

BIDDING DOCUMENT
for
THE PROCUREMENT OF

Construction of 225 cubic meter Over Head Tank for Bedkot Water Supply Project

National Competitive Bidding (NCB)

IFB No: 34/079-80/fwssmp/kanchanpur

Contract Identification No. : 34/079-80/fwssmp/kanchanpur

Federal Water Supply and Sewerage Management Project, Kanchanpur

Issued on: 02-02-2023 00:00

Abbreviations

BDS.....	Bid Data Sheet
BD	Bidding Document
DCS.....	Delivery and Completion Schedule
DP	Development Partner
EQC	Evaluation and Qualification Criteria
GCC	General Conditions of Contract
GoN	Government of Nepal
ICC.....	International Chamber of Commerce
IFB	Invitation for Bids
Incoterms.....	International Commercial Terms
ITB	Instructions to Bidders
LGRS	List of Goods and Related Services
NCB	National Competitive Bidding
NA.....	Not Applicable
PAN	Permanent Account Number
PPA	Public Procurement Act
PPR	Public Procurement Regulation
PPMO	Public Procurement Monitoring Office
SBD.....	Standard Bidding Document
SBQ.....	Schedule of Bidder Qualifications
SCC.....	Special Conditions of Contract
SR	Schedule of Requirements
TS.....	Technical Specifications
UNCITRAL	United Nations Commission on International Trade Law
VAT	Value Added Tax

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Invitation for Bids

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Federal Water Supply and Sewerage Management Project, Kanchanpur

Invitation for Bids No.: 34/079-80/fwssmp/kanchanpur

Date of publication: 02-02-2023 00:00

1. Federal Water Supply and Sewerage Management Project, Kanchanpur invites sealed bids or electronic bids from Nepalese eligible bidders for the construction of Construction of 225 cubic meter Over Head Tank for Bedkot Water Supply Project under National Competitive Bidding procedures.
The estimated amount for the works is Rs. (in NRs) 12600038.92 (Exclusive of VAT and Contingencies)
2. Eligible Bidders may obtain further information and inspect the bidding document at the office of Federal Water Supply and Sewerage Management Project, Kanchanpur, Bhimdattanagar, Kanchanpur, Mahendranagar, Kanchanpur, Sudoor Pachism Province, Nepal or may visit PPMO website www.bolpatra.gov.np/egp.
3. Bidder who chooses to submit their bid electronically may purchase the hard copy of the bidding documents as mentioned above or may download the bidding documents for e-submission from PPMO's Web Site www.bolpatra.gov.np/egp. Bidders, submitting their bid electronically, should deposit the cost (as specified above) of bidding document in the Project's Rajaswa (revenue) account as specified below and the scanned copy (pdf format) of the Bank deposit voucher shall be uploaded by the bidder at the time of electronic submission of the bids. Information to deposit the cost of bidding document in Bank:

Name of the Bank:	Rastriya Banijya Bank Ltd.
Name of Office:	Federal Water Supply and Sewerage Management Project, Kanchanpur
Office Code no:	313017601
Office Account no:	1000100200010000
Rajaswa (revenue) Shirshak no.:	14229
4. Pre-bid meeting shall be held at Federal Water Supply and Sewerage Management Project, Kanchanpur at 24-02-2023 13:00 hours.
5. Sealed or electronic bids must be submitted to the office Federal Water Supply and Sewerage Management Project, Kanchanpur, Bhimdattanagar, Kanchanpur, Mahendranagar, Kanchanpur, Sudoor Pachism Province, Nepal by hand/courier or through PPMO website www.bolpatra.gov.np/egp on or before 06-03-2023 12:00. Bids received after this deadline will be rejected.
6. The bids will be opened in the presence of Bidders' representatives who choose to attend at 06-03-2023 13:00 at the office of Federal Water Supply and Sewerage Management Project, Kanchanpur
Bhimdattanagar, Kanchanpur
Mahendranagar, Kanchanpur
Sudoor Pachism Province
Nepal. Bids must be valid for a period of 90 days after bid opening and must be accompanied by a bid security or scanned copy of the bid security in .pdf format in case of e-bid, amounting to a minimum of NRs. 356000.0, which shall be valid for 30 days beyond the validity period of the bid.
7. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid security shall remain the same as specified for the original last date of bid submission.
8. Evaluation and Qualification Criteria:

Bidder's Participation in Bidding Process:

Bidder's Participation in not more than five (5) bidding process since 2078-12-03 i.e. March 17, 2022 as described in ITB Sub-Clause 4.8.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : existing or intended JV must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : ELI-3

Other Eligibility: Firm Registration Certificate:

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

Other Eligibility: Business Registration Certificate (License):

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

Other Eligibility: VAT and PAN Registration certificate:

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

Other Eligibility: Tax Clearance certificate:

Tax clearances certificate for the F/Y 78/79. or Tax return submission evidence or evidence of tax time extension for.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

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Part - I Bidding Procedures

Section I – Instruction to Bidders

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SECTION– I: Instructions to Bidders

A. General	
1. Scope of Bid	<p>1.1 In connection with the Invitation for Bids indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of Works as specified in Section V (Works Requirements). The name, identification, and number of Contracts of the National Competitive Bidding (NCB) are provided in the BDS.</p> <p>1.2 Throughout this Bidding Document:</p> <ul style="list-style-type: none"> (a) the term “in writing” means communicated in written form and delivered against receipt; (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and (c) “day” means calendar day.
2. Source of Funds	<p>2.1 GoN Funded: In accordance with its annual program and budget, approved by the GoN, the implementing agency indicated in the BDS plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued.</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 indicated in the BDS plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued.</p> <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”) indicated in the BDS toward the cost of the project named in the BDS. The GoN intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.</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 under GoN/DP-financed contracts, shall adhere to the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this;</p> <ul style="list-style-type: none"> (a) the Employer adopts, for the purposes of this provision, the terms as defined below: <ul style="list-style-type: none"> (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party; (ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an

	<p>obligation;</p> <p>(iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;</p> <p>(iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.</p> <p>v) “obstructive practice” means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an investigation; (b) making false statements to investigators in order to materially impede an investigation; (c) failing to comply with requests to provide information, documents, or records in connection with an investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding GoN/DP’s contractual rights of audit or access to information; and</p> <p>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.</p> <p>(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;</p> <p>(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.</p> <p>(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> <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>

	<p>(a) give or propose improper inducement directly or indirectly,</p> <p>(b) distortion or misrepresentation of facts,</p> <p>(c) engaging in corrupt or fraudulent practice or involving in such act,</p> <p>(d) interference in participation of other competing bidders,</p> <p>(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,</p> <p>(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,</p> <p>(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.</p> <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> <p>(a) if convicted by a court of law in a criminal offence which disqualifies the Bidder from participating in the contract,</p> <p>(b) if it is established that the contract agreement signed by the Bidder was based on false or misrepresentation of Bidder’s qualification information,</p> <p>(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.</p> <p>(d) if the successful bidder fails to sign the contract.</p> <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, shall 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> <p>(a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. Maximum number of JV shall be as specified in the BDS. The eligibility criteria requirement of the parties to the JV shall be as specified in Section III Evaluation and Eligibility Criteria, and</p> <p>(b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during Contract execution.</p> <p>4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of any country</p>

	<p>or eligible countries mentioned in the BDS. 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. if any of, including but not limited to, the following apply:</p> <ul style="list-style-type: none"> (a) they have controlling partners in common; or (b) they receive or have received any direct or indirect subsidy from any of them; or (c) they have the same legal representative for purposes of this bid; or (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or improperly influence on the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or (e) a Bidder participates in more than one bid in this bidding process either individually or as a partner in a joint venture. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3 (a)-(d) above, this does not limit the participation of the same subcontractor in more than one bid; or (f) a Bidder or any of its affiliated entity, participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or (g) a Bidder was affiliated with a firm or entity that has been hired (or is proposed to be hired) by the Employer as Engineer for the Contract.
	<p>4.4 A firm that is under a declaration of ineligibility by the GoN/DP in accordance with ITB 3, at the date of the deadline for bid submission or thereafter, shall be disqualified. A firm shall not be eligible to participate in any procurement activities under an DP-financed, -administered, or -supported project while under temporary suspension or 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"> (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. (b) DP Funded: as a matter of law or official regulation, Nepal prohibits commercial relations with that country, provided that the DP is satisfied that such exclusion does not preclude effective competition for the supply of goods or related services required; (c) DP Funded: a firm has been determined to be ineligible by the DP in relation to their guidelines or appropriate provisions on preventing and combating fraud and corruption in projects financed by them. <p>4.8 Maximum number of bidding process that a Bidder, and all parties constituting the Bidder can participate shall be as specified in BDS. The bidders shall be considered ineligible if number of participation in bidding process exceeds the number 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 ITB 4.2 above and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer’s request, Bidders may be required to provide evidence of the origin of materials, equipment and services.</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. Contents of Bidding Documents</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> <ul style="list-style-type: none"> Section I Instructions to Bidders (ITB) Section II Bid Data Sheet (BDS) Section III Evaluation and Eligibility Criteria (EEC) Section IV Bidding Forms (BDF) <p>PART II Requirements</p> <ul style="list-style-type: none"> Section V Works Requirements (WRQ) Section VI Bill of Quantities (BOQ) <p>PART III Conditions of Contract and Contract Forms</p> <ul style="list-style-type: none"> Section VII General Conditions of Contract (GCC) Section VIII Special Conditions of Contract (SCC) Section IX Contract Forms (COF)

	6.2 The Invitation for Bids issued by the Employer is not part of the Bidding Document.
	6.3 The Employer is not responsible for the completeness of the Bidding Document and their Addenda, if they were not obtained directly from the source stated by the Employer in the Invitation for Bids.
	6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document and to furnish with its bid all information and documentation as is required by the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.
7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting	7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer’s address indicated in the BDS or raise any question or curiosity during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received within the period as mentioned in ITB 7.5. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 17.2
	7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself, on its own risk and responsibility, all information that may be necessary for preparing the bid and entering into a Contract for construction of the Works. The costs of visiting the Site shall be at the Bidder’s own expense.
	7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
	7.4 The Bidder’s designated representative is invited to attend a pre-bid meeting, if provided for in the BDS . The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. 7.5 The Bidder is requested, as far as possible, to submit any questions in writing, to reach the Employer as mentioned in BDS .
	7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer as mentioned in BDS .
	7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting.
	7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
8. Amendment of Bidding Document	8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing 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 19.2
C. Preparation of Bids	
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10. Language of Bid	10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language specified in the BDS . Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the BDS , in which case, for purposes of interpretation of the Bid, such translation shall govern.
11. Documents Comprising the Bid	<p>11.1 The Bid shall comprise the following:</p> <ul style="list-style-type: none"> (a) Letter of Bid; (b) completed Bill of Quantities (BoQ), in accordance with ITB 12 and ITB 13, or as stipulated in the BDS; (c) Bid Security, in accordance with ITB 16; (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 17.2; (e) documentary evidence of establishing the Bidder's eligibility; (f) Bids submitted by a Joint Venture shall include a copy of the Joint Venture Agreement entered into by all partners. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all partners and submitted with the Bid, together with a copy of the proposed agreement. The Joint Venture agreement, or letter of intent to enter into a Joint Venture including a draft agreement shall indicate at least the parts of the Works to be executed by the respective partners; and (h) any other required documents, which is not against the provision of Procurement Act/Regulation/Directives and Standard Bidding Document issued by PPMO as specified in the BDS. <p>11.2 The Bidder is solely responsible for the authenticity of the submitted documents.</p>
12. Letter of Bid and Schedules	12.1 The Letter of Bid, Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms in Section IV (Bidding Forms) and in Section VI (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. Bid Prices and Discounts	<p>13.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Schedules shall conform to the requirements specified below.</p> <p>13.2 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 VI (Bill of Quantities).</p>

	<p>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.</p>
	<p>13.3 The price to be quoted in the Letter of Bid shall be the total price of the Bid, excluding any discounts offered. Absence of the total price in the Letter of Bid or the Bid Price in the Bill of Quantities shall result in rejection of the Bid.</p>
	<p>13.4 The Bidder shall quote any discounts and the methodology for their application in the Letter of Bid, in accordance with ITB 12.1.</p>
	<p>13.5 If so indicated in ITB 1.1, bids are invited for individual Contracts or for any combination of Contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 13.4, provided the bids for all Contracts are submitted and opened at the same time.</p>
	<p>13.6 Unless otherwise provided in the BDS and the Conditions of Contract, the prices quoted by the Bidder shall be fixed. If the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Table of Adjustment Data in Section IV (Bidding Forms) and the Employer may require the Bidder to justify its proposed indices and weightings.</p>
	<p>13.7 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>
14. Currency of Bid and Payment	<p>14.1 The currency of the bid and payment shall be in Nepalese Rupees.</p>
15. Period of Validity of Bids	<p>15.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Employer. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.</p>
	<p>15.2 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 16, 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>
16. Bid Security	<p>16.1 The Bidder shall furnish as part of its bid, in original form, a bid security as specified in the BDS. In case of e-submission of bid, the Bidder shall upload scanned copy of Bid security letter at the time of electronic submission of the bid. The Bidder accepts that the scanned copy of the Bid security shall, for all purposes, be equal to the original. The details of original Bid Security and the scanned copy submitted with e-bid should be the same otherwise the bid shall be non-responsive.</p>

	<p>16.2 The bid security shall be, at the Bidder's option, in any of the following forms:</p> <ul style="list-style-type: none"> (a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law or; (b) a cash deposit voucher in the Employer's Account as specified in BDS. <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 15.2.</p> <p>16.3 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>16.4 The bid security of unsuccessful Bidders shall be returned within three days, once the successful bidder has furnished the required performance security and signed the Contract Agreement pursuant to ITB 34.1 and 35.1.</p> <p>16.5 The bid security shall be forfeited if:</p> <ul style="list-style-type: none"> (a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 15.2: <ul style="list-style-type: none"> (i) during the period of bid validity specified by the Bidder on the 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 Bid, in case of hard copy submission. (b) a Bidder changes the prices or substance of the bid while providing information pursuant to clause ITB 24.1; (c) a Bidder involves in fraud and corruption pursuant to clause 3.1; (d) the successful Bidder fails to: <ul style="list-style-type: none"> (i) furnish a performance security in accordance with ITB 34.1; or (ii) sign the Contract in accordance with ITB 35.1 (iii) accept the correction of arithmetical errors pursuant to clause 28.1; <p>16.6 The Bid Security of a JV shall be in the name of the JV that submits the bid. If the JV 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>17. Format and Signing of Bid</p>	<p>17.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB 11 and clearly mark it ORIGINAL". In addition, the Bidder shall submit copies of the bid in the number specified in the BDS, and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail. In case of e-submission of bid, the Bidder shall submit his bid electronically in PDF or web forms files as specified in ITB Clause 18.1(b),</p> <p>17.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the bid. The name and position held by each person signing the authorization must be</p>

	<p>typed or printed below the signature. All pages of the bid, except for an amended printed literature, shall be signed or initialed by the person signing the bid.</p> <p>17.3 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>
D. Submission and Opening of Bids	
18. Sealing and Marking of Bids	<p>18.1 Unless otherwise specified in BDS, Bidders shall submit their bids by electronic or by mail/by hand/by courier. Procedures for submission, sealing and marking are as follows:</p> <p>(a) Bidders submitting bids by mail, by hand or by courier</p> <p>i. Bidders shall enclose the original and each copy of the Bid. These envelopes containing the original and the copies shall then be enclosed in one single envelope.</p> <p>ii. The inner and outer envelopes shall:</p> <p>(aa) bear the name and address of the Bidder;</p> <p>(bb) be addressed to the Employer as provided in BDS19.1;</p> <p>(cc) bear the specific identification of this bidding process indicated in BDS 1.1; and</p> <p>(dd) bear a warning not to open before the time and date for bid opening.</p> <p>iii. 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>(b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in BDS.</p>
19. Deadline for Submission of Bids	<p>19.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the BDS. In case of e-submission, the standard time for e-submission is Nepalese 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>19.2 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>
20. Late Bids	<p>20.1 The Employer shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 19. 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>
21. Withdrawal, and Modification of Bids	<p>21.1 A Bidder may withdraw, or modify its bid after it has been submitted either in hard copy or by e-submission. Procedures for withdrawal or modification of submitted bids are as follows:</p> <p>(i) Bids submitted in hard Copy</p> <p>a) Bidders may withdraw or modify its bids by sending a written notice in a sealed envelope, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 17.2 before 24 hours prior to the last deadline of submission of bid. The corresponding modification of the bid must accompany the respective written notice. All notices must be:</p> <p>(aa) prepared and submitted in accordance with ITB 17 and ITB 18, and in</p>

	<p>addition, the respective envelopes shall be clearly marked “WITHDRAWAL”, “MODIFICATION;” and</p> <p>(bb) received by the Employer twenty four hour hours prior to the deadline prescribed for submission of bids, in accordance with ITB 19.</p> <p>ii) E-submitted bids.</p> <p>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.</p> <p>21.2. Bids requested to be withdrawn in accordance with ITB 21.1 shall not be opened. In case of hard copy submission, the Bid will be returned unopened to the Bidders.</p> <p>21.3 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>21.4 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>21.5 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>21.6 The following provisions apply for withdrawal or modification of the Bids:</p> <p>(i) In case of bids submitted in hard copy no bid shall be withdrawn or modified in the interval between 24 hours prior to the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.</p> <p>(ii) In case of e-submitted bids no bids shall be withdrawn or modified in the interval between deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.</p> <p>21.7 Once a Bid is withdrawn, bidder will not be able to submit another bid for the same bid.</p>
<p>22. Bid Opening</p>	<p>22.1 The Employer shall open the bids in public at the address, date and time specified in the BDS in the presence of Bidders` designated representatives who choose to attend.</p> <p>22.2 The Employer shall download the e-submitted bid files. The e-procurement system allows the Employer to download the e-submitted bid files (report) only after bid opening date and time after login simultaneously by two members of the Bid opening committee.</p> <p>22.3 Electronically submitted 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 bids must be readable through open standards interfaces. Unreadable and or partially submitted bid files shall be considered incomplete.</p> <p>22.4 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 bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read</p>

	<p>out at bid opening. Only envelopes that are opened and read out at bid opening shall be considered further.</p> <p>22.5 All other envelopes shall be opened one at a time, reading out: the name of the Bidder; the Bid Price(s), including any discounts and alternative bids and indicating whether there is a modification; the presence of a bid security and any other details as the Employer may consider appropriate. Only discounts and alternative offers read out at bid opening shall be considered for evaluation. No bid shall be rejected at bid opening except for late bids, in accordance with ITB 20.1.</p> <p>22.6 The Employer shall prepare a record of the bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, or modification; the Bid Price, per Contract if applicable, including any discounts and alternative offers; 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>
E. Evaluation and Comparison of Bids	
23. Confidentiality	<p>23.1 Information relating to the examination, evaluation, comparison, 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>23.2 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>23.3 Notwithstanding ITB 23.2, 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>
24. Clarification of Bids	<p>24.1 To assist in the examination, evaluation, and comparison of the 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 prices or substance of the bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids, in accordance with ITB 28. In case of e-submission of bid, upon notification from the employer, the bidder shall also submit the original of documents comprising the bid as per ITB 11.1 for verification of submitted documents for acceptance of the e-submitted bid.</p> <p>24.2 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>
25. Deviations, Reservations, and Omissions	<p>25.1 During the evaluation of bids, the following definitions apply:</p> <p>(a) "Deviation" is a departure from the requirements specified in the Bidding Document;</p> <p>(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and</p> <p>(c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.</p>
26. Determination of Responsiveness	<p>26.1 The Employer's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB 11.</p> <p>26.2 A substantially responsive bid is one that meets the requirements of the Bidding</p>

	<p>Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,</p> <p>(a) if accepted, would:</p> <p>(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;</p> <p>or</p> <p>(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</p> <p>(b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.</p> <p>26.3 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>26.4 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 24.1, the bid shall not be considered for further evaluation.</p> <p>26.5 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.</p>
<p>27. Nonconformities, Errors, and Omissions</p>	<p>27.1 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>27.2 Provided that a 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 bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the bid. Failure of the Bidder to comply with the request may result in the rejection of its bid.</p> <p>27.3 Provided that a 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 Eligibility Criteria).</p> <p>27.4 If the monetary value of such non-conformities is found to be more than fifteen percent of the Bid Price of the bidder on account of minor discrepancies pursuant to ITB 27.3, such bid shall be considered non responsive and shall not be involved in evaluation.</p>
<p>28. Correction of Arithmetical Errors</p>	<p>28.1 Provided that the bid is substantially responsive, the Employer shall correct arithmetical errors on the following basis:</p> <p>(a) only for unit price Contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail</p>

