm CP commode spray with 1.2mt. Long flexiable pipe with all complete set.	set	28.0			
92	Looking Mirror Modi guard 600 X 450 mm all complete set.	set	7.0			
93	Looking Mirror Modi guard 1800 x 600mm all complete set.	set	8.0			
94	Providing and fixing of C.P. Toilet paper holder flap type stainless steel 304. Décor, somany, or equivalent with all complete set.	set	28.0			
95	Providing and commissioning of soap tray heavy type stainless steel 304. Décor, somany, plato or equivalent with all complete set.	set	7.0			
96	Providing and commissioning of Soap Dish Décor, somany, plato or equivalent with all complete set.	set	7.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
97	Providing and commissioning of CP Robe Hook of heavy stainless steel with all complete set.	set	28.0			
98	Providing and commissioning of CP Grab bar -1090mm with all complete set.	set	3.0			
99	Providing and commissioning of CP Grab bar -990mm with all complete set.	set	3.0			
100	Floor Drain set: consisting of uPVC multi port floor trap.	set	42.0			
101	110mm cowl vent	rm	5.0			
102	75mm cowl vent	rm	1.0			
103	Over head storage 1000 litres capacity Hilltake or equivalent brand extra heavy Plastic cylindrical vertical water storage tank complete with inter-connection, overflow, washout and vents with all complete set as per specifications and engineer instructions.	set	4.0			
104	Supplying and fixing CPVC FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 20 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	94.0			
105	Supplying and fixing CPVC FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 25 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	308.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
106	Supplying and fixing CPVC FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 32 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm2	rm	117.0			
107	Supplying and fixing CPVC FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 40 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm2	rm	42.0			
108	Supplying and fixing CPVC FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 50 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm2	rm	15.0			
109	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 20 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm2	rm	285.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
110	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 25 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	82.0			
111	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 32 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	31.0			
112	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe (Hot). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 40 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	15.0			
113	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer, 20 mm dia	rm	285.0			
114	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer,25 mm dia	rm	82.0			
115	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer,32 mm dia	rm	31.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
116	Supply and fixing of AEROFLEX or THERMAFLEX or equivalent brand insulation material for hot and cold water pipes on terrace and ducts, as per approved shop drawing or as instructed by the Engineer, 40 mm dia	rm	15.0			
117	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 20 mm dia CPVC Ball Valve, CTS Socket all complete.	no	2.0			
118	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 25 mm dia CPVC Ball Valve, CTS Socket all complete.	no	10.0			
119	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 32 mm dia CPVC Ball Valve, CTS Socket all complete.	no	16.0			
120	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 40 mm dia CPVC Ball Valve, CTS Socket all complete.	no	6.0			
121	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 50 mm dia CPVC Ball Valve, CTS Socket all complete.	no	5.0			
122	Soil Waste and rain water Drainage pipe line ( from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smokig test rectifying the leakage if any, , all complete set as per the specification and instruction. (Marvel, Mangalam or equivalent) OD 50mm (6.0 kgf/sq cm) uPVC/PVC	rm	143.0			
