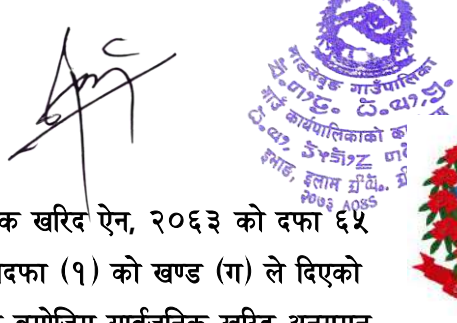


सार्वजनिक खरिद ऐन, २०६३ को दफा ६५
को उपदफा (१) को खण्ड (ग) ले दिएको
अधिकार बमोजिम सार्वजनिक खरिद अनुगमन
कार्यालयबाट जारी गरिएको

(Issued by the Public Procurement Monitoring Office in accordance with the authority given by clause (c) of Subsection (1) of Section 65 of the Public Procurement Act, 2063)

STANDARD BIDDING DOCUMENT

Procurement of Works (NCB)

Single Stage: One-Envelope (1S1E) Bidding Procedure

With Qualification Requirement

[For use in NCB Works up to NRs.20 Million]

Issued by:
Government of Nepal
Public Procurement Monitoring Office
Kathmandu
(Revised on September 2026)



Guidance Notes on the Use of

The Standard Bidding Document

This Standard Bidding Document for Procurement of Works, has been prepared by the Government of Nepal (GoN), Public Procurement Monitoring Office (PPMO) to facilitate Bidding Procedures used for the procurement of Works through National competitive bidding (NCB) procedure with qualification requirements (Procurement of value up to NRs.20 million) and is applicable to all the Public Entities as defined in the Public Procurement Act, 2063.

Guidance notes in the Standard Bidding Document within the left square bracket and right square bracket and guidance footnotes are intended as information for preparing the bidding documents and hence should be deleted in the final document.

This document has 9 Sections, of which Section I (Instructions to Bidders) and Section VIII (General Conditions of Contract) must not be altered or modified under any circumstances. The Invitation for Bid (IFB) is a copy for advertisement that provides relevant and essential information to help the Bidders to decide whether or not to participate in the particular bidding process; this is provided in the Biding Document for information only.

The Procuring Entity should provide its specific needs in the Bid Data Sheet (BDS), the Special Conditions of Contract (SCC) and the detailed requirements of the procurement in the Works Requirements.

This Standard Bidding Document, when properly completed should provide all the information that a Bidder needs in order to prepare and submit a bid. This should also provide a sound basis on which a Procuring Entity can fairly, transparently and accurately carry out evaluation of the Bids received from the bidders.

The Procuring Entity, before publishing the Invitation for Bids, should identify and approve from the competent authority the procurement requirements, its technical features, and cost estimate. Furthermore, the Procuring Entity should keep in mind the availability of the budget and possible slicing and packaging of the procurement requirements.

If any amendments on Public Procurement Act, 2063 or Public Procurement Regulation, 2064 are made, the Procuring Entity shall incorporate such amendments when preparing a particular Bidding Document.

Brief description of different sections of the Standard Bidding Document and how a Procuring Entity should use these when preparing a particular Bidding Document is detailed below:

SECTION I

Instructions to Bidders (ITB)

This Section provides relevant information to help the Bidders to prepare their Bids. Information is also provided on the submission, opening, and evaluation of Bids and on the award of Contract.

The Instructions to Bidders (ITB) specify the procedures that regulate the bidding process. The ITB contain standard provisions that have been designed to remain unchanged and to be used without modifying their text. The ITB clearly identify the provisions that may need to be specified for a particular bidding process and require that such specification be introduced through the BDS.

The Instructions to Bidders are not a Contract document and, therefore, are not a part of the Contract.

SECTION II

Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) contains information and provisions that are specific to each bidding process. The Employer must specify in the BDS provisions that supplement the information and requirements specified in Section I, Instructions to Bidders. All information shall be provided; no clause shall be left blank.

To facilitate the preparation of the BDS, the clauses in the BDS format are numbered with the same numbers as the corresponding ITB clauses. The instructions included in the BDS are to guide the Employer on how to enter all required information.

SECTION III

Evaluation and Qualification Criteria (EQC)

The purpose of the Evaluation and Qualification Criteria (EQC) is to specify the criteria that determine the substantially responsive bid closest to the Average Bid Price and the qualifications of the Bidder to perform the contract. The Procuring Entity shall prepare the EQC by taking into account the nature, quantity and or amount of the procurement and include it as a part of the Bidding Document. In determining the Evaluation and Qualification Criteria, the Procuring Entity shall follow the guidance incorporated on this section and shall not limit the competition or make onerous criteria.