	<p>and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;</p> <p>(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c) If there is a discrepancy between the bid price in the Summary of Bill of Quantities and the bid amount in item (c) of the Letter of Bid, the bid price in the Summary of Bill of Quantities will prevail and the bid amount in item (c) of the Letter of Bid will be corrected.</p> <p>(d) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) ,(b) and (c) above.</p> <p>28.2 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>29. Evaluation of Bids</p>	<p>29.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.</p> <p>29.2 To evaluate a bid, the Employer shall consider the following:</p> <ul style="list-style-type: none"> (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; (b) price adjustment for correction of arithmetic errors in accordance with ITB 28.1; (c) price adjustment due to discounts offered in accordance with ITB 13.4; (d) adjustment for nonconformities in accordance with ITB 27.3; (e) application of all the evaluation factors indicated in Section III (Evaluation and Eligibility Criteria); <p>29.3 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>29.4 If this Bidding Document allows Bidders to quote separate prices for different Lots (Contracts), and to award multiple Contracts to a single Bidder as specified in BDS, the methodology to determine the lowest evaluated price of the Contract combinations, including any discounts offered in the Letter of Bid, is specified in Section III (Evaluation and Eligibility Criteria).</p> <p>29.5 if the bid for an Unit Rate Contract, which results in the lowest Evaluated Bid Price is seriously unbalanced or front loaded or extremely low in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analysis, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder as mentioned in BDS to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract or may consider the bid as non-responsive.</p> <p>29.6 In case of e-submission bids, the Employer evaluates the bid on the basis of the</p>

	<p>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 24.1, the bid shall not be considered for further evaluation.</p> <p>29.7 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>
30. Comparison of Bids	30.1 The Employer shall compare all substantially responsive bids in accordance with ITB 29.2 to determine the lowest evaluated bid.
31. Employer's Right to Accept Any Bid, and to Reject Any or All Bids	31.1 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
F. Award of Contract	
32. Award Criteria	32.1 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.
33. Letter of Intent to Award the Contract/Notification of Award	33.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 32.1 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.
	33.2 If no bidder submits an application pursuant to ITB 36 within a period of seven days of the notice provided under ITB 33.1, the Employer shall, accept the bid selected in accordance with ITB 32.1 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.
34. Performance Security	<p>34.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security as under mentioned from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in accordance with the conditions of Contract using Sample Form for the Performance Security included in Section IX (Contract Forms), or another form acceptable to the Employer.</p> <p>i) If bid price of the bidder selected for acceptance is up to 15 (fifteen) percent below the approved cost estimate, the performance security amount shall be 5 (five) percent of the bid price.</p> <p>ii) For the bid price of the bidder selected for acceptance is more than 15 (fifteen) percent below of the cost estimate, the performance security amount shall be determined as follows:</p> <p>Performance Security Amount = $[(0.85 \times \text{Cost Estimate} - \text{Bid Price}) \times 0.5] + 5\%$ of Bid Price. The Bid Price and Cost Estimate shall be inclusive of Value Added Tax.</p>
	34.2 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

	<p>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 33.</p>
<p>35. Signing of Contract</p>	<p>35.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 34.1.</p> <p>35.2 At the same time, the Employer shall affix a public notice on the result of the award on its notice board and make arrangement for causing such notice to be affixed on the notice board also of the District Coordination Committee, District Administration Office, Provincial Treasury and Controller Office and District Treasury and Controller Office. The Employer may make arrangements to post the notice into its website, if it has; and if it does not have, into the website of the Public Procurement Monitoring Office, identifying the bid and lot numbers and the following information: (i) the result of evaluation of bid; (ii) date of publication of notice inviting bids; (iii) name of newspaper; (iv) reference number of notice; (v) item of procurement; (vi) name and address of bidder making contract and (vii) contract price.</p> <p>35.3 Within thirty (30) days from the date of issuance of notification pursuant to ITB 33.1 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>35.4 If the bidder whose bid is accepted fails to sign the contract as stated ITB 35.1, the Public Procurement Monitoring Office shall blacklist the bidder on recommendation of the Public Entity.</p>
<p>36. Complaint and Review</p>	<p>36.1 If a Bidder is dissatisfied with the Procurement proceedings or the decision made by the Employer in 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 33.1 by the Public Entity, for review of the proceedings stating the factual and legal grounds.</p> <p>36.2 Late application filed after the deadline pursuant to ITB 36.1 shall not be processed.</p> <p>36.3 The chief of Public Entity shall, within five (5) days after receiving the application, give its decision with reasons, in writing pursuant to ITB 36.1:</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.</p>

SECTION-II
Bid Data Sheet

A. General

ITB 1.1	The number of the Invitation for Bids is : 34/079-80/fwssmp/kanchanpur
ITB 1.1	The Employer is : Federal Water Supply and Sewerage Management Project, Kanchanpur
ITB 1.1	The number and identification of lots (contracts) comprising this bidding process is: : 34/79-80/fwssmp/kanchanpur
ITB 2.1	The name of the Project is : Construction of 225 cubic meter Over Head Tank for Bedkot Water Supply Project The implementing agency is : NA
ITB 4.1(a)	Maximum number of partner in a joint venture shall be : 3
ITB 4.2	Eligible countries : Nepal
ITB 4.8	

B. Bidding Document

ITB 7.1	For clarification purposes only, the Employer's address is: Attention: Lokendra Kanchanpur Address: Bhimdattanagar, Kanchanpur Kanchanpur Sudoor Pachism Province Telephone: 9841467574 Facsimile number: Electronic mail address: erlpyadav@gmail.com
ITB 7.4	A pre bid meeting shall be held. Pre-Bid meeting will take place at the following date, time and place: Date and Time:24-02-2023 13:00 Address :Federal Water Supply and Sewerage Management Project, Kanchanpur
ITB 7.4	A site visit shall not be organized by the Employer.
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no later than 10 days prior to the deadline for submission of bids.

C. Preparation of Bids

ITB 10.1	The language of the bid is: English / Nepali
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ITB 11.1 (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: NA	
ITB 11.1 (i)	The Bidder shall submit with its bid the following additional documents:	
	SL No	Document Name
	1	NA
ITB 13.6	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.	
ITB 15.1	The bid validity period shall be Ninety (90) days.	
ITB 16.1	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 356000.00 NPR, which shall be valid for 30 days beyond the validity period of the bid.	
ITB 16.2(b)	Bank Name: Rastriya Banijya Bank Ltd.	
	Bank Address:	
	Account Name: Dharuti	
	Account Number: 4180100102030000	
ITB 17.1	In addition to the original of the bid, the number of copy/ies is/are: NA	
ITB 17.2	<p>The written confirmation of authorization to sign on behalf of the Bidder shall indicate:</p> <p>(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</p> <p>(b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties</p> <p style="padding-left: 40px;">(i) stating that all parties shall be jointly and severally liable, and</p> <p style="padding-left: 40px;">(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.</p>	
D. Submission and Opening of Bids		
ITB 18.1	Bidders shall have the option of submitting their bids by electronic only.	

<p>ITB 18.1 (b)</p>	<p>Electronic bid submission procedure: (a) Bidders submitting Bids electronically shall follow the electronic bid submission procedures specified in this clause.</p> <ol style="list-style-type: none"> i. Bidders who choose to submit their bids electronically, can view/download the bidding documents from "published bids" section of e-GP system https://bolpatra.gov.np/egp. ii. For the purpose of e-Submission, the bidder shall, at first, register in e-GP system and maintain their organization profile data and documents required during bid response preparation. The details of e-GP registration and profile management procedure are specified in Article No 9 and 10 respectively of e-GP Directives issued by PPMO, which can be downloaded from Download section of e-GP system. iii. In order to submit the bid, interested bidders shall deposit the cost of bidding document in the bank and account specified in Invitation for Bid (IFB). The scanned copy (in PDF format) of the bank deposit voucher shall also be submitted along with the bid. iv. The bidders shall prepare their bids using data and documents maintained in bidder's profile, instruction provided by e-GP system and forms/format provided in the bidding document. v. Bidders may submit bids as a single entity or as a joint venture (JV). Bidder submitting bid in JV 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) shall update their profile data and documents required during preparation and submission of their 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. viii. Bidders shall submit the required documents as specified in Section I-Instruction to Bidders, Section II-Bid Data Sheet and Section III-Evaluation and Eligibility Criteria of the bidding document. The format of the documents shall be in PDF and/or web form as provisioned in the e-GP system. ix. After providing all the details and documents, the e-GP system will generate bid response documents for the bidder. Bidders shall download, verify and confirm the bid response documents prior to bid submission. x. 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 then only allow bidders to submit their bid. xi. Electronically submitted bids can be modified and/or withdrawn through the system within the bid submission deadline. xii. The bidder/bid shall meet the following requirements and conditions for e-submission of bids; <ol style="list-style-type: none"> aa) The e-submitted bids must be readable through PDF reader. bb) The bidders are fully responsible for using the e-GP system as per specified procedures and in no case the employer shall be held liable for bidder's inability to use the system. ac) When a bidder submits electronic bid through the e-GP System, it is assumed that the bidder has prepared the bid by studying and examining the complete set of the bidding document and e-GP instruction including the provision stipulated in e-GP Directives.
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<p>ITB 19.1</p>	<p>For bid submission purposes only, the Employer's address is :</p> <p>Attention : Federal Water Supply and Sewerage Management Project Kanchanpur</p> <p>Address : https://www.bolpatra.gov.np/egp</p> <p>The deadline for bid submission is : 06-03-2023 12:00</p>
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<p>ITB 22.1</p>	<p>The bid opening shall take place at :</p> <p>Address : Federal Water Supply and Sewerage Management Project, Kanchanpur Bhimdattanagar, Kanchanpur Mahendranagar, Kanchanpur Sudoor Pachism Province Nepal</p> <p>Date : 06-03-2023 13:00</p>
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E. Evaluation and Comparison of Bids

<p>ITB 29.5</p>	<p>The amount of the performance security be increased by 8 percent of the quoted bid price.</p>
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SECTION - III

Evaluation and Eligibility Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and eligible Bidders. GoN/DP requires bidders to be qualified by meeting predefined eligibility criteria. In accordance with ITB 29, 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 29.2 (a) - (e) the following criteria shall apply:

1.1 Quantifiable Nonconformities and Omissions

Subject to ITB 13.2 and ITB 29.2, the evaluated cost of quantifiable nonconformities including omissions, is determined as follows:

[Insert in bidding document: "Pursuant to ITB 27.3, the cost of all quantifiable nonmaterial nonconformities shall be evaluated, but excluding omission of prices in the Bill of Quantities. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of bids."]

2 Eligibility

2.1 Conflict of Interest

No conflicts of interest in accordance with ITB Sub-Clause 4.3.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : existing or intended JV must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Letter of Bid

2.2 Government/DP Eligibility

Not having been declared ineligible by government/DP, as described in ITB Sub-Clause 4.4.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Letter of Bid

2.3 Government-owned Entity

Bidder required to meet conditions of ITB Sub-Clause 4.5.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : existing or intended JV must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Forms ELI - 1, ELI - 2, with attachments

2.4 UN Eligibility

Not having been declared ineligible based on a United Nations resolution or Employer's country law, as described in ITB Sub-Clause 4.7.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : existing or intended JV must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Letter of Bid

2.5 Bidder's Participation in Bidding Process

Bidder's Participation in not more than five (5) bidding process since 2078-12-03 i.e. March 17, 2022 as described in ITB Sub-Clause 4.8.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : existing or intended JV must meet requirement

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : ELI-3

2.6 Other Eligibility: Firm Registration Certificate

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

2.7 Other Eligibility: Business Registration Certificate (License)

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

2.8 Other Eligibility: VAT and PAN Registration certificate

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

2.9 Other Eligibility: Tax Clearance certificate

Tax clearances certificate for the F/Y 78/79. or Tax return submission evidence or evidence of tax time extension for.

Single Entity : must meet requirement

Joint Venture :

All Partners Combined : not applicable

Each Partner : must meet requirement

One Partner : not applicable

Documents:

Submission Requirements : Document attachment

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

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 Bid

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

Date:

Name of the contract:

Invitation for Bid No.:

To:

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 15.1]* 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) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries or any countries [insert the nationality of the Bidder, including that of all parties that comprise the Bidder if the Bidder is a consortium or association, and the nationality of each Subcontractor and Supplier];

(h) 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;

(i) 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;

(j) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;

(k) We are not a government owned entity/We are a government owned entity but meet the requirements of ITB 4.5;¹

(l) 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;

(m) We declare that, we have not been black listed as per ITB 3.4 and no conflict of interest in the proposed procurement proceedings and we have not been punished for an offense relating to the concerned profession or business.

- (n) We declare that we have not running contracts more than five (5)¹ in accordance with ITB 4.8.
- (o) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive; and
- (p) If awarded the contract, the person named below shall act as Contractor's Representative:
- (q) 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

¹ 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

1 Use one of the two options as appropriate.

Table of Price Adjustment Data²

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

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

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

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

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

(c) Equipment usage:

"National Wholesale Price Index" - "Machinery and Equipment" of Nepal Rastra Bank
or

"Fuel" Price fixed by Nepal Oil Corporation.

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

² Non-compliance of the data (stipulated by the bidder in this table) with requirements described here shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification prior to contract award.

Table of Price Adjustment Data³

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

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

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

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

Note:

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

³ 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 letterhead paper 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. ("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 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 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) 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.
- (d) 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).

Bidder's Information Format

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Bidder's Information

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
<ol style="list-style-type: none">1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.2. Authorization to represent the firm or JV named in above, in accordance with ITB 17.2.3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5.	

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV / Specialist Subcontractor Information	
Bidder's legal name	
JV Partner's or Subcontractor's legal name	
JV Partner's or Subcontractor's country of constitution	
JV Partner's or Subcontractor's year of constitution	
JV Partner's or Subcontractor's legal address in country of constitution	
JV Partner's or Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents.	
<ol style="list-style-type: none">1. articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.2. Authorization to represent the firm named above, in accordance with ITB .2.3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.	

Form ELI - 3: Bidder's Running Contracts****

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.

****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

Price Adjustment : Table A - Local Currency

SI No.	Index Description	Source of Index	Base Value	Base Date	Employer's Proposed Weighting coefficient Range from	Employer's Proposed Weighting coefficient Range to	Bidder's Proposed Weight
						Total	1

Part - II

REQUIREMENTS

Table of Clauses

Section - V	Works Requirements
	Scope of Work
	Specifications
	Notes on the Specifications
	Sample Clause: Equivalency of Standards and Codes
	Drawings
	Supplementary Information
	Section - VI Bill of Quantities
	Notes for Unit Rate Contracts.....
	Preamble of Bill of Quantities
	General
	Day work Schedule
	Provisional Sums
	Bill of Quantities

SECTION-V

Works Requirements

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



Specifications

Notes on the Specifications

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

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

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

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

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

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

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

Sample Clause: Equivalency of Standards and Codes



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

16/05/2024
आयोजना प्रमुख



Tolerance - The range between the limits within which a size or position must lie.

c) Measurement and Payment

Bill/schedule - The bill/schedule of quantities of BOQ

Billed/scheduled rate - The unit rate of price entered in the bill/schedule at which the Contractor undertakes to execute the particular work or to provide the required material, article or service, or to do any or all of these things, as set out in the item concerned.

Billed/scheduled/BOQ - Listed in the bill/schedule of quantities.

1.2 Scope

In order to increase water generation from ground water sources and augment water supply to local supply and/or reservoir, Water Supply Project has planned to drill tube wells in different locations of Kanchanpur District.

These Technical Specifications cover principles, responsibilities and requirements for items that will be applicable to drilling and, development of the holes. These Technical Specifications shall be read in conjunction with the condition of contract, the agreement, the Bills of Quantities (BOQ) and Drawings.

1.3 Scope or Works

1.3.1 Available information for the preparation of Bidding Document

Generally, water from the bore holes/tube wells are clean, non-aggressive water with a temperature between 5°C and 25°C without solid and/or fibers articles. Unless and otherwise mentioned in BOQ, the

1.3.2 Activities to be undertaken by the Contractor

The activities to be undertaken by the Contractor within these Contracts include the following:

- To carry out all necessary soils investigations, laboratory analyses or related investigations where necessary to supplement the data provided by the Employer.
- To prepare working drawings for all elements of the Work.
- To take all steps necessary for the temporary or permanent diversion of services and the maintenance of services during the execution of the Works.
- To supply all materials and equipment required for drilling of bore holes, development of the drilled bore holes and copping. The Contractor's supply items may include manufacture, collection, quality inspection, transportation, and delivery to Site. The contractor shall be responsible for ensuring that all procedures are adequately covered and that the materials fully conform to the contract requirements. These responsibilities will include all necessary charges or dues related to insurance, freight, taxes (including customs and excise duties, surcharges, Octri, local taxes etc.) and all testing and inspections for quality control.
- To Provide all necessary staff (including geologist, geo-hydrologist, engineers, administrators, Site supervision personnel) and workmen (including all necessary specialists, operators, tradesmen, artisans, drillers etc in addition to semi-skilled and unskilled workers) necessary for execution of the works through to completion. Where appropriate, the contractor shall provide all suitable facilities and accommodation for the staff and workmen and he shall make provision for all costs related to such provisions and for medical, re-location, taxes or other expenses.
- To provide all equipment, machinery, tools etc. and related spares, maintenance and consumables necessary for implementation of the works.
- To provide all site offices, stores, workshops and facilities necessary for use by the Employer, Engineer and support staff and for the contractor himself and his support staff.
- To undertake all operations necessary to complete the works. These operations shall include: drilling, haulage and installation of specified pipes, machine and other related accessories and disposal of surplus drilled earth materials in an environmentally acceptable manner, laying and jointing of pipes; installation of all special pipe works, valves etc. and construction of all related civil or other activities together.



- To undertake different tests on well prescribed in general specification, leakage testing of pipelines installed, cleaning, flushing and disinfection of completed well and appurtenances.
- To liaise with other contractors on the site and to ensure harmonious co-operation with them so that conflicts are avoided and areas of common interest constructional interface or potential overlaps are addressed without cost to the employer or delays in completion.
- To prepare documentary records of the works in the form of "as-built" drawings, schedules, digital photographs and video recording etc.
- All the above activities shall be performed in a professional way and with good engineering and/or construction practice. Upon completion of the works, the scheme shall be fully operational with minimum disruption or inconvenience to interested parties, including land owners.

1.4 Access to and Possession of Site and Way Leaves

1.4.1 The Site

The site includes any designated area and any temporary working areas described herein.

Final possession of the Site or Parts thereof, for the purpose of carrying out the execution of the work to be given by the employer pursuant to Clause GCC 20.1 of the condition of contract shall be subject to any restrictions mentioned in the contract. As such, land acquisition is a slow process the contractor shall himself obtain whatever temporary way leaves are required by him.

The leaves, right-of-way, easement, and access to the site shall be governed by the Rules of the Country and Town Development by-laws of the local Government.

1.4.2 Temporary Way Leaves, Access Costs

The contractor shall be responsible for obtaining temporary way leaves.

- If it is not mentioned in the BOQ, the cost of obtaining way leaves, including crop compensation, for temporary working areas, additional working easement and for any additional areas, required by the contractor in connection with the works as well as for the access to all of these shall be borne by the contractor himself. The contractor shall arrange for the serving of any statutory notices in connection with any temporary working area and shall give to the occupier of each such area seven days' notice of his intention to enter and shall ensure that his methods of working cause the minimum of disturbance to the land and to its owners and occupiers.

The contractor shall at all times provide proper facilities for access and inspection of the works by the engineer, his assistants, inspectors, agents and representatives of public agencies having jurisdiction.

The extent of each temporary working area and the period of time for its occupation shall be such as the engineer considers necessary having regard to the contractor's reasonable requirements which shall be submitted together with the work programme to the engineer.

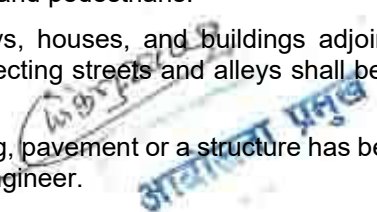
The contractor shall reinstate any temporary working areas to the condition prevailing prior to his initial entry as soon as possible after the work in those areas has been completed so as to keep the period of occupation to a minimum. The contractor shall in any event restore the areas to a tidy and workman like condition. Boundary walls, fences and other structures that have been damaged, removed or otherwise interfered with by the contractor shall be restored to a condition at least equivalent to their original condition.

1.4.3 Access to Adjoining Property

If the contractor's work will cause unavoidable interference with access to adjoining property, the contractor shall first give 7 days' notice to the occupier of such property and shall provide temporary means of access for vehicles, animals, and pedestrians.

Convenient access to driveways, houses, and buildings adjoining the work shall be maintained and temporary approaches to intersecting streets and alleys shall be provided and kept in good condition by the contractor.

As soon as a section of surfacing, pavement or a structure has been completed, it shall be opened for use by traffic at the request of the engineer.





1.4.4 Permanent Right-of-Way

The employer will make all statutory arrangements necessary for obtaining the final possession of the site and the permanent right-of-way in the shortest possible time.