123	Soil Waste and rain water Drainage pipe line ( from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smokig test rectifying the leakage if any, , all complete set as per the specification and instruction. (Marvel, Mangalam or equivalent) OD 75mm (6.0 kgf/sq cm) uPVC/PVC	rm	121.0			
124	Soil Waste and rain water Drainage pipe line ( from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smokig test rectifying the leakage if any, , all complete set as per the specification and instruction. (Marvel, Mangalam or equivalent) OD 110mm (6.0 kgf/sq cm) uPVC/PVC	rm	174.0			
125	Vertical 110mm stack	rm	416.0			
126	Vertical 75mm stack	rm	27.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
127	Supply and installation of 6nos solar pannel of size 1000x2000mm complete with 2 nos of Over head Hot Water Storage of 300 liter stainless steel water tank 304 grade steel with Inlet, outlet, over flow, cleanout hole etc. also with stands, pipe connections, valves, testing and ready for operation with all complete set as per specifications and engineer instructions.	job	1.0			
128	Supply and installation of MS stage for the overhead water tank with ladder and ready for operation with all complete set as per specifications and engineer instructions.	set	1.0			
129	Supplying and fixing CPVC PIPES FOR WATER SUPPLY:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK 50 mm dia CPVC Pipe SDR 11 CTS, 22.5 kg/cm <sup>2</sup>	rm	3376.0			
130	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 50 mm dia CPVC Ball Valve, CTS Socket all complete.	no	25.0			
131	Soil waste vent and rain water pipe line of NS testing the pipe line by the smokig OD 160mm (6.0 kgf/sq cm) uPVC/PVC	rm	270.0			
132	Supplying and fixing HDPE:- High density polethene pipe with fittings/ specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction of engineer. High density polethene pipe 160mm. Dia	rm	745.0			
133	Construction of Brick masonry manhole of differents internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover,450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm with all complete set as per specification and instruction of engineer. Internal size 450x450 mm	set	30.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
134	Construction of Brick masonry manhole of different internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover, 450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm with all complete set as per specification and instruction of engineer. Internal size 600x600 mm	set	23.0			
135	Construction of Brick masonry manhole of different internal size with 230 mm thick Brick masonry in 1:4 cement mortar, 100mm thick RCC 1:2:4 slab cover, 450x450 mm CI Manhole cover with frame (medium duty), cement plaster inside, height varies from less than 600mm with all complete set as per specification and instruction of engineer. Internal size 900x900 mm	set	5.0			
136	Supply, Fixing of Stainless Steel Grease Trap (FOG) Interceptor of 25L and (40x25x25)cm with complete set including testing and ready for operation as per specifications and engineer instructions all complete set.	job	3.0			
137	Providing and laying RCC hume pipes (NP2) of size 150mm with or without collars, jointed with stiff mixture of cement mortar (1 cement:2 fine sand). in road crossing drain all complete work as per drawings and the instruction of engineer.	rm	50.0			
138	Electric centrifugal water pump with motor of capacity 60 liters per minute at 25m head (approx. 1.5HP motor) complete with starter, electric cable, check valve, automatic pump controller with high and low level sensors and cable etc as per drawings and the instruction of engineer.	set	5.0			
139	Supply and fixing of Non-Return Valve including jointing materials all complete set as per specifications and instruction of engineer.	set	5.0			
140	Supply and fixing of pressure gauge including jointing materials all complete set as per specifications and instruction of engineer.	set	5.0			
141	Construction of underground watertank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty rcc 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete as per drawing, specifications and instruction of engineer. Internal size (6x3x1.5)m	job	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