The EQC is not a part of the Contract document.

SECTION IV
Bidding Forms

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

This Section provides the standard format for the Letter of Technical and Price Bid, table of price adjustment data, Bid Security Form, Technical proposal form, Bidder's information and qualification forms to be submitted by the Bidder.

SECTION V
Works Requirements

This section contains the volumes of information that describe the Works to be constructed and includes Specification, the Drawings, and supplementary information that describe the Works to be procured Personnel Requirements and Equipment Requirements.

SECTION VI
Bill of Quantities (BOQ)

This Section provides estimated information on the itemized quantities in sufficient detail to distinguish between the different classes of Works to be performed by the bidder and enable to the Bidder to prepare priced bill of quantities efficiently and accurately.

SECTION VII
General Conditions of Contract (GCC)

The GCC contain standard provisions that have been designed to remain unchanged and to be used without modifying their text. This Section provides the General Conditions of Contract that will apply to the Contract for which the Biding document is issued. The GCC clearly identify the provisions that may normally need to be specified for a particular bidding process and require that such information be introduced through the SCC.

SECTION VIII

Special Conditions of Contract (SCC)

The contents of this Section supplement Section VII: General Conditions of Contract. The Special Conditions of Contract shall be prepared by the Procuring Entity.

The Special Conditions of Contract (SCC) contain provisions that the GCC require be specified for a particular bidding process. The Employer should include at the time of issuing the Bidding Document, all information that the GCC indicate shall be provided in the SCC. No SCC Clause should be left blank.

To facilitate the preparation of the SCC, the Clauses in the SCC format are numbered with same numbers as the corresponding GCC Clauses. The instructions included in the SCC are to guide the Employer to provide the required information.

The SCC is a part of the Contract Document; therefore, the Procuring Entity shall provide the information in appropriate manner as indicated in the SCC.

SECTION IX

Contract Forms

This Section contains the Sample format for letter of intent, Letter of Acceptance, Contract Agreement Form, the forms for Performance Security, Advance Payment Security and Retention Money Security.

BIDDING DOCUMENT

for

THE PROCUREMENT OF

Construction of Shanti Marga Premix Road in Mangsebung-6

National Competitive Bidding (NCB)

Single-Stage: One-Envelope (1S1E) Bidding Procedure

With Qualification Requirement

[For use in NCB Works up to NRs.20 Million]

Mangsebung Rural Municipality

Office of the Rural Municipal Executive

Ivang, Ilam

Koshi Province, Nepal

Issued on: ***Oct. 16, 2026 at 00:00 (Ashoj 30, 2083)***

Issued to: ***All Eligible National Competitive Bidders (NCB)***

Invitation for Bids No.: ***MRM/NCB/W-01/2083/084***

Contract Identification No.: ***MRM/NCB/W-01/2083/084***





Abbreviations

BD ... . Bidding Document

BDF ... . Bidding Forms

BDS ... . Bid Data Sheet

BOQ... . ..... Bill of Quantities

COF ... . Contract Forms

DP... . ..... Development Partners

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

e-GP…….Electronic Government Procurement

ELI ... ... Eligibility

EQC ... . Evaluation and Qualification Criteria

EXP ... . Experience

FIN ... ... Financial

GCC ... . General Conditions of Contract

GoN[1] ... . Government of Nepal

ICC... . ..... International Chamber of Commerce

IFB ……. Invitation for Bids

ITB... . ..... Instructions to Bidders

JV ... . Joint Venture

LIT ... ... Litigation

NCB... . ..... National Competitive Bidding

PAN ... . Permanent Account Number

PPA ... . Public Procurement Act

PPMO... . ..... Public Procurement Monitoring Office

PPR ... . Public Procurement Regulations

PL ... . Profit & Loss

PS …….. Provisional Sum

SBD ... . Standard Bidding Document

SCC ... . Special Conditions of Contract

TS ... . Technical Specifications

VAT ... . Value Added Tax

WRQ ... ... Works Requirements

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

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Invitation for Bids

Construction of Shanti Marga Premix Road in Mangsebung-6

Mangsebung Rural Municipality

Office of the Rural Municipal Executive

Ivang, Ilam Koshi Province, Nepal

Contract Identification No:-**MRM/NCB/W-01/2083/084**

Date of publication: **Oct. 16, 2026 at 00:00 (Ashoj 30, 2083)**

1. ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** has allocated funds or received a loan/credit/grant from ***GoN*** towards the cost of Construction of Shanti Marga Premix Road in Mangsebung-6 and intends to apply part of the funds to cover eligible payments under the Contract for **MRM/NCB/W-01/2083/084.** Bidding is open to all eligible Nepalese Bidders. The estimated amount for the works is **NRs. 17416527.43** (without VAT & Contingency but including PS).

2. ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** invites sealed bids or electronic bids from eligible bidders for the construction of Construction of Shanti Marga Premix Road in Mangsebung-6 under National Competitive Bidding procedures. Only eligible bidders with the following key qualifications should participate in this bidding:

Minimum Work experience of similar size and nature: ***Bituminous Surface Road Works (OGPS,OGPC,DBST, Asphalt Concrete or Other Technical Comparable Bituminous Surfacing Works) within Last 10 Years.***

3. Eligible Bidders may obtain further information and inspect the Bidding Documents at the office of ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** or may visit **mansebungmun.gov.np.**.

4. A complete set of Bidding Documents may be purchased from the office ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** and the office ***Mangsebung Rural Municipality, Ward No.2 Office.*** by eligible Bidders on the submission of a written application, along with the copy of company/firm registration certificate, and upon payment of a non-refundable fee of **Rs.3000.00** till **2083/07/20 12.00 Noon.** in the account as specified below.

Name of the Bank: **Citizens Bank International Ltd, Ilam**
Name of Office: **Mangsebung Rural Municipality, Ivang,**
Ilam Office Code no.: 036518
Office Account no.: 0690100000001202 **(Mangseybung Antarik Rajaswa Khata)**
Bid Documenets Fee (non-refundable): **3000/- (Three thousand only)**
Rajaswa (revenue) Shirshak no.: 14229

5. Pre-bid meeting shall be held at ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** at 1:00 pm ***2083/07/16.***

6. Sealed bids must be submitted to the ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam*** by hand/courier **before 12:00 Noon on 2083/07/20.** Bids received after this deadline will be rejected.

7. The bids will be opened in the presence of Bidders' representatives who choose to attend **14:00 pm on 2083/07/20** at the ***Mangsebung Rural Municipality, Office of the rural municipal executive, Koshi Province, Ivang Ilam.*** Bids must be valid for a period of 90 days from the bid submission deadline and must be accompanied by a bid security or scanned copy of the bid security in .pdf format in case of e-bid,

amounting to a minimum of **NRS. 5,88,000 /- *with VAT and Contingencies including PS,*** which shall be valid for 30 days beyond the validity period of the bid ***i.e. 2083/11/21.***

7. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid and bid security shall remain the same as specified for the original last date of bid submission.

Part – I: BIDDING PROCEDURES





Section I. Instruction to Bidders

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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 The Government of Nepal (GoN) requires that the 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 this context, the Employer; (a) defines, for the purposes of this provision, the terms set forth below as follows: (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. (iv) "Obstructive practice" means: (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 GoN/DP 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 sub-clause 3.5 below. (b) will reject bid(s) if it determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
	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 4.11. (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 27.1. (h) a Bidder changes the prices or substance of the bid while providing information pursuant to ITB 27.1.
	3.4 A bidder declared blacklisted and ineligible by the GoN, Public Procurement Monitoring Office (PPMO), by a competent authority under the prevailing law for failure to repay a loan disbursed by a bank or financial institution, and/or the DP in case of DP funded project, shall be ineligible to bid for a contract during the period of time determined by the GoN, PPMO, the competent authority and/or the DP.
	3.5 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.
	3.6 DP Funded: In pursuance of the fraud and corruption policy, the DP. (a) will reject a proposal if it determines that the bidder recommended for award has directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question; (b) will cancel the portion of the loan/ credit/ grant allocated to a contract if it determines at any time that representative(s) of the GoN or of a

	beneficiary of the fund engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the GoN having taken timely and appropriate action satisfactory to the DP to remedy the situation.
	3.7 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.
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 qualification requirement of the parties to the JV shall be as specified in Section III Evaluation and Qualification 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. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process, if: (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 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. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the party is involved. However, this does not limit the inclusion of the same sub-Contractor in more than one bid; or (f) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Contract