1.4.5 Measurement and Payment

Payment of the provision of temporary way leaves and access to adjoining properties will be made on a periodic basis, if provisions are made on BOQ, if the provision of cost is not mentioned in BOQ, all cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.5 Provision and Maintenance of Site Installations

1.5.1 Camp and camp facilities for Contractor's Staff

The contractor shall provide adequate housing with all necessary amenities and facilities for his staff and labor. The type of housing, such as accommodation containers, pre-fabricated or in-situ buildings or even rental is entirely up to him, Also the choice of one central camp or of various sub-camps is up to him as this depends greatly on the approved work programme.

During the whole period of existence, from setting up through operation to final removal upon completion of the works, the contractor shall be fully responsible for constantly carrying out all measures necessary for safeguarding the natural environment affected by his camp or camps.

He shall cause the least possible interference with existing amenities, whether man-made or natural. No trees shall be felled except as authorized by the engineer.

Latrine and ablution facilities and first-aid services shall be provided in sufficient type and numbers to the satisfaction of the engineer and shall be maintained in a clean and sanitary condition at all times.

On completion of the works or as soon as the facilities provided by the contractor are no longer required, the contractor shall remove such facilities and clear away all surface indications of their presence, each camp area shall be reinstated to the satisfaction of the engineer.

1.5.2 Contractor's Offices, Stores and Services

The contractor shall provide, erect, construct, maintain and subsequently remove proper offices, stores, workshops, laborites, storage and parking areas for his own use. Such facilities shall be sufficiently sized and equipped to enable him to manage his operations and those of his subcontractors in a professional manner and to enable him to carry out all his obligations under the contract.

Sheds for storage of materials that may deteriorate or corrode if exposed to the weather shall be weatherproof, adequately ventilated and provided with raised floors. No material or equipment shall be placed directly on the ground.

Within his offices, a meeting room shall be available for site meetings with the engineer and the employer.

These contractor's facilities shall be subject to the same stipulations regarding sitting, interference with amenities and environmental protection as the contractor's camp.

1.5.3 Contractor's Construction Equipment

When working in built-up areas, the contractor shall provide and use suitable and effective silencing devices for pneumatic tools and other equipment that would otherwise cause a noise level exceeding 85 dB (A) during excavation and other works. Alternatively, he shall, by means of barriers, effectively isolate the source of any such noise in order to comply with above requirement in his/her own costs.

1.5.4 Water Supply

The contractor shall make his own arrangements for the supply of water for his camp, office and other temporary buildings as well as for the execution of the works.

Water for drinking purposes shall be of drinking water quality, and shall be tested for proper disinfection.



1.5.5 Sanitations

The contractor shall maintain the site and all working areas in a hygienic condition. In all matters of health and sanitation he shall comply with the requirements of the local health or other competent authority.

1.5.6 Sewage and Waste Disposal

The contractor shall make provision for the discharge or disposal of from his camp, offices and the works of all water as well as of all liquid and solid waste products however arising. The methods of disposal shall be to the satisfaction of the engineer and of any authority or person having an interest in any land or watercourse over or in which water and waste products may be so discharged, and shall not in any manner be disposed of to the nature, public place of the air.

1.5.7 Energy Supply

The contractor shall install, operate, maintain and subsequently remove temporary supplies of electricity for power, heating, cooling, lighting and ventilation of all camps, offices, stores, laboratories and other temporary buildings used by the contractor in addition to all electricity requirements in connection with the construction, testing and defects correction of the works.

The contractor shall ensure that all proposed electrical installations comply with the requirements of the Nepal Electricity Authority and shall be responsible for and shall bear all costs associated with obtaining the written approval of the authority for such installation and their operations.

Prior to placing orders for transformers, conductors, cables and associated equipment, the contractor shall ensure by enquiry with the Nepal Electricity Authority that his proposed equipment is suitable for use with the existing or proposed medium/high tension electricity supply lines.

1.5.8 Supply of Fuel, Lubricants, etc.

The contractor shall be responsible for arranging and ensuring that adequate supplies of petrol, diesel oil, motor oil, kerosene, lubricants and other petroleum products are available at all times to meet his requirements for the purpose of or in connection with the contract; the contractor's particular attention is drawn to this requirement as from time to time shortages and interruptions in the supply of fuel oils, etc., may occur. The contractor shall make adequate storage to carry out the works uninterrupted.

Firewood may be obtained on the open market. Under no circumstances shall the contractor cut down trees for firewood. The contractor shall use firewood efficient stoves certified by competent authority for such purpose.

With regard to the transportation, storage, and handling of all his fuel requirements, including all electrical connections, he must strictly comply with all relevant safety codes and regulations, Particularly, the fuel storage areas shall be protected from access to third parties and protected against fire hazards.

Particular care is to be taken to avoid pollution due to spillage of fuel and oils. They shall be stored within a bounded area, all equipment drive by diesel or petrol engines shall be installed on a drip tray, waste oils shall be disposed of in a proper manner.

1.5.9 Temporary Telephone Connections

The contractor shall arrange at his own cost for temporary telephone connections to his offices and other installations.

He shall be responsible for all installations, connection and disconnection charges for his and his representative's offices.

1.5.10 First Aid

The contractor shall make his own arrangements for treatment of casualties on the site. As such, first-aid units may be thought necessary. The contractor shall be responsible for the construction of such first-aid

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units and their management and operation and rapid removal by ambulance of injured or sick employees to nearby hospitals. The first-aid service shall cover the contractor's own personnel as well as that of the employer, the engineer, and all subcontractors.

1.5.11 Fire Protection

No naked fire shall be used by the contractor on or about the site without the permission of the engineer in writing. If in the engineer's opinion the use of naked fire may cause a fire hazard, the contractor shall at no extra cost to the employer take such additional precautions and provide such additional firefighting equipment as the engineer considers necessary.

The term "naked fire" shall be deemed to include electric arcs and oxyacetylene or other flames used in welding or cutting metals.

Compliance with the requirements of the engineer shall not relieve the contractor of any of his obligations under the contract.

1.5.12 Site Safety

The contractor shall at all times in the conduct of his work and that of his subcontractors adhere to the established rules and regulations concerning all safety matters at site such as the recommendations contained in the "Manual of Accident Prevention in construction", published by the Associated General Contractors of America, inc., or other internationally recognized recommendations to the extent that such provisions do not conflict with the applicable laws. This is specifically important wherever it is necessary to enable the free passage of the public through the site.

During construction the contractor shall erect, maintain, and subsequently remove sufficient barricades, guards, lighting, sheeting, shoring, temporary sidewalks and bridges, danger signals as well as temporary covering of potential accident areas.

If and where required the contractor shall erect and maintain suitable and approve temporary fencing, to BS 1722 Part 1 Type PLC 180A or better, to enclose such areas of construction and areas of land occupied by the contractor within the site as may be necessary to implement his obligations under the contract. Where temporary fencing has to be erected alongside a public road, foot-path, etc., it shall be of the type required by and shall be erected to the satisfaction of the authority concerned.

The contractor shall be responsible for ensuring that all persons working in the vicinity of power lines are aware of the relatively large distance that high voltage electricity can "short" to earth when cranes or other large masses of steel are in the vicinity of power lines. Before moving the heavy equipment of any type, the contractor shall inspect the overhead power lines and ensure that no interference with the power lines will be made.

Where work is to be carried out in the proximity of buildings, bridges, telephone and electrical lines, tanks, fences, boundary walls or other structures, the contractor shall take all necessary precautions, including shoring and strutting, where necessary, to ensure the safety of the structures that are at risk.

In addition to that the contractor shall take utmost care for safety of the general public and provide

- Safety barriers to separate the access of general public from the work sites,
- Adequate information on the risks around the construction site. In any case, if the general public is affected or sustain any kind of bodily damage, injury or death, the contractor shall be responsible for providing all necessary medical care and compensation for damages.

1.5.13 Protection of Overhead and Underground Services

The contractor will be held responsible for any damage to known services (i.e. overhead services that are visible within the site and underground services shown on the drawings) and he shall take all necessary measures to protect them. All work or protective measures shall be subject to approval of the engineer. In the event of a service being damaged he shall inform the engineer and the authority concerned, the contractor shall not repair any such service unless instructed to do so.



Where no underground services are shown on the drawings or scheduled but the possibility of their presence can reasonably be inferred, the contractor shall, in collaboration with the engineer, ascertain whether any such services exist within the relevant section of the site. The contractor shall complete such an investigation well in advance of the start of construction work in the said section and he shall submit a report in good time to enable the engineer to make whatever arrangements are necessary for the protection, removal or diversion of the services before any construction activities commence.

As soon as any underground service not shown on the drawings is discovered, it shall be deemed to be a known service and the contractor will be held responsible for any subsequent damage to it. If such a service is damaged during the course of its discovery, the cost of making good such damage will be met by the employer unless he establishes that the contractor did not exercise reasonable diligence and that the damage was avoidable.

Where the authority concerned elects to carry out on its own account any alterations or protective measures, the contractor shall co-operate with and allow such authority reasonable access and sufficient space and time to carry out the required work.

1.5.14 Signboards

Signboards shall be placed at specified locations giving, in English and Nepali, information about the project and employer, and the names of the engineer and contractor in a form and size to be agreed upon by the employer and the engineer. They shall be of durable construction capable of withstanding the effects of the climate until the end of the Defects Liability Period. This shall be provided at the contractor's own expense.

The contractor shall keep the signboards in good repair for the duration of the contract and shall remove them on completion of the contract.

- Besides these signboards, the contractor shall not, except with the written authority of the engineer, exhibit or permit to be exhibited on the site any other form of advertisement.

1.5.15 Site Roads, Loading and Turning Areas

The contractor shall provide and maintain such access to the various sections of the works as he requires for the proper execution of the work. Existing roads and bridges shall be upgraded for the construction transport purposes and site roads, loading and turning areas shall be so arranged as to minimize inconvenience to adjoining landowners or occupants and to the general public, if necessary.

Temporary roads, loading and turning areas shall be removed when they are no longer required and the location reinstated to the satisfaction of the engineer, and damage to existing roads or bridges shall be repaired and reinstated to the satisfaction of the engineer.

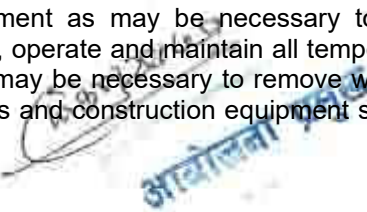
1.5.16 Cleaning-up of Site

Before application is made to the employer to accept any substantially completed section of the works, all items shall be complete, ready to operate and in a clean condition. All trash, debris, unused building materials, and temporary facilities shall have been removed from the site.

1.5.17 Site Drainage

The contractor shall keep the works well drained until the engineer certifies that it is substantially complete and shall ensure that, so far as is practicable, all work is carried out in the dry. Site areas shall be kept well drained and free from standing water except where this is impracticable having regard to methods of temporary works properly adopted by the contractor.

The contractor shall provide, operate and maintain in sufficient quantity such pumping equipment, well points, pipes and other equipment as may be necessary to minimize damage, inconvenience and interference and shall construct, operate and maintain all temporary coffer-dams, sumps, ditches, drains and other temporary works as may be necessary to remove water from the site while construction is in progress. Such temporary works and construction equipment shall not be removed without the approval of the engineer.





Not with standing any approval by the engineer of the contractor's arrangements for the removal of water, the contractor shall be responsible for the sufficiency thereof and for keeping the works safe at all times and for making good at his own expense any damage to the works.

The contractor shall be responsible to keep the site clear of water at whatever pump rate is found necessary. The contractor's site drainage facilities shall not cause pollution in any local water courses; he shall be responsible for any legal action resulting from pollution events.

1.5.18 Maintenance

The contractor shall be responsible for the proper maintenance of the offices and other facilities provided to the engineer during the contract period. He shall keep the offices, toilets and the surrounding areas clean and shall provide adequate cleaning staff for this purpose throughout the contract period.

The contractor shall regularly and when required, clean, repair, and maintain the engineer's offices, shall carry out emptying of the septic tanks, managing solid waste, and supply water to the water tanks.

All electricity, water, and telephone charges, relating to the engineer's offices, including connection and disconnection fees and rental charges shall be paid by the contractor.

1.5.19 Measurement and Payment

Unless otherwise provided in the contract, no separate measurements and/or payment shall be made for all materials and works required under this clause (Clauses 1.5). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.6 Provision of Temporary Facilities

1.6.1 Temporary Diversions of Utilities

If in the opinion of the contractor or advised by the engineer it is necessary to make temporary diversions of services in connection with the works, the contractor shall arrange with the relevant authority for the construction of diversions.

The contractor may at his own cost and subject to the approval of the authority concerned, make such temporary diversions as may facilitate the carrying out of the works. These temporary diversions shall be reinstated to the full satisfaction of the engineer and the relevant authority on completion of the works.

1.6.2 Detours and Traffic Control

The contractor shall program his work in such a way that, wherever the temporary closure of street sections to public thoroughfare cannot be avoided, the duration of traffic diversion can be kept as short as possible. No streets shall be closed and no detours shall be introduced and no traffic diverted until the contractor's proposals have been approved by the engineer and the appropriate Government authorities, such as the Department of Roads or Traffic Police.

Where work is to be carried out in public roads, the contractor shall give notice to engineer sufficiently in advance of the date on which he wishes to commence such work.

The contractor shall be responsible for obtaining the permission of the engineer, the Department of Roads and the Traffic Police for activities he intends to carry out in public roads. Two copies of the contractor's proposals to the relevant authorities shall be submitted to the engineer. One copy of all obtained approvals shall be submitted to the engineer.

The contractor's attention is drawn to the fact that processing of the documentation required by the local authorities prior to the cutting of existing public roads takes approximately 30 days. During the monsoon period (June to August) no road cuttings are normally allowed.

Detours shall be selected in such a way that the inconvenience to the affected traffic as well as to the inhabitants of the affected areas is kept to a minimum.

The contractor shall furnish, install and maintain at all times during the execution of the works all necessary traffic signs, barricades, lights and other traffic control devices, including flagging and other means of



guiding traffic through the work zone. Traffic control shall be managed in accordance with prevailing rules and regulations, and with the approval and to the satisfaction of the engineer.

All devices mentioned above shall be in conformity with the requirements of the Department of Roads. All traffic signs and control devices to be furnished and installed by the contractor shall be approved by the engineer for their location, position, visibility, adequacy and manner of use under specific job conditions.

All traffic control devices necessary for the initial stage of construction shall be properly placed and operational before any construction is allowed to start. When work of a progressive nature is involved, the necessary signs shall be moved concurrently where they are needed.

If the engineer determines that proper provisions for safe traffic control are not being provided or maintained, he may restrict construction operations affected by such defective signs or devices until such provisions are established or maintained, or may altogether order suspension of the work until a proper traffic control is achieved. In case of serious or willful disregard by the contractor of the safety of the public or his employees, the engineer may take necessary steps to rectify the situation and deduct the cost thereof from monies due or becoming due to the contractor. The contractor shall be responsible for all resulting delays.

The contractor shall designate or otherwise employ personnel to furnish continuous surveillance of the traffic control operations. The designated personnel shall be available day and night to respond to calls involving damage due to vandalism or traffic accidents.

At sections where traffic is in operation and when ordered by the engineer, the movements of the contractor's equipment from one place of work to another shall be subject to traffic control. During rush hours' movement of larger vehicles, such as trucks, cranes, dumpers, etc. through main thoroughfare are not permitted by the police. Spillage resulting from hauling operations along or across the road way shall be removed immediately at the contractor's expense.

The cost of detours and traffic control is deemed to be included in the rated for road reinstatement.

1.6.3 Provision of Temporary Services

When the execution of the works requires the temporary disconnection of existing public utilities, the contractor shall provide the affected users with temporary services in at least the same standard as the original services.

1.6.4 Protection of Adjoining Property

1.6.4.1 Land

The contractor shall control the movement of his crews and equipment on the working easement including access routes approve by the engineer so as to minimize damage to crops and property and shall endeavor to void marring the lands. Ruts and scars shall be obliterated and damage to land shall be corrected and the land shall be restored as closely as possible to its original conditions before final taking-over of the works.

The contractor shall be responsible directly to the tenant/land owner for any excessive or avoidable damage to crops or lands resulting from his operations whether on lands adjacent to right-of-way or on approved access road and deductions will be made from payment due to the contractor to cover the amount of such excessive or avoidable damage if adequate compensation is not paid by the contractor, in the opinion of the engineer.

1.6.4.2 Buildings and other Structures

The contractor shall be responsible and take all measures in order to protect adjoining property including buildings and other structures. Prior to the commencement of the activities, the contractor shall assess the probability and extent of unavoidable damages, if any, to the building and properties and submit his assessment to the engineer. The engineer may make his own opinion and if required may order arrangements for protection or repair of such likely unavoidable damage in which event the contractor shall complete the activities.

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The measurement for payment of the repair of the damages to the building, if ordered, shall be made at actual quantities of activities carried out. All costs related to the assessment, protections etc. are deemed to be included in the unit rates of other items, and shall not be paid separately.

1.6.5 Reinstatement Upon Completion

Temporary facilities shall be provided by the contractor only for as long as required after which he shall dismantle and remove the same from the place of use as speedily as possible. Re-usable components shall be safely stored by the contractor in his yard.

The place of use shall be cleared and reinstated immediately to at least the condition existing before the temporary facilities were provided, and to the satisfaction of the engineer.

1.6.6 Measurement and Payment

Unless otherwise provided in the contract, no separate measurements and/or payment shall be made for all materials and works required under this clause (Clause 1.6). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.7 Coordination with Other Authorities

1.7.1 Statutory Services

As far as possible the contractor shall acquaint himself with the actual location of all existing public utilities such as sewers, water mains, drains, cables for electricity, telephone lines, lighting poles, masts, etc., before commencing any activities likely to affect the existing utilities. The contractor shall with the assistance of the employer obtain such information directly from the responsible authorities as early as possible.

1.7.2 Notices, Permits

Well in advance of the programmed start of any work which may affect traffic or any existing utilities the contractor shall give advance notice to the respective authority indicating the type, the exact location, the programmed starting time and the expected duration of the activities and shall provide whatever particulars may be required by the authorities to issue any required permits and make all necessary arrangements. The employer will provide whatever assistance possible to the contractor to facilitate the permit procedure, which, however, will remain the sole responsibility of the contractor.

1.7.3 Measurement and Payment

Unless otherwise provided in the contract, no separate measurements and/or payment shall be made for all materials and works required under this clause (Clause 1.7). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.8 Submissions by the Contractor

1.8.1 Pre-Construction Surveys and Setting Out

The contractor shall agree and record with the engineer, prior to his first entry thereon, the surface topography and ground conditions along the construction route and river reaches routes, to the extent considered necessary by either the engineer or the contractor. The agreed record is to include photographs and spot levels as necessary and written descriptions of the site conditions.

Prior to the start of any construction activities, the contractor should layout the right-of-way, work areas, clearing, and pavement cuts to insure a proper recognition and protection of the adjacent properties.

Access roads, detours, bypasses, and protective fences or barricades also should be laid out and constructed as required in advance of drainage constructions.

All layouts must be approved by the engineer before any demolition, rehabilitation or construction begins.

Upon commencement of the works the contractor shall carry out all additional survey activities necessary for setting out the works.

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The contractor shall establish all setting out necessary for the performance of the work to the approval of the engineer including levels of the original ground surface at the site and final surveys of the completed works for the final measurement. Levels shall close within 5 mm times the square root of the length of the leveling circuit in km.

Ground levels shall be taken jointly by the contractor and the engineer both prior to commencing and after completion of earthworks. The result of the survey shall be recorded in the manner agreed between the engineer and the contractor and be signed by both as being a correct record.

The contractor's methods of recording survey data shall be subject to approval and field books and tabulated data shall be well maintained and made available for inspection and checking by the engineer when ordered.

Instruments and equipment for surveys shall be subject to rigorous inspection by both the contractor and the engineer and any item found to be defective, in the opinion of the engineer, shall be promptly replaced, repaired, or adjusted as directed. All surveying shall be done under the direct supervision of a qualified surveyor or engineer who, as an employee of the contractor, shall be subject to the approval of the engineer at all times during the progress of the work.

1.8.2 Detailed Design of Temporary Works

The contractor shall submit for approval full particulars, including drawings of any of the site installations and Temporary works. If required the contractor shall also submit calculations of the stresses, strains, and deflections which will arise in false work or other temporary works and these calculations shall be accompanied by detailed working drawings to show the contractor's proposals. Approval by the engineer of the contractor's proposals, calculations or drawings shall not relieve the contractor of any of his duties or responsibilities under the contract.

1.8.3 Working Drawings

The drawings prepared by the engineer, are called engineer's drawings and listed in an appendix to the specification. They may be modified or added to as provided by the following clauses.

The proposals shown on the engineer's drawings are based on information available prior to preparation of the Tender Documents. All levels indicated or proposed are based on survey prepared by the engineer but may need to be revised subject to the results of survey and site investigation carried out by the contractor. Nevertheless, the contractor shall follow such proposals in preparing his own proposals consistent with his own experience.

