BIDDING DOCUMENT

for

THE PROCUREMENT OF

Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m),

CONTRACT NO.: RIDONAW/TB/134/NCB/083-84/05

(Turnkey Contract)

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

ROAD INFRASTRUCTURE DEVELOPMENT OFFICE

NAWALPARASI (BA.SU.PA.)

Issued on: 19th Ashoj, 2083

Issued to: All Eligible Bidders

Invitation for Bids No.: 01/RIDONAW/083-08

Contract Identification No.: RIDONAW/TB/134/NCB/083-84/05

Abbreviations

BD ... . Bidding Document

BDF .... Bidding Forms

BDS .... Bid Data Sheet

BOQ ... . Bill of Quantities

COF ..... Contract Forms

DP ... . Development Partners

DoLI... ..... Department of Local Infrastructure

e-GP……Electronic Government Procurement

ELI ... . Eligibility

EEC... .... Evaluation and Eligibility Criteria

GCC ... . General Conditions of Contract

GoN[1] ... . Government of Nepal

ICC ... . International Chamber of Commerce

IFB ……. Invitation for Bids

ITB ... . Instructions to Bidders

JV ... . Joint Venture

NCB ... . National Competitive Bidding

NRs ..... Nepalese Rupees

PAN ... . Permanent Account Number

PPA ... . Public Procurement Act, 2063

PPMO ... . Public Procurement Monitoring Office

PPR ... . Public Procurement Regulations, 2064

PS …….. Provisional Sum

SBD .... Standard Bidding Document

SCC ... . Special Conditions of Contract

TS ... . Technical Specifications

VAT ... . Value Added Tax

WRQ ... . Works Requirements

[1] "GoN" word indicates all public entities according to Public Procurement Act, 2063

Table of Contents

Invitation for Bids 1

Part - I Bidding Procedures

Section - I Instructions to Bidders ... ……..3
Section - II Bid Data Sheet……...…….24
Section - III Evaluation and Eligibility Criteria……..……..……..30
Section – IV Bidding Forms……..…….....33

Part - II Requirements 44

Section - V Works Requirements …….…….46
Section - VI Bill of Quantities……..…..….52

Part - III Conditions of Contract and Contract Forms 57

Section - VII General Conditions of Contract……..…61
Section - VIII Special Conditions of Contract…….…....92
Section - IX Contract Forms ……..97

Government of Lumbini Province
Ministry of Physical Infrastructure Development
Transport Infrastructure Directorate
Road Infrastructure Development Office
Nawalparasi (Ba.Su.Pa.)

Invitation for Bids

IFB No: **-01/RIDONAW/083-84** **Date of Publication: 2083-06-19 BS**

1. Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.) invites sealed bids from eligible bidders for following works under NCB bidding procedure through **Hard Copy Submission Only**.

S.N.	*Project Name*	*Bid Doc. Fee (NRs.)*	*Engineers Estimate Amount*	*Bid Security Amount (NRs)*
1	Upgrading of i) Bardaghat 8 & 9 ko Simanako Sadak Bardaghat-9, Nawalparasi, ii) RCC Drain Construction Work at Purba Banjanch Chowk Samma Pugne Sadak, Bardaghat -8, Nawalparasi., RIDONAW/134/NCB/083-84/01	3,000.00	34,53,316.95	87,000.00
2	Upgrading of i) Suryapur Chowk dekhi Maheshpur jane sadak, Bardaghat -8, ii) Kalika Tole Road Bardaghat 10, Nawalparasi. RIDONAW/134/NCB/083-84/02	3000.00	25,93,759.55	65,000.00
3	Upgrading of i) Kandel Chowk Dekhi Pradhan Chowk Sadak Bardaghat-13, Nawalparasi, ii) Lekhnath Kafle ko Ghar Uttar Ghola Pari Khadananda Gautam ko Ghar Samma Sadak, Bardaghat -13, iii) Indra Bahadur Chowk Dekhi Purva Hulaki Jodne Sadak, Bardaghat-13, Nawalparasi . RIDONAW/134/NCB/083-84/03	3,000.00	38,39,611.96	96,000.00
4	Upgrading of i) Subidar chauk dekhi Paschim Thaman ko ghar bata uttar Park samma jane Sadak, Bardaghat -4, ii) Aadarsanagar Chauk dekhi dakshin jane sadak , Bardaghat-4, Nawalparasi . RIDONAW/134/NCB/083-84/04	3,000.00	30,18,608.92	76,000.00
5	Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m), RIDONAW/TB/134/NCB/083-84/05	3,000.00	80,16,877.17	2,01,000.00
6	Rehabilitation of Sukhaura Khola Trail Bridge, Bardaghat-2, Nawalparasi., RIDONAW/TB/134/NCB/083-84/06	3,000.00	33,72,613.47	85,000.00

Bid Validity Period for all projects : January 25, 2027
Bid Security Period for all projects: February 24, 2027
Last date of Bid Submission : Tuesday, October 27, 2026, Time : 12:00
Bid Opening Date : Tuesday, October 27, 2026, Time : 13:30 at office premise.

2. The eligible bidders are required to have the following construction experience for the Contracts mentioned below:

S.N.	**Project Name**	**Contract No**	**Construction Experience Required**
1	Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in	RIDONAW/TB/134/NCB/083-84/05	At least one Trail Bridge in Pile Foundation within

S.N.	Project Name	Contract No	Construction Experience Required
	Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m),		the last 10 years.
2	Rehabilitation of Sukhaura Khola Trail Bridge, Bardaghat-2, Nawalparasi.,	RIDONAW/TB/134/NCB/083-84/06	At least one Trail Bridge within the last 10 years.

3. A complete set of Bidding Document may be purchased from ***Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.) located east of Loktantrik Chowk, Parasi Bazar, Nawalparasi*** by eligible Bidders on the submission of a written application, along with the copy of company/firm registration certificate and the Voucher for payment of Bid Document Fee mentioned above till 5:00 PM upto October 26, 2026 during office hours. The payment for the non-refundable Bid fee mentioned above shall be in the Revenue Account as specified below.

Office Name	Bank Name	Bank Address	Account Number	Office code/ Revenue Heading No.
Road Infrastructure Development Office, Nawalparasi West	Rastriya Banijya Bank	Parasi Branch	1000100200010000 (Rajaswa)	Office code: 3370147015 Revenue Heading no: 14229

4. Bidders are strongly Requested to mention the name of the Firm and the Contract ID in Revenue Voucher for Bid Document Fee. Single Revenue Voucher for a single Bid Document shall be submitted. In Case the bidder chooses to deposit Revenue for more than one bid through a single voucher then the bidders are strongly suggested to mention each Contract ID in Revenue Voucher for which the revenue has been paid. The Non compliance of this may result for declaring the Bid **NON-RESPONSIVE.**

5. Sealed or Electronic bids must be submitted to the office Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.) located east of Loktantrik Chowk, Parasi Bazar, Nawalparasi by hand/courier before till 12:00 Hrs upto Tuesday, October 27, 2026. Bids received after this deadline will be rejected.

6. Any additional information or query regarding the bids can be acquired by contacting us within office hours or by writing us in ***ridonawalparasi@gmail.com***

SECTION– I: Instructions to Bidders

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

A. General	
1. Scope of Bid	1.1 In connection with the Invitation for Bids indicated in the **Bid Data Sheet (BDS)**, the Employer, as indicated **in the BDS**, issues this Bidding Document for the procurement of Works as specified in Section V (Works Requirements). The name, identification, and number of lots (Contracts) / multiple contracts of the National Competitive Bidding (NCB) are provided **in the BDS.**
	1.2 Throughout this Bidding Document: (a) the term "in writing" means communicated in written form and delivered against receipt through e-GP system or e-mail or fax or courier; (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and (c) "day" means calendar day.
2. Source of Funds	2.1 GoN Funded: In accordance with its annual program and budget, approved by the GoN, the implementing agency indicated **in the BDS** plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued. Or Public Entities' own Resource Funded: In accordance with its annual program and budget, approved by the public entity, the implementing agency indicated **in the BDS** plans to apply a portion of the allocated budget to eligible payments under the contract(s) for which this Bidding Document is issued. Or DP Funded: The GoN has applied for or received financing (hereinafter called "funds") from the Development Partner (hereinafter called "the DP") indicated **in the BDS** toward the cost of the project named in the BDS. The GoN intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.
	2.2 DP Funded: Payment by the DP will be made only at the request of the GoN and upon approval by the DP in accordance with the terms and conditions of the financing agreement between the GoN and the DP (hereinafter called the "Loan/Grant Agreement"), and will be subject in all respects to the terms and conditions of that Loan/Grant Agreement. No party other than the GoN shall derive any rights from the Loan Agreement or have any claim to the funds.
3. Fraud and Corruption	3.1 Procuring Entities as well as bidders, suppliers and contractors and their sub-contractors 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;

	(a) the Employer adopts, for the purposes of this provision, the terms as defined below: (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party; (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party. (v) "obstructive practice" means (a) deliberately destroying, falsifying, altering, or concealing of evidence material to an investigation; (b) making false statements to investigators in order to materially impede an investigation; (c) failing to comply with requests to provide information, documents, or records in connection with an investigation; (d) threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (e) materially impeding GoN/DP's contractual rights of audit or access to information; and (vi) "integrity violation" is any act which violates Anticorruption Policy, including (i) to (v) above and the following: abuse, conflict of interest, violations of GoN/DP sanctions, retaliation against whistleblowers or witnesses, and other violations of Anticorruption Policy, including failure to adhere to the highest ethical standard. (b) the Employer will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations in competing for the contract; (c) DP will cancel the portion of the financing allocated to a contract if it determines at any time that representative(s) of the GoN or of a beneficiary of DP-financing engaged in corrupt, fraudulent, collusive, or coercive practices or other integrity violations during the procurement or the execution of that contract, without the GoN having taken timely and appropriate action satisfactory to DP to remedy the situation. (d) DP will impose remedial actions on a firm or an individual, at any time, in accordance with DP's Anticorruption Policy and related Guidelines (as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in DP-financed, -

	administered, or -supported activities or to benefit from an DP-financed, -administered, or -supported contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices or other integrity violations; and (e) The Contractor shall permit the GoN/DP to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the GoN/DP, if so required by the GoN/DP.
	3.2 The Bidder shall not carry out or cause to carry out the following acts with an intention to influence the implementation of the procurement process or the procurement agreement: (a) give or propose improper inducement directly or indirectly, (b) distortion or misrepresentation of facts, (c) engaging in corrupt or fraudulent practice or involving in such act, (d) interference in participation of other competing bidders, (e) coercion or threatening directly or indirectly to cause harm to the person or the property of any person to be involved in the procurement proceedings, (f) collusive practice among bidders before or after submission of bids for distribution of works among bidders or fixing artificial/uncompetitive bid price with an intention to deprive the Employer the benefit of open competitive bid price, (g) contacting the Employer with an intention to influence the Employer with regards to the bids or interference of any kind in examination and evaluation of the bids during the period from the time of opening of the bids until the notification of award of contract.
	3.3 PPMO, on the recommendation of the Procuring Entity may blacklist a Bidder for a period of one (1) to three (3) years for its conduct including on the following grounds and seriousness of the act committed by the bidder: (a) if convicted by a court of law in a criminal offence which disqualifies the Bidder from participating in the contract, (b) if it is established that the contract agreement signed by the Bidder was based on false or misrepresentation of Bidder's qualification information, (c) if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for, or in executing, a GoN/DP-financed contract. (d) if the successful bidder fails to sign the contract. (e) if the bidder fails to inform or informs after the specified time about the saturation of the maximum number of contracts as per ITB 4.9. (f) a Bidder requests for withdrawal or modification of its bid: (i) after the Bid Submission deadline and during the period of validity specified by the Bidder on the Letter of 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. (g) if the bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification pursuant to ITB 24.1. (h) a Bidder changes the prices or substance of the bid while providing information pursuant to ITB 24.1.
	3.4 A bidder declared blacklisted and ineligible by the GoN, Public Procurement Monitoring Office (PPMO), by a competent authority under the prevailing law for failure to repay a loan disbursed by a bank or financial institution, and/or the DP in case of DP funded project, shall be ineligible to bid for a contract during the period of time determined by the GoN, PPMO, the competent authority and/or the DP. 3.5 In case of a natural person or firm/institution/company which is already declared blacklisted and ineligible by the GoN, any other new or existing firm/institution/company owned partially or fully by such Natural person or Owner or Board of director of blacklisted firm/institution/company; shall not be eligible bidder.
	3.6 Furthermore, Bidders shall be aware of the provisions of GCC 28.3 and GCC 72.3(j).
4. Eligible Bidders	4.1 A Bidder may be a natural person, private entity, or government - owned entity—subject to ITB 4.5—or any combination of them in the form of a Joint Venture (JV) under an existing agreement, or with the intent to constitute a legally-enforceable joint venture. In the case of a JV: (a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. Maximum number of JV shall be as specified **in the BDS**. The eligibility criteria requirement of the parties to the JV shall be as specified in Section III Evaluation and Eligibility Criteria, and (b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during Contract execution.
	4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of any country 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.
	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: (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. or (h) a Bidder that has a close business or family relationship with a professional staff of the Procuring Entity.
	4.4 A firm that is under a declaration of ineligibility by the GoN/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.
	4.5 Enterprises owned by Government shall be eligible only if they can establish that they are legally and financially autonomous and operate under commercial law, and that they are not a dependent agency of the GoN.
	4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.
	4.7 Firms shall be excluded in any of the cases, if (a) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Nepal prohibits any import of goods or Contracting of works or services from that country or any payments to persons or entities in that country. (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.
	4.8 The Bidder, including all parties constituting the Bidder, shall be ineligible to participate in the open competitive bidding process if it has already secured maximum number of construction contracts (in open competitive bidding) **as specified in BDS** and has not yet completed the work as stipulated in the respective contracts.
	4.9 For the purpose of ITB 4.8 above, the bidder shall declare that the bidder, and all parties constituting the Bidder have not already secured maximum number of construction contracts (in open competitive bidding in procurement of works) **as specified in BDS**. If the bidder, and all parties constituting the Bidder has participated in bidding processes of many public entities and during that period the maximum number of contracts have been attained as specified saturates due to issuance of letters of acceptance by a particular public entity, the bidder shall inform in writing to all other concerned public entities, where the bidder have participated in bidding process, within three days of issuance of last letter of acceptance that saturates the maximum number of contracts as specified.
5. Eligible Materials, Equipment and Services	5.1 The materials, equipment and services to be supplied under the Contract shall have their origin in any source countries as defined in **the BDS** and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.
	5.2 For purposes of ITB 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.
B. Contents of Bidding Documents	
6. Sections of Bidding Document	6.1 The Bidding Document consist of Parts I, II, and III, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8. PART I Bidding Procedures Section I Instructions to Bidders (ITB) Section II Bid Data Sheet (BDS) Section III Evaluation and Eligibility Criteria (EEC) Section IV Bidding Forms (BDF) PART II Requirements