	that is the subject of the Bid; or (g) a Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Employer as Engineer for the Contract. (h) a Bidder that has a close business or family relationship with a professional staff of the Procuring Entity.
	4.4 A firm that is under a declaration of ineligibility by the GoN/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 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.
	4.8 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.
	4.9 The bidder shall meet the eligibility criteria specified in section III (Evaluation and Qualification Criteria) of bid document.
	4.10 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.
	4.11 For the purpose of ITB 4.10 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 **the BDS** above and all expenditures under the Contract will be limited to such materials, equipment, and services. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.
	5.2 For purposes of ITB 5.1 above, "origin" means the place where the materials and equipment are mined, grown, produced or manufactured, and from which the services are provided. Materials and equipment are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that differs substantially in its basic characteristics or in purpose or utility from its components.
B. Contents of Bidding Documents	
6. Sections of Bidding Document	6.1 The Bidding Document consist of Parts I, II, and III, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8. PART I Bidding Procedures Section I Instructions to Bidders (ITB) Section II Bid Data Sheet (BDS) Section III Evaluation and Qualification Criteria (EQC) Section IV Bidding Forms (BDF) 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 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. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.
7. Clarification of	7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer's address

Bidding Document, Site Visit, Pre-Bid Meeting	**indicated in BDS** or raise any question or curiosity during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer shall be required to make available as soon as possible the answer to such question or curiosity in writing to any request for clarification, provided that such request is received as mentioned in ITB 7.5. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 22.2.
	7.2 The Bidder is encouraged 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.**
	7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting.
	7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
8. Amendment of Bidding Document	8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addendum or several addenda..
	8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
	8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB 22.2.

	However, the time available to submit bids shall not be less than five 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 Schedules, in accordance with ITB 12 and 14, or as stipulated in the BDS; (c) Bid Security, in accordance with ITB 19; (d) alternative bids, at Bidder's option and if permissible, in accordance with ITB 13; (e) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2; (f) documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the Contract; (g) Technical Proposal in accordance with ITB 16; (h) In the case of a bid submitted by a JV, the JV agreement, or letter of intent to enter into a JV including a draft agreement, indicating at least the parts of the Works to be executed by the respective partners; (i) Table of Price Adjustment (if applicable); and (j) any other required documents, which is not against the provision of Procurement Act/Regulation/Directives and Standard Bidding Document issued by PPMO as specified in the **BDS**.
	11.2 The Bidder is solely responsible for the authenticity of the documents submitted by the Bidder.
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 4 (Bidding Forms), if so provided. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
13. Alternative Bids	13.1 Unless otherwise indicated in the BDS, alternative bids shall not be considered.

	13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the BDS, as will the method of evaluating different times for completion.
	13.3 When specified in the BDS pursuant to ITB 13.1, and subject to ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the Bidding Document must first price the Employer's design as described in the Bidding Document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the evaluated Bidder whose Bid Price is closest to the Average Bid Price conforming to the basic technical requirements shall be considered by the Employer.
	13.4 When specified in the BDS, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified in the BDS and described in Section V (Works Requirements). The method for their evaluation will be stipulated in Section III (Evaluation and Qualification Criteria).
14. Bid Prices and Discounts	14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Schedules shall conform to the requirements specified below.
	14.2 The Bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section IV (Bidding Forms). In case of Unit Rate Contracts, the Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.
	14.3 The price to be quoted in the Letter of Bid shall be the total price of the Bid, excluding any discounts offered.
	14.4 Unconditional discounts, if any, and the methodology for their application shall be quoted in the Letter of Bid, in accordance with ITB 12.1.
	14.5 If so indicated in ITB 1.1 and ITB 32.4, bids are invited for individual Contracts or for any combination of Contracts (packages). Bidders wishing to offer any price reduction for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 14.4, provided the bids for all Contracts are submitted and opened at the same time.
	14.6 Unless otherwise provided in the **BDS** and the Conditions of Contract, the prices quoted by the Bidder shall be fixed. If the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Table of Adjustment Data in Section IV (Bidding Forms) and the Employer may require the Bidder to justify its proposed indices and weightings. Non-compliance of the data stipulated by the bidder in Tables of Adjustment

	Data with the requirements specified in Section IV (Bidding Forms) shall not be grounds for bid rejection and such non-compliance will be subject to clarification and rectification during bid evaluation process, prior to contract award.
	14.7 The bidder is subject to local taxes such as VAT, social charges or income taxes on nonresident international personnel, and also duties, fees, levies on amounts payable by the employer under the Contract. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the Bidder.
15. Currency of Bid and Payment	15.1 The currency of the bid and payment shall be in Nepalese Rupees.
16. Documents Comprising the Technical Proposal	16.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
17. Documents Establishing the Qualifications of the Bidder	17.1 To establish its qualifications to perform the Contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section IV (Bidding Forms).
18. Period of Validity of Bids	18.1 Bids shall remain valid for the period specified in the **BDS.** The bid validity period shall start from the bid submission deadline as prescribed by the Employer in accordance with ITB 22.1. If the prescribed bid submission deadline date falls on a government holiday, then the next working day shall be considered as the bid submission deadline date. In such case the validity period of the bids shall be considered from the original bid submission deadline date. In the case of electronic bid submission, if any technical issue arises in the handling of the e-GP system, the PPMO may extend the deadline for bid submission. However, the validity period of the bids shall still be counted from the original bid submission deadline. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.
	18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with ITB 19, it shall also be extended 30 days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its Bid and to include any additional conditions against the provisions specified in Bid Documents.