Working drawings shall be submitted by the contractor to the engineer, working drawings shall include, but not be restricted to, pipeline profiles, reinforcement detail drawings and bending schedules, shop drawings for structural steel and miscellaneous metal work, working drawings for mechanical plant, architectural items and electrical work and drawings for other work for which the engineer's approval is required.

It shall be the contractor's own responsibility to prepare such working drawings as he may require for the proper setting out and construction of all structures and facilities. Work shall not commence on an individual structure or facilities until the relevant working drawings have been approved by the engineer.

Within 28 days of the date of the Letter of Acceptance, the contractor shall submit to the engineer a drawings submittal schedule for the working drawings listing the anticipated dates upon which they will be submitted for approval by engineer. The submission dates shall be spaced at reasonable intervals to allow at least 14 days for the engineer to duly check and to either approve them or to request changes or modifications, as the case may be.

All dimensions shall be in metric units and each drawing shall be properly identified by a drawing head and a numbering code in the form prescribed by the engineer upon commencement of the works. ISO or DIN standard size sheets shall be used.

Drawings shall not be smaller than 210x297 mm (DIN A4), or larger than 841x1189 mm (DIN A0).

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Prior to submittal, the contractor shall also check the drawings prepared by his subcontractors for accuracy and completeness, especially that the relation to adjoining work is accurately shown. The contractor shall submit 3 (three) copies of all drawings for approval.

Any changes or modifications to the working drawings that the engineer considers necessary shall be made by the contractor promptly and the drawings resubmitted for approval.

Approval of working drawings will be given by the engineer in the form of a stamp "RELEASED FOR CONSTRUCTION" together with the date and the authorized signature. Only those working drawings carrying the signed and dated stamp shall be used for execution.

Copies of all such approved working drawings together with one unreduced transparency shall be supplied to the engineer by the contractor immediately after approval. The cost of preparing and providing all working drawings shall be included in the contract rates.

Should it be found at any time after approval has been given by the engineer to a working drawing submitted by the contractor that the said working drawing does not comply with the terms and conditions of the contract or that the details do not agree with the working drawings previously approved, such alterations and additions as may be deemed necessary by the engineer shall be made therein by the contractor and the work carried out accordingly without entitling the contractor to extra payment on account thereof, except where such alterations and additions are to be made in direct consequence of written order by the engineer to vary the works.

No examination by the engineer of any document submitted by the contractor or of the contractor's working drawings, nor the approval expressed by the engineer in regard thereto, either with or without modification, shall absolve the contractor from any liability imposed upon him by any provision of the contract. Notwithstanding the engineer's approval of the working drawings the contractor shall be responsible for any dimensional or other errors.

1.8.4 As-Built Drawings

Such approved working drawings as have been selected by the engineer shall be correctly modified for inclusion in the As-built Drawings incorporating such variations to the works as have been ordered and executed. Such drawings shall show the actual arrangement of all structures and items of equipment installed under the contract. The contractor shall submit 1 (one) reproducible copy and 3 (three) copies of all As-Built Drawings clearly named as such to the engineer for approval before applying for the Taking-Over Certificate from Auto CAD 2006. The software shall become the property of the employer and shall be used to view the as built drawings.

During the course of the works, the contractor shall maintain a fully detailed record of all changes from the approval to facilitate easy and accurate preparation of the As-Built Drawing.

Irrespective of the other contractual prerequisites no section of the works will be considered substantially completed until the respective As-Built Drawings have been approved by the engineer.

1.8.5 Measurement and Payment

Unless otherwise provided in the contract, no separate measurements and/or payment shall be made for all materials and works required under this clause (Clause 1.8). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.9 Construction Programme and Progress of Works

1.9.1 Construction Programme

The construction programme shall be in the form of a Gantt Chart showing, sequences, dependencies, durations and dates for execution of all major items following the sub-divisions in the Bill of Quantities for the execution of the works within the periods stated in the contract. It shall be supported by:

- Data of the construction methods
- Equipment utilization Schedule
- Manpower Utilization Schedule

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- Subcontracting Schedule (if allowed by contract and if any)
- Cash Flow Schedule
- Mobilization/Demobilization Schedule

The Gantt Chart incorporating the above-mentioned schedules shall be prepared using Microsoft Project, or similar approved project management software, and shall be presented in hard copy and electronic form to the engineer.

In carrying out the works due attention shall be paid to all measures which can reasonably be taken in order to diminish the inconvenience which the work may cause to services and access to property.

1.9.2 Updating, Monitoring and Reporting Progress

The contractor shall monitor the progress of the works including information provided by his sub-contractors and suppliers, as necessary, for purpose of network planning, scheduling and updating and shall confirm the actual progress on each current activity shown on applicable Gantt Chart. The chart shall form part of the Monthly Progress Report and shall indicate changes of schedule, if any in network activity duration and start/finish-imposed dates. It shall also be provided in electronic form.

The contractor shall prepare written explanatory notes on the particular activities which are overrunning or going to overrun against the Master Schedule. If any such overrunning work is on the critical path, the contractor shall state what corrective actions will be taken by him to bring it back on the schedule.

1.9.3 Detailed Fortnightly Programme

The contractor shall submit at the end of each working week a detailed bar chart programme for the next fortnight. The programme shall identify where further drawings or instructions are to be issued by the engineer to avoid disruption to the progress of the works.

1.9.4 Progress Reports

The contractor shall furnish the engineer with 3 copies of Progress Reports at regular monthly intervals in a form determined by the engineer, containing the following information:

- a) Physical progress for the report month and estimated progress for the next month.
- b) Gantt Chart and explanatory notice as described in Clause 1.9.1.
- c) Updated S-Curves for physical progress at different sections of the works.
- d) Progress on quality control and quality testing plan.
- e) List of activities and obligations completed.
- f) Any report, which may be specifically requested by the employer and/or the engineer.

These monthly progress reports shall be submitted not later than 7 days after the end of the month-report.

1.9.5 Operation and maintenance Manual

The contractor shall produce an operation and maintenance manual, including the details of all the plant he supplies and give details of recommended maintenance intervals and procedures.

1.9.6 Record/Progress Photographs

The contractor shall arrange each month for Nos. of photographs in digital format. Out of these record photographs the contractor shall select some characteristic ones as progress photographs, copies shall be made of these to be attached to the progress reports. No payment will be made for such photographs.

1.9.7 Measurement and Payment

Unless otherwise provided in the contract, no separate measurements and/or payment shall be made for all materials and works required under this clause (Clause 1.9). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.



1.10 Quality Control

1.10.1 Quality Control Plan and Procedures

The contractor shall be responsible for establishing and maintaining procedures for quality control that will ensure that all aspects of the works comply with the requirements of the contract.

As soon as reasonably practicable prior to the commencement of works the contractor shall submit for approval a Quality Control Plan giving detailed proposals for control of quality of all aspects of work on the site and at suppliers' workshops.

The Quality Control Plan shall include the following:

- a) a list of the contractor's staff engaged in quality control
- b) a list of any outside testing agencies employed by the contractor for work in connection with quality control
- c) Where a testing laboratory is to be established on site under the contract, a list of major items of equipment and a layout of the laboratory, together details of the tests which will be carried out there.
- d) a list of manufactured items and materials, obtained by the contractor for the works, which require inspection at the suppliers' premises, and the proposed procedures for ensuring quality control.
- e) a list of materials and operations to be inspected by the contractor at the various stages of construction work on site, together with inspection procedures, test types and frequencies.
- f) sample of proposed quality control records, testing and reporting forms.

Unless the engineer permits otherwise, the approved Quality Control Plan shall be followed throughout the construction of the works. Any approval by the engineer of the contractor's plan and procedures shall not relieve the contractor of his obligation to ensure that the works comply with the requirements of the contract.

The contractor shall appoint a suitably qualified member of his staff to be responsible for all aspects of quality control and to maintain effective liaison with the engineer.

1.10.2 Sampling and Testing

The contractor shall provide for the approval for the engineer, samples of all construction materials and manufactured items required for the permanent works. All samples rejected by the engineer shall be removed from site. All approved samples shall be stored by the contractor in a sample room, at a location approved by the engineer, for the duration of the contract, and any materials or manufactured items subsequently delivered to site for incorporation in the permanent works shall be of a quality at least equal to the approved sample. The approved samples may only be disposed of with the engineers' approval.

Samples shall be submitted and tests carried out sufficiently early to enable further samples to be submitted and tested if required by the engineer. Samples for testing will generally be selected by the engineer from materials to be utilized in the project and all tests will be under the supervision of, and as directed by, and at such points as may be convenient to the engineer.

Material requiring testing shall be furnished in sufficient time before intended use so as to allow for testing. No materials represented by tests may be used prior to receipt of written approval of said materials.

The contractor shall give the engineer at least 14 days' notice in writing of the date on which any of the materials will be ready for testing or inspection at the suppliers' premises or at a laboratory approved by the engineer and unless the engineer shall attend at the appointed place and time the test may proceed in his absence. The contractor shall in any case submit to the engineer within 7 (seven) days after every test such number of certified copies of the test readings as the engineer may require.

Approval by the engineer as to the placing of orders for materials or as to samples or tests shall not prejudice any of the engineer's powers under the contract.



The provisions of this clauses shall also apply to materials supplied under any nominated subcontract.

After all construction at each section is completed and before applying for taking-over, the contractor shall perform field tests as called for in the specifications. The contractor shall demonstrate to the engineer the proper operation of the facilities and the satisfactory performance of the individual components. Any improper operation of the system or any improper or faulty construction shall be repaired or corrected to the satisfaction of the engineer. The contractor shall make such changes, adjustments or replacement or replacement of equipment as may be required to make the same comply with the specifications, or replace any defective parts or materials.

In addition to any special provision made therein as to sampling and testing materials by particular methods, samples of materials and workmanship proposed to be employed in the executions of the works may be called for at any time by the engineer and these shall be furnished without delay by the contractor at his own cost. Approved samples will be retained. The engineer will be at liberty to reject all materials and workmanship that are not equal or better in quality and character than such approved samples.

The tests required for quality control shall include but not be limited to:

- a) tests conducted at the premises of the contractor, subcontractor, manufacturer or supplier which are normally or customarily carried out at such premises for the items or materials being supplied for the works.
- b) tests which are normally or customarily conducted on the items or materials being supplied for the works by the contractor, subcontractor, supplier or manufacturer but which have to be conducted at an approved laboratory because the necessary testing facilities are not available on the premises of the contractor, sub-contractor, supplier and manufacturer.
- c) tests on locally obtained materials or items either on the site or at an approved laboratory for the purpose of obtaining the approval of the engineer to the classification, use and compliance with the specifications of such items or materials.
- d) routine quality control tests conducted by the contractor to ensure compliance with the specifications.
- e) regular testing of concrete and other materials as specified in the relevant chapters of the technical specifications.
- f) standard shop and site acceptance tests, including trial assemblies, of plant.

1.10.3 Inspection and Acceptance

The engineer will not inspect any item of fabricated or finished work until such time as the contractor shall have forwarded to the engineer the approved working drawings covering the items to be inspected, together with four copies of the respective orders.

Manufactured items and materials delivered to the site shall be inspected by the contractor on arrival. Any defects shall be notified to the engineer. Minor defects to surface finished and the like in manufactured items shall be made good in an approved manner to the satisfactions of the engineer. Items with more serious defects shall be returned to the suppliers for correction or replacement as appropriate.

1.10.4 Materials/Plant Certificates

Where certificates are required by the specifications or relevant reference standard, the original and one copy of each such certificate shall be provided by the contractor.

Certificates shall be clearly identified by serial or reference number and shall include information required by the relevant reference standard or specification clause.

The timing for submittal of certificates shall be as follows:

- a) manufacturer's and supplier's test certificates shall be submitted as soon as the tests have been completed and, in any case, not less than 7 calendar days prior to the time that the materials represented by such certificates are needed for incorporation into the permanent works.



- b) certificates of tests carried out during the construction or on completion of parts on the permanent works shall be submitted within 7 days of the completion of the test.

No materials, articles or items of fabricated or finished work to be supplied by the contractor or sub contractors which have been inspected and tested by the engineer or the inspecting engineer shall be dispatched unless a Passing Certificate has been requested by the contractor from the engineer and subsequently been issued by the engineer to the effect that the same are approved. Neither the contractor nor sub-contractors shall make use of any materials or articles ordered by them for the purpose of fabrication until a Passing Certificate covering the said materials and articles shall have been issued by the engineer or inspecting engineer.

1.10.5 Site Records

Daily records of no-site testing and inspection shall be kept on forms of approved format. The responsible member of the contractor's staff shall certify test results. All test certificates and inspection records (including any from suppliers or other outside testing agencies) shall be clearly identified with the appropriate part of the works to which they refer, and they shall be submitted to the engineer together with the respective Passing Certificate.

Once each month, or at such other intervals as the engineer may require, the contractor shall submit in an approved form a summary of all quality control inspections and tests performed at site and elsewhere in the intervening period.

1.10.6 Daily Log Book

The contractor shall keep a daily log book at each location where major construction activities are taking place. This daily log book shall be in a form approved by the engineer and shall contain, but not be limited to, the following major items of information:

- a) name of contractor and package no.
- b) date
- c) weather conditions (max./min., temperature, hours and intensity of rainfall).
- d) work carried out during the day per section (description, quantities).
- e) major equipment used per section (on contractual work, on extra work ordered, approximate operating time on either).
- f) strength of labor force per section (on contractual work, on extra work ordered, hours worked on either).
- g) delays (cause, effects such as idle time etc.).
- h) unusual events (earthquakes, floods, fires, storms, accidents, etc.).
- i) visitors at site.

Each daily log shall be signed by the responsible site manager of the contractor and submitted to the engineer.

1.10.7 Measurement and Payment

Unless otherwise provided in the contractor, no separate measurements and/or payment shall be made for all materials and works required under this (Clause 1.10). All cost in connection with the work specified herein shall be considered to be included with other related items of works in the Bill of Quantities.

1.11 Standards, Codes and Abbreviations

1.11.1 Reference Standards and Codes

The works shall be carried out in accordance with the relevant quality standards, test procedures, or codes of practice, collectively referred to as reference standards, listed in the relevant parts of the specifications. The applicable issue of any reference standard shall, unless otherwise stated in the specification, be the



issue current at the date two months preceding the date for submission of the tenders for the contract. The contractor shall familiarize himself fully with the requirements of such standards. If no standard is indicated then the relevant ISO standard or, in the absence of such standard, the relevant German, British, American, Nepalese or Indian standards shall apply or other, if so approved.

The contractor may propose, at no extra cost to the employer, the use of any alternative relevant authoritative internationally recognized reference standard, which shall be no less exacting, in the opinion of the engineer, than the corresponding standard quoted in the specification. The contractor shall demonstrate to the engineer that the alternative standard is suitable and equivalent to the specified standard, as well as provide proof of previous successful use. Differences between the standards specified and the proposed alternative standards must be fully described in writing by the contractor and submitted to the engineer at least 28 days prior to the date when the contractor desires the engineer's approval. The engineer shall decide whether or not the use of such alternative will be allowed as a reference standard.

The contractor shall obtain and keep on site at least one copy of each approved reference standard and each reference standard referred to in the specifications, and will make these accessible to the engineer at any time upon request.

The contractor shall obtain the reference standards from the addresses given below:

ISO	International Organization for Standardization, Rue de varembe, Geneva, Switzerland
BSI	British Standards Institution, 389 Chiswick High Road, London W4 4GR, England
AASHTO	American Association of State Highway and Transportation Officials, Suite 341 National Press Building, Washington, D.C. 2004, U.S.A.
ACI	American Concrete Institute, P.O. Box 4754, Redford Station, Detroit, MI 48219, U.S.A.
AISC	American Institute of Steel Construction, 102 Park Avenue, New York, NY 10027, U.S.A.
ASTM	American Society for Testing and Materials, 2502 Race St., Philadelphia, PA 19103, U.S.A.
AWS	American Welding Society; Inc., 2502 N.W. 7 th St. Miami, FL 33125, U.S.A.
AWWA	American Water Works Association, 6666 West Quincy Ave. Denver, Colorado 80235, U.S.A.
IS	Indian Standards, Manak Bhawan - 9, Bahadur Shah Jafar Marg, New Delhi, 11002
SIS	Swedish Standards.
NS	Nepalese Standardization Office, Balaju, Kathmandu, Nepal.

1.11.2 Metric Units

S.I. units of measurement shall be used throughout the contract. All information and data originating in another system shall be transferred by the contractor into the S.I. system.

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1.11.3 Abbreviations

BOQ	=	Bill of Quantities, Schedule of Quantities
BS	=	British Standard
CBR	=	California Bearing Ratio
cm	=	Centimeter
Cm ² /g	=	Square centimeter per gram
d	=	day(s)
dia	=	Diameter
DIN	=	Diameter nominal (=ND)
GON	=	Government of Nepal
g/cm ³	=	gram per cubic centimeter
g/m ²	=	gram per square meter
H or hr	=	hour
ha	=	hectare
HDPE	=	high density polyethylene
HP	=	horse power
ISO	=	International Standard Organization
kg	=	kilogram
kg/cm ³	=	Kilogram per cubic centimeter
kg/cm ²	=	Kilogram per square centimeter
km	=	kilometer
KN	=	Kilo newton
KVA	=	Kilo volt ampere
l	=	liter
m	=	meter
m ²	=	square meter
m ³	=	cubic meter
mg/l	=	milligram per liter
min	=	minute
m ²	=	square meter
m ³	=	cubic meter
mg/l	=	milligram per liter
min	=	minute
mm	=	millimeter
m/min	=	meter per minute
m ³ /d	=	cubic meter per day
m ³ /min	=	cubic meter per minute

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m/s	=	meter per second
N	=	Newton
NA	=	Not Applicable
ND	=	nominal diameter (=DN)
NEA	=	Nepal Electricity Authority
N/mm ²	=	Newton per square millimeter
OPC	=	Ordinary Portland Cement
Pa	=	Pascal (1N/m ²)
PC	=	Personal Computer
PCC	=	Plain Concrete
ppm	=	parts per million
RC or RCC	=	reinforced concrete
S	=	Second
SI	=	System International d' Unites
T	=	Temperature
t	=	metric ton
V	=	Volt
W	=	Watt
WC	=	Water Closet
oC	=	degree centigrade
"	=	Inch
%	=	Percent
4WD	=	Four Wheel Drive
<	=	Smaller/Less than
>	=	Larger/more than

1.11.4 Measurement and Payment

No separate measurement and payment will be made for items provided under Clause 1.11, the cost of which shall be deemed to be included in the rates of the BOQ.

1.12 Securities and Insurances

1.12.1 Performance Security

The contractor shall provide performance security in the required amount and currencies from an approved bank/financial institution in accordance with Sub-Clause 49.1 of the conditions of contract.

1.12.2 Insurance of Works and Contractor's Equipment

The contractor shall insure the works for 110% of contract price. The contractor shall also insure all his equipment against damages and losses with an approved insurance agency/institution as stipulated in Clause 13 of the Conditions of Contract.

1.12.3 Insurance of Contractors Workmen and Employee





The contractor shall insure all his employees and workmen against such liability as stipulated in condition of contract Clause 13 and submit the policy document to the engineer within stipulated date.

1.12.4 Third Party Insurance Policy

The contractor shall obtain a Third-Party Insurance Policy as stipulated in the conditions of contractor from and approved insurance agency/institution in the form acceptable to the employer.

1.12.5 Insurance of Employer's Personal

The contractor shall insure all nominated personnel of the employer including the consultant's personnel against such liability as stipulated in the conditions of contract and submit the policy document to the engineer within stipulated date.

1.12.6 Measurement and Payment

The cost of providing Insurance Policies as described above shall not be paid as a separate item and shall be covered by other items in the BOQ.

1.12.7 Other Provisional Items

All provisional items in the schedule shall be carried out at the discretion of the engineer, and shall form part of the contract. In case, the provisional items are carried out by the contractor, the rates shall be settled as for extra items as stated in the conditions of contract.

2. DRILLING AND DEVELOPMENT OF DEEP TUBEWELLS

2.1 General

The method of drilling should be Direct Rotary or Reverse Rotary or Percussion. It is up to the contractor to choose the suitable drilling method based on the type of equipment available with them and drilling condition. However, the choice of drilling method should commensurate with the time of completion of the work as per the contract.

At first a pilot hole shall be drilled with a smaller bit up to the required depth. The rate of progress of drilling shall be recorded on the drilling log sheet. During the course of drilling the contractor shall take lithological samples of different strata from the bore hole cuttings and record these samples on log sheet. Samples of minimum 0.5 kg of the cuttings shall be packed in polythene bags, kept in a wooden/metal box and shall be submitted to the engineer together with the log sheet.

After completion of drilling of pilot bore, the contractor shall carry out on electro resistivity survey both down and up the borehole in the presence of the engineer using an appropriate electric logging machine. The contractor will prepare a report of the geologic and electric logging.