	Section V Works Requirements (WRQ) Section VI Bill of Quantities (BOQ) PART III Conditions of Contract and Contract Forms 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 (IFB) issued by the Employer is not part of the Bidding Document.
	6.3 The Employer is not responsible for the completeness of the Bidding Document and their Addenda, if they were not obtained directly from the source stated by the Employer in the Invitation for Bids.
	6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document and to furnish with its bid all information and documentation as is required by the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.
7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting	7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer's address indicated **in 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 addendum or several addenda.
	8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
	8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB 19.2. However, the time available to submit bids shall not be less than five (5) days since amendment in bidding document.
C. Preparation of Bids	
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10. Language of Bid	10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the language specified **in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified **in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.
11. Documents Comprising the Bid	11.1 The Bid shall comprise the following: (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; (g) Table of Price Adjustment (if applicable); and (h) any other required documents required, in the **BDS**.
	11.2 The Bidder is solely responsible for the authenticity of the submitted documents.
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	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.
	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). 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.
	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 may result in rejection of the Bid.
	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.
	13.5 If so indicated in ITB 1.1 and ITB 29.4, bids are invited for individual Contracts or for any combination of Contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 13.4, provided the bids for all Contracts are submitted and opened at the same time.
	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.
	13.7All 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.
14. Currency of Bid and Payment	14.1 The currency of the bid and payment shall be in Nepalese Rupees.
15. Period of Validity of Bids	15.1 Bids shall remain valid for the period specified **in the BDS.** The bid validity period shall start from the bid submission deadline as prescribed by the Employer in accordance with ITB 19.1. If the prescribed bid submission deadline date falls on a government holiday, then the next working day shall be considered as the bid submission deadline date. In such case the validity period of the bids shall be considered from the original bid submission deadline date. In the case of electronic bid submission, if any technical issue arises in the handling of the e-GP system, the PPMO may extend the deadline for bid submission. However, the validity period of the bids shall still be counted from the original bid submission deadline. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.
	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.
16. Bid Security	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.
	16.2 The bid security shall be, at the Bidder's option, in any of the following forms: (a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law or; (b) a cash deposit voucher in the Employer's Account as specified **in BDS**. In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV (Bidding Forms) or in another Form acceptable to the employer. The form must include the complete name of the Bidder. The bid security shall be valid for minimum thirty (30) days beyond the original validity period of the bid, or

	beyond any period of extension if requested under ITB 15.2. A bid security valid for a shorter period shall be rejected by the Employer as nonresponsive.
	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.
	16.4 The public entity shall return the bid securities except those that are to be forfeited as per ITB 16.5 to the respective bidders within three (3) days after the successful bidder has furnished the required performance security and signed the Contract Agreement pursuant, to ITB 34.1 and ITB 35.1.
	16.5 The bid security shall be forfeited if: (a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 15.2: (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 ITB 24.1; (c) a Bidder involves in fraud and corruption pursuant to ITB 3.1; (d) the successful Bidder fails to: (i) furnish a performance security in accordance with ITB 29.5, ITB 29.8 and ITB 34.1; or (ii) sign the Contract in accordance with ITB 35.1 or (iii) accept the correction of arithmetical errors pursuant to ITB 28.1; (e) if the bidder fails to inform about the saturation of the maximum number of contracts as per ITB 4.9.
	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.
17. Format and Signing of Bid	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),
	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 typed or printed below the signature. All pages of the bid, except for un amended printed literature, shall be signed or initialed by the person signing the bid.
	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.
D. Submission and Opening of Bids	
18. Sealing and Marking of Bids	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: (a) Bidders submitting bids by mail, by hand or by courier 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. ii. The inner and outer envelopes shall: (aa) bear the name and address of the Bidder; (bb) be addressed to the Employer as provided **in BDS**19.1; (cc)bear the specific identification of this bidding process indicated **in BDS** 1.1; and (dd) bear a warning not to open before the time and date for bid opening. 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. (b) Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified **in BDS**.
19. Deadline for Submission of Bids	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.
	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.
20. Late Bids	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.
21. Withdrawal, and	21.1 A Bidder may withdraw, or modify its bid after it has been submitted

Modification of Bids	either in hard copy or by e-submission. Procedures for withdrawal or modification of submitted bids are as follows: (i) Bids submitted in hard Copy 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: (aa) prepared and submitted in accordance with ITB 17 and ITB 18, and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL", "MODIFICATION;" and (bb) received by the Employer twenty-four hour prior to the deadline prescribed for submission of bids, in accordance with ITB 19. ii) E-submitted bids. a) Bidder may submit modification or withdrawal prior to the deadline prescribed for submission of bids through e-GP system by using the forms and instructions provided by the system.
	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.
	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. 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.
	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.
	21.6 The following provisions apply for withdrawal or modification of the Bids: (i) In case of bids submitted in hard copy no bid shall be withdrawn or modified in the interval between 24 hours prior to the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof. (ii) In case of e-submitted bids no bids shall be withdrawn or modified in the interval between deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.
	21.7 Once a Bid is withdrawn, bidder will not be able to submit another bid for the same bid.
22. Bid Opening	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.
	22.2 The Employer shall download the e-submitted bid files. The e-GP 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.
	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.
	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 out at bid opening. Only envelopes that are opened and read out at bid opening shall be considered further.
	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.
	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.
E. Evaluation and Comparison of Bids	
23. Confidentiality	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.
	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.
	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.
24. Clarification of Bids	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.
	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 shall be rejected.
25. Deviations, Reservations, and Omissions	25.1 During the evaluation of bids, the following definitions apply: (a) "Deviation" is a departure from the requirements specified in the Bidding Document; (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.
26. Determination of Responsiveness	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.
	26.2 A substantially responsive bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, (a) if accepted, would: (i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or (ii) limit in any substantial way, inconsistent with the Bidding Document, the Employer's rights or the Bidder's obligations under the proposed Contract; or (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.
	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.
	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.
27. Nonconformities, Errors, and Omissions	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.
	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.
	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).
	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.
28. Correction of Arithmetical Errors	28.1 Provided that the bid is substantially responsive, the Employer shall correct arithmetical errors on the following basis: (a) only for unit price Contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected; (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and (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. (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.
	28.2 If a Bidder does not accept the correction of arithmetical errors, its bid shall be disqualified and its bid security shall be forfeited.
29. Evaluation of Bids	29.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.

	29.2 To evaluate a bid, the Employer shall consider the following: (a) the bid price, excluding Value Added Tax and Provisional Sums in the Summary Bill of Quantities, for Unit Rate Contracts, or Schedule of Prices for lump sum Contracts, but including Day work items, where priced competitively; (b) adjustment for correction of arithmetic errors in accordance with ITB 28.1; (c) 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); If the evaluated Bid Price of the Bidder is more than 30 (thirty) percent below or substantially higher than the cost estimate, the Employer shall reject the Bid as non-responsive.
	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.
	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).
	29.5 If the bid for a Unit Rate Contract, evaluated as per ITB 30.1, is front-loaded or has quoted abnormally high rate for any item believing that the item was underestimated, the Employer **shall** require the Bidder to provide clarification along with detailed rate analysis, for any or all items of the Bill of Quantities as per ITB 24.1. The rate analysis submitted shall be analyzed and compared against prevailing norms and rates, on the basis of the work execution methodology, technology, and management methods specified by the bidder. If the clarification is deemed unsatisfactory, the Employer shall require that the amount of the performance security be increased at the expense of the Bidder as **specified in BDS**.
	29.6 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 24.1, the bid shall not be considered for further evaluation.
	29.7 If all the Bids evaluated are substantially higher than the cost estimate, the employer may negotiate with the bidder who submitted the lowest evaluated substantially responsive Bid to propose a lump sum discount rate in order to bring the bid price within the approved cost estimate. However, no change in the substance of the bid is permitted during the negotiations.
	29.8 If no agreement can be reached as per ITB 29.7, the employer shall cancel the procurement proceedings.
30. Comparison of	30.1 The Employer shall compare all substantially responsive bids in accordance

Bids	with ITB 29.2. The Employer shall determine the Average Bid Price of all the substantially responsive Bids. The Bid Price which is closest to the Average Bid Price AND is not substantially higher than the cost estimate shall be selected for awarding the contract. In case two or more Bid Prices are determined to be equally closest to the Average Bid Price, the Bid Price which is below the Average Bid Price shall be selected for awarding the contract.
	30.2 While evaluating the Bid Price as per ITB 30.1, if the Bid Price of two or more Bidders is found to be equal, the Employer shall select the bid for awarding the contract by drawing of lots in presence of Bidders' designated representatives who choose to attend in date, time and place as notified by the Employer in writing to the concerned bidders. The Bidders' representatives who are present shall be requested to sign a record evidencing their attendance. The omission of a Bidder's signature on the record or the absence of a Bidder during the drawing of lots shall not invalidate the contents and the effect of the record. The method of drawing of lots shall be determined by the Employer.
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.
	31.2 The public entity shall give notice of the rejection of bids or the cancellation of the procurement proceedings pursuant to ITB 31.1, along with the reasons for such rejection or cancellation, to all bidders participating in the bid**.**
	31.3 Where any bidder requests, within thirty (30) days of the communication of the notice pursuant to ITB 31.2, the grounds for the rejection of all bids or the cancellation of the procurement proceedings, the public entity shall provide such information to that bidder**.**
F. Award of Contract	
32. Award Criteria	32.1 The Employer shall award the Contract to the Bidder whose Bid Price is selected as per ITB 29.7, ITB 30.1 or ITB 30.2 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 After issuance of the notice under ITB 33.1 if the concerned bidder provides information pursuant to ITB 4.9 regarding saturation of maximum number of contracts, the employer shall disqualify the bidder and shall select the next Bidder whose Bid Price is closest to the previously

	determined Average Bid Price in accordance with ITB 32.1 and notify accordingly as per ITB 33.1.
	33.3 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.
	33.4 After communicating letter of acceptance under ITB 33.3, if the concerned bidder provides information pursuant to ITB 4.9 regarding saturation of maximum number of contracts, the employer shall reject the bid of that bidder and shall select the next Bidder whose Bid Price is closest to the previously determined Average Bid Price in accordance with ITB 32.1 and shall issue the notice accordingly as per ITB 33.1. In such case bid security of the rejected bidder shall not be forfeited.
34. Performance Security	34.1 Within Fifteen (15) days of the receipt of Letter of Acceptance from the Employer, the successful Bidder shall furnish the performance security in an amount equal to 5 (five) percent of the Bid Price from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in accordance with the conditions of Contract using Sample Form for the Performance Security included in Section IX (Contract Forms), or another form acceptable to the Employer. The Bid Price shall be without VAT but including Provisional Sum.
	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 the award and forfeiture of the bid security. In that event the Employer may award the Contract to the next Bidder whose Bid Price is closest to the previously determined Average Bid Price in accordance with ITB 32.1 whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily. The process shall be repeated according to ITB 33.
35. Signing of Contract	35.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 34.1.
	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.

	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.
	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.
36. Complaint and Review	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.
	36.2 Late application filed after the deadline pursuant to ITB 36.1 shall not be processed.
	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: (a) whether to suspend the procurement proceeding and indicate the procedure to be adopted for further proceedings; or (b) to reject the application. The decision of the chief of Public Entity shall be final.

SECTION - II
Bid Data Sheet

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

A. General	
ITB 1.1	The number of the Invitation for Bids is : **01/RIDONAW/083-084**
ITB 1.1	The Employer is: **Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.)**
ITB 1.1	**Multiple Contract or lots (contracts) is *Not applicable.***
ITB 2.1	The name of the Project is: **Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m)** The implementing agency is: **Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.)**
ITB 4.1 (a)	Maximum number of partner in a joint venture shall be : ***3 (three)***
ITB 4.2	For GoN funded: Eligible countries: ***Nepal*** For DP funded: Eligible countries: *NA*
ITB 4.4	For GoN: ***www.ppmo.gov.np*** For DP: ***NA***
ITB 4.8 & ITB 4.9	For GoN Funded: The Bidder, including all parties constituting the Bidder, shall be ineligible to participate in the open competitive bidding process if it has already secured **five (5)** construction contracts (in open competitive bidding) and has not yet completed the work as stipulated in the respective contracts. Following Procurement of Works contracts shall not be counted for this purpose: a) The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D) b) The works for which tender have been invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR. c) The works for which tenders were invited or contracts accepted under all types of foreign assistance.
ITB 5.1	For GoN funded: For the purpose of Country of Origin: "all Countries" For DP funded: NA
B. Bidding Document	
ITB 7.1	For clarification purposes only, the Employer's address is: Attention: Office Chief,

	Address: Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.) Telephone: 9857081402 Electronic mail address: ridonawalparasi@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: October 13, 2026, 13:00 PM Place: Office Premise A site visit ***shall not be*** organized by the Employer.
ITB 7.5	Time for request: Requests for clarification should be received by the Employer no later than 10 days prior to the deadline for submission of bids.
C. Preparation of Bids	
ITB 10.1	The language of the bid is: English / Nepali
ITB 11.1 (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 (h)	The Bidder shall submit with its bid the following additional documents: **Experience Certificate of at least one Trail Bridge in Pile Foundation within the last 10 years.**
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 in Nepal with a minimum of **NRs *2,01,000.00*** which shall be valid for 30 days beyond the validity period of the bid or up to **25 January, 2027**.
ITB 16.2 (b)	Account Name: Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.) Bank Name: Rastriya Banijya Bank Ltd. Bank Address: Parasi Branch Account Number: 3100100202030000 Office Code : 3370147015
ITB 17.1	In addition to the original of the bid, the number of copy/ies is/are: ***Not Applicable.***
ITB 17.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate: (a) The name and description of the documentation required to demonstrate the authority of the signatory to sign the Bid such as a Power of Attorney; and (b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is

<table>
<tr><td></td><td>awarded the Contract, during contract execution.</td></tr>
<tr><td colspan="2">D. Submission and Opening of Bids</td></tr>
<tr><td>ITB 18.1</td><td>Bidders shall have the option of submitting their bids by hand / by courier.</td></tr>
<tr><td>ITB 18.1 (b)</td><td>The required forms and documents shall be part of bid.
<table>
<tr><th>No.</th><th>Document</th><th>Requirement</th><th>Remarks</th></tr>
<tr><td>1.</td><td>Letter of Bid</td><td>Mandatory</td><td>duly signed</td></tr>
<tr><td>2.</td><td>Bid Security / Bank Guarantee</td><td>Mandatory</td><td></td></tr>
<tr><td>3.</td><td>Firm or Company registration Certificate</td><td>Mandatory</td><td></td></tr>
<tr><td>4.</td><td>VAT and PAN registration Certificate</td><td>Mandatory (for domestic bidders only)</td><td></td></tr>
<tr><td>5.</td><td>Business Registration Licence</td><td>Mandatory</td><td></td></tr>
<tr><td>6.</td><td>Tax Clearance Certificate / Tax return submission evidence / evidence of time extension</td><td>Mandatory (for domestic bidders only)</td><td></td></tr>
<tr><td>7.</td><td>Power of Attorney of Bid signatory</td><td>Mandatory</td><td>duly signed</td></tr>
<tr><td>8.</td><td>Joint venture agreement</td><td>Mandatory in case of JV Bids Only</td><td>duly signed</td></tr>
<tr><td>9.</td><td>Completed Bill of Quantities (BoQ)</td><td>Mandatory</td><td>Filled and duly signed</td></tr>
<tr><td>10.</td><td>Price Adjustment Table (if Applicable)</td><td>Not Applicable</td><td></td></tr>
<tr><td>11.</td><td>Additional documents specified in ITB 11.2 (h)</td><td>Mandatory</td><td></td></tr>
</table>
<u>Note:</u>
a) The documents specified as “Mandatory” should be included in submission and non-submission of the documents shall be considered as non-responsive bid.</td></tr>
<tr><td>ITB 19.1</td><td><u>For bid submission purposes only, the Employer’s address is :</u>
Attention: The Office Chief
Address: Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.)
The deadline for bid submission is:
Date: 27th October, 2026
Time: 12:00 Hrs</td></tr>
<tr><td>ITB 22.1</td><td>The bid opening shall take place at :
Address: The Office Premise, RIDO
Date: 27th October, 2026
Time: 13:30 Hrs</td></tr>
</table>

E. Evaluation and Comparison of Bids	
ITB 29.4	Bidders are ***not permitted*** to quote separate prices for lots (Contracts), and a single Bidder will be awarded multiple lots (Contracts) based on provision of ***Paragraph 1.1, Multiple Contracts Section III (Evaluation and Eligibility Criteria): Not Applicable.***
ITB 29.5	The amount of the performance security be increased by Eight (8) percent of the quoted bid price (without VAT but Including PS).

SECTION - III

Evaluation and 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 Multiple Contracts

Pursuant to Sub-Clause ITB 29.4 of the Instructions to Bidders, if Works are grouped in multiple contracts, evaluation will be as follows:

Works are grouped in multiple contracts and pursuant to Sub-Clause 29.4 of the Instructions to Bidders, the Employer will evaluate and compare Bids on the basis of a contract, or a combination of contracts, or as a total of contracts in order to arrive at the least cost combination for the Employer by taking into account discounts offered by Bidders in case of award of multiple contracts.

1.2 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:

2. Eligibility

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.1 Conflict of Interest					
No conflicts of interest in accordance with ITB Sub-Clause 4.3.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid
2.2 Government/DP Eligibility					
Not having been declared ineligible by government/DP, as described in ITB Sub-Clause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Bid
2.3 Government-owned Entity					
Bidder required to meet conditions of ITB Sub-Clause 4.5.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid, 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.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid
2.5 Bidder's Running Contracts					
Bidder's have not yet secured five (5) number of construction contracts[2](in open competitive bidding) as described in ITB Sub-Clause 4.8.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid, Form ELI-3
2.6 Other Eligibility					
Firm or Company Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Business Registration License	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
VAT and PAN Registration certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Tax clearances certificate for the **F/Y 081/082** or Tax return submission evidence or evidence of tax time extension for.	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Additional requirements ***Experience Certificate of At least one Trail Bridge in Pile Foundation within the last 10 years***	must meet requirement	not applicable	not applicable	must meet requirement	Document attachment

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: ***Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.)***

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: ***Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m)***

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

Total price is:

(d) The discounts offered and the methodology for their application for subject contract are:……..

(e) Our bid shall be valid for a period of 90 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*]*; *

(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 yet secured five (5) number of constructions contracts[3] (in open competitive bidding) as described in ITB Sub-Clause 4.9.

(o) We understand that you are not bound to accept the bid closest to the Average Bid Price or any other bid that you may receive; and

(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.

(r) We declare that we are solely responsible for the authenticity of the documents submitted by us. The document and information submitted by us are true and correct. If any document/information given is found to be concealed at a later date, we shall accept any legal actions by the Employer.

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

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

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

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

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

Table of Price Adjustment Data[4]

(NOT APPLICABLE)

[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.