19. Bid Security	19.1 The Bidder shall furnish as part of its bid, in original form, a bid security as specified in the **BDS**. In case of e-submission of bid, the Bidder shall upload scanned copy of Bid security letter at the time of electronic submission of the bid. The Bidder accepts that the scanned copy of the Bid security shall, for all purposes, be equal to the original. The details of original Bid Security and the scanned copy submitted with e-bid should be the same otherwise the bid shall be non-responsive.
	19.2 The bid security shall be, at the Bidder's option, in any of the following forms: (a) an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal or; (b) a cash deposit voucher in the Employer's Account as specified in **BDS.** In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV (Bidding Forms) or in another Form acceptable to the employer. The form must include the complete name of the Bidder. The bid security shall be valid for minimum thirty (30) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2. A bid security valid for a shorter period shall be rejected by the Employer as nonresponsive. 19.3 The bid security issued by any foreign Bank outside Nepal must be counter guaranteed by a Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in Nepal. 19.4 Any bid not accompanied by an enforceable and substantially compliant bid security shall be rejected by the Employer as nonresponsive. In case of e-Submission, if the scanned copy of an acceptable Bid Security letter is not uploaded with the electronic Bid, then the Bid shall be rejected. 19.5 The public entity shall return the bid securities except those that are to be forfeited as per ITB 19.6 to the respective bidders within three (3) days after the successful bidder has furnished the required performance security and signed the Contract Agreement pursuant, to ITB 38.1 and ITB 39.1. 19.6 The bid security shall be forfeited if: (a) a Bidder requests for withdrawal or modification of its bid, except as provided in ITB 18.2: (i) during the period of bid validity specified by the Bidder on the 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 27.1; (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 32.5 and

	ITB 38.1; or (ii) sign the Contract in accordance with ITB 39.1; or (iii) accept the correction of arithmetical errors pursuant to ITB 31.1; (e) if the bidder fails to inform about the saturation of maximum number of contracts as per ITB 4.10. 19.7 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.
20. Format and Signing of Bid	20.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB 11 and clearly mark it ORIGINAL". Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE". In addition, the Bidder shall submit copies of the bid in the number specified in the **BDS**, and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail. In case of e-submission of bid, the Bidder shall submit his bid electronically in PDF or web forms files as specified in ITB Clause 21.1(b), If a Bidder submits both the electronic bid and a bid in hard copy within the bid submission deadline, then the submitted Bids shall be accepted for evaluation provided that the facts and figures in hard copy confirm to those in electronic bid. If there is any major discrepancy in fact and figures in the electronic bid and bid in hard copy, it shall be treated as two separate bids from one Bidder and both the Bids shall be disqualified, as per ITB Clause 4.3 (e). 20.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un amended printed literature, shall be signed or initialed by the person signing the bid. 20.3 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.

D. Submission and Opening of Bids	
21. Sealing and Marking of Bids	21.1 Bidders may always submit their bids by mail or by hand or by courier. When so specified in the **BDS**, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows: (a) Bidders submitting bids by mail, by hand or by courier i. Bidders shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL", "ALTERNATIVE" and "COPY." 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 22.1**;

(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) Electronic Bid Submission Procedures: Bidders submitting Bids electronically shall follow the electronic bid submission procedure specified in this clause as follows:

i. For e-submission, the bidder is required to register in the e-GP portal https://www.bolpatra.gov.np. for downloading and submitting the bid electronically.

ii. Interested bidders may either purchase the bidding documents from the employer's office as specified in the invitation for bid (IFB) or bidders registered in the e-GP portal of PPMO may download the bidding document from http://www.bolpatra.gov.np after login.

iii. The bidder shall then prepare/fill the documents and forms included in the issued bid documents or the downloaded bid documents from the e-GP portal of PPMO -

http://www.bolpatra.gov.np. as applicable. The required documents and forms shall be prepared in PDF form and/or shall be filled in the web forms in the e-GP system as specified below.