142	Construction of Rain Water Collection Tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty CI 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete work as per drawing, specifications and instruction of engineer .Rain water Collection Tank 1 (8.33x6x2)m	job	1.0			
143	Construction of Rain Water Collection Tank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, medium duty CI 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete work as per drawing, specifications and instruction of engineer .Rain water Collection Tank 2 (6x4.2x2)m	job	1.0			
144	Construction of Recharge Pit size 2m dia *3m depth including earthwork excavation, flat brick soling, P.C.C, R. C.C. cover slab/wall, etc., all complete set as per drawing, specifications and instruction of engineer .	no	15.0			
145	Construction of sump pit (800*800*700)mm internal size including earthwork in excavation, backfilling, flat brick soling, M15 P.C. C, RCC M15 including 12.5mm cement plaster(1:4) with 3mm thick punning on internal walls,12mm dia rebar, formworks etc., all complete work as per drawing, specification and instruction of engineer.sump pit (800*800*700)mm	no	2.0			
146	Submersible water pump with motor of capacity 7800 liters per hour at 12m head (approx. 1HP motor) with starter, electric cable, check valve, automatic pump controller with high and low level sensors and cable etc., all complete set as per drawing, specification and instruction of engineer.	no	2.0			
147	50mm UPVC Pipe	rm	38.0			
148	Hydrant System : Landing Valve, Single Outlet Gunmetal Copper Alloy Body conforming EN1982, BS 336:2010 Standard, Kitemark/LPCB approved and certificate required, 65 mm Oblique Flanged inlet, Working Pr. 15 Bar, Flow 8.5 L/s @ 4 Bar, Handwheel Grey Cast Iron to BS EN 1561. Make : Naffco/Tyco/Evesafe/Minimax.	Set	5.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
149	Hose Pipe Single Jacket Fire Hose 2.5" x 15 mtrs. in red colour made of synthetic woven textile reinforcement outside and high tensile synthetic rubber from inside to BS 6391. It should be maintainance free and should not need drying, unaffected by mildew, rot proof, abrasion resistance and excellent resistance to ozone, along with Gun Metal instantaneous hose coupling male and female type, 63 x 63 with self locking nut. Make : Naffco/Tyco/Evesafe/Minimax.	Set	5.0			
150	Nozzle / Branch Pipe Branchpipe handheld, 63 mm, Body & tip aluminium, pipe as polyamide complying BS EN 15182-1:2007 & BS EN 15182-3:2007+A1:2009, BSI Kitemark approved and certificate required, flow control through shut, jet & spray, working pr. 16 Bar, length - 445 mm. Make : Naffco/Tyco/Evesafe/Minimax.	Set	5.0			
151	Fire Hose Reel Swinging Arm Type automatic, 3/4" dia x 30 mtrs. Length, reel dia 550 mm & depth 230 mm to BS EN671-1 certificate required, working pr. 12 bar, burst pr. 50 bar, inlet stop valve 1" brass in chrome finish. Make : Naffco/Tyco/Evesafe/Minimax.	Set	5.0			
152	Hose Box, Fire Hose Cabinet for Hose Reel & Landing Valve and branchpipe, surface mounted/recessed, Double door. MS powder coated in red colour. Size : 1490 x 720x 280mm Make : Naffco/Tyco/Evesafe/Minimax.	Set	5.0			
153	Providing and fixing standard firemans axe with heavy rubber handle. Naffco/Tyco/Evesafe/Minimax.	set	5.0			
154	Fire Hydrant Post Stand post Two way 3" female inlet connection made of aluminium alloy suitable for installation on underground hydrants to BS336:2010 with screwed inlet threaded male instantaneous connection. Outlet connection 2 x 2 1/2" instantaneous coupling to BS336, test pressure 24 bar. Upper part should be rotatable to 360 degree for operation. It should be BSI Kitemark and certificate required. Make : Naffco/Tyco/Evesafe/Minimax.	set	2.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
155	MS pipes Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of supports, anchor fasteners, bolts nuts (Galvanised), clamps, "U" bolts, etc, as per drawings and technical specification complete. Make : Hulas / Mainawati / Rajesh / Jagdamba Equivalent 100 mm dia	mtrs	31.0			
156	MS pipes Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of supports, anchor fasteners, bolts nuts (Galvanised), clamps, "U" bolts, etc, as per drawings and technical specification complete. Make : Hulas / Mainawati / Rajesh / Jagdamba Equivalent 65 mm dia	mtrs	4.0			