[4] 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 Data[5]

Code	Construction Material*	Unit	Base Price (NRs/Unit) (Ex-factory)	Source (Factory)**
1	**2**	**3**	**4**	**5**
A	Cement	Bag		
B	Reinforcement (all sizes)	Kg		
C	Bitumen	Kg		
D	Diesel	Ltr		

* 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 and5.

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.

[5] 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: ..... ***[Insert name and address of Employer]*** …….

Date: ……...

Bid Security No.: .....

We have been informed that . ……. ***.[insert name of the Bidder]*** (hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid") to you for the execution of ……... ***[Insert name of Contract .*** …… under Invitation for Bids No. ……***[insert IFB No.]*** ("the IFB").

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

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

(a) has withdrawn or modifies its Bid:

(i) during the period of bid validity specified by the Bidder on the Letter 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; or

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

(e) a Bidder changes the prices or substance of the bid while providing information pursuant to ITB 24.1; or

(f) if the bidder fails to inform about the saturation of the maximum number of contracts as per ITB 4.9.

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 letter than the above date.

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

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

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

Note:

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

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.	
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.	
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 Procurement of Works contracts shall not be counted for this purpose

a) The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D).

b) The works for which tender have been invited and contracts accepted 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR.

c) The works for which tenders were invited or contracts accepted under all types of foreign assistance.

Part – II

REQUIREMENTS

SECTION - V

Works Requirements

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

Terms of Reference (ToR)

1. OBJECTIVE

The Employer intends to implement and supervise the execution of fabrication, transportation, construction and erection of LSTB bridges on main trails and strategic crossings. The work is intended to be procured by utilizing the services of private eligible Contractors with support of Fabricators.

2. SCOPE OF WORK

2.1 General

The Contractor / Fabricator shall perform the above mentioned and herein described job professionally with accepted level of accuracy, existing engineering practice, and sound judgment based on experience and professional ethics.

2.2 Fabrication of Steel Parts

It consists of followings:

- Prior approval from the site in-charge before the Fabrication
- Procurement of raw materials as per specification for fabricating steel parts,
- Procurement of fixtures, i.e. nuts & bolts, thimbles etc. according to the specifications;
- Provide samples of raw material to the Employer for lab testing
- Fabrication of steel parts according to specification and drawings;
- Galvanization of fabricated steel parts according to the specification;
- Galvanization of steel parts (refer to specification for galvanization) is permitted only at the plants, which have complete process and setup (enlisted by Trail Bridge Section, DoLI);
- Transportation of fabricated bridge parts from workshop to galvanization plant and back to workshop or to the specified point of delivery;

2.2.1 Quality Management and Quality Assurance

* Maintain in- built quality management quality assurance system with necessary equipment/tools and measuring instruments. This system should cover from quality of raw material up to galvanization and the final product;

* Continuous supervision and quality management during fabrication and galvanization according to the specification for steel works by a competent personnel;

* Maintain quality assurance documentation as per given format in Annex C: Quality Assurance Document;

* Arrange inspection of completed bridge parts by Authorized Inspecting Engineer appointed by the Employer.

2.3 Construction

2.3.1 Transportation and Construction

* Construction (or acquiring by hiring it) of the camp, its operation & maintenance;

* **Layout of bridge:**

The contractor should review and verify the design drawings provided by RIDO, Nawalparasi (Ba.Su.Pa.) during layout. In case there is any deviations/non conformities of General Arrangement and Construction Drawings with existing ground profile, the contractor should promptly inform RIDO, Nawalparasi (Ba.Su.Pa.) in written before carrying out further construction operations. Any discrepancies not reported to RIDO before start of construction work and found during construction stage which affects the quality of the bridge shall be the liability of the contractor.

* Transportation of bridge parts, and procurement and transportation of materials such as cement, gabion etc. up to bridge construction site;
* Collection of materials such as sand, gravel, boulders etc.;
* Acquire wire rope from the Employer and blasting materials and transport to sites;
* Civil construction works of anchorage blocks and bridge foundations, protection work, consisting of concrete, masonry, retaining wall (gabion crates/ block stone masonry),etc.;
* Mechanical works such as tower erection, cable hoisting, walkway and fitting of other parts, wind guy arrangements;
* Finishing works such as, rust prevention by putting coal tar on saddles, cables near saddles, and all non-galvanised threads, and environmental restoration of the construction scar by sowing grass, turfing, afforestation, construction of wicker work fences etc.
* Continuous supervision and quality management during transportation, construction and bridge erection according to the specification for these works by a competent personnel (see below 2.3.2);
* Arrange inspection at pre-defined critical stages of construction and bridge erection with transportation facilities (1.Bridge Layout & Foundation Excavation, 2. Masonry / Concrete Works and placing of Anchorage Parts, 3.Tower Erection, cable hoisting, 4.Final Check) by Authorized Inspecting Engineer appointed by the Employer.

2.3.2 Supervision and Quality Assurance

* Employ and manage all necessary staff for continuous site supervision; Supervising staff should be at least civil overseer with required qualification;
* Layout of bridge (within 7 days after receiving work order from the Employer);
* Supervise all civil construction work including quality control according to technical specification;
* Supervise all mechanical/erection and finishing works including its quality control / assurance;
* Inspect all material and workmanship including testing of materials, wherever necessary, by an engineer;

* Provide test certificates of steel sections intended to use for fabrication, G.I. Wire for wire mesh, gabion works and cement;

* Maintain quality assurance documentation strictly as per given format and instructions as per Annex C: Quality Assurance Document.

2.4 Reports

Following reports for different phases have to be submitted to the Employer by the Contractor/Fabricator, besides those already specified and provided with standard formats. They shall be concise and transparent with photographic evidence of the completed quality work.

2.4.1Fabrication

a) Procurement and stock of raw materials for fabricating bridge parts;

b) Test Certificates of raw materials (steel sections, zinc purity), fixtures (nuts/bolts, bulldog grip sets)

c) Progress in fabrication of bridge parts (i.e. anchorage parts, tower parts, walkway and steel deck);

d) Progress in galvanizations of fabricated bridge parts;

e) Completion of fabrication and galvanizations work, inspection of the completed works by the Authorized Inspecting Engineer appointed by the Employer;

f) A final report detailing the experience of the Firm during this phase including problems encountered in liaison with the Employer (its critical review).

2.4.2 Construction

a) General impressions of the bridge location/site, its surrounding environment, and others, including problems encountered;

b) Technical aspects and problems encountered during layout and a statement of whether the survey and design components of the bridge fits with real site conditions;

c) Progress of works **(i.e., 1.Transportation of materials, 2.Bridge Layout & Foundation Excavation, 2.Masonry/Concrete Works and Placing of Anchorage Parts, 3.Tower Erection, Cable hoisting, 4. Hoisting of Wind guy Arrangements etc.);**

d) Completion of construction and bridge erection works, inspection at different stages of the completed works by the Authorized Inspecting Engineer appointed by the Employer;

e) A final report detailing the experience of the Contractor/Fabricator including problems encountered in liaison with the Employer (critical review).

All above mentioned reports are to be submitted in a monthly basis.

2.5 Communication

a) The reports shall be sent to the Employer either by:
   - Firm's staff travelling from site to RIDO, Nawalparasi (Ba.Su.Pa.)
   - Employer's staff on inspection tours
   - By registered mail or fax

b) Notice or report will be deemed to be effective as follows:
   - In case of personal delivery and registered mail, on their delivery
   - In case of fax, 24 hours following confirmed transmission

c) The quality control is inherently associated with Employer's Engineer (authorized Inspecting Engineer appointed by the Employer). Communication plays a vital role in systematic execution and timely completion of work.
   - Copies of monthly report has to be provided to Employer's Engineer
   - Employer's Engineer has to forward with timely comments any communications to the Employer's office.
   - Key supervisions, timely checks and approvals shall be duly communicated.
   - The whole communication framework shall be according to the Quality Control/Assurance Manual.

3. SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER

The Employer provides free of cost one copy each of the following documents and materials:

a) Fabrication Drawings
   - 1 set of steel drawings
   - 1 set of Schedule of Works (SoW)

b) Construction Drawings
   - 1 set Construction Drawings including General Arrangement
   - 1 set of Schedule of Works (SoW)
   - 1 set Site Instruction Book
   - 1 set Site Inspection and Work Completion Certificate (only for reference)

Set of standard formats for reporting

Scope of Work

Fabrication, Supply, Transportation, Construction and Erection of 84.2m Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur)

Specifications

Technical Specification (TS)

200 MATERIALS

210 Wire Ropes

Wire Ropes will be provided by the Employer form its store. As the wire ropes are procured centrally, the specification and manufacturer's quality assurance has already been verified. The concerned contractor/fabricator, however, shall verify the correct dimension in diameter, length, properly cut ends, and avoid the kinks while receiving the cable from the said store according to the approved check list.

220 Blasting Materials

As these materials are sensible, destructive, and requires special care under security and expert supervision during handling, storing and its use. They are procured under expert guidance and stored in Military facilities, wherever possible, their specification as per the requirement has been earlier verified and should not be of great concern to the Contractor. Its handling shall be strictly under the GoN law and regulations.

300 STEEL WORK

Bid and actual fabrication of the bridge parts shall be based on the "Terms of Steel works" given below in addition to relevant ISI Codes. In case of discrepancies between the two, the "Terms of Steelworks" shall prevail.

Safety and health provisions shall be made according to IS: 818-1968, and shall entirely be the Contractor/ Fabricator's responsibility.

The following "Terms of steel works" has to be strictly followed while performing the steel parts fabrication work.

a) Straightening

All materials shall be straight and if necessary, before being worked shall be straightened and/or flattened by pressure, unless required to be of curvilinear form and shall be free from twists.

b) Cutting

Cutting may be affected by shearing, cropping or sawing. Gas cutting by mechanically controlled torch is permitted for mild steel only. Gas cutting of high tensile steel is also permitted provided special care is taken to leave sufficient metal to be removed by machining so that all metal that has been hardened by flame is removed. No loads shall be transmitted into metal (except welded joints) through a gas cut surface.

c) Holing and Punching

Holes for bolts or pins shall be drilled (not to be formed by gas cutting). Punching may be permitted for materials with thickness < 14mm, provided the holes are punched 3 mm less in diameter than the required size and reamed after punching to the full diameter. When holes are drilled or punched in one operation through two or more separable parts, these

parts shall be separated after drilling or punching and the burrs removed. To obtain uniformity the use of templates and jigs is mandatory for holing.

d) Assembly

The component parts shall be assembled in such a manner that they are neither twisted nor otherwise damaged and shall be so prepared that the specified cambers, if any, are provided.

e) Bolting

Where necessary washers shall be tapered or otherwise suitably shaped to give the heads of nuts and bolts a satisfactory bearing. The threaded portion of each bolt shall project through the nut at least two threads. In all cases where the full bearing areas of the bolt is to be developed, the bolt shall be provided with a washer of sufficient thickness under the nut to avoid any threaded portion of the bolt being within the thickness of the parts bolted together. Threading of rods and holes shall be done by machines.

f) Welding

Welding shall be in accordance with any of the following standards as appropriate, and shall be conducted by appropriately qualified welders:

IS: 816-1989	:	Code of practice for use of metal arc welding for general construction in mild steel.
IS: 823-1964 &	:	Code of practice for use of welding in bridges and structures
IS: 1024-1979	:	subject to dynamic loading.

If there are any new editions of Indian Standard those should be used as references. The use of templates and jigs is mandatory for welding of assembly. Following special requirement in conjunction with galvanization has to be made. Sections should have corners cropped to allow free flow of zinc during galvanization.

Avoid narrow gaps between plates. Overlapping surfaces and back to back angles and channels should be avoided. Where small areas are unavoidable edges should be sealed by a continuous pore free weld to prevent penetration of pickle acids.

g) LSTB (SBD) Standard Designs

The LSTB Standard Design and Drawings are integral parts of these technical specifications. Details for the steel works can be found in the set of Standard Steel Drawings, which will be made available to the Contractor after the contract is signed / awarded.

h) Quality Requirements, Quality Control and Quality Assurance (Guarantee)

The quality control of the raw materials acquired, fabrication process, and that of readymade product is the responsibility of the prime contractor/fabricator, who should

guarantee that all raw materials are of standard quality according to Indian Standards Institution and to the specifications given in the "Terms of Steel works" and fabrication of the bridge parts are correct according to LSTB Design and Drawings. The cost for all damages due to use of low quality materials has to be borne by the contractor/fabricator. At the time of delivery the parts and materials shall have to be free from any defects in material or workmanship in all respects and shall remain reasonably perfect till the end of maintenance period when a final check shall be carried out.

If any mistakes in the LSTB (SBD) Designs and Drawings are found by the workshop, The Employer's Technical Section has to be informed immediately in writing. The changes in steel profile have to be done only with written permission from the Employer in case of proven non-availability of certain profiles in the market.

The cost of other materials thus proposed and used will be fixed according to their respective weight and the lower among the bid price and official cost of the Employer.

i) Inspection, Tests and Final Check

The Contractor/Fabricator shall coordinate to provide access and other facilities for the inspection and, if required, tests of the works at any/or all stages during fabrication of the steel parts. Unless otherwise agreed this inspection should be carried out at the place of fabrication. The inspection shall be facilitated by a properly accredited person (quality control manager) available at the fabricator's floor during all working hours together with a complete set of drawings and any further instructions which may have been issued.
Following steel parts have to be in assembled form during such inspection: The parts shall be assembled after completion of the galvanization, on a flat, level and hard top place. Once dismantled, any damage to the galvanization of the steel parts has to be rectified before delivery.

- All anchorage parts
- Walkway deck with minimum of four cross-beams in assemblage
- Both towers, complete
- Wind guy stay strut
- Complete truss
- Clamps and turnbuckles

Such inspection shall be made prior to delivery and shall be conducted so as not to interfere unnecessarily with the operation of other work. Such inspections are supplementary and intended to clear the delivery only, and shall not be considered as a final acceptance.

The final check of all steel parts will be conducted along with the final check of the bridge and the discrepancies found during such final check have to be rectified by the Contractor/Fabricator at its own cost. On a default situation, such works shall be conducted by the Employer and the cost incurred for such works shall be made a liability in the Contractor/Fabricator's account (either from its retention money or from other payments and/or their property according to the prevailing rules and regulations).

All gauges and templates, measuring instruments etc. necessary to satisfy the inspector shall be supplied by the manufacturer. The inspector may at his discretion check the test results obtained at the manufacturers works by independent tests and should the material so tested be found to be unsatisfactory, the costs of such tests shall be borne by the manufacturer, and, if satisfactory, the costs shall be borne by the Employer. In any case the

quality assurance of Principal Manufacturer has to be made available by the Contractor/Fabricator, whenever required by the Employer.

j) Storing, handling and protection of steel parts (specially Threads)

All structural and reinforcement steel shall be stored and handled without subjecting them to excessive stresses and damage. The threaded parts including anchorage rods, clamps, suspenders etc. have to be protected with grease and jute immediately after completion.

k) Labeling, Packing and delivery

Each member (or set of members) has to be labeled clearly indicating both the drawing number and the part number corresponding to the steel-part list and the drawing number provided by the Employer, but only after galvanization.

Straight bars and plates shall be bundled. All bolts, nuts, washers and other small and loose parts shall be packed in cases or strong bags and labeled in order to prevent damage or distortion during transportation. The costs of packing and labeling shall be included in the bids. The Wire mesh netting has to be delivered in bundles. Each transport unit shall not exceed 45 kg in weight. For each delivery the workshop has to prepare a detailed list of the bridge parts to be delivered, containing the drawing numbers, part numbers, and description of parts, quantities and weights.

310 Supply and Fabrication of Steel Parts

311 Structural Steel

Structural steel supplied by the workshop shall comply with the requirements of IS: 226-1975, specification for Structural Steel (Standard Quality). The dimensions for hot rolled materials are specified in IS: 800-1984 & 808-1989 (General construction in steel). Steel grade shall be standard quality Fe 410, and should have following properties:

Yield stress ≥ 250 N/mm2

Tensile strength ≥500 N/mm2

Elongation ≥ 23%

Permissible tolerance of physical dimension = ± 2.5%

All structural steel sections to be used in fabrication shall be tested in presence of LIDPO, Hetauda. Officials and certificates of the same shall be submitted with assurance documents.

The requirement of test for structural steel shall be as follows:

S.N	Description	No of samples to be tested
1	MS Flat	3 Samples of each sections used in fabrication
2	MS Angle	
3	MS Rod	
4	MS Plate	
5	MS Channel	

312 Reinforcement Steel

Reinforcement steel supplied by the workshop shall be ribbed tor steel with high yield strength deformed bar of grade Fe 415 confirming to IS: 1786-1985. All reinforcement shall be clean and free from loose mill-scales, dust, loose rust and coats of paint, oil or other coatings which may destroy or reduce bond. All reinforcement steel shall be cold bent. Points for anchor rods shall be formed by grinding. Joining of reinforcement steel bars by welding is prohibited.