S. N.	Document	Requirement	Remarks
1	Letter of Bid	Mandatory	PDF/Web Forms
2	Bid Security / Bank Guarantee	Mandatory	PDF
3	Company / Firm registration Certificate	Mandatory	PDF
4	VAT and PAN registration Certificate	Mandatory	PDF
5	Business Registration Certificate (Licence)	Mandatory	PDF
6	Tax Clearance Certificate / Tax return submission evidence / evidence of time extension	Mandatory	PDF
7	Power of Attorney of	Mandatory	PDF

	Bid signatory		
8	Business Registration Certificate	Mandatory;	PDF
9	Joint venture agreement	Mandatory	Mandatory in case of JV Bids Only
10	Qualification Information	Mandatory	Web Forms (Experience, Turnover, etc.)
11	Applicable Price Adjustment Table	Mandatory; If applicable	Web Forms
12	Completed BOQ	Mandatory	Web Forms
12	Additional documents specified in ITB 11.1 (j)	Mandatory (if any)	PDF

Note:

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

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

iv. The Bidder shall then upload the PDF bid files and submit the complete bid online through e-GP portal of PPMO-http://www.bolpatra.gov.np within the specified date and time.

v) Bidders are advised to download the bid submission report to ensure that all the documents/ files are up to date and complete.

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

aa) The e-submitted bids must be readable through open standards interfaces. Unreadable and or partially submitted bid files (not complying as per ITB Clause 21.1(d) shall be considered incomplete and rejected for further bid evaluation.

bb) In addition to electronically submitted PDF files/web forms, the Bidder shall be required to submit original bid security letter/ documents and clarifications as specified in ITB Clause 27. If a bidder does not submit the original Bid security letter and requested documents and or clarifications within the specified time limit then the bid shall not be considered for further evaluation.

cc) If major discrepancy is found between the electronically submitted PDF bid files and the documents/ clarifications provided by the Bidder as per ITB Clause 27, then the bid shall not be considered for further evaluation.

dd) The facility for submission of bid electronically through e-submission is to promote transparency, non-discrimination,

	equality of access, and open competition in the bidding process. The Bidders are fully responsible to use the e- submission facility properly in e-GP portal of PPMO- http://www.bolpatra.gov.np as per specified procedures and in no case the Employer shall be held liable for Bidder's inability to use this facility. ee) When a bidder submits electronic bid through the PPMO e-GP portal, it is assumed that the bidder has prepared the bid by studying and examining the complete set of the Bidding documents including specifications, drawings and conditions of contract. ff) Bidders who submit electronic bid should deposit the bidding document fee as specified in IFB and upload the scan copy (in pdf format) of the deposit voucher at the time of bid submission. The deposited amount shall be verified by the Employer during the bid evaluation process. The submitted Bid shall be non-responsive and shall not be evaluated if the cost for bidding document is not deposited as specified in the IFB.
22. Deadline for Submission of Bids	22.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the **BDS.** In case of e-submission, the standard time for e-submission is 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. 22.2 The Employer may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
23. Late Bids	23.1 The Employer shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any bid received by the Employer after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.
24. Withdrawal, and Modification of Bids	24.1 A Bidder may withdraw, or modify its bid after it has been submitted 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 20.2 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 20 and ITB 21,and in addition, the respective envelopes shall be clearly marked "**WITHDRAWAL", "MODIFICATION**;" and (bb) received by the Employer twenty-four hour hours prior to the deadline prescribed for submission of bids, in accordance with ITB 22. ii) E-submitted bids. a) Bidder may submit modification or withdrawal prior to the

	deadline prescribed for submission of bids through e-GP system by using the forms and instructions provided by the system. Once a Bid is withdrawn, bidder will not be able to submit another bid for the same bid. b) Withdrawal and modification of bids through hard copy shall not be considered in case of e-submitted bids 24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders after completion of the bid opening. 24.3 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. 24.4 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.24.5 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. 24.5 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.
25. Bid Opening	25.1 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 and anyone who choose to attend. 25.2 The Employer shall download the e-submitted bid files. The e-procurement system allows the Employer to download the e-submitted bid files (report) only after bid opening date and time after login simultaneously by at least two members of the Bid opening committee. 25.3 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. 25.4 Thereafter, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be Permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding bid. No 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.
	25.5 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 23.1. 25.6 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	
26. Confidentiality	26.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids and recommendation of Contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders. 26.2 Any attempt by a Bidder to influence the Employer in the evaluation of the bids or Contract award decisions may result in the rejection of its bid. 26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it may do so in writing.
27. Clarification of Bids	27.1 To assist in the examination, evaluation, and comparison of the bids, and qualification of the Bidders, 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 31. 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. 27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Employer's request for clarification, its bid shall be rejected.
28. Deviations, Reservations, and Omissions	28.1 During the evaluation of bids, the following definitions apply: (a) "Deviation" is a departure from the requirements specified in the Bidding Document;