Based on the geological log and electro resistivity survey results the contractor shall submit his detailed proposal for the tube well assembly he considers most suitable to be installed including calculations of expected yield based on soil sampling, groundwater condition and proposed well assembly. The engineer will review the contractor's proposal and will provide the contractor a written approval for the well assembly.

The pilot hole and the electric logging report will be the basis for the final depth of drilling. The engineer will instruct the contractor on the final depth of reaming the pilot hole to larger diameter.

The tube well assembly shall be installed in the borehole using centralizers at a maximum of 24-meter centers.

The contractor shall carry out a verticality test immediately after installation of the well assembly and shall check for verticality at 3-meter interval. Bore holes or tube wells assemblies outside the permissible limit for verticality as specified shall be corrected by pulling out and realigning the well assembly.

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The well shall be gravel packed using well-rounded non-calcareous pea-gravel placed by back wash method in a continuous operation.

2.2 Tube well Assembly

The contractor shall provide all necessary materials required for the complete well assembly including housing pipe, casing pipe, well screen, collar, plug, centralizes etc. All the materials of well assembly shall be as specified and as per the prevalent practice if not specified. Well assembly shall have approved by the engineer before installation.

Unless and otherwise mentioned in BOQ, the size of housing pipe shall be of mild steel (heavy class) of min. thickness 7.0 mm with pipe lengths of 6 m. the pipe shall be plain/beveled ends suitable for welding. The housing pipe shall project a distance of 400-600 mm above the ground level during installation. The top of the housing pipe shall have a flange welded on to which a blank flange shall bolted on at all time when the well in not attended by the contractor.

The size of casing pipe shall be as specified in the bill of quantities and of mild steel (heavy class) of minimum thickness 7.0 mm with pipe length 3/6 m. having plain/ beveled ends suitable for welding.

The housing pipe and casing pipe shall be joined by electric welding with MS collar of one size bigger size pipe.

Well screen/slotted pipe shall be in accordance with IS: 8110-1976 or equivalent.

The well screen pipe shall be seamless or electrical resistance welded, corrosion - resistant material of mild steel heavy duty pipe having thickness equal of casing pipe, in order to guard against the effect of corrosion and to ensure reasonable life of tube well. The percentage slot opening in the slotted pipe shall be 12~15 percent and the slot size shall be 1.2~1.6 mm x65~75 mm and shall be distributed in rows as closely and evenly as possible, staggering the slots between each row. The rows shall be vertically arranged. Slots shall be rectangular in shape and tapered with smaller opening on the outside of the pipes so that the solid particles passing through the outer lips do not clog. The outer lip shall be sharp edged. The slotted pipes and screens shall be coated with anticorrosive protective treatment.

There must be a minimum length of 3 meters of casing pipe below the lowest screen pipes as a sand trap and this must be fitted with welded on conical steel plug with a solid point.

All pipes and screens shall be of the best quality as specified. The contractor shall submit full details concerning the specification and sources of supply before bringing the materials to the site.

All welds shall be allowed to cool before applying the necessary paint to the joints. The paint must dry before lowering the well assembly down the bore hole.

The well assembly shall be installed in the bore hole in the presence of the engineer. After installation a verticality test shall be carried out and the permissible limit shall be 1 cm. in 48 meters.

2.3 Gravel Packing

The contractor shall fill the annular space between the well assembly and the wall of the borehole with filter pack gravel in the manner and to the extent specified below.

The gravel pack shall be thoroughly washed, rounded non-calcareous pea-gravel with a minimum size of 2 mm and maximum size of 5 mm.

The particle size distribution and pack aquifer ration shall confirm to IS: - 4097 - 1967 specification for back wash method to prevent bridging and reduce the possibility of damage to the tube well assembly by the sudden collapse of bridged gravel. Circulation of water should continue until the entire/gravel is packed, and then clean water should be pumped through the casing to remove drilling mud.

The gravel pack shall extend from the bottom of the borehole to a level of approximately 3 meters below ground level. A stockpile of 1 m³ of gravel pack shall be left at the site after well completion as spare for subsequent topping up by the engineer/employer.

2.4 Sealing of Borehole

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After completion of gravel packing the contractor shall supply and place in position two 50 mm dia GI pipes 3 meters long as specified. These pipes shall extend from just inside the gravel packing to the top of the housing pipe. The pipes are required for topping up the gravel packing shall be fitted with socket and plug.

After the placing of 'top up' pipes the space between the borehole and the housing pipe shall be sealed with an approved concrete mix made with fine aggregate of maximum size 10 mm. or with cement slurry. A mild steel base plate (1m * 1m * 20 mm thick MS plate) with nominal diameter hole of 265 mm and 3 holes of 80 mm for 50 mm GI pipes shall also be supplied and installed at the time of well sealing.

The contractor shall submit his proposals for sealing the well for approval by the engineer. Well sealing shall be carried out in the presence of engineer.

2.5 Surface discharge Plate

Unless otherwise mentioned in schedule of requirements, surface discharge plates are to be made of at least 16-25 mm thick M.S. plate having sufficient strength to support entire weight of the pump set and the hydraulic pressure on it. The surface plate consists of a pipe bend of size mentioned in BOQ. The discharge bend has welded or casted flanges in both ends. The size of the surface discharge depends on the outer diameter of the tube-well and the shape may be either rounded or rectangular as approved by the engineer.

2.6 Developing the Well

After setting of the well seal, the well shall be developed at least for 72 hours by using a combination of a) Bailing and surging, b) Backwashing, c) Jetting, d) Air lift pumping, e) Over pumping.

The well shall be developed by the contractor using bailer and plunger for mechanical surging and then by airlift pumping. The airlift pumping shall be carried out using a 50 mm. diameter pipe set to an agreed depth and coupled to a compressor of at least 450 cfm capacity. The well shall be further developed by over pumping for which a high capacity pump shall be used and water pumped out from the well at a rate higher than the design discharge of the tube well. Draw down and discharge shall be measured during over pumping. The engineer shall certify the completion of the development when the well water becomes sparklingly clear and contains less than 2 ppm of silt or sand particle. Duration of the development shall be counted only for the actual mechanical surging and air compressing. Sodium hex metaphosphate treatment of the well shall be done prior to air pumping to remove concretions mud from the well and clear the well opening of all debris.

2.7 Pumping Test (Step Drawdown and Continuous Pumping Test)

After satisfactory completion of well development, the contractor shall carry out pumping test by performing constant drawdown test, step drawdown test and recovery test as instructed by the engineer.

The contractor shall carry out the step drawdown test with a suitable pump having sufficient capacity and discharge measuring device as specified below. The pump shall have a total lifting capacity over 100 meters.

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The pumping rate shall be kept constant at the following rates for the following period of time or as instructed by the engineer:

Pumping Rate (m ³ /hr)	Time (hrs)
25	2
50	2
75	2
100	2
150	2
200	2

The draw down corresponding to each of the above pumping rates shall be measured and recorded by the contractor.

The pumped discharge shall be measured and recorded by the contractor using flow meter or a right-angled V-notch weir made of steel preceded by a stilling chamber.

- The contractor shall measure the solids content in the pumped water in each of the different steps.
- Test results shall be handed over to the engineer representative as soon as the tests are completed.

The pumping rate and time of pumping shall be changed as per yield of tube well.

The engineer shall instruct rate of discharge for the continuous pumping test. Drawdown shall be recorded by the contractor during continuous pumping test.

The procedure for measurement of drawdown shall be:

Time after starting	Measurement interval
0 to 20 minutes	every minute
20 minutes to 1 hr	every 5 minutes
1 hours to 2 hours	every 10 minutes
2 hours to 6 hours	every 30 minutes
6 hours to 24 hours	every hour

The pumped discharge shall be measured and recorded for the whole duration of step drawdown test. The contractor shall submit a pump test report soon after completion of pump testing.

2.8 Report Submission

The contractor shall submit four copies of well completion report which shall include tube well drilling, electrical resistivity test, well design, pumping test, water sample test and recommendation for safe yield etc.

2.9 Well Disinfection

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After completion of all tests the well shall be thoroughly disinfected by means of placing a hypochlorite solution in the well. The contractor must submit full details of his proposals for disinfection for approval by the engineer before carrying out well disinfection. Disinfection shall be carried out by circulation of heavily chlorinated water within the well.

2.10 Standards

- IS 4270 Specification for steel tubes used for water wells.
IS 2800 Code of practice for tube well construction.
IS 4097 Specification for gravel for use as pack in tube wells.

2.11 Terms of Payments

Payments for materials shall be made only after the materials are specifically used in the bore hole or in the drilling process.

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SECTION - VI

Bill of Quantities¹

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:

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¹In lump sum contracts, delete “Bill of Quantities” and replace with “Schedule of Activities” throughout this section.



- (a) A list of the various classes of labor, materials, and Constructional Plant for which basic day work rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a day work basis.
- (b) Nominal quantities for each item of Day work, to be priced by each Bidder at Day work rates as bid. The rate to be entered by the Bidder against each basic Day work item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

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.

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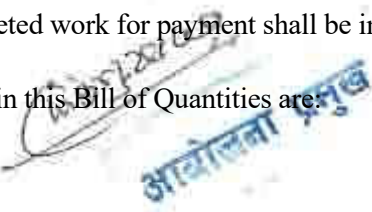
Preamble of Bill of Quantities

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.

6/10/2024
आयोजना प्रमुख

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.

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

1 Provisional Sum						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Unit Rate(NPR)	Amount(NPR)	
1	Insurances for the loss of damage to works, plant, material, equipment, property and personal as stipulated in contract data.	PS	1.0	124000.0	124,000.00	
2 Construction Iworks						
Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
1	Layout & setting out including site clearance of grass, shrubs, excavation of loose/soft soil to maximum depth of 150mm including dressing, levelling and disposal the excavated materials within the premises as per drawing, specification and instruction of engineer.	Sqm	125.0			
2	Layout & setting out including site clearance of grass, shrubs, excavation of loose/soft soil to maximum depth of 150mm including dressing, levelling and disposal the excavated materials within the premises as per drawing, specification and instruction of engineer.	Cum	267.84			
3	Supplying and Laying dry brick on edge soling with sand in foundation and floors with first class chimney made bricks in true line & level including watering and ramming all complete as per drawing, specification & instruction of engineer.	Sqm	75.42			
4	Supplying and Laying boulder soling with sand in foundation and in true line & level including watering and ramming all complete as per drawing, specification & instruction of engineer.	Cum	6.98			
5	Supplying & filling sand at site with 150 mm thick layers with well compaction, water sprinkling, etc. all complete as per drawing, specification and instruction of engineer.	Cum	11.3			
6	Supplying, mixing, placing, compacting & curing plain cement concrete of M10 (1:3:6) in foundation as per drawing, specification and instruction of engineer all complete.	Cum	16.97			
7	Supplying, mixing, placing, compacting & curing different mixes of plain cement concrete of M15 (1:2:4) for foundation bases as per drawing, specification & instruction of engineer all complete.	Cum	4.65			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
8	Supplying & laying First class chimney made brick masonry work in foundation and Ground Floor with 1:6 cement sand mortar (1 cement : 6 sand) including lead upto 30 m curing, cleaning & racking out mortar joint and making ducts, recesses where required as per drawing, specification and instruction of engineer all complete.	Cum	5.38			
9	Supplying, mixing, placing, compacting & curing reinforced cement concrete of M20 (1:1.5:3) below ground level as per drawing, specification and instruction of engineer all complete.	Cum	31.14			
10	Supplying mixing, placing, compacting & curing reinforced cement concrete of M20 (1:1.5:3) above ground level as per drawing, specification and instruction of engineer all complete.	Cum	45.74			
11	Supplying mixing, placing, compacting reinforced cement concrete of M20 (1:1.5:3) with 5% silica admixtre in Overhead Tank portion as per drawing, specification and instruction of engineer all complete.	Cum	44.83			
12	Filling with earth stacked at site with 150 mm thick layers with well compaction, water sprinkling, etc. all complete as per drawing, specification and instruction of engineer.	Cum	190.06			
13	Providing, placing, fixing centering and shuttering for plywood or steel formwork for slabs, walls, columns and beams (with necessary provision of extension of reinforcement for ties) and other RCC works including nails, propping supports and bracings of steel pipes including lead & lift upto any height & removal and disposal of the same all complete as per drawing specification & approval of engineer.	Sqm	883.03			
14	Supplying & placing of reinforcement bar for column beams, slab, etc. placed in position and binding with 14 gauge binding wire including cutting, binding, carrying, lifting, etc. all complete as per drawing, specification and instruction of engineer.	Kg	24783.54			
15	Providing, mixing, laying and compacting 12.5 mm thick cement sand screed (1:4) on outer side of tank in true line & level including curing all complete as drawing, specification & instruction of engineer.	Sqm	248.4			
16	Providing, mixing, laying and compacting 3 mm thick punning cement sand (1:1) on inner side of tank in true line & level including curing all complete as drawing, specification & instruction of engineer.	Sqm	46.54			

Procurement Item Details

SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
17	Providing, mixing, laying and compacting 20 mm thick cement sand screed (1:3) with 5% silica admixture on floors, Column, beam etc in true line & level including curing all complete as drawing, specification & instruction of engineer.	Sqm	235.77			
18	Providing and application of two coats of weather paint of approved brand and colour on exterior face all complete as per specification and approval of engineer.	Sqm	737.47			
19	Providing & Fixing in position well seasoned, dressed Sal Timber Chaukhat for Doors, Windows, all complete as per drawings, specification and instruction of engineer.	Cum	0.11			
20	Providing & Fixing in position well panelled 38 mm thick panel door shutter of Sal Wood all complete as per drawing, specification & instruction of engineer.	Sqm	1.4			
21	Fixing chicken wiremesh and mosquito proof wire mesh in ventilator all complete as drawing, specification & instruction of engineer.	Sqm	1.44			
22	Supplying & application of 2 coat readymade enamel painting work over 1 coat primer on railings and ladder.	Sqm	96.42			
23	Providing & fixing of MS gate (0.80 x 1.25 m) and MS grill works at top of manhole all complete as drawing, specification & instruction of engineer.	Job	1.0			
24	Supply and fixing in position of 40 mm dia GI pipe medium class for railing all complete as drawing, specification & instruction of engineer.	Rm	224.1			
25	Supply & installation of 2 Nos inspection ladder from outside of balcony to the top of the dom with erretion in the and 1 Nos manhole cover	Kg	150.0			
26	Supply and fixing of 700 mm manhole cover including all complete as drawing, specification & instruction of engineer.	Set	1.0			
27	Supply & Installaltion of pipes and pipe fittings all complet as per specifications: b) ND 150 mm D.I. Double Flanged pipes for Inlet & washout.	Rm	66.0			
28	Supply & Installation of pipes and pipe fittings all complet as per specifications:a) ND 200 mm D.I. Double Flanged pipes for outlet & overflow.	Rm	66.0			
29	Supply & Installation of fittings all complet as per specifications: b) 150 mm dia C.I. Slucice valve	Nos	2.0			

Procurement Item Details						
SL. No	Item Description	Unit	Quantity	Bidder's Rate (NPR)	Bidder's Rate (in words)	Total Amount (NPR)
30	Supply & Installation of fittings all complete as per specifications: a) 200 mm dia C.I. Slucice valve	Nos	2.0			
31	Supply of fittings all complete as per specifications: d) 150 mm dia C.I. Duck foot bend	Nos	2.0			
32	Supply of fittings all complete as per specifications: d) 200 mm dia C.I. Duck foot bend	Nos	2.0			
33	Supply & Installation of fittings all complete as per specifications:f) 150 mm dia C.I. bend 90o	Nos	2.0			
34	Supply & Installation of fittings all complete as per specifications: e) 200 mm dia C.I. bend 90o	Nos	2.0			
35	Supply & Installation of fittings all complete as per specifications: g) Nut Bolt with washer	Kg	90.0			
36	Supply & Installation of fittings all complete as per specifications: h) Rubber gasket	Kg	30.0			
37	Supply and installation of lightening arrestor all complete as drawing, specification & instruction of engineer.	Set	1.0			
38	Installation of electric bulb at the top of tank including aterialsall complete as drawing, specification & instruction of engineer.	Job	1.0			
39	Providing & fixing of water level indicator all complete as drawing, specification & instruction of engineer.	Job	1.0			
40	Scaffolding work including supply of materials, erection in position & dismantling and removal after completion all complete.	Job	1.0			
41	Site Clearance & development all complete around tank and Leak proof test of 225 OHT atleast two time before & after of painting work as per instruction of engineer.	Job	1.0			
42	Provision for cube testing facilities as per engineers instruction (use 3 cube per test @ 7 times)	Job	7.0			
Total of Procurement Items						
Total Item Price						
VAT						
Grand Total						

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SECTION-VII

General Conditions of Contract

General Conditions of Contract

General

1. Definitions

1.1 Boldface type is used to identify defined terms.

(a) The **Accepted Contract Amount** means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.

(b) The **Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.

(c) The Adjudicator is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.2 hereunder.

(d) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.

(e) **Compensation Events** are those defined in GCC 50 hereunder.

(f) The **Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with GCC 68.1.

(g) The **Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC 2.3 below.

(h) The **Contractor** is the party whose Bid to carry out the Works has been accepted by the Employer.

(i) The **Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.

(j) The **Contract Price** is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.

(k) **Days** are calendar days; months are calendar-months.

(l) **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.

(m) A **Defect** is any part of the Works not completed in accordance with the Contract.

(n) The **Defects Liability Certificate** is the certificate issued by Project Manager upon correction of defects by the Contractor.

(o) The **Defects Liability Period** is the period calculated from the Completion Date where the Contractor remains responsible for remedying defects.

(p) **Drawings** include calculations and other information provided or approved by the Project Manager for the execution of the Contract.

(q) The **Employer** is the party who employs the Contractor to carry out the Works, as **specified in the SCC**.

(r) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

(s) **Force Majeure** means an exceptional event or circumstance: which is beyond a Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other Party.

(t) The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

(u) **In writing** or **written** means hand written, type written, printed or electronically made, and resulting in permanent record.

	<p>(v) The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the SCC. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.</p> <p>(w) Letter of Acceptance means the formal acceptance by the Employer of the Bid and denotes the formation of the contract at the date of acceptance.</p> <p>(x) Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.</p> <p>(y) Party means the Employer or the Contractor, as the context requires.</p> <p>(z) SCC means Special Conditions of Contract</p> <p>(aa) Plant is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.</p> <p>(bb) The Project Manager is the person named in the SCC (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.</p> <p>(cc) Retention Money means the aggregate of all monies retained by the Employer pursuant to GCC 54.1.</p> <p>(dd) Schedules means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Bids, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices.</p> <p>(ee) The Site is the area defined as such in the SCC</p> <p>(ff) Site Investigation Reports are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.</p> <p>(gg) Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.</p> <p>(hh) The Start Date is given in the SCC. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.</p> <p>(ii) A Subcontractor is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.</p> <p>(jj) Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.</p> <p>(kk) A Variation is an instruction given by the Project Manager which varies the Works</p> <p>(ll) The Works are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the SCC.</p>
2. Interpretation	<p>2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.</p> <p>2.2 If sectional completion is specified in the SCC, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).</p> <p>2.3 The documents forming the Contract shall be interpreted in the following order of</p>

	<p>priority:</p> <ul style="list-style-type: none"> (a) Contract Agreement, (b) Letter of Acceptance, (c) Letters of Bid, (d) Special Conditions of Contract, (e) General Conditions of Contract, (f) Specifications, (g) Drawings, (h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and (i) Any other document listed in the SCC as forming part of the Contract.
3. Language and Law	<p>3.1 The language of the Contract and the law governing the Contract are stated in the SCC.</p> <p>a. Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when</p> <ul style="list-style-type: none"> (a) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from, or any payments to, a particular country, person, or entity. Where the borrower's country prohibits payments to a particular firm or for particular goods by such an act of compliance, that firm may be excluded.
4. Contract Agreement	<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 IX.</p>
5. Assignment	<p>5.1 Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party</p> <ul style="list-style-type: none"> (a) may assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party; and (b) may, as security in favor of a bank or financial institution, assign its right to any moneys due, or to become due, under the Contract.
6. Care and Supply of Documents	<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</p>

	<p>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	<p>8.1 The Contractor shall, in performing the Contract, comply with applicable Laws.</p>
9. Joint and Several Liability	<p>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.</p>
10. Project Manager's Decisions	<p>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.</p>
11. Delegation	<p>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.</p>
12. Communications	<p>12.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.</p>
13. Subcontracting	<p>13.1 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>14. Other Contractors</p>	<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, as referred to in the SCC. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification</p>
<p>15 Personnel and Equipment</p>	<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>
<p>16. Employer's and Contractor's Risk</p>	<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>
<p>17. Employer's Risks</p>	<p>17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:</p> <ul style="list-style-type: none"> (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to <ul style="list-style-type: none"> (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or (ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor. (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed. <p>17.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to</p> <ul style="list-style-type: none"> (a) a Defect which existed on the Completion Date, (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or (c) the activities of the Contractor on the Site after the Completion Date.