320 Supply of Thimbles

Thimbles supplied by the workshop shall conform to the standard specifications of Thimbles (IS: 2315-1978). The workshop is responsible that all thimbles can be fitted to the provided pins, steel parts etc. Thimbles should be hot dip galvanized with minimum zinc coat of 40μm.

330 Supply of Bulldog Grips

Bulldog grips supplied by the workshop shall confirm to the standard specifications of Bulldog grips (IS: 2361-1970). In addition it also should fulfill the following requirements:

The bridges must be drop-forged and suitably scored to grip a round strand rope of right hand lay having six strands. Bridge, U-bolts and nuts should be hot dip galvanized with minimum zinc coat of 40μm. The thread of U-bolt and nuts on it should withstand specific torque.

The bulldog grips should have minimum grip strength of :

13mm ≥ 2.7 tone, 26mm ≥ 6.6 tone, 32mm ≥ 8.3 tone,

36mm ≥ 9.0 tone, 40mm ≥ 9.7 tone,

Note: Thimbles, bulldog grips, nuts, bolts and washers have to be galvanized according to IS: 2629-1966, and Recommended practice for Hot-dip Galvanizing of Iron and Steel.

340 Miscellaneous Supply

341 Wire mesh Netting for LSTB Bridge

The wire used for fabrication of wire mesh netting shall be of 10 SWG (3.15 mm), conforming to IS: 280-1978, heavy coat galvanized according to IS: 4826-1979 (hot dip galvanized, minimum zinc coating of 270 gm/m2 and should pass uniformity of zinc coat and adherence test). In addition, G.I. wire should have tensile strength of 380-500N/mm2. The meshes shall be of chain link type, mesh size 60 x 60 mm. The width shall be 1.30 m for suspended bridge and 1.2 m for suspension bridge.

342 Sign Board

Only if necessary.

343 Bolts, Nuts & Washers

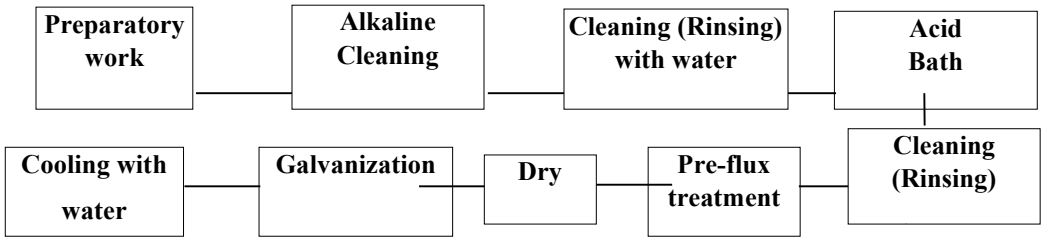
Bolts, nuts, & washers shall confirm the standard specification of bolts, screws, nuts & washers (IS: 1363-1984 for hexagon head bolts) / (IS: 1367-1979/1980 conditions for threaded fasteners) / (IS: 6610-1972 for heavy washers) / (IS: 5369-1975 for plane & lock washers) /(IS: 5372-1975 for taper washers). Bolts, nuts & washers shall be hot dip galvanized unless otherwise stated.

350 Hot Dip Galvanization of Steel Parts

Galvanizing of steel parts shall be executed in accordance with IS: 2629-1966 (Recommended Practice for Hot-Dip Galvanizing of Iron & Steel) and IS 4759-1984 (specification for hot-dip zinc coating on structural steel).

Galvanization Process

Galvanizing should follow the process as below:



Preparatory work

All welding slag should be removed from the steel parts to be galvanized. Acid traps should be avoided.

Alkaline cleaning

Rust, oil and other contaminants should be removed from the steel by preliminary treatment with Alkaline cleaning in Sodium Hydroxide Solution of 10 ~ 15%.

Concentration

The concentration of the solution should be monitored at regular intervals and adjusted accordingly to have good cleaning effect.

Rinsing

After Alkaline cleaning, steel should be flushed with running water.

Acid Bath

The preliminary treated steel is then cleaned by Acid Bath in Hydrochloric Acid Solution of 50% concentration.

During the operation, close control of acid content in the solution is necessary. It is done by testing for acid (PH value = 1 to 3, measured by PH meter) and iron contents at regular intervals. The strength of the solution should be maintained by periodic addition of fresh concentrated acid. If the iron content in the solution is more than 100g/liter (density measured by hydrometer, maximum permissible value = 1.2), it should be changed by the new fresh solution.

Rinsing

After Acid Bath steel should be flushed with running water.

Pre-flux treatment

Acid bathed steel is dipped in a solution of Zinc Ammonium Chloride (ZnCl23NH4Cl) of 20 ~ 40% concentration. This solution is prepared by mixing 45% of Zinc Chloride (Zncl2) + 55% of Ammonium Chloride (NH4Cl).

The concentration of solution should be controlled at regular intervals. For this specific gravity of the solution is maintained (Hydrometer reading in range of 1.1 to 1.15) by adding required quantities of pre-flux chemicals in proportions.

Dry

After pre-flux treatment, steel is dried for galvanization.

Galvanization

The treated steel is dipped into the molted Zinc (zinc bath). Temperature of the molted Zinc should be maintained within the range of 4500 C to 4700 C. Appropriate dipping time also should be maintained.

Cooling

After the hot dip, steel is cooled with water.

Quality Checking of Galvanization

Galvanizing Process

- Check the galvanizing plant and its set up to be ensured that all the galvanizing process is available and maintained.

Quality of Zinc

- This can be checked by chemical testing of raw zinc used for the galvanization. Zinc content should not be less than 98.5%.

Quality of galvanization

- By visual check the following:
- - Galvanized steel should be free from rust and black spots, acid traps, welding slags.
- - Galvanized coating should be free from ash, pimple and bulky deposition.
- - Galvanized coating should be continuous, smooth and evenly distributed as far as possible.
- Zinc coat should be adherent. This can be checked by hammering or scratching.
- No zinc paint or aluminum paint is applied to hide rust spots. This is very unhealthy practice, which frequently applied by the galvanizers.
- Zinc thickness can be measured by Deltascope (electromagnetic instrument for measuring coating thickness over ferrous material). In our case zinc coat should not be less than 80 μm in any steel parts.
- Treatment of Threads: Extra zinc on threads should be removed with a rotating wire brush immediately after galvanizing or with gas blow and cleaning with rotating brush if galvanization is already hardened. Re-threading of the galvanized parts is not permitted.

400 TRANSPORTATION

- It is wholly the responsibility of the Contractor to control transportation activities and quality/quantity of any materials procured or received from the Employer's stores, loading and off-loading of the same, and the delivery at designated site.

411 Materials and Equipment

- Materials, such as cement and steel parts should be transported with due attention so as not to incur any damage to them either due to exposure to excessive moisture or mishandling. The cement bags to be delivered at site should contain its full original weight viz. 50 kg. The Contractor shall entirely be responsible for the quality and quantity of materials received at the point of origin and their delivery at site in the same quantity and quality. No reasons whatsoever will be accepted for materials not reaching to site in proper condition and in required quantity. Loss during transportation, if any is entirely on the Contractor's account.

- Other materials and equipment shall be transported properly so as to minimize the loss or damage during transportation. Work being delayed because of equipment being damaged during transportation is Contractor's concern which has to be considered during bidding and shall not be considered a reason for time extension.

- In the case of blasting materials, the transportation, handling, storage and use of explosives shall be subject to the laws and regulations of the Government as well as to the instructions of the Employer's Engineer. The Contractor shall maintain an inventory record of storage and withdrawal of all explosives and such information shall be duly communicated to the Engineer. The Contractor shall provide such reasonable and adequate protective facilities as are necessary to prevent loss, theft or damage of explosives. The Engineer shall be informed promptly of any such loss. Security provision should be made accordingly at the Contractor's cost.

412 Wire Ropes and Bulldog Grips

- Wire Ropes and Bulldog Grips supplied from Employer's store shall be under direct responsibility of the Contractor till it is fitted in the bridge. The Contractor must transport them immediately to site with proper handling so that i) cable is not damaged, kinked, or the loose ends opened and ii) Bulldog Grips do not get damaged. It is the Contractors responsibility to check cutting, coiling, and the quantities of cable as well as the quantities of Bulldog grips received from Employer's store, their loading and unloading.

500 CONSTRUCTION

The construction works includes civil, mechanical, finishing works together with erection, running and maintenance of the camp.

510 Site Clearance

The areas to be occupied by the permanent works and any borrow areas shall be cleared of trees, stumps, roots, vegetation, structures and other obstructions to the extent required by the design. All materials thus removed during site clearance shall be the property of the Employer.

520 All Excavation

All excavation has to be carried out according to design, designed cut slope, designed provision of shuttering, and the safety has to be maintained. All excavation has been classified as follows.

521 Soil

It is when soil can be removed by shovels, picks or which include big stones of a size which require moving by hand.

522 Soft Rock

It is when bed rock can be removed by means of crowbars and picks without any blasting.

523 Hard Rock (by Quarrying out)

This includes quarrying by wedging.

524 Hard Rock (by Blasting)

The hard rock encountered in foundation excavation has to be removed by blasting it with industrial gelatin, detonator, and adequate length of fuse wire.

525 Excavation in Shallow Water

It is defined as excavation below the ground water level and includes all necessary measures for dewatering like water courses, ditches, rock pits but without provision and operation of pumps.

530 Foundation Excavation

Excavation for the permanent construction such as foundation blocks shall be made to the lines, grades and dimensions shown on the drawings. All necessary precautions (including control of blasting) shall be taken to preserve the material below and beyond the established lines of all excavation and also to the safety of workers and others.

When excavated to the required levels and dimensions, the surface has to be cleaned, prepared, and approved by the Engineer prior to the placing of concrete, masonry, or any other filling materials.

The classification of excavation are similar to the aforementioned and listed under following headings

531 Soil (ref. 521)

532 Soft Rock (ref. 522)

533 Hard Rock by Quarrying out (ref. 523)

534 Hard Rock by Blasting (ref. 524)

535 Hard Rock by Chiselling

Hard rock which cannot be removed by wedging and due to other constraints cannot be blasted, such surface has to be chiseled to acquire the required level and dimensions as per the design, i.e., for finishing the foundation surfaces.

536 Backfilling

Common material generally shall be used for backfilling behind civil structures and behind a filter bed of gravel fill as shall be shown in the drawing. Fill material shall be placed in position shown on the drawings and will be obtained from designated borrow areas, excavation on site or any other suitable area, as designated by the design and directed by the Engineer. Backfilling shall be of continuous compacted layers not exceeding 300 mm thickness. In case of retaining wall, proper filter materials for weep holes are to be provided in order to drain out water behind the wall.

All local material required for the construction of the work shall have to be obtained from borrow areas beyond a minimum haulage distance of 30 meters. The Contractor is responsible for any kind of river bank erosion which ultimately may endanger the stability of foundations, as a result of carelessness in collecting local material from such critical areas.

540 Construction of Gabion

a) Gabion Boxes

The gabion boxes shall be machine woven rectangular units made from double twist hexagonal mesh of heavy galvanized mild steel wire. All edges of the standard gabion including the diaphragms, if any, should be mechanically selvedge in such way as to prevent unraveling of the mesh and to develop the full strength of the mesh.

The wire used for manufacturing of the gabions shall be annealed mild steel complying with BS 1052:1990 or NS 169:2045 with an average strength of 380-500 N/mm2 and shall be galvanized before weaving as specified in BS 443:1982 of NS 163:2045.

The adhesion of the zinc coating shall be such that, when the wire is wrapped six turns around a mandrel of four times the diameter to the wire, it does not flake or crack to such an extent that any flakes of zinc can be removed by rubbing with the bare fingers. Further, the G.I. wire also should pass the uniformity test.

The combination of the mesh type and mesh wire diameter and ultimate failure load shall be as the table below:

Mesh type (cm X cm)	Mesh wire	Selvedge wire	Ultimate tensile strength (kN/m)
10 x 12	10 SWG	7 SWG	43.00

The tightness of the twisted joints should be such that a force of not less than 1.7 kN is required to pull one and separate it from other wire provided that each wire

is prevented from turning and the whole process is done in one plane. All the gabions of lengths more than 2.00 m should contain diaphragms spaced at a distance of not more than 1.00 m.

The fundamental technical specification of the gabion boxes of the required size should be as follows:

Box size	Mesh type (cm X cm) (hexagonal)	Mesh wire SWG	Selved ged wire SWG	Lacing wire SWG	Zinc coating (gm/m^2)	No. of diaphragms
2 x 1 x 1	10 x 12	10	7	12	275	1
3 x 1 x 1	10 x 12	10	7	12	275	2

b) Laying & Packing of Gabion Boxes

Layout of gabion work shall be as per design/site condition and as instructed by the Engineer. Gabion boxes shall be laid in staggered manner. Back slope of 10:1 (V:H) shall be maintained in gabion wall. Gabion mattress shall be embedded and flushed with the river bed level. Before the crates are packed, the selvedges of one crate shall be bound to the selvedges of another adjacent crate. When the crates are packed with boulders, the lids will be closed and the selvedges bound with binding wire. The packing shall be with hammer dressed sound boulders, placed individually by hand, bedded on all sides on each other and bonded tightly. No loose stones shall be inserted into the crate. Both ends of the gabion walls of river bank protection shall be keyed with the river bank.

550 Concrete Works

Concrete shall be composed of cement, sand, coarse aggregate and mixed with water as specified herein and shall be well mixed to an even consistency as required by this specification and/or as directed by the Engineer. No concrete shall be placed in any section of the works until the foundation for that section has been completely dewatered, suitably prepared, and has been approved by the Engineer.

The below given specifications of concrete components are for all type of concrete classification that are most commonly used in SBD works. They are:

Pos. No.	Description	Mark	Code
• 551	Plain Lean Concrete 1:4:8	M75	All items according to ISC-456:
• 552	Plain Mass Concrete 1:3:6	M100	
• 553	Reinforced Cement Concrete 1:2:4	M150	
• 554	Plum Concrete with 60% PMC and 40%		

	boulders		

In plum concrete, the minimum gap of 100 mm between the adjacent boulders should be fully maintained and that the boulders are not in contact with each other. And these gaps between the boulders are filled with concrete of designed mix and rammed adequately avoiding any voids. Each layer of boulders should be placed on 100 mm thick concrete mats.

Completed concrete structures should be sound without voids (honey combs), wall vertical to plumb and line and have overall finishing.

a) Cement

Ordinary Portland cement conforming to IS 269-1989, without any warps or any sign of air setting shall only be used for all works under this contract. Cement shall be transported and stored without exposing it directly to rain or excessive moisture and should be stacked on wooden platforms at least 5.0 cm above the ground. It shall not be stored for a long time, which might set the cement, reducing its strength. The Contractor shall build or maintain suitable store on site. A result of laboratory test may be required by the Employer.

b) Sand (conforming to IS 383:1970)

Collection

This item shall include quarrying, collecting, sieving, washing of sand, if required and haulage to site.

Quality requirement

Sand selected must be free from mica, loam, clay, mud and organic matter.

Washing

Contaminating impurities like clay, loam, mud, have to be washed. The quality of river sand shall have to be approved by the Engineer before the haulage.

c) Coarse Aggregate (conforming to IS 383:1970)

Collection

Gravel can be collected by breaking boulders into required size. Aggregate of unsuitable rock, such as mica, marl, and sand stone shall not be used. 100% of the coarsed aggregate shall comprise crushed aggregate.

Surface

Gravel with rough and triangular surface are preferred for good bondage. Flat and flaky particles are not to be used.

Purity

Gravel should be free from organic contaminants, deleterious substances like loam, clay, mud or stone dust and other organic matter.

Grading

Aggregate shall be well graded. The approximate % requirement of gravel size, may they be from river bed or broken shall be

5	-	10 mm	12.5 %
10	-	20 mm	25.0 %
20	-	40 mm	62.5 %

d) Stone

Quality requirement

All stones shall consist of unweather, hard, dense, durable, uncoated and sound rock fragments. The stones shall be thoroughly wetted by soaking in water immediately prior to placing.

Gabions and Rubble masonry shall be made of rock fragments which are reasonably rectangular in shape.

Dry stone masonry and block stone masonry shall be made of all side dressed blocks with facing side made smooth, either out of boulders or out of stratified rock.

Size

For masonry, the size of stone shall not exceed 3 times of its height, the breadth of stone at the base neither greater than three forth of the thickness of the wall nor less than 15 cm.

The smallest dimensions of the stone for gabion work shall be at least twice that of longer dimension of the mesh crate and the length of any stone shall not exceed three times thickness Stones for plumb concrete shall be rock fragments between 100 and 225 mm in size.

e) Water

Water for washing aggregates, mixing, and curing concrete shall be fresh and shall be free from objectionable quantities of silt, organic matter, alkalis, salts and other impurities.

f) Mixing and Placing

The proportions of cement, sand, coarse aggregate and water for the concrete mix of any classification shall be as given in the Table below. Measurement shall be in volume.