	(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.
29. Determination of Responsiveness	29.1 The Employer's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB11. 29.2 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. 29.3 The Employer shall examine the technical aspects of the bid submitted in accordance with ITB 16, Technical Proposal, in particular, to confirm that all requirements of Section V (Works Requirements) have been met without any material deviation, reservation or omission.
	29.4 If a bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission. 29.5 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation.
30. Nonconformities, Errors, and Omissions	30.1 Provided that a bid is substantially responsive, the Employer may waive any non-conformities in the bid. 30.2 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. 30.3 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 may be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the methods indicated in Section III (Evaluation and Qualification Criteria). 30.4 If minor discrepancies are found such as in technical specification,

	description, feature which does not make the bid to be rejected, then the cost, which is calculated to the extent possible due to such differences, shall be included while evaluating the bid. 30.5 If the value of such non-conformities is found to be more than fifteen percent of the quoted amount of the bidder on account of minor discrepancies pursuant to ITB 30.4, such bid shall be considered ineffective in substance and shall not be involved in evaluation.

31. Correction of Arithmetical Errors	31.1 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.
	31.2 If a Bidder does not accept the correction of arithmetical errors, its bid shall be disqualified and its bid security shall be forfeited.
32. Evaluation of Bids	32.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted. 32.2 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 31.1; (c) adjustment due to discounts offered in accordance with ITB 14.4; (d) adjustment for nonconformities in accordance with ITB 30.3; (e) application of all the evaluation factors indicated in Section III (Evaluation and Qualification Criteria). If the evaluated Bid Price of the Bidder is more than 30 (thirty) percent below or substantially higher than the cost estimate, the Employer shall reject the Bid as non-responsive. 32.3 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. 32.4 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 Qualification Criteria). 32.5 If the bid for a Unit Rate Contract, evaluated as per ITB 33.1, is front-loaded or has quoted abnormally high rate for any item believing that the item was underestimated, the Employer **shall** require the Bidder to provide clarification along with detailed rate analysis, for any or all items of the Bill of Quantities as per ITB 27.1. The rate analysis submitted shall be analyzed and compared against prevailing norms and rates, on the basis of the work execution methodology, technology, and management methods specified by the bidder. If the clarification is deemed unsatisfactory, the Employer shall require that the amount of the performance security be increased at the expense of the Bidder as **specified in BDS**. 32.6 In case of e-submission bids, the Employer evaluates the bid on the basis of the information in the electronically submitted bid files. If the Bidder cannot substantiate or provide evidence to establish the information provided in e-submitted bid through documents/ clarifications as per ITB Clause 27.1, the bid shall not be considered for further evaluation. 32.7 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. 32.8 If no agreement can be reached as per ITB 32.7, the employer shall cancel the procurement proceedings.
33. Comparison of Bids	33.1 The Employer shall compare all substantially responsive bids in accordance with ITB 32.2. 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.
	33.2 While evaluating the Bid Price as per ITB 33.1, 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.
34. Qualification of the Bidder	34.1 The Employer shall determine to its satisfaction whether the Bidder that is selected as per ITB 32.7 and ITB 33 and substantially responsive bid meets the qualifying criteria specified in Section III (Evaluation and Qualification Criteria).