157	MS pipes Heavy grade and Heavy 'C' Class MS with fittings such as Reducers, Tees, elbows, flanges; Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports with suitable type of supports, anchor fasteners, bolts nuts (Galvanised), clamps, "U" bolts, etc, as per drawings and technical specification complete. Make : Hulas / Mainawati / Rajesh / Jagdamba Equivalent 25 mm dia	mtrs	2.0			
158	Painting of MS pipe with metal primer and two coat of RED enamel complete. Make : NS approved. 100 mm dia	mtrs	31.0			
159	Painting of MS pipe with metal primer and two coat of RED enamel complete. Make : NS approved. 65 mm dia	mtrs	4.0			
160	Painting of MS pipe with metal primer and two coat of RED enamel complete. Make : NS approved. 25 mm dia	mtrs	2.0			
161	Ball Valve, full bore, 1" NPT female/female, 42 bar working pressure, brass body and steel handle. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	5.0			
162	Pressure Guage, 90 mm dial, 1/4" BSPT, 0-21 Kg/cm2 range direct mounting type with Siphon made of polished SS case, hardened glass window. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
163	Air Release Valve, 1" It should be made of brass, 1" male BSP inlet, 350 PSI test pressure. Make : Shield/Naffco/Tyco/Honeywell	Nos	1.0			
164	Fire Extinguisher, ABC Dry Powder, 6 Kg. It should be monoammonium phosphate based dry chemical agent with high quality polyster paint CRCA steel, brass nickel plated head, 15 bar owrking pressure conforming to 97/23/EC (PED). It should be Kitemark/LPCB certified to BS EN3, CR marked and LPCB approval. Fire Rating 34A 183B. It should be supplied with powder coated, factory manufactured wall bracket. Certificates required. Make : Naffco/Tyco/Evesafe/Minimax.	Nos	6.0			
165	Fire Extinguisher, CO2, 5 Kg. It should be made of Carbon Steel with outer polyster paint, brass head vakve , Test pressure of 250 Bar conforming to 2014/68/EU (PED) & certified to BSI (0086). It should be Kitemark/LPCB certified to BS EN3, CE marked and LPCB approval. Fire Rating 55B. It should be supplied with powder coated, factory manufactured wall bracket. Certificates required. Make : Naffco/Tyco/Evesafe/Minimax.	Nos	6.0			
166	Fire Pump, Main, Electrical End Suction, horizontal, back pull out, split casing, dimensions and characteristics conforming to DIN 24255 standards, CI-casing, SS-Impeller & Shaft coupled to 380-415 Volt, 3 pH, 2P, 50 Hz, 2950 RPM totally enclsloed fan cooled Electrical Motor. Flow : 144 m3/hr. Head : 75 mtrs. Make : Naffco/Grundfos/Wilo	Set	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
167	<p>Fire Pump, Diesel Engine End Suction, horizontal, back pull out, split casing, dimensions and characteristics conforming to DIN 24255 standards, CI-casing, SS-Impeller &amp; Shaft coupled to direct 4-stroke compression ignition type, injection type, mechanical governor type, long multi hole nozzle, in-line, 4 cylinder, 4.085L, 2950 RPM diesel engine.</p> <p>It should have 12V or 24V electric starter motor with vacuum pump.</p> <p>Exhaust system should consists of 90 degree bend, exhaust silencer and flexible exhaust connector. Exhaust pipe of of up to 6 mtr. length (discharge to leave above roof level as per standard) with 50 mm thick glasswool pipe section, covered with aluminium cladding.</p> <p>Day oil tank of 200 ltrs. with first charge of diesel fabricated out of 4mm MS sheet with inlet.</p> <p>Flow : 144 m3/hr. Head : 75 mtrs. Make : Naffco/Grundfos/Wilo</p>	Set	1.0			
168	<p>Jockey Pump, Electrical Multistage SS304 vertical pump conforming to ISO2548C/DIN1944/III and EN60034 standards, CI-casing, SS304-Impeller, Shaft, Base coupled to 380-415 Volt, 3 pH, 50 Hz, 2900 RPM, Eff.2, insulation class F, IP55 motor.</p> <p>Flow : 11 m3/hr. Head : 75 mtrs. Make : Naffco/Grundfos/Wilo</p>	Set	1.0			
169	<p>Hydroneumatic vessel (pressure tank) Carbon Steel vertical having electrostatic powder coating with flanged inlet connection from pump, connection for drainout, Pressure Gauge, air relief valve etc. complete set suitable for a working pressure of minimum 10 kg/cm2. It should be in accordance to 2014/68/EU Pressure Equipment Directive and TS-EN 13831 standards. It should have interchangeable bladder according to DIN 4807-3 norms, EPDM standard. Capacity : 500L Make : Naffco/Grundfos/Wilo/NEMA</p>	Set	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