Material Required (m^3)	Concrete Grade			
	1:4:8 Plain lean M – 75	1:3:6 Plain mass M – 100	1:3:6 40% Boulder	1:2:4 Reinforced

Gravel - 10 mm(m^3)	0.11	0.11	0.07	0.11
Gravel - 20 mm (m^3)	0.23	0.23	0.14	0.22
Gravel - 40 mm (m^3)	0.55	0.55	0.33	0.52
Sand (m^3)	0.47	0.47	0.28	0.445
Boulders-225 mm(m^3)	-	-	0.50	-
Water (aprx.) (Lt)	150	150	100	200
Cement(Kg)	170	220	132	320

Concrete Grade		**Permissible Stress**		**N/cm2**
		1:3:6	**1:3:6 + 40% Boulder**	**1:2:4**
Stress in	bending	300	200	500
Compression	Direct	250	150	400
Stress in bond		40	20	60
Tension stress in bending		30	20	50

Slump test shall be carried out to confirm workability and water cement ratio. Slump should not exceed 80 mm.

Concrete shall not be dropped freely from a height of more than 1.5m. Concrete shall be placed in horizontal layers not exceeding 25cm and shall be consolidated immediately to its full depth and worked into corners and angles of forms, all around the reinforcement and embedded parts. Consolidation shall be achieved according to the requirement.

Concreting shall take place during favorable weather conditions. Working joints shall be thoroughly maintained so as to keep the required design bond and strength. The working joints be roughened, cleaned and wetted before further work commences.

Concrete shall be mixed on a cleanly prepared platform and transported from the mixing area to the area of placement as quickly as possible.

g) Curing and Protection

Concrete shall be cured by maintaining the surface wet (using suitable and approved method) for at least 7 days. Concrete shall be protected from direct rain

for 12 hours, from flowing water for 14 days. The contractor shall ensure that no structural and physical damage be inflicted on it.

h) Reinforcement and Steel Parts

The contractor shall assemble and fix the steel parts and the reinforcement (conforming to 312) as shown on the drawings. Reinforcement and steel parts stored in neat racks above the ground shall be cleaned of all loose rust, mill scale, dirt, grease, paint and other foreign substances and shall be maintained in a clean condition until embedded in concrete.

555 Formwork

Formwork shall be made from functional, straight and stout timber uniform enough to leave a smooth surface later on.

Formwork shall withstand the pressure resulting from the placement and vibration of the concrete, maintained rigidly in position, and shall be sufficiently tight to prevent the loss of mortar or the water content of the concrete. The Contractor shall ensure the safety and quality during the work. Form work shall only be removed after the minimum stripping times which shall be:

- Non load bearing members and side forms : 3 days
- Load bearing members up to 3m span : 10 days
- Load bearing members up to 6m span : 20 days
- Load bearing members above 6m span : 30 days

560 Masonry and Mortar Work

561 Dry Stone Masonry or Pitching

Stones must be laid with the largest possible areas of contact to provide sufficient friction. Special attention shall be given to bonding stones of which at least five should be inserted per cubic meter of masonry. Chips and sprawls of stones should be wedged into the work wherever necessary for its stability, but should be less than 10% by volume of the masonry. The base of walls shall be stones with large bearing areas to provide efficient load transfer to the ground. The top of the walls shall be covered with neatly dressed flag stones laid in such a way that they cannot be dislodged by animals or people climbing over them.

562 Cement Masonry (Incl. Pos. No. 563/64)

Cement mortar must be mixed on a clean surface in a ratio of one part of cement and four parts of sand (for Block stone and Rubble masonry 1:4) and one part of cement with six parts of sand (for Rubble masonry 1:6), by volume.

One cubic meter of masonry has to contain:

	1 : 4		**1 : 6**	
Cement	114 kg		75 kg	
Sand	0.42 m^3	(loose)	0.47 m^3	(loose)
Stones	1.1 m^3		1.1 m^3	(loose)

Face stones shall not be narrower or shorter than its height. Joints should not exceed 1cm in thickness. Stones shall be soaked in water prior to putting them in masonry. Stones shall not be less than 10cm in any direction, and should be carefully laid, hammered down into place with wooden mallets, and solidly bedded with mortar. Chips and sprawls shall be wedged in to avoid thick beds of joints and mortar. Exposed faces shall be flushing pointed and smooth. A proper bond shall be maintained with at least five bonding stones in a cubic meter of masonry. The whole structure shall be cured for 7 days.

Type of Masonry		**Permissible Stress N/cm²**							
		Rubble Masonry 1:6		**Rubble Masonry 1:4**		**Block Stone Masonry 1:4**			
						Stratified blocks		**Non-str. blocks**	
Slenderness ratio = h/d		0.5	2.0	0.5	2.0	0.5	2.0	0.5	2.0
Stress in Compression	Bending	130	70	190	110	210	130	370	200
	Direct	100	50	140	80	160	100	380	150
Tension stress in Bending		13	7	19	11	21	13	37	20
h=height of wall		d = thickness of wall							

565 Cement Plaster

Surface mortar shall be applied to concrete and masonry as indicated in the drawings. Before application of mortar, surfaces shall be without efflorescence, clean, scored and well wetted. Ordinary Portland cement shall be used. Suitable sand has to be transported from the nearest possible source, sheaved to get the correct granular composition, and approved by the Engineer. Surface mortar shall be moist cured and protected from damage for at least 7 days.

In general, cement plaster (rendering) is executed in three steps: Render coat, leveling coat and finishing coat. For structures with rough and absorbent surfaces, the render coat may not be required if so directed by the Engineer. The render coat consists of a 3-5 mm thick, rich mortar paste with 600 to 800 kg cement per m3 of finished mortar and with sand 0-8 mm (mortar 1:2.5). The surface shall remain rough to ensure a good bonding to the next coat. The leveling coat should be 10 to 15 mm thick and shall be applied only after shrinkage cracks have appeared in the render coat. Dosage: Cement 250-300 kg/m3, sand 0-6 mm (mortar 1:6). The finishing coat shall provide an aesthetic finish and shall be applied to the leveling coat as soon as possible. Thickness 2 to 5 mm. Dosage: Cement 500-600kg/m3, sand 0-3 mm (mortar 1:3). The average mortar shall contain in this case the cement to sand ratio of 1:4.

570 Erection and finishing work

571/2 Erection of Towers/Truss Bridge

The Contractor shall be fully responsible for all the necessary safety precautions including the proper temporary fixation of the towers (they are hinged) with the aid of cables anchored to specially designed anchorage blocks and the erection of the truss component of a steel truss bridge. The erection can be executed either with the aid of a bamboo scaffolding or with a suspended platform.

573/4 Cable Hoisting

This includes hoisting of all cables together with the placing and fixing of thimbles, bulldog grips and pre tensioning.

The Contractor shall hoist the cable across the river, over onto the top of towers, further to anchorage blocks strictly according to a accepted method. The work shall include the correct fitting of all cable terminals either with thimbles and bulldog grips or with sockets. The work shall also include the pre tensioning (proper setting of design sag) of main cables, wind guy/wind tie cables, spanning cables and side stay cables along with the adjustment of stabilizing cables, diagonal stabilizing cables, the correct fitting of handrail and fixation cables as indicated in the drawings. Safety of the workers, materials, and others should be of prime concern during this work, the responsibility for which entirely lies with the Contractor.

575 Erection of Walkway

The Contractor shall be fully responsible for all the necessary safety precautions during the erection of the walkway. The steel deck has to be properly fitted as specified in the drawings including suspender and cross beams. The wire mesh netting shall be folded around to the handrail cable fixed to the fixation cables and suspenders with binding wire of 12 SWG @ an interval of 30 cm.

All clamps, bulldog grips, nuts etc. shall be retightened upon the completion of the bridge.

Permitted Tolerance for towers after erection of the deck shall be as follows:

- Deviation from verticality : 0.20% of the tower height
- Deviation from straightness : 0.10% of the tower height

Permitted deviations from the hoisting sag specified in the drawings shall be:

- For suspension bridges : + 0.04% of the span
- For suspended bridges : + 0.02% of the span

576 Protection from soil and debris

All anchorages and foundations shall be cleaned of soil, mud and debris and all possible measures shall be taken to avoid steel parts, cable, etc. from being covered by soil, mud or debris.

580 Surrounding Works

As soon as practicable, after cutting of a permanent slope, backfilling or the forming of an embankment slope, the Contractor shall encourage the growth of a vegetation cover by turfing or grass showing, transplanting the slope with readymade turf properly cut from another area, and afforestation (planting of

trees and plants) as shown in the drawings or as directed by the Engineer. This work includes the care and protection of the plantations from any damage until the end of the period of maintenance. Additional slope and river bank protection works, such as, wicker work fences, brushwood work, and terracing may be required if indicated in the design.

590 Site Installation and Supervision

This item shall cover the entire erection or hiring of camp, its regular running and maintenance along with the technical supervision of the whole work package.

591 Site Installation and Site Supervision

592 Camp Construction and Hiring of Camp:

A proper camp site above high flood level and safe from bank erosion shall be established.

The Contractor has to arrange an adequate camp and the necessary equipment for him and his own staff, along with a simple provision of lodging for the visiting technicians of the Employer, at his own cost.

The camp provided for workers/labors shall fulfill minimum requirement for lodging with separate toilets for male and female and shall be according to type design provided by Employer, if any.

Camp area should be sufficient for store room for storing cement and steel parts. The rooms must be with waterproof roofing and compacted and moisture proof floor. No surface runoff or any other water should enter the cement store.

Land Rent /Compensation/ Acquisition:

The Contractor has to pay a negotiated land rent/compensation based on the crops lost during the use of land for construction to the land owner. Contractor shall pay them directly and its cost should be included within the camp item. In case of permanent structure occupying a piece of land the acquisition/ "Muwabja" shall be according to the existing GoN practices and rules/regulations. The implementation of procedure for the land acquisition shall be the responsibility of the Employer. Written permission of land owner or VDC with its cost has to be incorporated in the cost estimate. Employer's support is limited to make available such commitments only.

Supervision:

Supervision includes the supervision of fabrication of steel parts, transportation, construction and bridge erection by competent personnel. The entire supervision is the Contractor's responsibility.

The Contractor shall appoint suitably qualified and experienced in the field technician as site staff (min. level overseer) for the purpose of daily supervision of works in each concerned phase.

The site supervisor has to devote full time on the site for the entire project period whereas an engineer of the Contractor has to visit the site for key supervision from time to time and according to the necessity.

Site supervisor/ engineer has to skill fully perform layout, measurement, quality control, test of material, monitor the execution of works as per drawing/ specifications/ schedule, and report the progress in due time to the Employer.

The Contractor shall lay out the designed bridge at the construction site based on the existing survey pegs and reference points. After completion of general layout the Contractor shall set out all centering and levels and shall work the same with peg level. Pegs shall be provided close to each structure. The Contractor shall not commence any work until the setting out is complete and checked by the Engineer.

The Contractor shall assist any authorized inspector from the Employer who is inspecting the site. All necessary information and documents must be provided on request and full cooperation on all matters should be given promptly.

600 MISCELLANEOUS WORKS

(Applicable for maintenance works only)

610 Gabion Works

611 Dismantling of Gabion Boxes

The existing gabion crates shall be dismantled before any new work could be carried out. The lid of the crate shall be opened, stones properly removed and stacked for future use, if necessary. The crates themselves have to disintegrate from the good ones that are still functional. Useless boxes shall be dismantled according to the instruction by the Engineer.

620 Concrete and Masonry Work

621/2 Dismantling of Masonry/Concrete Structure

In maintenance work, some part of masonry or/ and concrete has to be dismantled and an entirely new structure or a partial addition of masonry or/ and concrete has to be made. Such cases require the dismantling of masonry and concrete structure. This dismantling could be difficult, and shall be performed very carefully so as not to disturb other remaining structures and shall be as designed or instructed by the Engineer.

630 Pre tensioning of Wire Ropes

The required pretension in any loose cable shall be achieved by pulling them, at first with the use of turnbuckles. If the required pretension cannot be achieved only by adjusting the turnbuckle, the cable end shall be pulled with the help of a cable pulling machine until the designed pretension is achieved, the cable ends properly secured on the corresponding anchorages. This has to be performed according to the Engineer's advice and consent regarding the process and method to be use for the retightening of any cable to required pretensioning.

640 Walkway Adjustments

641/2 Replacing/Adjustment of Suspenders

To replace the existing suspenders in order to install a new one, the clamps at the top cable and I or J bolt at the bottom shall be opened, the entire suspender properly

dismantled and a new one fitted exactly at the required place. While replacing or adjusting the suspenders the verticality of the suspender as well as the clear span between two suspenders shall be maintained.

643/4 Replacing/Adjustment of Cross Beams

The replacement and/or adjustment of the cross beam shall be done as defined by the design. Adjacent walkway elements of the beam which has to be replaced or adjusted shall be opened, the beam then shall be adjusted or replaced with a new one. The hook connecting the beam with the suspender shall be properly fitted so as to control the beam to beam distance, verticality of suspenders, and the alignment (parallel) of the beams themselves so that the standard pieces of the steel walkway deck fits in properly.

645/6 Dismantling/Refining of the Walkway

In case of maintenance of the walkway, or replacing the wooden walkway with a new steel deck the entire walkway shall be dismantled. Existing walkway planks, nailing strips, and the cross flats shall be dismantled carefully. The remaining cross beam shall be adjusted, cleaned and painted as designed. New walkway either wooden or steel deck shall be properly fixed as per the design. This is equivalent to initial walkway fitting. This shall include removal of old nuts and bolts of wooden deck to be dismantled.

647/8 Dismantling/Replacement of Wire mesh Netting

Useless wire mesh netting shall be opened, unrolled and removed from the bridge walkway area. New wire mesh shall be properly fixed by using binding wire which shall be woven along the wire mesh and handrail/fixation cable. The wire mesh net has to be folded around the hand rail cable.

650 Finishing Works

For item Nos. 651-retightening of bulldog grips, nuts, etc.; 652-coaltar application; and repainting of steel parts, a reference shall be made to item No. 576/ 350. However, because of difficulty of painting surfaces without any access at site, it shall be done as mentioned in specific specification regarding maintenance of bridges.

653 Rust Prevention by Repainting

Surface to be painted or otherwise treated shall be dry, thoroughly cleaned and free from oil, grease and scarf removed properly by degreasing agents. Surfaces accessible to mechanical power tool operation shall be cleaned by employing power-operated wire brushes and inaccessible surfaces shall be cleaned by hand scraping, wire brushing, and by using coarse sandpaper, steel wool and emery paper.

Cleaned surface shall have a light metallic lustre. Inaccessible surfaces except the interior of sealed hollow structures shall receive the full protective treatment before assembly. Painting shall not be done prior to welding. Welds and adjacent parent metal shall not be painted prior to dislodging. Parts to be encased in concrete shall not be painted or oiled (refer to standard drawing and steel parts lists to identify such parts).

Two base coats of "red lead primer" or “red oxide zinc chromate primer” and two finishing coats of "polyurethane" enamel paint has to be applied with the first base coat applied not more than 5 hours after cleaning of the parts. The minimum thickness of all 4 coats together shall not be less than 0.12 mm. The first base coat has to be applied with brush or roller by hand. Between the two applications of the base coats, a time span of at least 3 days has to be maintained.

Polyutherane enamel should be sky blue.

660 OTHER MISCELLANEOUS

River Diversion:

During construction of structures in or adjacent to the river bed, the Contractor will have to control the river and divert it by constructing necessary cofferdams, channels, flumes drains, sumps and any other temporary protective work according to the design.

Approach Trails:

The extension of existing trails or construction of new trails shall be executed at the locations indicated on the drawings. Trail width will normally be 2.0 m but not less than 1.5 m. Appropriate measures shall be taken to protect the trails from erosion.

Quarries and Spoil Dumps:

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.