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 stated in the SCC for the following events which are due to the Contractor's risks:</p> <ul style="list-style-type: none"> (a) loss of or damage to the Works, Plant, and Materials; (b) loss of or damage to Equipment; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and (d) Personal injury or death. <p>19.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the proportions of Nepalese Rupees required to rectify the loss or damage incurred.</p> <p>19.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.</p> <p>19.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager.</p> <p>19.5 Both parties shall comply with any conditions of the insurance policies.</p>
20. Site Investigation Reports	20.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC , supplemented by any information available to the Contractor.
21. Contractor to Construct the Works	21.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
22. The Works to Be Completed within intended Completion Date	22.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them within the intended Completion Date.
23. Design by contractor and Approval by the Project Manager	<p>23.1 The contractor shall be responsible for the design of permanent works as specified in SCC.</p> <p>23.2 Contractor shall be responsible for design of the Temporary Works. The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.</p> <p>23.3 All Drawings prepared by the Contractor for the execution of the temporary or</p>

	<p>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"> a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so as the same is under his control) and the works (so far as the same are not completed or occupied by the Employer) in an orderly state appropriate to the avoidance of danger to such persons. b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others. c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion. e. Any spoil or material removed from drains shall be disposed of to designated stable tipping areas as directed by the Project Manager. f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works. g. The Project Manager shall have the power to disallow any working practice or activity of the Contractor or direct that such practices or activities be modified should the Project Manager consider, on the advice of the relevant Government Departments, that the practices or activities will be harmful to wildlife. h. Provide on the Site such lifesaving apparatus as may be appropriate and an adequate and easily accessible first aid outfit or such outfits as may be required by any government ordinance, factory act, etc., subsequently published and amended from time to time.
25. Discoveries	<p>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.</p>
26. Possession of the Site	<p>26.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the SCC, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.</p>
27. Access to the Site	<p>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.</p>

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 procedures in accordance with law of Nepal at the place given in the SCC.
B. Staff and Labor	
31. Forced Labor	31.1 The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty. This covers any kind of involuntary or compulsory labor, such as indentured labor, bonded labor, or similar labor-contracting arrangements.
32. Child Labor	32.1 The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where national laws have provisions for employment of minors, the Contractor shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.
33. Non-discrimination and Equal Opportunity	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.
Time Control	
34. Program	<p>34.1 Within the time stated in the SCC, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.</p> <p>34.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.</p> <p>34.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall Provide an updated Activity Schedule within 15 days of being instructed to by the Project Manager.</p> <p>34.4 The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.</p>
35. Extension of the Intended Completion Date	<p>35.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.</p> <p>35.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information at least 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 Security, Advanced Payment Guarantee and insurance Policy with extended validity as well as revised work schedule.</p>
36. Acceleration	<p>36.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.</p> <p>36.2 If the Contractor's priced proposals for acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.</p>

37. Delays Ordered by the Project Manager	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>
C. Quality Control	
40. Identifying Defects	40.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.
41. Tests	41.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
42. Correction of Defects	<p>42.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the SCC. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.</p> <p>42.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.</p>
43. Uncorrected Defects	43.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.
D. Cost Control	
44. Contract Price	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

	<p>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>
<p>45. Changes in the Contract Price</p>	<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>
<p>46. Variations</p>	<p>46.1 All Variations shall be included in updated Programs, and, in the case of a lump sum contract, also in the Activity Schedule, produced by the Contractor.</p> <p>46.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.</p> <p>46.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.</p> <p>46.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.</p> <p>46.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.</p> <p>46.6 In the case of an Unit Rate contract, if the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in GCC 45.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.</p>

47. Cash Flow 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"> (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 (b) In the case of a lump sum contract, the value of work executed shall comprise the value of completed activities in the Activity Schedule. <p>48.5 The value of work executed shall include the valuation of Variations and Compensation Events.</p> <p>48.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.</p>
49. Payments	<p>49.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest as indicated in the SCC on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made.</p> <p>49.2 If an amount certified is increased in a later certificate or as a result of an award by an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.</p> <p>49.3 Items of the Works for which no rate or price has been entered in BOQ shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.</p>
50. Compensation Events	<p>50.1 The following shall be Compensation Events:</p> <ul style="list-style-type: none"> (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 26.1. (b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract. (c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time. (d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.

	<p>(e) The Project Manager unreasonably does not approve a subcontract to be let.</p> <p>(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.</p> <p>(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.</p> <p>(h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.</p> <p>(i) The advance payment is delayed.</p> <p>(j) The effects on the Contractor of any of the Employer’s Risks.</p> <p>(k) The Project Manager unreasonably delays issuing a Certificate of Completion.</p> <p>50.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.</p> <p>50.3 As soon as information demonstrating effect of each Compensation Event upon the Contractor’s forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor’s forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager’s own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.</p> <p>50.4 The Contractor shall not be entitled to compensation to the extent that the Employer’s interests are adversely affected by the Contractor’s not having given early warning or not having cooperated with the Project Manager.</p>
51. Tax	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 in the SCC. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due.</p> <p>53.2 Adjustment Formulae¹: The formulae will be of the following general type:</p>

¹ For complex Works involving several types of construction work with different inputs, a family of Formulae will be necessary. The various items of Day work may also require different formulae, depending on the nature and source of the inputs

	$pn = A + b \frac{Ln}{Lo} + c \frac{Mn}{Mo} + d \frac{En}{Eo} + etc.$ <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;²<i>b, c, d, etc.</i>, coefficients representing the estimated proportion of each cost element (labor, materials, equipment usage, etc.) in the Works or sections thereof, net of Provisional Sums, as specified in the SCC;</p> <p><i>Ln, Mn, En, etc.</i>, are the current cost indices or reference prices of the cost elements for month “n,” determined pursuant to Sub-Clause 53.4, applicable to each cost element; and</p> <p><i>Lo, Mo, Eo, etc.</i>, are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4</p>
	<p>53.3 Sources of Indices and Weightings: The sources of indices shall be those listed in the Bidding Forms- Table of Price Adjustment data, as approved by the Project Manager and stated in SCC. Indices shall be appropriate for their purpose and shall relate to the Contractor’s proposed source of supply of inputs on the basis of which his Contract shall have been computed. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightings and Source of Indices in the Bidding Forms, which shall be subject to approval by the Project Manager.</p> <p>53.4 Base, Current and Provisional Indices: The base cost indices or prices shall be those prevailing on the day 30 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 30 days prior to the last day of the period to which a particular Interim Payment Certificate is related. If at any time the current indices are not available, provisional indices as determined by the Project Manager will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.</p> <p>53.5 Weightings: The weightings for each of the factors of cost given in the 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</p>

² 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>beyond 10% shall be made by applying the following formulas:</p> <p>For unexpected increase in price $P = [R_1 - (R_0 \times 1.10)] \times Q$</p> <p>For unexpected decrease in price P $= [R_1 - (R_0 \times 0.90)] \times Q$</p> <p>Where:</p> <p>“P” is price adjustment amount</p> <p>“R₁” is the present price of the construction material (Source of indices shall be those listed in the Bidding forms)</p> <p>“R₀” is the base price of the construction material</p> <p>“Q” is quantity of the construction material consumed in construction during the period of price adjustment consideration If the Base price and source is to be proposed by the Bidder as per the provision made in Section –IV, Bidding Forms-Table of Price Adjustment Data then the Base price and source filled by Bidder for the construction material stated in the Bidding Form shall be subject to the approval of the Project manager and shall be as stated in SCC..</p> <p>53.7 The Price Adjustment amount shall be limited to a maximum of the initial Contract Amount as specified in the SCC.</p> <p>53.8 The Price Adjustment provision shall not be applicable for delayed period if the contract is not completed in time due to the delay caused by the contractor or the contract is a Lump sum Contract</p>
54. Retention	<p>54.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the SCC until Completion of the whole of the Works.</p> <p>54.2 Upon the issue of a Defects Liability Certificate by the Project Manager, in accordance with GCC 70.1, half the total amount retained shall be repaid to the Contractor and half when the Contractor has submitted the evidence of submission of tax return to the concerned Internal Revenue Office. The Contractor may substitute retention money with an “on demand” bank guarantee having validity at least one month more than the end of defect liability period if:</p> <p>(a) at least eighty (80) percent of the whole works have been completed,</p> <p>(b) progress of the works is satisfactory in accordance with the Contract as per approved work schedule,</p> <p>(c) it can be assured that the works can be completed at the intended completion date.</p>
55. Liquidated Damages	<p>55.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the SCC for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the SCC. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor’s liabilities.</p> <p>55.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of</p>

	repayment, at the rates specified in GCC.49
56. Bonus	56.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day stated in the SCC for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.
57. Advance Payment	<p>57.1 The Employer shall make advance payment to the Contractor of the amounts stated in the SCC in two equal installments by the date stated in the SCC, against provision by the Contractor of an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in a form acceptable to the Employer in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.</p> <p>57.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.</p> <p>57.3 The advance payment shall be repaid by deducting proportionate amounts, as stated in SCC, from payments otherwise due Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.</p>
58. Securities	<p>58.1 The Performance Security, including any additional security required as per ITB 32.5 and ITB 37.1, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the SCC, by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law 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 32.5 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 37.1 shall be valid until a date 30 days from the date of issue of the certificate of DLP in the case of a bank guarantee.</p> <p>58.2 The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by an Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.</p>
59. Day works	59.1 If applicable, the Day works rates in the Contractor's Bid shall be used for small additional amounts of work only when the Project Manager has given written

	<p>instructions in advance for additional work to be paid for in that way.</p> <p>59.2 All work to be paid for as Day works shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.</p> <p>59.3 The Contractor shall be paid for Day works subject to obtaining signed Day works forms.</p>
60. Cost of Repairs	60.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.
F. Force Majeure	
61. Definition of Force Majeure	<p>61.1 In this Clause, "Force Majeure" means an exceptional event or circumstance,</p> <ul style="list-style-type: none"> (a) which is beyond a Party's control; (b) which such Party could not reasonably have provided against before entering into the Contract; (c) which, having arisen, such Party could not reasonably have avoided or overcome; and (d) which is not substantially attributable to the other Party.
	<p>61.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:</p> <ul style="list-style-type: none"> (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies; (b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war; (c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel; (d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity; and (e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
62. Notice of Force Majeure	<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>

	62.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.
63. Duty to Minimize Delay	63.1 Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure.
	63.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.
64. Consequences of Force Majeure	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 <ul style="list-style-type: none"> (a) an extension of time for any such delay, if completion is or will be delayed, under GCC35 ; and (b) if the event or circumstance is of the kind described in 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 destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.
	64.2 After receiving this notice, the Project Manager shall proceed in accordance with GCC 10 to agree or determine these matters.
65. Force Majeure Affecting Subcontractor	65.1 If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's nonperformance or entitle him to relief under this Clause.
66. Optional Termination, Payment and Release	66.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 90 days by reason of Force Majeure of which notice has been given under GCC 62, or for multiple periods which total more than 150 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with GCC 72.5.
	66.2 Upon such termination, the Project Manager shall determine the value of the work done and issue a Payment Certificate, which shall include <ul style="list-style-type: none"> (a) the amounts payable for any work carried out for which a price is stated in the Contract; (b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept

	<p>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;</p> <p>(c) other Costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;</p> <p>(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</p> <p>(e) the Cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.</p>
67. Release from Performance	<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>
G. Finishing the Contract	
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</p>

	<p>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 dates stated in the SCC.</p> <p>71.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC pursuant to GCC 71.1, or they do not receive the Project Manager’s approval, the Project Manager shall withhold the amount stated in the SCC from payments due to the Contractor.</p>
72. Termination	<p>72.1 The Employer may terminate the Contract at any time if the contractor;</p> <ul style="list-style-type: none"> a. does not commence the work as per the Contract, b. abandons the work without completing, c. fails to achieve progress as per the Contract. <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> <ul style="list-style-type: none"> (a) The Contractor uses the advance payment for matters other than the contractual obligations, (b) the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager; (c) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days; (d) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation. (e) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 90 days of the date of the Project Manager’s certificate; (f) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager; (g) the Project Manager gives two consecutive Notices to update the Program and accelerate the works to ensure compliance with GCC Sub clause 22.1 and the

	<p>Contractor fails to update the Program and demonstrate acceleration of the works within a reasonable period of time determined by the Project Manager;</p> <p>(h) the Contractor does not maintain a Security, which is required;</p> <p>(i) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the SCC; and</p> <p>(j) If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to GCC 73.1.</p> <p>72.4 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC 72.3 above, the Project Manager shall decide whether the breach is fundamental or not.</p> <p>72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience.</p> <p>72.6 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.</p>
73.Fraud and Corruption	<p>73.1 If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 15 days' notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site.</p> <p>73.2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with GCC Clause 15.</p> <p>For the purposes of this GCC 73;</p> <p>(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.</p> <p>(ii) "fraudulent practice"⁵ is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;</p> <p>(iii) "collusive practice"⁶ is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;</p> <p>(iv) "coercive practice"⁷ is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;</p> <p>(v) "obstructive practice" is</p> <p>(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</p> <p>(bb) acts intended to materially impede the exercise of the GON's/DP's</p>

	inspection and audit rights provided for under GCC28.3.
74. Black Listing	<p>74.1 Without prejudice to any other rights of the Employer under this Contract, GoN, Public Procurement Monitoring Office (PPMO), on the recommendation of procuring entity, may blacklist a Bidder for its conduct for a period of one (1) to three (3) years on the following grounds and seriousness of the act committed by the bidder:</p> <p>(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.</p> <p>(b) If convicted from a court of law in a criminal offense liable to be disqualified for taking part in procurement contract,</p> <p>(c) If it is established that the Contractor has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.</p>
75. Payment upon Termination	<p>75.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the 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	<p>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.</p>
77. Release from Performance	<p>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.</p>
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> <p>a. the Employer is obligated to notify the Contractor of such suspension within 7 days of having received the DP's suspension notice; and</p> <p>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</p>

	termination notice.
79. Eligibility	<p>79.1 The Contractor shall have the nationality of an eligible country as specified in Section V of the bidding document. The Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.</p> <p>79.2 The materials, equipment, and services to be supplied under the Contract shall have their origin in eligible source countries as specified in Section V of the bidding document and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, the Contractor may be required to provide evidence of the origin of materials, equipment, and services.</p> <p>79.3 For purposes of GCC 79.2, "origin" means the place where the materials and equipment are mined, grown, produced, or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.</p>
80. Project Manager's Duties and Authorities	80.1 The Project Manager's duties and authorities are restricted to the extent as stated in the SCC.
81. Quarries and Spoil Dumps	81.1 Any quarry operated as part of this Contract shall be maintained and left in a stable condition without steep slopes and be either refilled or drained and be landscaped by appropriate planting. Rock or gravel taken from a river shall be removed over some distance so as to limit the depth of material removed at any one location, not disrupt the river flow or damage or undermine the river banks. The Contractor shall not deposit excavated material on land in Government or private ownership except as directed by the Project Manager in writing or by permission in writing of the authority responsible for such land in Government ownership, or of the owner or responsible representative of the owner of such land in private ownership, and only then in those places and under such conditions as the authority, owner or responsible representative may prescribe.
82. Local Taxation	82.1 The prices bid by the Contractor shall include all taxes that may be levied in accordance to the laws and regulations in being in Nepal on the date 30 days prior to the closing date for submissions of Bids on the Contractor's equipment, plant and materials acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor from his responsibility to pay any tax that may be levied in Nepal on profits made by him in respect of the Contract.
83. Value Added Tax	83.1 The Contract is not exempted from value added tax. An amount specified in the schedule of taxes shall be paid by the Contractor in the concerned VAT office within time frame specified in VAT regulation.

84. Income Taxes on Staff	<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. 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	<p>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.</p>

Section VIII. Special Conditions of Contract (SCC)

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

A. General	
GCC 1.1 (q)	The Employer is Federal Water Supply and Sewerage Management Project, Kanchanpur
GCC 1.1 (v)	The Intended Completion Date for the whole of the Works shall be 365 days
GCC 1.1 (bb) & 10.1	The Project Manager is Project Chief The Project Manager and Engineer are synonyms
GCC 1.1 (ee)	The Site is located at Bedkot Municipality, kanchanpur and is defined in drawings No. 1
GCC 1.1 (hh)	The Start Date shall be 2023-04-17
GCC 1.1 (ll)	The Works consist of RCC OHT 225 cum Overhead Tank
GCC 2.2	Sectional Completions are: NA
GCC 2.3 (i)	The following documents also form part of the Contract: NA
GCC 3.1	The language of the contract is ENGLISH/NEPALI The law that applies to the Contract is the law of NEPAL
GCC 11.1	The Project Manager may delegate any of his duties and responsibilities.
GCC 14.1	Schedule of other contractors: NA

GCC 19.1	<p>The minimum insurance amounts and deductibles shall be:</p> <ol style="list-style-type: none"> 1. The minimum cover for loss of or damage to the Works, Plant and Materials is: [115%] of the Contract Amount. 2. The maximum deductible for insurance of the Works and of Plant and Materials is: [100000] 3. The minimum cover for loss or damage to Equipment is : [100%] 4. The maximum deductible for insurance of Equipment is: 100000 5. The minimum for insurance of other property is: [10 lakhs] with unlimited number of occurrences 6. The maximum deductible for insurance of other property is: [100000] 7. The minimum cover for personal injury or death insurance <ol style="list-style-type: none"> i. for the Contractor's employees is that specified in the Labor act of Nepal and ii. for other people is :[10 lakhs] with an unlimited number of occurrences
GCC 20.1	Site Investigation Reports are: NA
GCC 23.1	The following shall be designed by the Contractor: NA
GCC 26.1	The Site Possession Date(s) shall be: 15 days after signing contract
GCC 30.1	The place of arbitration shall be: NEPCA
B. Time Control	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within 730days from the date of the Letter of Acceptance.
GCC 34.3	<p>The period between Program updates is 60 days</p> <p>The amount to be withheld for late submission of an updated Program is 50000 NPR.</p>
C. Quality Control	
GCC 42.1	The Defects Liability Period is 365 days.
D. Cost Control	
GCC 49.1	Prevailing Interest Rate 10 %
GCC 53.1	The Contract is not subject to price adjustment.

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.			
	Bidder should not propose Base Price and Source			
	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 Bid which is approved by the Project manager			
	Sl No.	Construction Material	Unit	Base Price (NRs/Unit) (Ex-factory)
1	NA	NA	0.00	0
GCC 53.7	The Price Adjustment amount shall be limited to a maximum 0 % of the initial Contract Amount			
GCC 54.1	The proportion of payments retained is: 5 %			
GCC 55.1	The liquidated damages for the whole of the Works are 0.05 % of the final Contract Price per day. The maximum amount of liquidated damages for the whole of the Works is 10 % of the final Contract Price.			
GCC 56.1	The Bonus for the whole of the Works is 0 % per day. The maximum amount of Bonus for the whole of the Works is 0 % of the Contract Price.			
GCC 57.1	The Advance Payments shall be 10.00 % and shall be paid in two equal installments and to the Contractor.			
	Installment	Percentage	Requirement	
	1	5.0	APG	
	2	5.0	APG and site mobilisation	
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% 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 8 %			

E. Finishing the Contract

GCC 71.1	The date by which operating and maintenance manuals are required is NA
GCC 71.2	The date by which “as built” drawings are required is NA The amount to be withheld for failing to produce "as built" drawings and/or Operating and maintenance manuals is NA
GCC 72.3 (i)	The maximum number of days is 200 days
GCC 80	The Project Manager has to obtain the specific approval of the Employer for taking any of the following actions : a. Approving subcontracting of any part of the works under General Conditions of Contract Clause 13; b. Certifying additional costs determined under General Conditions of Contract Clause 50; c. Determining start date under General Conditions of Contract Clause 1; d. Determining the extension of the intended Completion Date under General Conditions of Contract Clause 35; e. Issuing a Variation under General Conditions of Contract Clause 1 and 46, except in an emergency situation, as reasonably determined by the Project Manager; emergency situation may be defined as the situation when protective measures must be taken for the safety of life or of the works or of adjoining property. f. Adjustment of rates under General Conditions of Contract Clause 45;

Section IX: 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.

Section IX: 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*[insert name of the contract and identification number, as given in the Contract Data/SCC]* to you as your bid price *[insert amount in figures and words in Nepalese Rupees]* as corrected and modified in accordance with the Instructions to Bidders is hereby selected as substantially responsive lowest evaluated bid.

Authorized Signature:

Name:

Title:

CC:

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

[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.....*name of the contract and identification number, as given in the Contract Data/SCC* for the Contract price of Nepalese Rupees [*insert amount in figures and words in Nepalese Rupees*], as corrected in accordance with the Instructions to Bidders is hereby accepted in accordance with the Instruction to Bidders.