170	Fire Electrical Control panel Powder coated 1.8 mm thick GI, floor mounted suitable for 380-415V AC 3 phase 4 wire 50Hz supply system. It should have triangular lock with key, bush pin hinges, IP54. The panel should be suitable for manual and automatic operation of Main fire pump, Jockey Pump & Fire Diesel Engine Pump (To run automatically in case of power failure) complete with push button type water level guards, auto starting system, having Ammeter, Voltmeter, MCCB Aluminium Bus Bars, continuous earth bar, panel separators, protective screens, cable clamping support system, top/bottom cable gland plates for incoming and outgoing cable entries. Make : Naffco/Grundfos/Wilo	Set	1.0			
171	Gate Valve 80-100 mm, Flanged, 175 psi, cast iron body, SS stem. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	7.0			
172	Flexible Coupling 80-100 mm, Flanged. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	7.0			
173	Pressure Switch, 1/2" NPT with sensitivity adjustment wheel, reinforced diaphragm resists pressure spikes, two conduit entrances as per NFPA. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	1.0			
174	Float Switch, 2"-4" size, 15-38LPM flow sensitivity range, 450 PSI working pressure, fusion bonded epoxy coated inside as per NFPA. It should be UL listed & FM approved and certificate required. Make : Shield/Naffco/Tyco/Honeywell	Nos	1.0			
175	Suction Manifold with matching Flanged ends should be made of Heavy C class MS pipes.	Set	1.0			
176	Discharge Manifold with matching Flanged Ends should be made of Heavy C class MS pipes.	Set	1.0			
177	Electrical Cabling with Conduits and connections approved for fire applications.	Lot	1.0			
178	Skid For Fire Pumps made of epoxy coated steel frame.	Lot	1.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
179	Construction of Pump House internal (3x2x3)m including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, CGI roofing etc., all complete set as per drawing, specifications and instructions of engineer.	job	1.0			
180	Construction of Firefighting watertank including earthwork excavation, flat brick soling, P.C.C, R.C.C. cover slab/wall, cement plaster with punning on internal walls, slab bottom & top, RCC 600 mm x 600 mm manhole cover pipe sleeves, etc., all complete set as per drawing, specifications and instructions of engineer. Internal size (6x4.2x2)m	job	1.0			
181	Light , Fan point and 5 Ampere Power Point wiring , with required materials and labour all complete , PVC rigid Conduit for ceiling circuits and concealed for switches and circuits emanating from Main DB or concerned DB. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata Wiring installation for Lights and fans points on Mains / Essential supplies with mains and submains running basically under ceiling and on walls for circuits , switch controls for lights and fans and for wall fans / brackets lights with 2 nos. 2.5 + 1 nos. 1.5 sq. mm stranded flexible PVC insulated copper wire in PVC conduit , with all required fixing accessories including chasing / chiseling of wall and making good of the same	Pts	426.0			
182	Wiring Power Points for 13/16 A power outlets with 3 nos. 16 ampere 3 Pin Round or 3 - 4 nos. 13 ampere universal pin outlets , in one circuit and supplied from Mains / Essential section of DB , in concealed PVC Conduit with 2*4.0 sq.mm + 1*2.5 sq.mm Stranded PVC insulated copper wires in basically concealed PVC conduit laid in floor and partly under wall for circuits and for terminals including chiselling / chasing of wall and making good of the same including providing Surface Fixed Double lock type Battens for circuits to Outlets under Counters / Work tables in coordination with other concerned trade / s ). Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata	Pts	298.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
183	Supply and installation of Convenience Outlets with required surface / concealed mounting boxes. All Switches and outlets shall be Modular Fitting Northwest/Schneider/L&T/Legrand make. Samples shall be submitted before installation 13 amp Universal Pin single Power Socket flush mounted with GI box	Nos	150.0			