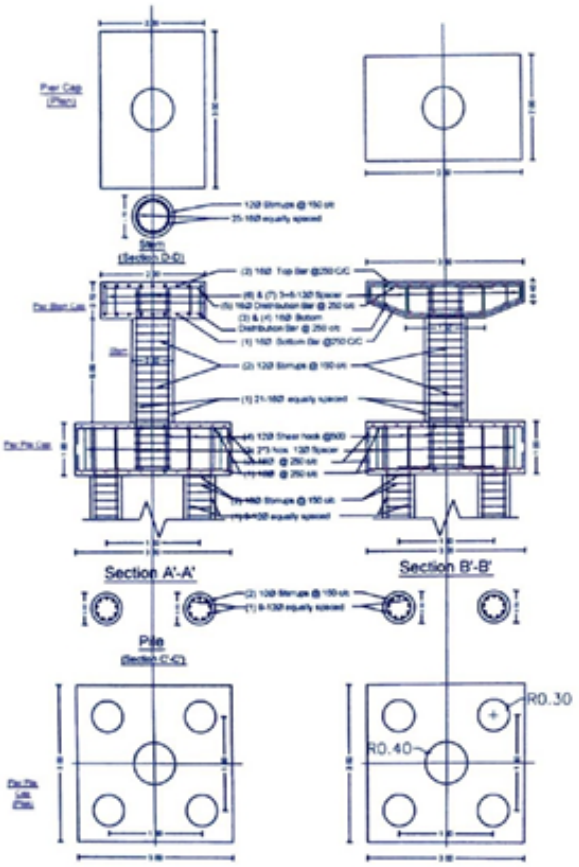
Schedule of Works

300 STEEL PARTS				
Description		**Unit**	**Quantity**	**Remarks**
310 Supply & Fabrication	311 Structural Steel	kg	16,039.05	Contractor
	GI Pipe	m	345.00	Contractor
	GI Socket	no	114.00	Contractor
312 Reinforcement Steel	Reinforcement	kg	3595.83	Contractor
	Binding Wire	kg	28.77	Contractor
340 Miscellaneous Supply	341 Wiremesh Netting	m	172.20	Contractor
	342 Sign Board	pc	1.00	Contractor
	343 Bolts, Nuts, Washers (4.6 grade)	kg	38.28	Contractor
	344 Nut ,Bolts,Washers,(8.8 grade)	kg	816.39	Contractor
	344 10 SWG GI Binding wire	kg		Contractor
350 Rust Prevention	351 Hot Dip Galvanization	kg	16,039.05	Contractor
400 TRANSPORTATION				
Description		**Unit**	**Qty**	**Remarks**
410 Transportation	411 Material & Equipment	kg	22,832.85	Contractor
	413 Cement & others	kg	52,052.45	Contractor
500 CONSTRUCTION				
Description		**Unit**	**Qty**	**Remarks**
520 Foundation Excavation	521 Soil (Foundation Excavation)	m^3	200.63	Contractor
	Soil Backfilling	m^3	136.97	Contractor
550 Concrete Works	553 Reinf. Cement Concrete 1:2:4	m^3	1.17	Contractor
	556 Reinf. Cement Concrete 1:1.5:3	m^3	118.20	Contractor
	Form work	m2	143.73	Contractor
560 Masonry/Mortar Work	Rubble Stone masonry 1:4	m^3	3.66	Contractor
	564 Broken Stone Soling	m^3	0.63	Contractor
570 Erection/Finishing Work	572 Erection of Truss Bridge	m	84.00	Contractor
Boring, providing and Installing bored cast-in-situ RCC pile of 600mm diameter including Bentonite as per specification. Excluding Reinforcement and Concrete		m	126.40	Contractor
600 Miscellaneus Works				
700 Laboratory testing	700 Laboratory testing of materials	job	1.00	Contractor
800 Insurance	800 Insurance	job	1.00	Contractor

Drawings

Detailed Drawings shall be provided as per the written request of the bidder and as per the need.

6 m Pier Height



Pile, Pile Cap, Pier Stem, Stem Cap & Ramp Details

Reinforcement per Pile

SN	Shape	Dia.	No.	Length (m)	Unit Wt. (Kg/m)	Weight (Kg)
1	0.3 / 11.70	12	8	12.00	0.89	80.90
2	Spiral stirrup 0.42 / 0.42	10	16	1.84	0.62	18.80
					Total per pile	175.05
					For 8 pile	1400.40

Reinforcement per Middle Pile Cap

SN	Shape	Dia.	No.	Length (m)	Unit Wt. (Kg/m)	Weight (Kg)
1	0.40 / 2.90 / 0.40	16	25	3.70	1.58	152.00
2	0.40 / 2.90 / 0.40	16	25	3.70	1.58	152.00
3	1.90 / 0.32	12	6	0.60	0.89	29.90
4	0.80 / 0.15 0.15	12	36	1.20	0.89	38.40
					Total per Pile Cap	372.35
					Total For 2 Pile Cap	744.70

Reinforcement per Abutment Stem/Pier

SN	Shape	Dia.	No.	Length (m)	Unit Wt. (Kg/m)	Weight (Kg)
5	0.80 / 7.80 / 0.80	16	25	8.80	1.58	347.80
6	Spiral stirrup 0.42 / 0.42	12	31	2.32	0.89	105.80
					Total per Stem/Pier	452.90
					Total For 2 Stem/Pier	905.80

Reinforcement per Abutment/Pier Cap

SN	Shape	Dia.	No.	Length (m)	Unit Wt. (Kg/m)	Weight (Kg)
1	0.3 / 1.48 / 0.3	16	8	3.50	1.58	40.77
2	0.25 / 2.90 / 0.25	16	8	3.40	1.58	40.80
3	0.55 / 1.90 / 0.55	16	7	3.00	1.58	33.18
4	0.5 / 1.90 / 0.5	16	2	2.90	1.58	9.16
5	0.4 / 1.90 / 0.4	16	2	2.70	1.58	8.54
6	0.3 / 1.90 / 0.3	16	2	2.50	1.58	7.90
7	0.25 / 1.90 / 0.25	16	12	2.40	1.58	45.50
8	1.90 / 0.32	12	2	3.00	0.89	6.9
9	1.90 / 0.25	12	2	4.28	0.89	7.62
10	0.80 / 0.15 0.15	12	16	0.90	0.89	12.82
11	0.35 0.35 / 0.15 0.15	12	8	0.75	0.89	5.36
					Total per Stem Cap	240.88
					Total For 2 Stem/Pier Cap	481.76

Note:

Element	Grade	Clear Cover
Pile	M20 (1:1.5:3)	65mm
Pile Cap	M15 (1:2:4)	50mm
Pier	M20 (1:1.5:3)	65mm
Pier Cap	M15 (1:2:4)	50mm
Column Footing	M20 (1:1.5:3)	50mm
Column	M20 (1:1.5:3)	40mm
Beam	M15 (1:2:4)	30mm
Slab	M15 (1:2:4)	20mm
Reinforcement	Fe415 Tor Steel	

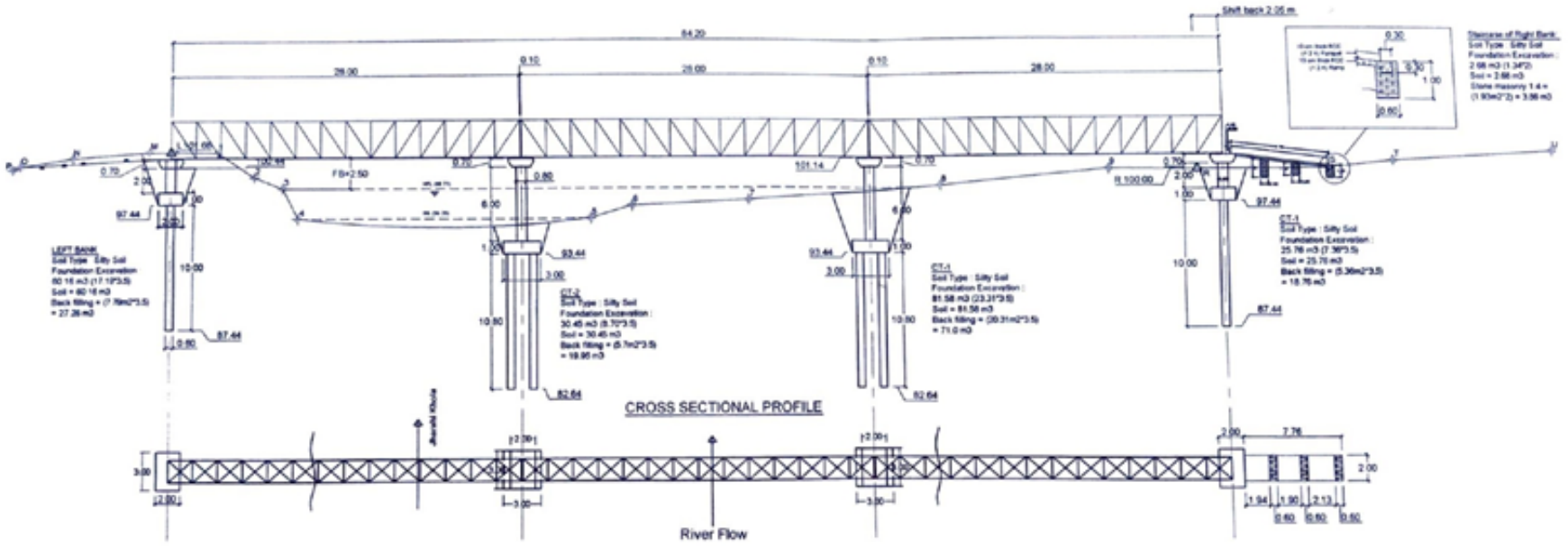
Quantity Calculation of Pile Anchorage (6m height of Pier)

S.N	Description	No.	L(m)	B(m)	H(m)	Quantity m³
1	Pile (1:1.5:3)	4	3.14 X 0.3² X 11.70			13.23
2	RCC Pier (1:1.5:3)	1	3.14 X 0.4² X 6.0			3.01
	Total Volume (1:1.5:3)					16.24
3	Pile Cap (1:2:4)	1	3	3	1	9.00
4	Anchorage Portion(1:2:4)	1	(Area= 1.30) X (Length= 3)			3.90
	Total Volume (1:2:4)					12.90

Bridge Name : Sankarpur Jharahi
District : W.Nawalparasi
Span: 3x28m, WW : 150cm
GENERAL ARRANGEMENT DRAWING

Design by:
Accepted by:
Approved by:

Sankarpur Jharahi Multi Span Steel Truss
Span = 84.20m



Plan View

Province Government Lumbini Province Ministry of Physical Infrastructure Development Transport Infrastructure Directorate Road Infrastructure Development office Western Rowalpurasi **Lumbini Province**	Bridge Name: Sankarpur Gharahi MST River Name: Gharahi khola Bridge No: Span: 84.20 m WWidth: 150 cm Bridge Type: Steel Truss L/B: Sankarpur RM-1 R/B: Palahinandan RM-1 All dimensions are in meter	Surveyed By ..... Date: Designation :	Designed By (TID/PTAP) ..... Date: 2081/11/28 Designation : TSS	Accepted By (TID/PTAP) ..... Date: 2081/11/28 Designation : TC	Checked By (RIDO W.nawalparasi) .... Date: Designation :	Approved By (RIDO W.nawalpar .... Date: Designation :

Personnel Requirements

Required qualified and skilled technical personnel shall be hired by the contractor during the construction phase to meet the desired quality of the works as per the agreed specifications.

SECTION - VI

Bill of Quantities

Bill of Quantity

Name of Project : Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m)

Location: Palhinandan-1, Nawalparasi (Ba.Su.Pa.)

Span: 84.2m

Type : Truss Type

Contract No.: RIDONAW/TB/134/NCB/083-84/05

SL. NO	Item Name & Description	Quantity	Unit	Rate in Figures	Rate in Words	Amount
1	Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m)	1	Job			
	Sub Total Excluding VAT					
	VAT @ 13 %					
	Total Including VAT					

PART-III CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VII: General Conditions of Contract

General Conditions of Contract

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

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

	Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other Party. (s) The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance. (t) **In writing** or **written** means hand written, type written, printed or electronically made, and resulting in permanent record. (u) The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is **specified in the SCC**. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order. (v) **Letter of Acceptance** means the formal acceptance by the Employer of the Bid and denotes the formation of the contract at the date of acceptance. (w) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works. (x) **Party** means the Employer or the Contractor, as the context requires. (y) **SCC** means Special Conditions of Contract (aa) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function. (bb) The **Project Manager** is the person **named in the SCC** (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract. (cc) **Retention Money** means the aggregate of all monies retained by the Employer pursuant to GCC 54.1. (dd) **Schedules** means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Bids, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices. (ee) The **Site** is the area defined **as such in the SCC.** (ff) **Site Investigation Reports** are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site. (gg) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager. (hh) The **Start Date** is given i**n the SCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates. (ii) A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site. (jj) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works. (kk) A **Variation** is an instruction given by the Project Manager which varies the Works

	(ll) The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as **defined in the SCC**.
2. Interpretation	2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.
	2.2 If sectional completion is **specified in the SCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
	2.3 The documents forming the Contract shall be interpreted in the following order of priority: (a) Contract Agreement, (b) Letter of Acceptance, (c) Letter 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	3.1 The language of the Contract and the law governing the Contract are **stated in the SCC**.
	3.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when (a) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Employer's Country prohibits any import of goods from, or any payments to, a particular country, person, or entity. Where the Employer's country prohibits payments to a particular firm or for particular goods by such an act of compliance, that firm may be excluded.
4.Contract Agreement	4.1 The Parties shall enter into a Contract Agreement within 15 days after the Contractor receives the Letter of Acceptance, unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the attached Contract forms in Section IX.
	4.2 Without altering the basic nature or scope of work, the contract may be amended upon mutual written consent as per prevailing Public Procurement Law.

5. Assignment	5.1 Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party (a) may assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party; and (b) may, as security in favor of a bank or financial institution, assign its right to any moneys due, or to become due, under the Contract.
6. Care and Supply of Documents	6.1 The Specification and Drawings shall be in the custody and care of the Employer. Unless otherwise stated in the Contract, one copy of the Contract and of each subsequent Drawing shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
	6.2 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Employer. Unless otherwise stated in the Contract, the Contractor shall supply to the Engineer six copies of each of the Contractor's Documents.
	6.3 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Employer's Personnel shall have the right of access to all these documents at all reasonable times.
	6.4 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.
7. Confidential Details	7.1 The Contractor's and the Employer's Personnel shall disclose all such confidential and other information as may be reasonably required in order to verify the Contractor's compliance with the Contract and allow its proper implementation.
	7.2 Each of them shall treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.
	7.3 Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Employer to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this Clause.
8. Compliance with Laws	8.1 The Contractor shall, in performing the Contract, comply with applicable Laws of Nepal.

9. Joint and Several Liability	9.1 If the Contractor is a joint venture of two or more entities , all such entities shall be jointly and severally liable to the Employer for the fulfillment of the provisions of the Contract, and shall designate one of such persons to act as a leader with authority to bind the joint venture. **The contractor shall not handover the responsibility of the contract to any one member or some members of Joint Venture or any other parties, not involved in the contract.** The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.
10. Project Manager's Decisions	10.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
11. Delegation	11.1 The Project Manager may delegate any of his duties and responsibilities to other people after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
12. Communications	12.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices and requests, these communications shall be: (a) in writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as **stated in the SCC**; and (b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract. However: (i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and (ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued. Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed.
	12.2 A Notice shall be effective when delivered or on the Notice's effective date, whichever is later.
13. Subcontracting	13.1 **For GON Funded:** A list of approved Subcontractors including its value/works is included as Article 2 (k) of contract Agreement. Approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties, or responsibilities under the contract. **For DP Funded:** The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. Bidders may propose subcontracting up to the percentage of total value of contracts as specified in the SCC. The Sub contractor shall meet the qualification requirement as specified **in SCC.**

	13.2 The contractor shall give prior notice to the Employer clearly specifying the nature, scope, and responsibilities of the work to be performed, to engage other subcontractors, material suppliers, equipment suppliers, service providers, or other persons or entities during the implementation of the contract. 13.3 Before notifying the Employer as per GCC 13.2, the contractor shall enter into a written agreement with the subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities clearly specifying the scope of work, responsibilities, quality requirements, duration, payment terms, security, labor-related obligations, and conditions relating to performance of the work. 13.3 Any subcontracting arrangement made in accordance with GCC 13.2 shall not relieve the Contractor of any of its obligations or liabilities under the Contract. 13.4 The contractor shall provide the Employer with details of the payments made to the subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities engaged under GCC 13.1 and/or GCC 13.2. 13.5 If the contractor is found not to have made payment to the subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities engaged under GCC 13.1 and/or GCC 13.2 in accordance with the terms of the agreement, the Employer may determine the amount payable to such subcontractor, material suppliers, equipment suppliers, service providers, or other persons or entities and make payment to them from any remaining dues to be paid to the contractor, retention money, or forfeited performance security.
14. Other Contractors	14.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, **as referred to in the SCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification
15 Personnel and Equipment	15.1 The Contractor shall employ the key personnel and use the equipment identified in its Bid to carry out the Works, or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.
	15.2 If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.
	15.3 If the Employer, Project Manager, or Contractor determines, that any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or other prohibited practices during the execution of the Works, then that employee shall be removed in accordance with Clause 15.2

	above.
16. Employer's and Contractor's Risk	16.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.
17. Employer's Risks	17.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks: (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or (ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor. (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.
	17.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to (a) a Defect which existed on the Completion Date, (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or (c) the activities of the Contractor on the Site after the Completion Date.
18. Contractor's 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	19.1 The Contractor shall provide insurance in the joint names of the Employer and the Contractor from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles **stated in the SCC** for the following events which are due to the Contractor's risks: (a) loss of or damage to the Works, Plant, and Materials; (b) loss of or damage to Equipment; (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and (d) Personal injury or death.
	19.2 Policies and certificates for insurance shall be delivered by the Contractor to the

	Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the proportions of Nepalese Rupees required to rectify the loss or damage incurred.
	19.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.
	19.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager.
	19.5 Both parties shall comply with any conditions of the insurance policies.
20. Site Investigation Reports	20.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to **in the SCC**, supplemented by any information available to the Contractor.
21. Contractor to Construct the Works	21.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
22. The Works to Be Completed within intended Completion Date	22.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them within the intended Completion Date.
23. Design by contractor and Approval by the Project Manager	23.1 The contractor shall be responsible for the design of permanent works as **specified in SCC**.
	23.2 Contractor shall be responsible for design of the Temporary Works. The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.
	23.3 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, shall be subject to prior approval by the Project Manager before their use.
	23.4 The Project Manager's approval shall not alter the Contractor's responsibility for design of temporary works.
24. Safety, Security and Protection of the	24.1 The Contractor shall, throughout the execution, and completion of the works and remedying of any defects therein: a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so as the same is under his control) and the works (so far as the same are not completed or occupied by the Employer) in an orderly state

Environment	appropriate to the avoidance of danger to such persons. b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others. c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion. e. Any spoil or material removed from drains shall be disposed of to designated stable tipping areas as directed by the Project Manager. f. Shall not use fuel wood as a means of heating during the processing or preparation of any materials forming part of the works. g. The Project Manager shall have the power to disallow any working practice or activity of the Contractor or direct that such practices or activities be modified should the Project Manager consider, on the advice of the relevant Government Departments, that the practices or activities will be harmful to wildlife. h. Provide on the Site such lifesaving apparatus as may be appropriate and an adequate and easily accessible first aid outfit or such outfits as may be required by any government ordinance, factory act, etc., subsequently published and amended from time to time.
	24.2 The Contractor shall comply with the Employer's Occupational Health and Safety (OHS) Policy, Guideline and/or Operating Manual, if any, **as specified in the SCC.**
25. Discoveries	25.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.
26. Possession of the Site	26.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date **stated in the SCC**, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
27. Access to the Site	27.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
28.Instructions, Inspections and Audits	28.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.
	28.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub consultants to keep accurate and systematic accounts

	and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.
	28.3 The Contractor shall permit the GoN/DP and/or persons appointed by the GoN/DP to inspect the Site and/or the accounts and records of the Contractor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the GoN/DP if required by the GoN/DP. The Contractor's attention is drawn to Sub-Clause 73.2 which provides, inter alia, that acts intended to materially impede the exercise of the GoN's/DP's inspection and audit rights provided for under this Sub-Clause constitute a obstructive practice subject to contract termination.
29.Dispute Settlement	29.1 The Employer and the Contractor shall attempt to settle amicably by direct negotiation any disagreement or dispute arising between them under or in connection with the Contract.
	29.2 Any dispute between the Parties as to matters arising pursuant to this Contract which cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be referred to Arbitration within 30 days after the expiration of amicable settlement period.
30. Procedures for Disputes	30.1 In case of arbitration, the arbitration shall be conducted in accordance with 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	33.1 The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employment or retirement, and discipline. In countries where national law provides for non-discrimination in employment, the Contractor shall comply with national law. When national laws are silent on nondiscrimination in employment, the Contractor shall meet this Sub clause's requirements. Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination.

B1. Time Control	
34. Program	34.1 Within the time **stated in the SCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.
	34.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.
	34.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period **stated in the SCC**. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall Provide an updated Activity Schedule within 15 days of being instructed to by the Project Manager.
	34.4 The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.
35. Extension of the Intended Completion Date	35.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.
	35.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information at least 21 days prior to the intended completion date. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date. Along with full supporting information, the contractor shall also submit a revised work schedule and ensure that the Performance Security, Insurance, and Advance Payment Security remain valid. Within fifteen (15) days of the receipt of Letter of Extension of Intended Completion Date from the Employer, the contractor shall submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents as required with extended validity.
	35.3 If the contractor fails to submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents, as required with extended validity within the prescribed time as per ITB 35.2, the Contractor shall pay fine at the rate of 0.01% of the final contract price (without VAT

	but including PS) per day for a maximum of fifteen (15) days. The Employer may deduct the fine from payments due to the Contractor.
36. Acceleration	36.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.
	36.2 If the Contractor's priced proposals for acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.
37. Delays Ordered by the Project Manager	37.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.
38.Management Meetings	38.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
	38.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.
39. Early Warning	39.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.
	39.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.
C. Quality Control	
40. Identifying Defects	40.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.
41. Tests	41.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.

	41.2 The Employer for it's confidence shall make quality control/monitoring by various laboratory test and inspections at the critical construction stages following "Quality Control Manual, Trial Bridge Construction" of Trail Bridge Section/Department of Local Infrastructure. For this the Employer may appoint a qualified consultant or may assign its own engineer. Without test certificates and inspection reports no payment to the Contractor shall be made. In any case, quality control/monitoring by the Employer shall not release the Contractor from its prime responsibility for total quality management and quality assurance. 41.3 Total quality management and quality assurance is the sole responsibility of the Contractor. The quality management and quality assurance shall follow as described in the Terms of Reference and Quality Assurance Document, which are the integral part of the Contract Agreement. The quality assurance must reflect that the executed works/services is in accordance and satisfies the technical specifications and design drawings. Without quality assurance documents no payment to the Contractor shall be made.
42.Correction of Defects	42.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at issuance of taking over certificate pursuant to GCC clause 69.2, and is **defined in the SCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
	42.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.
43.Uncorrected Defects	43.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.
D. Cost Control	
44. Contract Price	44.1 In the case of a Unit Rate contract, the Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.
	44.2 In the case of a lump sum contract, the Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid **as per the SCC**.. If payment for Materials on Site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.
45. Changes in the Contract Price	45.1 In the case of an Unit Rate contract: (a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 2 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. (b) If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.

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

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

	(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons. (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor. (i) The advance payment is delayed. (j) The effects on the Contractor of any of the Employer's Risks. (k) The Project Manager unreasonably delays issuing a Certificate of Completion.
	50.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
	50.3 As soon as information demonstrating effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.
	50.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.
51. Tax	51.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC 53.
52. Currency	52.1 The currency of Contracts shall be Nepalese Rupees.
53.Price Adjustment	53.1 Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the SCC**. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due.
	53.2 Adjustment Formulae[6]: The formulae will be of the following general type:

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

	$pn = A + b\frac{Ln}{Lo} + c\frac{Mn}{Mo} + d\frac{En}{Eo} + etc.$ Where: *pn* 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; *A* is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;[7] b, c, d, etc., coefficients representing the estimated proportion of each cost element (labor, materials, equipment usage, etc.) in the Works or sections thereof, net of Provisional Sums, **as specified in the SCC;** *Ln, Mn, En,* etc., are the current cost indices or reference prices of the cost elements for month "n," determined pursuant to Sub-Clause 53.4, applicable to each cost element; and *Lo, Mo, Eo,* etc., are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 53.4
	53.3 Sources of Indices and Weightings: The sources of indices shall be those listed in the Bidding Forms- Table of Price Adjustment data, as approved by the Project Manager and stated in SCC. Indices shall be appropriate for their purpose and shall relate to the Contractor's proposed source of supply of inputs on the basis of which his Contract shall have been computed. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightings and Source of Indices in the Bidding Forms, which shall be subject to approval by the Project Manager.
	53.4 Base, Current and Provisional Indices: The base cost indices or prices shall be those prevailing on the day 30 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 30 days prior to the last day of the period to which a particular Interim Payment Certificate is related. If at any time the current indices are not available, provisional indices as determined by the Project Manager will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.
	53.5 Weightings: The weightings for each of the factors of cost given in the Bidding Forms shall be adjusted if, in the opinion of the Project Manager, they have been rendered unreasonable, unbalanced or inapplicable as a result of varied or additional work already executed or instructed under Clause 46 or for any other reason.
	53.6 Where, price adjustment provision is not applicable pursuant to Sub-clause 53.1 then the Contract is subject to price adjustment only for construction 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

[7] 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.

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

	The validity of the bank guarantee under this sub-clause shall be at least 30 days beyond the end of Defect Liability Period.
	54.4 If retention money is substituted by bank guarantee in accordance with clause 54.3, the bank guarantee shall be submitted either using the Retention Money Security Form included in Section X (Contract Forms) or in another Form acceptable to the employer. The validity of the bank guarantee shall be at least one month more than the end of defect liability period.
55.Liquidated Damages	55.1 The Contractor shall pay liquidated damages to the Employer at the rate per day **stated in the SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount **defined in the SCC**. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.
	55.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC 49.
56. Bonus	56.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day **stated in the SCC** for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.
57.Advance Payment	57.1 Unless otherwise **stated in SCC,** the Employer shall make advance payment to the Contractor of the amounts stated in the SCC, in 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. The validity of the bank guarantee under this sub-clause shall be at least 30 days beyond the end of intended completion date. The contractor shall submit the list of activities for which the Advance Payment for mobilization to be used along with their time schedules.
	57.2 The Contractor is to use the advance payment only to pay for the purpose of construction site preparation, establishment of temporary camp facilities, construction of workers' housing, mobilization of labors, materials or equipment etc required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying

	copies of invoices or other documents to the Project Manager. *If the Advance Payment is found to be used for other purposes other than the fulfillment of the objectives of the agreement or if the Contractor is found to have submitted false evidences regarding the use of the advance payment received as per ITB 57.1, in such case a criminal case may be filed against the Contractor or its representatives as per the prevalent law.*
	57.3 The advance payment shall be repaid by deducting proportionate amounts, **as stated in SCC**, from payments otherwise due Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.
	57.4 If the advance provided under GCC 57.1 is not repaid due to non-performance of the works under the contract, by the contractor within the time period specified in the contract, the Employer shall recover the advance by enforcing the bank guarantee as provided under GCC 57.1, and shall also recover interest on the advance amount from the contractor at a rate **stated in SCC.**
58. Securities	58.1 The Performance Security, including any additional security required as per ITB 29.5, shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount **specified in the SCC,** by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in accordance with the conditions of Contract using Sample Form for the Performance Security included in Section IX (Contract Forms), or another form acceptable to the Employer, and denominated in Nepalese Rupees. The Performance Security shall be valid until a date 30 days beyond the end of the Defect Liability Period. Any additional performance security required as per ITB 29.5 shall be valid until a date 30 days beyond the end of the intended completion date.
	58.2 The performance security issued by any foreign Bank outside Nepal must be counter guaranteed by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal.
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 instructions in advance for additional work to be paid for in that way.
	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.
	59.3 The Contractor shall be paid for Day works subject to obtaining signed Day works forms.
60. Cost of Repairs	60.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.
F. Force Majeure	

61.Definition of Force Majeure	61.1 In this Clause, "Force Majeure" means an exceptional event or circumstance, (a) which is beyond a Party's control; (b) which such Party could not reasonably have provided against before entering into the Contract; (c) which, having arisen, such Party could not reasonably have avoided or overcome; and (d) which is not substantially attributable to the other Party.
	61.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied: (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies; (b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war; (c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel; (d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity; and (e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
62. Notice of Force Majeure	62.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
	62.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
	62.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.
63. Duty to 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 (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 destructed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC 19.
	64.2 After receiving this notice, the Project Manager shall proceed in accordance with GCC 10 to agree or determine these matters.
65. Force Majeure Affecting Subcontractor	65.1 If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's nonperformance or entitle him to relief under this Clause.
66.Optional Termination, Payment and Release	66.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 90 days by reason of Force Majeure of which notice has been given under GCC 62, or for multiple periods which total more than 150 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with GCC 72.5.
	66.2 Upon such termination, the Project Manager shall determine the value of the work done and issue a Payment Certificate, which shall include (a) the amounts payable for any work carried out for which a price is stated in the Contract; (b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer, and the Contractor shall place the same at the Employer's disposal; (c) other Costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works; (d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and

	(e) the Cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.
67. Release from Performance	67.1 Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises, which makes it impossible or unlawful for either or both Parties to fulfill its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance, (a) the Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract; and (b) the sum payable by the Employer to the Contractor shall be the same as would have been payable under GCC 66 if the Contract had been terminated under GCC 66.
G. Finishing the Contract	
68. Completion	68.1 The Contractor shall request the Project Manager to issue a certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the work is completed.
	68.2 In addition to the other provisions, before acceptance of the completed works, Employer shall verify and assure that such works are within the set objective, quality and appropriate to operate and use.
69. Taking Over	69.1 In the contractor's Opinion, if the works are complete and ready for taking over, the contractor may apply by notice to the Project Manager for a Taking-Over Certificate. If the Works are divided into Sections, the Contractor may similarly apply for a Taking-Over Certificate for each Section.
	69.2 The Project Manager shall, within 30 days after receiving the Contractor's application: (a) issue the Taking-Over Certificate to the Contractor if physical progress of works is at least ninety (90) percent in accordance with the Contract except for any minor outstanding work and defects (as listed in the Taking-Over Certificate) which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or (b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.

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

	reasonable period of time determined by the Project Manager; g)the Project Manager gives two consecutive Notices to update the Program and accelerate the works to ensure compliance with GCC Sub clause 22.1 and the Contractor fails to update the Program and demonstrate acceleration of the works within a reasonable period of time determined by the Project Manager; h)the Contractor does not maintain a Security, which is required; i) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, **as defined in the SCC**; and j) If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to GCC 73.1. k)The Contractor fails to submit Performance Security, Advanced Payment Guarantee (if any) and Insurance Policy documents with extended validity within the time prescribed pursuant to GCC 35.3.
	72.4 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC 72.3 above, the Project Manager shall decide whether the breach is fundamental or not.
	72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience.
	72.5 Notwithstanding the above, the Employer may terminate the Contract for convenience. 72.6 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.
73.Fraud and Corruption	73.1 If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 15 days' notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site.
	73.2 Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with GCC Clause 15. For the purposes of this GCC 73; (i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party. (ii) "fraudulent practice"[5] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to

	obtain a financial or other benefit or to avoid an obligation; (iii) "collusive practice"[6] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; (iv) "coercive practice"[7] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; (v) "obstructive practice" is (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (bb) acts intended to materially impede the exercise of the GON's/DP's inspection and audit rights provided for under GCC28.3.
	73.3 The contractor shall be prosecuted for offenses under prevailing criminal laws, if the contractor: (i) Misuses the Advance Payment or payments received from the Employer; (ii) Receives payment by submitting false information or documents; (iii) Abandons the works before completion; (iv) Commits a serious violation of the contract; or (v) Causes loss or damage to the Employer.
74. Black Listing	74.1 Without prejudice to any other rights of the Employer under this Contract, GoN, Public Procurement Monitoring Office (PPMO), on the recommendation of procuring entity, may blacklist a Bidder or contractor for its conduct for a period of one (1) to three (3) years on the following grounds and seriousness of the act committed by the bidder or contractor: (a) if it is established that the Contractor has committed substantial defect in implementation of the contract or has not substantially fulfilled its obligations under the contract or the completed work is not of the specified quality as per the contract. (b) If convicted from a court of law in a criminal offense liable to be disqualified for taking part in procurement contract, (c) If it is established that the Contractor has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
75. Payment upon Termination	75.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.