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

Authorized Signature:

Name and Title of Signatory:

Contract Agreement

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

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

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - (a) the Letter of Acceptance;
 - (b) the Letters of 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
 - (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
List of Approved Subcontractors

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

Name of Subcontractors	Description of Works	Value/Percentage of subcontract

Performance Security

(On letterhead paper of the Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law)

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

Beneficiary: Name and Address of Employer

Date:

Performance Guarantee No.:.....

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

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

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

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

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

Note:

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

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

** Insert the date thirty days after the date specified for the Defect Liability Period. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee".

Advance Payment Security

(On letterhead paper of the Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law)

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

Beneficiary: *Name and address of employer*

Date :

Advance Payment Guarantee No.....

We have been informed thathas entered into Contract No. *Name and Address of Employer*.....*name of the Contractor*.....(hereinafter called "the Contractor")..reference number of the Contract.....dated with you, for the execution of ...contract and brief description of Works (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum..... name of the currency and amount in figures*...(*.... amount in words*) is to be made against an advance payment guarantee.

At the request of the Contractor, we..... *name of the Bank* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of.....name of the currency and amount in figures*..... (*..... amount in words*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works.

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

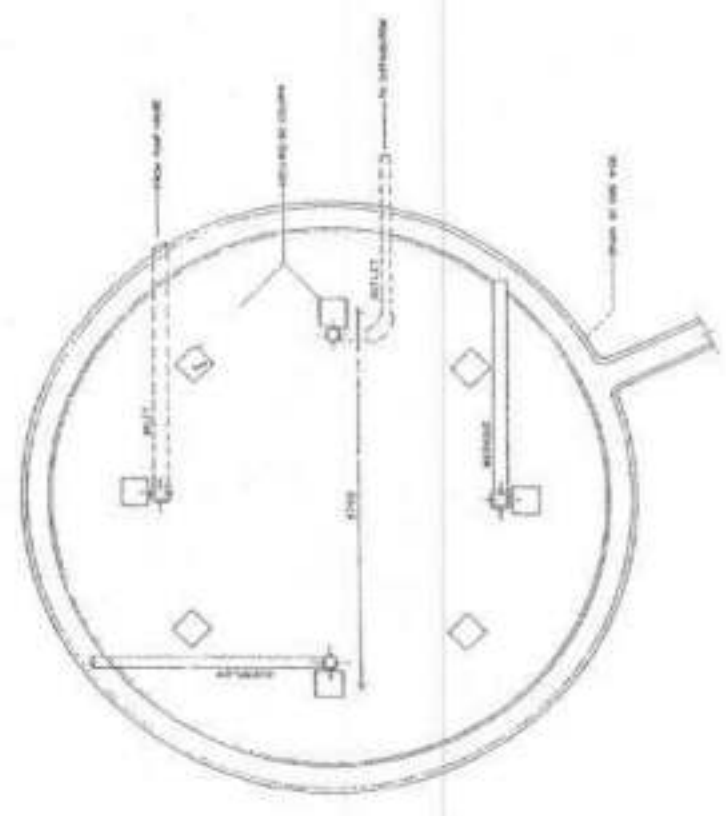
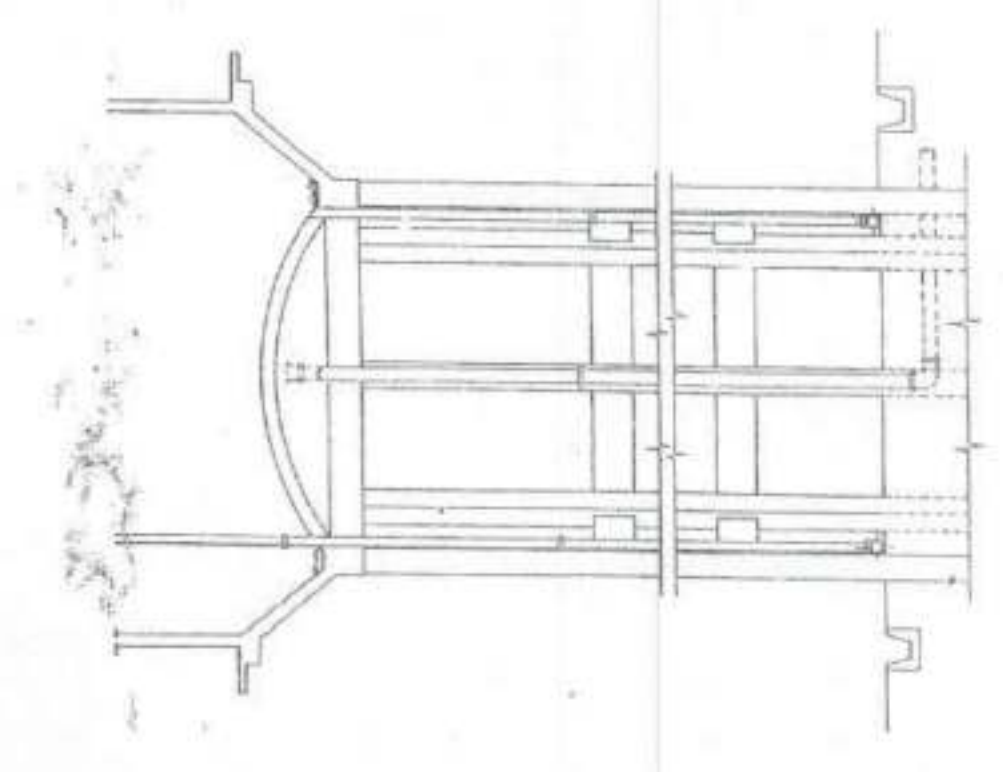
.....
Seal of Bank and Signature(s)

Note:

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

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

** Insert the date Thirty days after the expected completion date. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee".



NOTES:

REVISIONS:

GOVERNMENT OF NEPAL

DEPARTMENT OF WATER SUPPLY & SEWERAGE

CHECKED BY:

APPROVED BY:

R.C.C. OVERHEAD TANK - 225M³

PLAN & ELEVATION

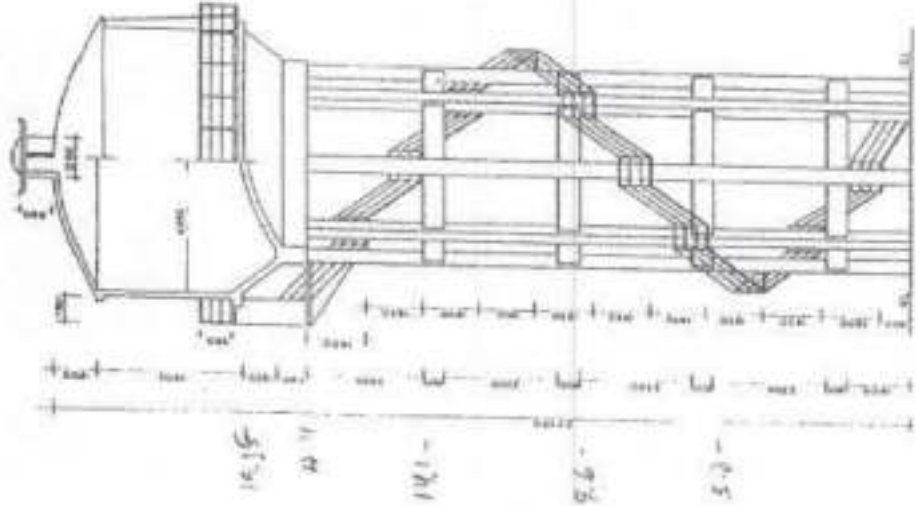
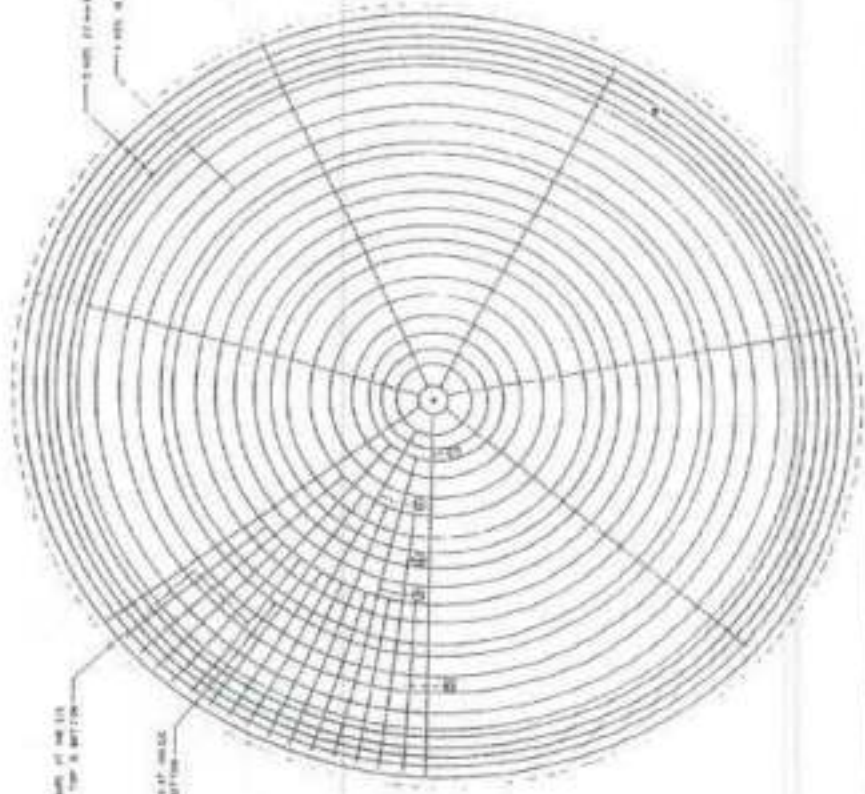
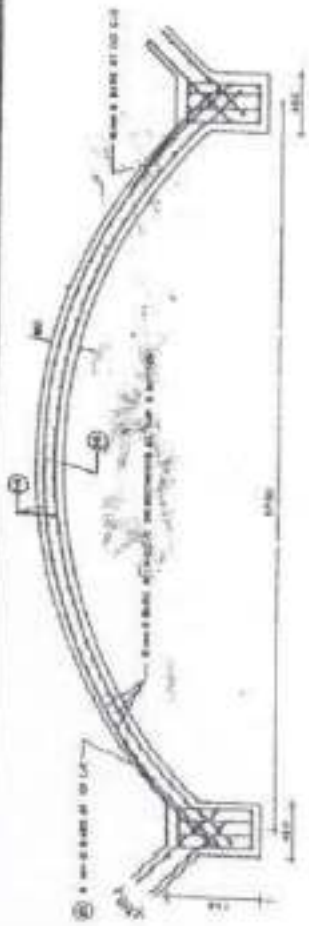
STANDARD DRAWING

DRG. NO.

D-OH3

2/14

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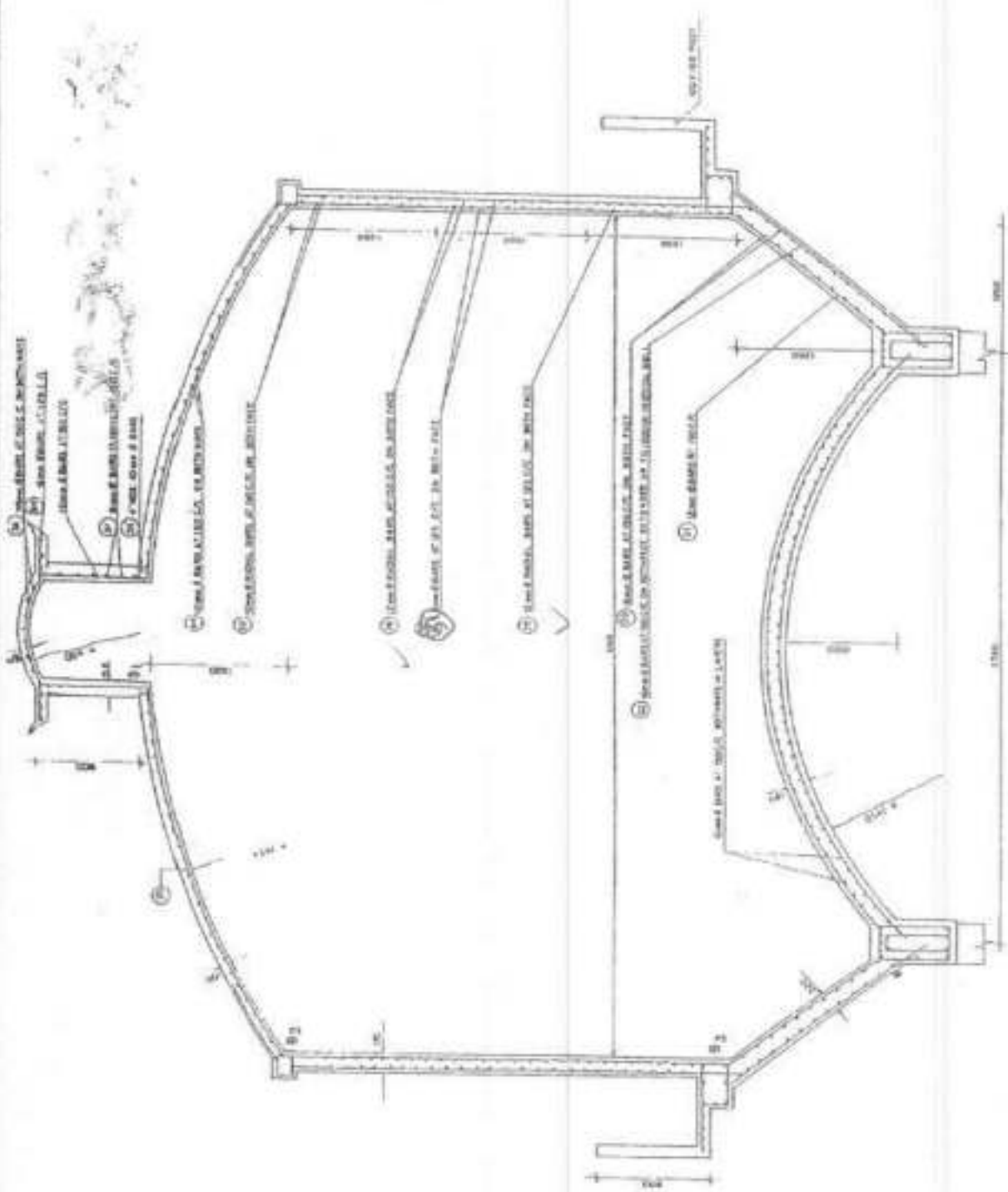
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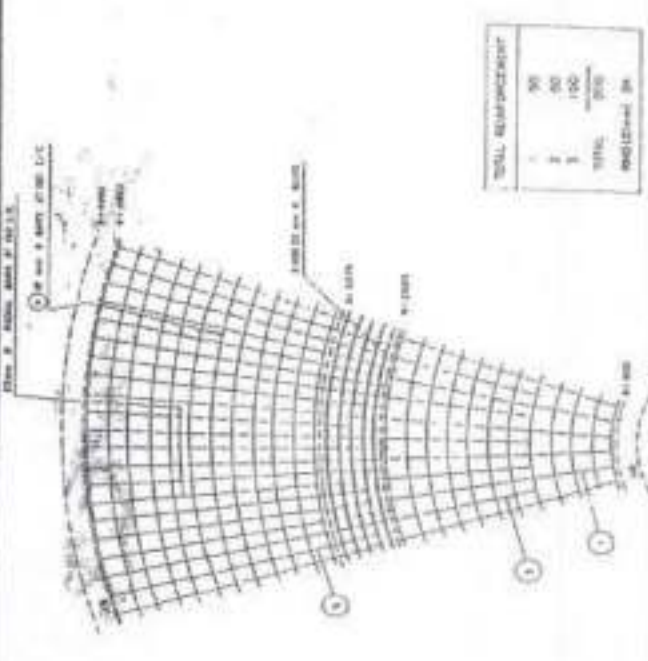
REVISIONS

I.G. OF MEPAL DEPARTMENT OF WATER SUPPLY & SEWERAGE CHECKED BY:	R.C.C. OVERHEAD TANK - 225M ³ BOTTOM DOME DETAILS STANDARD DRAWING	DRG.NO. D-OHS
		APPROVED BY: 3114

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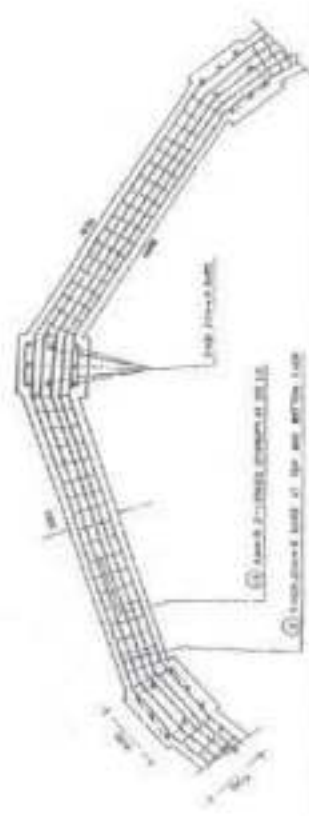


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A	DELTA CONSULT	CHECKED BY: _____ APPROVED BY: _____		



LONG DEVELOPED SECTION OF CYLINDRICAL WALL
SCALE: 1:20

DETAILS OF BOTTOM FOUNDATION PLAN
SCALE: 1:20



HORIZONTAL LONGITUDINAL SECTION OF BRACING
SCALE: 1:20

NOTES: REVISIONS:

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CHECKED BY:

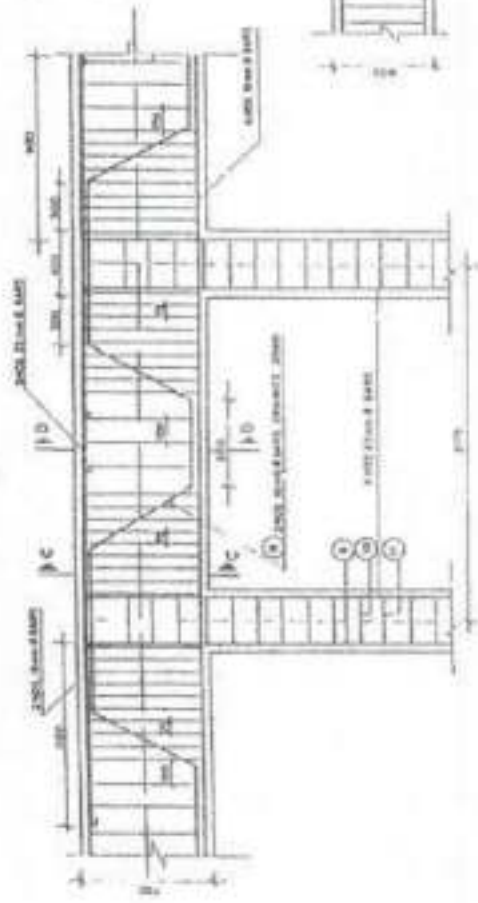
APPROVED BY:

G. OF NEPAL
DEPARTMENT OF WATER SUPPLY & SEWERAGE

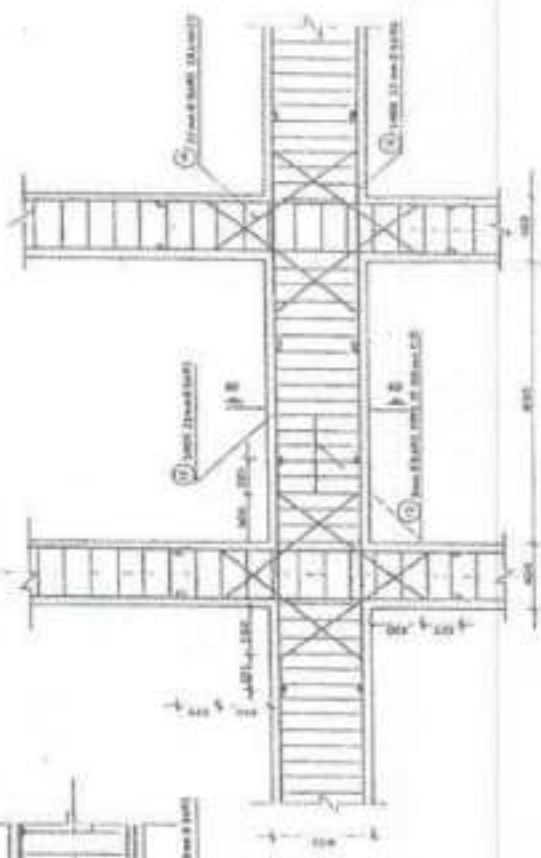
R.C.C. OVERHEAD TANK - 225MP
REINFORCEMENT DETAILS

STANDARD DRAWING

DRG NO.
D-OH3
5/14



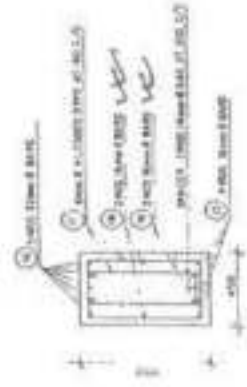
LONGITUDINAL SECTION OF TOP RING GIRDER
SCALE: 1:25