184	Supply and installation of Convenience Outlets with required surface / concealed mounting boxes. All Switches and outlets shall be Modular Fitting Northwest/Schneider/L&T/Legrand make. Samples shall be submitted before installation 16 amp Switch Socket flush mounted with GI box	Nos	148.0			
185	Supply and installation of following light and fan fixtures. All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make . Samples shall be submitted for approval for all types 12 watt Surface mounted LED Down Lighter Fixture , 6" with inbuilt LED driver and all required fixing accessories	Set	96.0			
186	Supply and installation of following light and fan fixtures. All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make . Samples shall be submitted for approval for all types 36 watt LED Panel light fixture 2'x2' surface type with inbuilt LED Driver with lumen efficiency>100 lumen/watt	Set	260.0			
187	Supply and installation of following light and fan fixtures. All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make . Samples shall be submitted for approval for all types 20 watt LED tubelight 1200mm long with inbuilt LED Driver	Set	42.0			
188	Supply and installation of following light and fan fixtures. All LED Lighting and Fan Fixtures shall be of Wipro/Philips/Crompton make . Samples shall be submitted for approval for all types Mirror Light with 10 Watt LED Lamp and Inbuilt LED Driver	Set	18.0			
189	12" Exhaust Fan with metallic diffuser (Make:Usha/Bajaj/Almonard/Crompton)	Set	10.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
190	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation. 1 gang switch	Nos	37.0			
191	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation. 2 gang switch	Nos	29.0			
192	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation. 3 gang Switch	Nos	20.0			
193	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation.4 gang Switch	Nos	9.0			
194	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation.6 gang Switch	Nos	5.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
195	Supply and fixing of, including making necessary connections, following light control switches 1 way/2 way, 10 amp outlet , with facia plate/s, modular units and Flush mounting GI Boxes including fixing and making good of wall surface. All Switches and outlets shall be Modular Fitting Northwest/ Scheider/L&T/Legrand make. Samples shall be submitted before installation. 2 gang 2 way Switch	Nos	13.0			
196	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 3.5C 240 Sq.mm Aluminium Armoured Cable as incomer to Main Electrical Panel	Rm	150.0			
197	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 4C 150 Sq.mm Aluminium Armoured Cable as incomer to Main Electrical Panel	Rm	140.0			
198	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 4*70 Sq.mm XLPE Copper Cable as incomer to MDB	Rm	585.0			
199	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 4*10+1x4 sq.mm Copper Cable, unarmoured from MDB to Floor DB's	Rm	240.0			
200	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 4*6+1*2.5 sq.mm Copper Cable, unarmoured from MDB to Floor DB's	Rm	210.0			
201	Supply , laying and connection of following copper cables/wires with PVC Pipe sleeves. Wires shall be copper , stranded and make/ brand shall be LVU/ Mahalaxmi/ Prime/Janata 2*6+1*2.5 sq.mm Copper Cable, unarmoured from MDB to Floor DB's	Rm	490.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
202	Fabricating and installing following size of perforated pre galvanised cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required including all fixing and support accessories such as tie rod, anchor bolt etc all complete 150 mm. width x 50 mm. depth x 2 mm. thickness	Rm	80.0			
203	Fabricating and installing following size of perforated pre galvanised cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required including all fixing and support accessories such as tie rod, anchor bolt etc all complete 200 mm. width x 50 mm. depth x 2 mm. thickness	Rm	75.0			
204	Supply, fabrication and installation of pre galvanised factory built in ladder type cable trays complete with all bends, tees, elbows, reducers etc. with rungs at every 250mm spacing of various width in two tier/three tier/ five tier fashion either on one side of the wall or on two sides of the wall or at other places and paint afterward if required. (All bends & tees shall be of factory built-in of same make as that of tray) including all fixing and support accessories such as tie rod, anchor bolt etc all complete 200 mm tray, 2.0 mm thick, (25x75x25 side channel) (rung - 15 x35 x 15 mm)	Rm	20.0			