	75.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
	75.3 If the Contract is terminated because of fundamental breach of Contract or for any other fault by the Contractor, the Employer may: (a) withhold further payments to the Contractor until the costs of design, execution, completion and remedying of any defects, liquidated damages (if any), and all other costs incurred by the Employer, have been established, and/or (b) recover from the Contractor any losses and damages incurred by the Employer and any extra costs of completing the Works, after allowing for any sum due to the Contractor, as Government dues. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor. (c) forfeit the Performance Security. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
76. Property	76.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.
77.Release from Performance	77.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.
78. Suspension of DP Loan/Credit/Grant	78.1 In the event that the DP suspends the loan/ credit/grant to the Employer from which part of the payments to the Contractor are being made: a. the Employer is obligated to notify the Contractor of such suspension within 7 days of having received the DP's suspension notice; and b. if the Contractor has not received sums due him within the 30 days for payment provided for in GCC 49.1, the Contractor may immediately issue a 15-day termination notice.
79. Eligibility	79.1 The Contractor shall have the nationality of an eligible country as specified in Section V of the bidding document. The Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
	79.2 The materials, equipment, and services to be supplied under the Contract shall

	have their origin in eligible source countries **as specified in SCC** and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, the Contractor may be required to provide evidence of the origin of materials, equipment, and services.
	79.3 For purposes of GCC 79.2, "origin" means the place where the materials and equipment are mined, grown, produced, or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.
80.ProjectManager's Duties and Authorities	80.1 The Project Manager's duties and authorities are restricted to the extent as **stated in the SCC**.
81.Quarries and Spoil Dumps	81.1 Any quarry operated as part of this Contract shall be maintained and left in a stable condition without steep slopes and be either refilled or drained and be landscaped by appropriate planting. Rock or gravel taken from a river shall be removed over some distance so as to limit the depth of material removed at any one location, not disrupt the river flow or damage or undermine the river banks. The Contractor shall not deposit excavated material on land in Government or private ownership except as directed by the Project Manager in writing or by permission in writing of the authority responsible for such land in Government ownership, or of the owner or responsible representative of the owner of such land in private ownership, and only then in those places and under such conditions as the authority, owner or responsible representative may prescribe.
82. Local Taxation	82.1 The prices bid by the Contractor shall include all taxes that may be levied in accordance to the laws and regulations in being in Nepal on the date 30 days prior to the closing date for submissions of Bids on the Contractor's equipment, plant and materials acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor from his responsibility to pay any tax that may be levied in Nepal on profits made by him in respect of the Contract.
83. Value Added Tax	83.1 The Contract is not exempted from value added tax. An amount specified in the schedule of taxes shall be paid by the Contractor in the concerned VAT office within time frame specified in VAT regulation.
84. Income Taxes on Staff	84.1 The Contractor's staff, personnel and labor will be liable to pay personal income taxes in Nepal in respect of their salaries and wages, as are chargeable under the laws and regulations for the time being in force, and the Contractor shall perform such duties in regard to such deductions as may be imposed on him by such laws and regulations.
	84.2 The issue of the Final Account Certificate pursuant to clause GCC 70 shall be made only upon submittal by the Contractor of a certificate of income tax clearance from the Government of Nepal.
85. Duties, Taxes	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

and Royalties	Contractor for the works shall be included in the Contract rates and prices and no reimbursement or payment in that respect shall be made to the Contractor.
	85.2 The Contractor shall familiarize himself with GON the rules and regulations with regard to customs, duties, taxes, clearing of goods and equipment, immigration and the like, and it will be necessary for him to follow the required procedures regardless of the assistance as may be provided by the Employer wherever possible.
	85.3 The Contractor shall pay and shall not be entitled to the reimbursement of cost of extracting construction materials such as sand, stone/boulder, gravel, etc. from the river beds or quarries. Such prices will be levied by the concerned Local Government (LG) as may be in force at the time. The Contractor, sub-contractor(s) employed directly by him and for whom he is responsible, will not be exempted from payment of royalties, taxes or other kinds of surcharges on these construction materials so extracted and paid for to the concerned Local Government (LG)
86. Member of Government, etc, not Personally Liable	86.1 No member or officer of GoN or the Employer or the Project Manager or any of their respective employees shall be in any way personally bound or liable for the act or obligations of the Employer under the Contract or answerable for any default or omission in the observance or performance of any of act, matter or thing which are herein contained.
87. Approval of Use of Explosives	87.1 No explosives of any kind shall be used by the Contractor without the prior consent of the Employer in writing and the Contractor shall provide, store and handle these and all other items of every kind whatsoever required for blasting operations, all at his own expense in a manner approved in writing by the Employer.
88 Compliance with Regulations for Explosives	88.1 The Contractor shall comply with all relevant ordinances, instructions and regulations which the Government, or other person or persons having due authority, may issue from time to time regarding the handling, transportation, storage and use of explosives.
89. Permission for Blasting	89.1 The Contractor shall at all times maintain full liaison with and inform well in advance, and obtain such permission as is required from all Government authorities, public bodies and private parties whatsoever concerned or affected, or likely to be concerned or affected by blasting operation.
90.Records of Explosives	90.1 Before the beginning of the Defects Liability Period, the Contractor shall account to the satisfaction of the Project Manager for all explosives brought on to the Site during the execution of the Contract and the Contractor shall remove all unused explosives from the Site on completion of works when ordered by the Project Manager.
91. Traffic Diversion	91.1 The Contractor shall include the necessary safety procedures regarding and pedestrian traffic diversion that is needed in execution of the works. The Contractor shall include in his costing of works, any temporary works or diversion that are needed during the construction period. All traffic diversion

	should be designed for the safety of both the motoring public and the men at work. It shall ensure the uninterrupted flow of traffic and minimum inconvenience to the public during the period concerned. As such, adequate warning signs, flagmen and other relevant safety precautionary measures shall be provided to warn motorists and pedestrians well ahead of the intended diversion as directed by the Project Manager. All traffic devices used shall be designed in accordance with the instruction of Project Manager.
92. Social Security Fund	92.1 The contractor shall enroll the laborers, employees, or other workforce engaged in such work in the Social Security Fund in accordance with prevailing laws. 92.2 The contractor shall be responsible to disburse the remuneration, benefits, and other payments of the laborers, employees, or workforce into the bank account of the concerned individual. 92.3 The contractor shall be responsible for ensuring that the required work permit has been obtained in accordance with prevailing laws in respect of foreign personnel.

Section VIII: Special Conditions of Contract

A. General	
GCC 1.1 (p)	The Employer is ***Road Infrastructure Development Office, Nawalparasi (Ba.Su.Pa.)***
GCC 1.1 (u)	The Intended Completion Date for the whole of the Works shall be ***18 months from the date of work order.***
GCC 1.1(bb) & GCC 10.1	The Project Manager is The Office Chief. The Project Manager and Engineer are synonyms.
GCC 1.1 (ee)	The Site is located at ***शंकरपुर गाँउ स्थित झरही खोला, पाल्हीनन्दन-१***
GCC 1.1 (hh)	The Start Date shall be from the date of Contract Agreement.
GCC 1.1 (ll)	The Works consist of **Fabrication, Supply, Transportation, Construction and Erection of Multispan Truss Trail Bridge in Jharahi Khola, Palhinandan-1 (West of Shankarpur).(Span : 84.20m)**
GCC 2.2	Sectional Completions are: ***Not Applicable.***
GCC 2.3 (i)	The following documents also form part of the Contract: ***Schedule of Work, Terms of Reference and Quality assurance Document.***
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 12.1 (a)	The agreed electronic transmission shall be: ***Employer : ridonawalparasi@gmail.com*** ***Contractor:***
GCC 14.1	Schedule of other contractors: ***NA***
GCC 19.1	The minimum insurance amounts and deductibles shall be: 1. The minimum cover for loss of or damage to the Works, Plant and Materials is: **115 %** of the Contract Amount. 2. The maximum deductible for insurance of the Works and of Plant and Materials is: ***As per the provision of Nepal Insurance Authority.*** 3. The minimum cover for loss or damage to immovable Equipment/plants is : ***100% (i.e Replacement Cost)*** 4. The maximum deductible for insurance of immovable Equipment/plant is: ***As per the provision of Nepal Insurance Authority.*** 5. The minimum cover for loss of or damage to other property is: ***5,00,000.00*** with

	unlimited number of occurrences 6. The maximum deductible for insurance of other property is: ***As per the provision of Nepal Insurance Authority.*** 7. The minimum cover for personal injury or death insurance i. for the Contractor's employees is that specified in the Labor act of Nepal and ii. for other people is ***:1 million*** with an unlimited number of occurrences
GCC 20.1	Site Investigation Reports are: The Contractor is responsible for site investigation.
GCC 23.1	The following shall be designed by the Contractor: NA
GCC 24.2	***Nepal Government's OHS Policy and Guideline shall be followed.***
GCC 26.1	The Site Possession Date(s) shall be: ***After Contract Agreement***
GCC 30.1	The place of arbitration shall be: ***Kathmandu, NEPCA***
C. Time Control	
GCC 34.1	The Contractor shall submit for approval a Program for the Works within **30** days from the date of the Letter of Acceptance.
GCC 34.3	The period between Program updates is 60 days.
D. Quality Control	
GCC 42.1	The Defects Liability Period is: ***365*** days.
E. Cost Control	
GCC 44.2	▪ The "Schedule of works" (SOW) shall be read in conjunction with the Design Drawings, Technical Specifications, Instruction the Bidders, Condition of Contract and Terms of Reference. The quantities given in the SOW are estimated and provisional, hence meant only for costing and pricing of the bid by the bidders. The basis of payment will be as per the mode of payment according to the SCC. If any discrepancy arises between SOW and drawing, the quantity as per the drawings shall prevail for calculating the bid price. ▪ The lump sum price in Construction Turnkey package, except otherwise provided under this contract shall include all construction equipment, tools, plants, labor, materials, transportation, construction, temporary works, erection, maintenance supervision, insurance, profit, taxes and duties, overhead together with allocation for general risks, liabilities and obligation set out (also unanticipated) in the contract. The method of measurement of work for payment shall be in accordance with the "as per completed" work (different construction stages), but not item wise works, which should be according to the drawing.
GCC 46.1	▪ This Contract is entered into with the understanding that there may always exist a certain degree of difference between the projected works according the approved design, calculated in the cost estimate and actual execution of the work at site. it is also understood that the contract

	amount specified in the Agreement covers all such differences and/or risks and therefore will not be changed on account of minor differences or eventualities. In any case, no claim shall be entertained regarding porter distance, haulage distance and quantity/classification of excavation works (Soil/Rock etc). ▪ If due to major changes in design or altered site location, the Contractor should undertake additional or less work than provided for in the contract amount specified in the Agreement, the variation may be made as per rules within the limits described in the following Sub-Clauses. ▪ On the submission of a proposal for variation in the work either by the Employer or the Contractor, the other party shall depute an authorized representative to verify the proposal and, if necessary, the site conditions and shall make a specific report within 20 days from the date of submission of the proposal about the nature and quantities to be increased or decreased. ▪ No claims for deduction or addition works within 10% of estimated civil construction cost (civil construction cost includes the cost of concrete works, stone masonry works, gabion works, plaster works and does not include steel parts, fabrication and supply cost) shall be entertained. ▪ If quantity of deduction or addition works is more than 10% of civil construction works, employer will pay to the contractor only for quantity more than 10%., however this clause doses not, pertain to works that has not been designed, such as additional structures. No variations whatsoever will be made for cost pertaining to personnel travel, camp running/hiring, overheads, fees, etc.
GCC 48.5	For any additional work made according to a variation order, major structure added, and change in composition of designed structure (apart form general arrangement and standard, drawings) shall be paid for based on Employer's cost estimate and its increment/decrement with respect to the contract amount. In case of cancellation of contract with mutual consent between the Employer and the Firm item rate of Cost Estimate shall be deduced from above mentioned basis to calculate the amount of total work done.
GCC 49.1	**Payment for the Works shall be made in Nepali Rupees, as follows.** **a. The Employer shall pay to the Contractor as a mobilization, an amount not exceeding to *20%* of quoted price (10%** after submission of APG and Work Schedule, next 10% after the completion of layout and submission of insurance and agreement document for fabrication of steel parts. **b**. **An amount up to 30% of quoted price shall be paid (40% of the mobilization advance will be deducted) within 30 days** after receipt of the Progress Report with Quality Assurance (QA) documentation from the Contractor and Civil Work Inspection Form issued by Employer's Engineer certifying that the camp installation, layout, excavation, materials collection and construction of ***following foundations have been completed***. The QA documentation shall contain chronological photographs illustrating complete foundations of all anchorage blocks with staff and measuring tape (graduation on staff/measuring tape shall be easily readable on photographs) confirming the dimensions of the foundation pit (length, breadth, front and back height). i) All main foundations along with Piling and Construction of Foundation Block **c**. ***An amount up to 30% of quoted price shall be paid (40% of the mobilization advance will be deducted) within 30 days*** after submission of the Inspection Certificate

	from Employer's Engineer and Quality Assurance Documents from the Contractor stating that the steel parts are fabricated according to the Employer's requirement and the standard specification. Inspection Certificate shall be issued by the Employer's Engineer. The payment shall be made only after all the fabricated steel parts are transported to the site and construction of bridge foundations mentioned in clause (b) or alternate to clause (b) shall be completed. **d**. ***An amount up to 20% of quoted price of each bridge of the package shall be paid (Remaining mobilization advance will be deducted) within 28 days*** after receipt of the Work Completion Report with Quality Assurance (QA) documentation from the Contractor and on recommendation of Site Engineers. Remaining 10% of the contract amount shall be paid within 28 days of Work Completion Certificate issued by the Employer's Engineer after final checking of the completed bridge provided the works are acceptable in all aspect. The QA documentation shall contain Album with chronological photographs and Work Records as prescribed in the Quality Control Scheme. The Album shall comprise the systematic photographs of all the construction activities from excavation up to the completion of the bridge confirming the layout of the bridge, quality of material used, dimensions of every structural element at each construction stage, details of the completed bridge components. **e.** In addition to conditions stipulated in above, the performance security and retention money shall be released only after maintenance period of 12 months upon issue of the final inspection report by the Employer's appointed authorized Engineer, if the bridge is still acceptable and withstand the maintenance period. Measurement book shall be filled up and signed by contractor's Engineer prior to submitting the application for payment under clause (a) to (d) above to the Employer. **The prevailing interest rate shall be 10%.**
GCC 53.1	The Contract ***is not*** subject to price adjustment, and the following information regarding coefficients ***does not*** apply. The coefficients and indices for adjustment of prices in Nepalese Rupees shall be as specified in the Table of Adjustment Data submitted by bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.6	Base Price of Construction Materials applicable for price adjustment shall be as per the Table of Adjustment Data submitted by Bidder together with the Letter of Price Bid which is approved by the Project manager and attached as Annex-1.
GCC 53.7	The Price Adjustment amount shall be limited to a maximum of : ***NA***
GCC 54.1	The proportion of payments retained is: 5 (five) percent.
GCC 55.1	The liquidated damages for the whole of the Works are 0.05 Percent of the final Contract Price (without VAT but including PS) per day. The maximum amount of liquidated damages for the whole of the Works is 10 Percent of the final Contract Price (without VAT but including PS).
GCC 56.1	The provision of bonus ***Not Applicable*** in the contract. If Applicable, the Bonus for the whole of the Works is 0.05 Percent of the final Contract Price (without VAT but including PS) per day. The maximum amount of Bonus for the whole of the Works is ***0.00%*** of the final Contract

	Price (without VAT but including PS).
GCC 57.1	The provision of Advance Payments ***"Applicable"*** in the contract. The Advance Payments shall be: ***20% percent of initial contract amount (without VAT but including PS)*** and shall be paid according to **GCC 49.1**.
GCC 57.3	Deductions from Payment Certificates will commence in the first certificate as stated **in GCC 49.1.**
GCC 57.4	Recover interest on the advance amount from the Contractor should be at a rate of **10 %**.
GCC 58.1	The Performance Security amount is: 5% of Bid Amount.
G. 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**
GCC 79.2	For the purpose of Country of Origin: "all Countries"
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

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 BDS/SCC]*** to you as your bid price ***Nepalese Rupees*** ..... ***[insert amount of contract price in figures and words including taxes]*** as corrected and modified in accordance with the Instructions to Bidders is hereby selected as substantially responsive evaluated bid closest to the Average Bid Price.

Authorized Signature: ……

Name: ... …….

Title: …….

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

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

Letter of Acceptance

[on letterhead paper of the Employer]

Date: ……..

To: ……***Name and address of the Contractor***……...

Subject: ……***Notification of Award***

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

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

Authorized Signature: ……...

Name and Title of Signatory: ……

Contract Agreement

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

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

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
   (a) the Letter of Acceptance;
   (b) the Letter of Bid;
   (c) the Addenda Nos ..... ***[Insert addenda numbers if any]***
   (d) the Special Conditions of Contract;
   (e) the List of Eligible Countries as per GCC,
   (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

Signed by……..
for and on behalf of the Employer in the presence of
Witness, Name, Signature, Address, Date

Witness, Name Signature, Address, Date List of Approved Subcontractors

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

Name of Subcontractors	Description of Works	Value/Percentage of subcontract

Performance Security

(On letterhead paper of the Bank)

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

Beneficiary: ..... ***[Insert Name and Address of Employer]*** …….....
Date: .....

Performance Guarantee No.:…….

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

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

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

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

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

……

Seal of Bank and Signature(s)

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

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

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

Advance Payment Security

(On letterhead paper of the Bank)

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

Beneficiary: ……***[Insert Name and address of employer]***

Date : ……

Advance Payment Guarantee No……..

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

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

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

(a) Used the advance payment for purposes other than the costs of mobilization in respect of the Works. Or

(b) .Has failed to repay the advance payment when it has become due and payable in accordance with the conditions of the contract, specifying the amount payable by the contractor.

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

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

……

Seal of Bank and Signature(s)

Note:

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

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

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

Retention Money Security

(On letterhead paper of the Bank)

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

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

Date: _____***[Insert date of issue]***

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

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

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

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

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

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

……

Seal of Bank and Signature(s)

Annex-1

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

[1] *The Guarantor shall insert the amount of the Retention Money.*

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

Table of Price Adjustment Data
[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**

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

Table of Price Adjustment Data
[GCC 53.6]

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

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

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