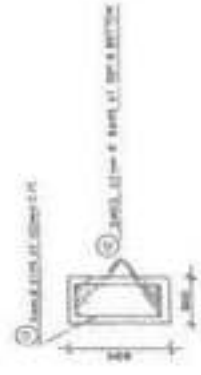
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SECTION C-C



SECTION D-D



SECTION OF BRACING AT B-B

NOTES:
REVISIONS:

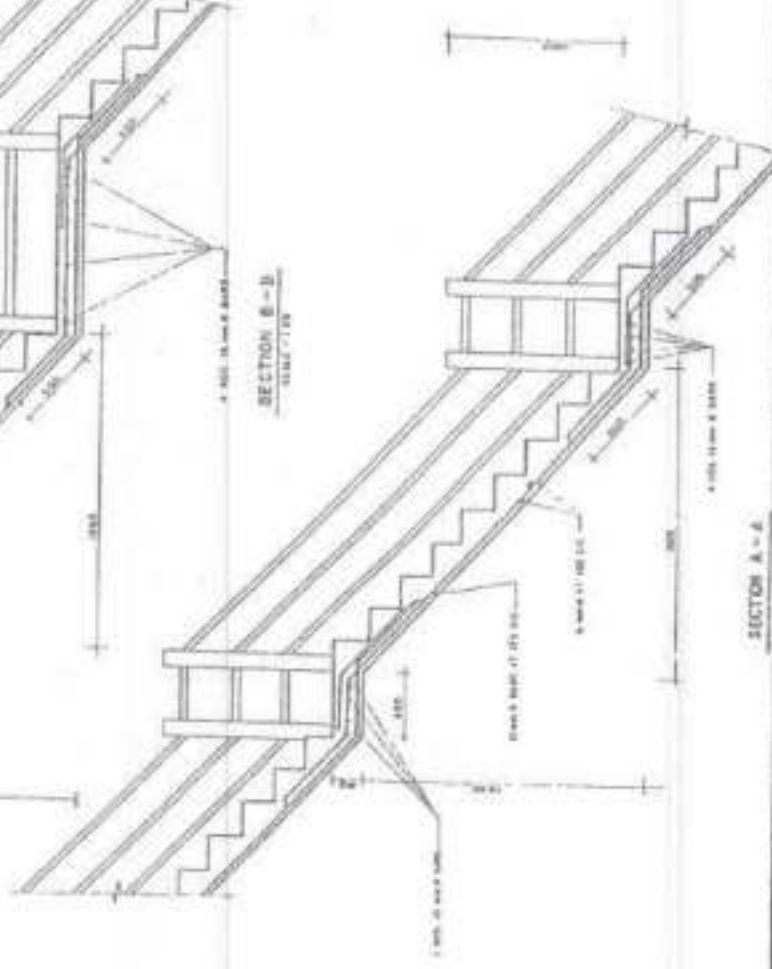
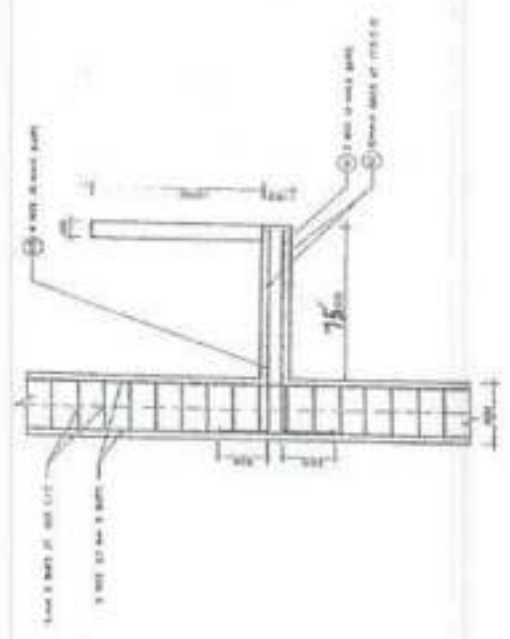
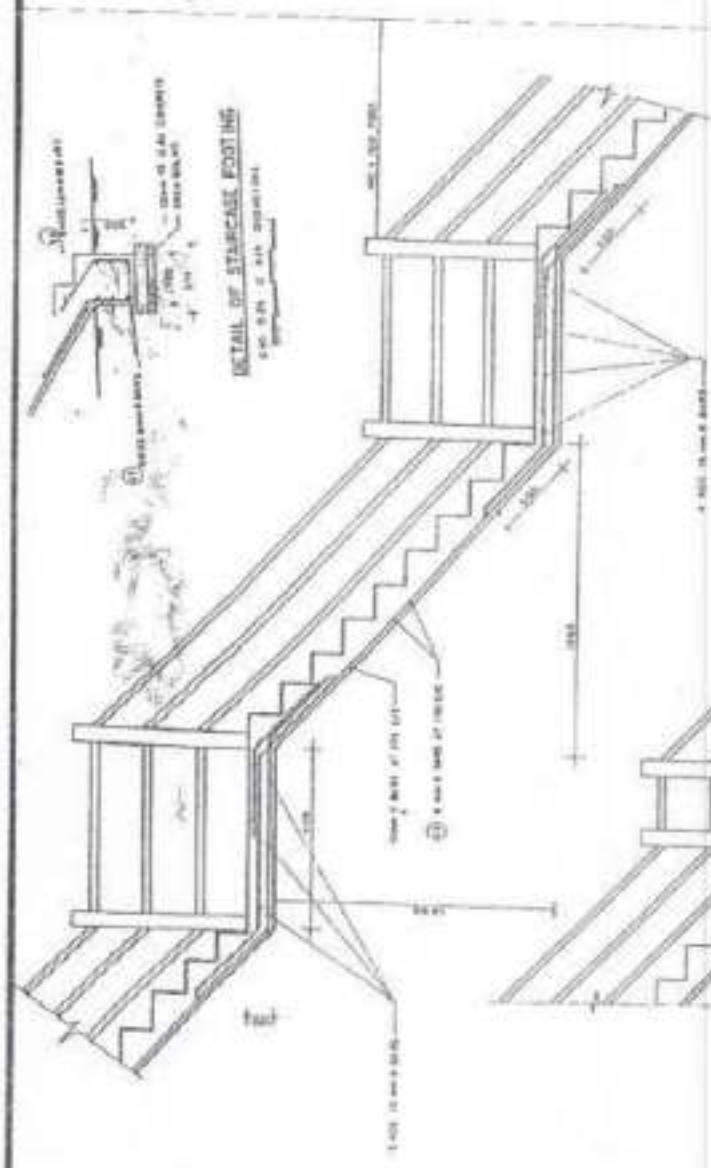
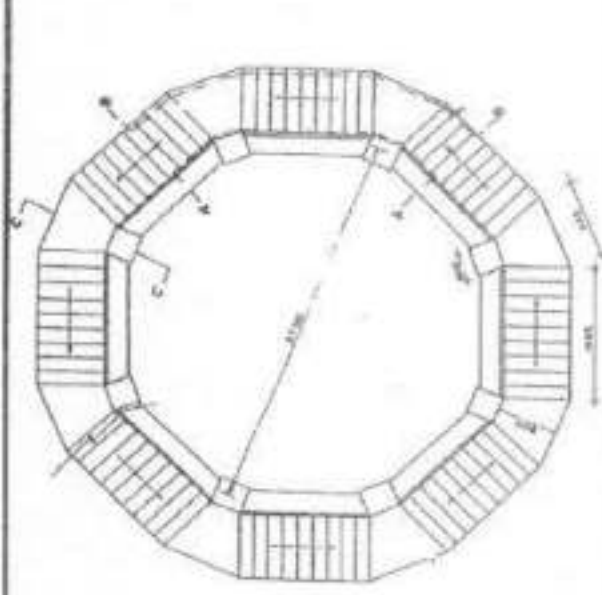
DEPARTMENT OF WATER SUPPLY & SEWERAGE
G. OF NEPAL
CHECKED BY: APPROVED BY:

R.C.C. OVERHEAD TANK - 225M³
REINFORCEMENT DETAILS

DRG. NO.
D-OH3
7/14

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STANDARD DRAWING



NOTES:

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G. OF NEPAL
DEPARTMENT OF WATER SUPPLY & SEWERAGE

R.C.C. OVERHEAD TANK - 225MP
STAIRCASE DETAILS

DRG.NO.
D-CH3
8/14

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CHECKED BY: APPROVED BY:

STANDARD DRAWING

Sl. No. and location of member	Drawing Substrate	No. of members	Bar Type	Bar No.	Bar Dia.	Detailed Dimensions (mm)				Cutting Bar Length	No. of Bars per Member	Total No. of Bars	Weight of Bars	Remarks
						R ₁	R ₂	R ₃	R ₄					
Foundation slab	SFD - S/A BFD - S/A	1	S1-B	1	22mm		281	197	4.28m	30	118	1131	11.31	NOTE: 1) IF REINFORCEMENT IS NOT PROVIDED AT THE CORNER, THE WEIGHT OF BARS WILL BE CALCULATED AS PER THE FOLLOWING TABLE. 2) ALL DIMENSIONS ARE IN MM. 3) ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED.
		2	S2-B	2	22mm		281	197	4.80m	30	118	1131	11.31	
		3	S3-B	3	22mm		281	197	2.50m	30	118	1131	11.31	
		4	S4-B	4	12mm		18-24-0m	197	197	1.70m	30	118	1131	
Column	SFD - S/A BFD - S/A	5	C1-B	1	22mm		281	197	2.20m	6	118	1131	11.31	NOTE: 1) IF REINFORCEMENT IS NOT PROVIDED AT THE CORNER, THE WEIGHT OF BARS WILL BE CALCULATED AS PER THE FOLLOWING TABLE. 2) ALL DIMENSIONS ARE IN MM. 3) ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED.
		6	C2-B	2	22mm		281	197	2.20m	6	118	1131	11.31	
		7	C3-B	1	22mm		281	197	2.20m	6	118	1131	11.31	
		8	C4-B	1	22mm		281	197	2.20m	6	118	1131	11.31	
Beam	SFD - S/A BFD - S/A	9	B1-B	1	22mm		281	197	2.20m	6	118	1131	11.31	NOTE: 1) IF REINFORCEMENT IS NOT PROVIDED AT THE CORNER, THE WEIGHT OF BARS WILL BE CALCULATED AS PER THE FOLLOWING TABLE. 2) ALL DIMENSIONS ARE IN MM. 3) ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED.
		10	B2-B	2	22mm		281	197	2.20m	6	118	1131	11.31	
		11	B3-B	1	22mm		281	197	2.20m	6	118	1131	11.31	
Slab	SFD - S/A BFD - S/A	12	S1-B	1	22mm		281	197	2.20m	6	118	1131	11.31	NOTE: 1) IF REINFORCEMENT IS NOT PROVIDED AT THE CORNER, THE WEIGHT OF BARS WILL BE CALCULATED AS PER THE FOLLOWING TABLE. 2) ALL DIMENSIONS ARE IN MM. 3) ALL DIMENSIONS ARE TO FACE UNLESS SPECIFIED.
		13	S2-B	1	22mm		281	197	2.20m	6	118	1131	11.31	

NOTES:

REVISIONS:

DEPARTMENT OF WATER SUPPLY & SEWERAGE

G. OF NEPAL

R.C.C. OVERHEAD TANK - 225MP

BAR BENDING SCHEDULE

STANDARD DRAWING

DRG.NO. D-OH3

9/14

DELTA CONSULT

CHECKED BY:

APPROVED BY:

Mark and Location of Member (1.1)	Drawing Reference (1.2)	No. of Member	No. of Type	Bar No.	Bar Size	Bends (Dimension) Sketch					Cutting Bar Length (6.1)	No. of Bar per member (5.1)	Total No. of Bars (10.1)	Weights (11.1)	Total Weight of Bars (12.1)	Remarks	Notes	
						R1	R2	R3	R4	R5								
7. Section Data		1	8m	①	16 mm						1.962m	168	1303	1111	1817.5 kg	1121		Notes: 1. 20% WELDED BAR WEIGHT NOT TO BE CONSIDERED. 2. 20% WELDED BAR WEIGHT NOT TO BE CONSIDERED. 3. 20% WELDED BAR WEIGHT NOT TO BE CONSIDERED. 4. 20% WELDED BAR WEIGHT NOT TO BE CONSIDERED. 5. 20% WELDED BAR WEIGHT NOT TO BE CONSIDERED.
		1	0.8	②	17 mm						0.73m	20	92	0.62 kg	187.24 kg	3.00m x 0.73m		
		1	0.8	③	16 mm						2.56m	343	14	0.62 kg	213.90 kg			
		1	0.8	④	16 mm						3.36m	211	14	0.62 kg	207.84 kg			
		2	0.8	⑤	16 mm						3.42m	217	14	0.62 kg	205.64 kg			
		2	0.8	⑥	16 mm						3.36m	214	20	0.62 kg	241.51 kg			
		4	0.8	⑦	16 mm						2.79m	748	38	0.62 kg	291.42 kg			
		5	0.8	⑧	16 mm						0.23m	206	102	0.62 kg	440.89 kg			
8. Section Data from Main Drawing		1	0.8	⑨	16 mm						2.01m	74	28	0.62 kg	241.51 kg			
		1	0.8	⑩	16 mm						2.76m	8	8	2.02 kg	440.89 kg			
		1	0.8	⑪	8 mm						30.0m	4	4	0.222	45.00	45.00 x 30.00		

NOTES

REVISIONS:

DEPARTMENT OF WATER SUPPLY & SEWERAGE

CHECKED BY:

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G. OF MEPAL

R.C.C. OVERHEAD TANK - 225M³

BAR BENDING SCHEDULE

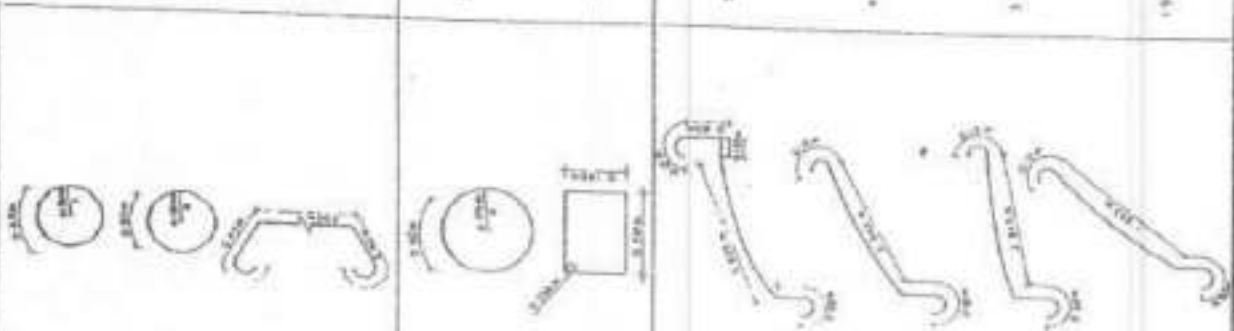
STANDARD DRAWING

DRG. NO. D-OH3

11/14

NOTE -
 1. R.C.C. OVERHEAD TANK - 225M³
 2. BAR BENDING SCHEDULE
 3. ALL DIMENSIONS TO CENTER
 4. ALL DIMENSIONS TO CENTER
 5. ALL DIMENSIONS TO CENTER
 6. ALL DIMENSIONS TO CENTER
 7. ALL DIMENSIONS TO CENTER
 8. ALL DIMENSIONS TO CENTER
 9. ALL DIMENSIONS TO CENTER
 10. ALL DIMENSIONS TO CENTER

No. of Bars	Bar Size	Bar Length (m)	No. of Bars per Machine	Total No. of Bars	Weight (kg)	Total Weight of Bars (kg)	Remarks
1	12 mm	20.51	2 x 17	34	666.14	3027.204	4.075 R 4.075 R
1	12 mm	25.47	2 x 5	10	254.70	95.54 kg	4.075 R 4.075 R
1	8 mm	8.1	1 x 279	279	2232.9	775.02 kg	
1	12 mm	18.32	6	6	109.92	42.88 kg	4.075 R 4.075 R
1	8 mm	0.83	659	659	5272.4	24.42 kg	
1	12 mm	3.85	22	22	847.0	70.87 kg	
1	12 mm	0.42	22	22	847.0	24.78 kg	
1	16 mm	3.40	6	6	2040.0	84.47 kg	
1	8 mm	1.93	10	10	1540.0	64.37 kg	



NOTE: _____

REVISIONS: _____

DEPARTMENT OF WATER SUPPLY & SEWERAGE

CHECKED BY: _____

APPROVED BY: _____

G. OF NEPAL

R.C.C. OVERHEAD TANK - 225M³

BAR BENDING SCHEDULE

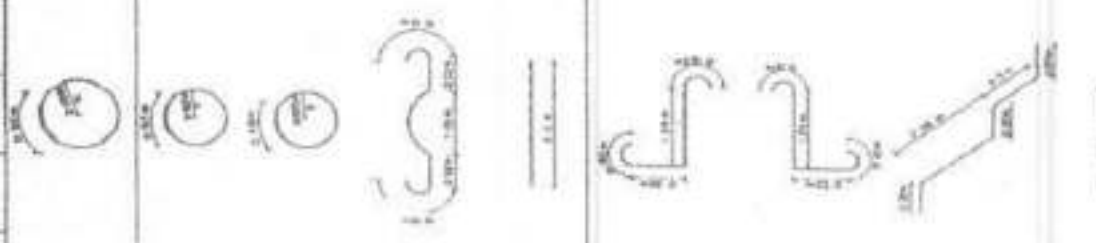
STANDARD DRAWING

DRG. NO. D-OHS 12/14

DELTA CONSULT

M.A.N. & C. Location & Member Number (1)	Erecting Reference (2)	No. of Members (3)	Bar Type (4)	Bar Size (5)	Bar No. (6)	Details (7) (8)				Cutting Bar Length (9)	No. of Bars per Member (10)	Total No. of Bars (11)	Weight/Member (12)	Total Weight of Bars (13)	Remarks (14)
						M ₁	M ₂	M ₃	M ₄						
		1	D-9	16 mm	15	1	2	3	4	18.27 m	20	1101	0.11	220.20 kg	123
		1	D-9	16 mm	15	1	2	3	4	3.20 m	4	4	0.425 kg	1.70 kg	0.75 kg
		1	D-9	16 mm	15	1	2	3	4	2.70 m	7	7	0.395 kg	2.76 kg	0.75 kg
		1	D-9	16 mm	15	1	2	3	4	2.30 m	10	10	0.42 kg	4.20 kg	0.75 kg
		1	D-9	16 mm	15	1	2	3	4	1.2 m	15	15	0.222 kg	3.33 kg	0.75 kg
		7	D-9	16 mm	15	1	2	3	4	1.925 m	4	4	1.575 kg	6.30 kg	0.75 kg
		7	D-9	16 mm	15	1	2	3	4	1.70 m	5	5	0.42 kg	2.10 kg	0.75 kg
		8	D-9	16 mm	15	1	2	3	4	2.80 m	5	5	0.42 kg	2.10 kg	0.75 kg
		8	D-9	16 mm	15	1	2	3	4	0.810 m	10	10	0.222 kg	2.22 kg	0.75 kg

NOTES:-
 1. R.C.C. STANDARD BARS WITH
 2. NO. 1. WEIGHT AS PER IS: 10261 -
 1982
 3. R.C.C. STANDARD BARS WITH
 4. NO. 2. WEIGHT AS PER IS: 10261 -
 1982
 5. ALL BARS TO BE PROVIDED TO COVER
 6. ALL BARS TO BE PROVIDED TO COVER



NOTES: _____

REVISIONS: _____

CHECKED BY: _____

APPROVED BY: _____

DEPARTMENT OF WATER SUPPLY & SEWERAGE

G. OF NEPAL

R.C.C. OVERHEAD TANK - 225M³

BAR BENDING SCHEDULE

STANDARD DRAWING

DRG. NO. D-OH3 13/14

DELTA CONSULT

Bar and Location of Member (1)	Drawing Reference (2)	No. of Member (3)	Bar Type (4)	Bar No. (5)	Bar Size (6)	Detailed (Dimensional) Sketch (7)				Cutting Bar Length (8)	No. of Bars per Member (9)	Total No. of Bars (10)	Weight per Bar (11)	Total Weight of Bars (12)	Remarks (13)	
						X ₁	X ₂	X ₃	X ₄							
		1		15	16mm					1.00m	1	1	0.12	0.12	40-10/14	
		1		16	16mm					1.00m	1	1	0.12	0.12	40-10/14	
		1		17	16mm					1.00m	1	1	0.12	0.12	40-10/14	
		1		18	16mm					1.00m	1	1	0.12	0.12	40-10/14	

NOTES: REVISIONS:

G.O.F NEPAL
 DEPARTMENT OF WATER SUPPLY & SEWERAGE
 CHECKED BY:

R.C.C. OVERHEAD TANK - 225M³
 BAR BENDING SCHEDULE
 STANDARD DRAWING

DRG.NO. D-OH3
 14/14