205	Supply, fabrication and installation of pre galvanised factory built in ladder type cable trays complete with all bends, tees, elbows, reducers etc. with rungs at every 250mm spacing of various width in two tier/three tier/ five tier fashion either on one side of the wall or on two sides of the wall or at other places and paint afterward if required. (All bends & tees shall be of factory built-in of same make as that of tray) including all fixing and support accessories such as tie rod, anchor bolt etc all complete 300 mm tray, 2.0 mm thick, (25x75x25 side channel) (rung - 15 x35 x 15 mm)	Rm	20.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
206	Supply and embedding of Earth station comprising of 600mm*600mm*3.15mm copper plate, as earth electrode, approx. and average 18m long 35Sq.mm Cu Wire, in PVC Pipe sleeve, as earth lead brazet to electrode and leading to Main DB and system, with perforated GI Pipe connected to electrode in series for reinforcement of earth resistance and also for watering purpose including pipe making and refilling in layers of compacted earth after filling to the top brim of electrode with alternate layers of salt and charcoal, all complete together with making of RCC Slab covered watering chamber of minimum 300*300*300mm brick masonry (in C/S Mortar) chamber	Set	3.0			
207	Supply and installation of class A "ESE Lightning protection Device for building protection as per standard NFC-17-102.It should made of stainless steel with a delta T of 60 microseconds.The device shall be installed at a height of 4 mtr.from the roof of the building using a GI mast. The device shall be connected to the Earth pit using the copper tape of 25 x 3 mm. This copper tape shall run firmly along the side of the mast with the help of spacers.It shall be ensure that this down conductor shall not touch the building throughout.The down conductor shall be connected to the earth electrodes using clamps. (Make :Schirtek, ALLTEC, LPI, ABB.)	Set	1.0			
208	Lightning pad set with stay wire ,GI pole,metal greep ,shaddle,connecor greep and soldering.etc	Set	1.0			
209	Lightning Strike Counter	Set	1.0			
210	Copper strip fiber clamp,screw,greep with 2 vult type.(c-curv)	Set	1.0			
211	25 mm Cu strip 3 MM thickness with Cu clamp accessories all complete	Rm	120.0			
212	Design,fabrication,assembling,supply, installation,testing and commissioning of Earth box size L 450mm x W 300mm x D 150 mm made out of pre-galvanized sheets 1.2mm sheet steel and glazed steel door with acrylic, enclosure with 25x6 tinned cu strip with 10 holes & brassnut bolt & washer .	Set	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
213	Supply , installation , testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards , as per Distribution Diagram , fabricated out of 16SWG CRCA Sheet , double covered , hinged and lockable , provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. MCCB , MCB shall be Schneider/Siemens/Lawson/Legrand . The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus. Main Distribution Board (MDB) 1 no. of 400A TPN MCCB, 36kA as incomer, 3 nos. of 40A TPN MCCB, 25kA as incomer, 4 nos. 32A TP MCCB, 25kA , 12 nos. 25A TP MCCB, 25kA, 4 nos. 25A TP MCB, 10kA , 8 nos. 16A TP MCB, 10kA, 44 nos. 16A DP MCB, 10 kA, 1* 25 kA Surge Protection Device. Ammeter , Voltmeter with selector switches and appropriate CT's for Ammeter , RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.100A TPNE Copper Bus on hylam insulation supports- 3 sets and 800A TPNE Copper Bus on hylam insulation supports- 1 sets	Set	1.0			
214	Supply , installation , testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards , as per Distribution Diagram , fabricated out of 16SWG CRCA Sheet , double covered , hinged and lockable , provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. MCCB , MCB shall be Schneider/Siemens/Lawson/Legrand . The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus. DB-BA . 4 nos 6 16 A SP MCB outgoing for Light , power and spare circuits , 60 A TPNE Copper Bus on hylam insulation supports - 4 sets. Ammeter , Voltmeter with selector switches and appropriate CT's for Ammeter , RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.	Set	1.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
215	Supply , installation , testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards , as per Distribution Diagram , fabricated out of 16SWG CRCA Sheet , double covered , hinged and lockable , provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. MCCB , MCB shall be Schneider/Siemens/Lawson/Legrand . The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus. Typical DB- GF 2 DB FF 1 and DB SF 1 comprising of following 4 nis 16 A DP MCB as Incomer , 24 nos 6 16 A SP MCB outgoing for Light Power and Spare circuits , ^) A TPNE Copper Bus on hylam insulation supports 0 4 sets . Ammeter , Voltmeter with selector switches and appropriate CT's for Ammeter , RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.	Set	4.0			
216	Supply , installation , testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards , as per Distribution Diagram , fabricated out of 16SWG CRCA Sheet , double covered , hinged and lockable , provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. MCCB , MCB shall be Schneider/Siemens/Lawson/Legrand . The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus. Typical DB-FF 2, DB SF 2 and DB TF comprising of following . 4 nos 25 A TP MCB as incomer , 48 nos 6 16 A SP MCB outgoing for Light , power and spare circuits , 60 A TPNE Copper Bus on hylam insulation supports - 4 sets. Ammeter , Voltmeter with selector switches and appropriate CT's for Ammeter , RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.	Set	3.0			

## Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
217	Supply , installation , testing and commissioning of Wall Flush mounting type Main Panel and Distribution Boards , as per Distribution Diagram , fabricated out of 16SWG CRCA Sheet , double covered , hinged and lockable , provided with 2 coats each of Primer and Epoxy / Duco paints after 7 tank treatment and comprising of following. MCCB , MCB shall be Schneider/Siemens/Lawson/Legrand . The allowable current density shall be not more than 2.1 Amps per sq.mm cross sectional area of Copper Bus. Typical Sub Distribution Boards for laboratory and student workspace (SDB1- SDB8 )comparising of following . 4 nos 16 DP MCB as incomer 12 nos 6 16 A SP MCB outgoing for Light , power and spare circuits , 60 A TPNE Copper Bus on hylam insulation supports - 4 sets. Ammeter , Voltmeter with selector switches and appropriate CT's for Ammeter , RYB Indicator lamps and 3* 6A SP MCB voltmeter and Indicator lamp protection.	Set	8.0			
218	Supply, Installation, Testing and Commissioning of the following: Wiring for fire alarm System equipment smoke detector, heat detector, manual call point and sounder points with 2 core 1.5 sq.mm. FRLS insulated copper cable in concealed PVC Conduit run on walls / false ceiling , and from System Junction located at System Room	Nos	134.0			
219	Supply and Installation of Photo Electric smoke detector	Set	94.0			
220	Supply and Installation of Rate of Rise heat detector	Set	14.0			
221	Supply and Installation of Conventional type Manual Call Point	Set	13.0			
222	Supply and Installation of ceiling mount sounder with strobe	Set	13.0			
223	Supply and installation of conventional 8 Zone Panel	Set	1.0			
224	Cubes or cylinder crushing	nos	414.0			
225	Brick Crushing Test	nos	51.0			
226	Brick Water Absorption Test	nos	51.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
227	Brick Efflorescence Test	nos	51.0			
228	Sieve Analysis (Wet)	nos	51.0			
229	Sieve Analysis (Dry)	nos	51.0			
230	U.T.M. Tensile Strength Test 8mm Ø	nos	51.0			
231	U.T.M. Tensile Strength Test 10mm Ø	nos	51.0			
232	U.T.M. Tensile Strength Test 12mm Ø	nos	51.0			
233	U.T.M. Tensile Strength Test 16mm Ø	nos	51.0			
234	U.T.M. Tensile Strength Test 20mm Ø	nos	51.0			
235	U.T.M. Tensile Strength Test 25mm Ø	nos	51.0			
236	U.T.M. Tensile Strength Test 28mm Ø	nos	51.0			
237	Cement mortar cube Crushing 3 Nos. *each lot	nos	51.0			
238	Initial setting & Final Setting	nos	17.0			
<b>Total of Procurement Items</b>						
<b>Total Item Price</b>						
<b>VAT</b>						
<b>Grand Total</b>						