	34.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17.1. 34.3 An affirmative determination of qualification shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Employer shall proceed to the next Bidder whose Bid Price is closest to the previously determined Average Bid Price to make a similar determination of that Bidder's qualifications to perform satisfactorily.
35. Employer's Right to Accept Any Bid, and to Reject Any or All Bids	35.1 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.
	35.2 The public entity shall give notice of the rejection of bids or the cancellation of the procurement proceedings pursuant to ITB 35.1, along with the reasons for such rejection or cancellation, to all bidders participating in the bid.
	35.3 Where any bidder requests, within thirty (30) days of the communication of the notice pursuant to ITB 35.2, 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	
36. Award Criteria	36.1 The Employer shall award the Contract to the Bidder whose Bid Price is selected as per ITB 32 and ITB 33 and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
37. Letter of Intent to Award the Contract / Notification of Award	37.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 36.1 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.
	37.2 After issuance of the notice under ITB 37.1 if the concerned bidder provides information pursuant to ITB 4.11 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 36.1 and notify accordingly as per ITB 37.1.
	37.3 If no bidder submits an application pursuant to ITB 40 within a period of seven days of the notice provided under ITB 37.1, the Employer shall, accept the bid selected in accordance with ITB 36.1 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.
	37.4 After communicating letter of acceptance under ITB 37.3, if the concerned bidder provides information pursuant to ITB 4.11 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 36.1 and shall issue the notice accordingly as per ITB 37.1. In such case bid security of the rejected bidder shall not be forfeited.
38. Performance Security	38.1 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 (without VAT but including PS) 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 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 in Nepal. .
	38.2 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 36.1 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 37.
39. Signing of Contract	39.1 The Employer and the successful Bidder shall sign the Contract Agreement within the period as stated ITB 38.1.
	39.2 At the same time, the Employer shall affix a public notice on the result of the award on its notice board and make arrangement for causing such notice to be affixed on the notice board also of the ***District Coordination Committee, District Administration Office, Provincial Treasury and Controller Office and District Treasury and Controller Office.*** The Employer may make arrangements to post the notice into its website, if it has; and if it does not have, into the website of the Public Procurement Monitoring Office, identifying the bid and lot numbers and the following information: (i) the result of evaluation of bid; (ii) date of publication of notice inviting bids; (iii) name of newspaper; (iv) reference number of notice; (v) item of procurement; (vi) name and address of bidder making contract and (viii) contract price.
	39.3 Within thirty (30) days from the date of issuance of notification pursuant to ITB 37.1 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.
	39.4 If the bidder whose bid is accepted fails to sign the contract as stated ITB 39.1, the Public Procurement Monitoring Office shall blacklist the bidder on recommendation of the Public Entity.
40. Complaint and Review	40.1 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 37.1 by the Public Entity, for review of the proceedings stating the factual and legal grounds.
	40.2 Late application filed after the deadline pursuant to ITB 40.1 shall not be processed.

	40.3 The chief of Public Entity shall, within five (5) days after receiving the application, give its decision with reasons, in writing pursuant to ITB 40.1: (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
ITB 1.1	The Employer is: **Mangsebung Rural Municipality, Ivang, Ilam**
ITB 1.1	*The number and identification of lots(contracts) / multiple contracts comprising this bidding process is:* **MRM/NCB/W-01/2083/084**
ITB 2.1	The name of the Project is: Construction of Shanti Marga Premix Road in Mangsebung-6. The implementing agency is: **Mangsebung Rural Municipality, Office of the Rural Municipal Executive, Ivang, Ilam**
ITB 4.1 (a)	Maximum number of partner in a joint venture shall be : ***3 (three)***
ITB 4.2	Eligible countries: ***Nepal***
ITB 4.10 & ITB 4.11	For GoN Funded: Maximum number of bidding process that a Bidder, and all parties constituting the Bidder can participate shall be :5
B. Bidding Document	
ITB 7.1	For clarification purposes only, the Employer's address is: Attention: Nawadip Rai Address: Mangsebung Rural Municipality, Ivang, Telephone: : Facsimile number:- 9869685100 Electronic mail address: mangsebung.ruralmun@gmail.com
ITB 7.4	**A pre bid meeting *shall be held on* Nov. 02, 2026 (Kartik 16, 2083).**
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: _____
ITB 11.1 (j)	The Bidder shall submit with its bid the following additional documents: 1. Company Registration Certificate.

	2. PAN/VAT Registration 3. Gha Barga Darta Ijajat Certificate 4. Tax Clearance Certificate for 2082/083 or Time Extension Certificate. ***5. Experience Certificate of Bituminous Surfacing Work.(OGPC,OGPS,DBST,Asphalt Concrete or Other Simillar Nature of Work)***
ITB 13.1	Alternative bids ***"shall not be"*** permitted.
ITB 13.2	Alternative times for completion ***"shall not be"*** permitted. If alternative times for completion are permitted, the evaluation method will be as specified in Section III (Evaluation and Qualification Criteria).
ITB 14.6	The prices quoted by the **"Bidder shall not be"** subject to adjustment during the performance of the Contract.
ITB 18.1	The bid validity period shall be: **90(Ninety) days.**
ITB 19.1	The Bidder shall furnish a bid security, from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal with a minimum of **NRs. *5,88,000/- with VAT including PS)]***, which shall be valid for 30 days beyond the validity period of the bid.
ITB 19.2 (b)	Account Name: Mangseybung Dharouti Khata Bank Name: Citizens Bank International Ltd. Bank Address: MANGSEYBUNG BRANCH Account Number: **0690100000029201**
ITB 20.1	In addition to the original of the bid, the number of copy/ies is/are: **N/A**
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall indicate: (a) The name and description of the documentation required to demonstrate the authority of the signatory to sign the Bid such as a Power of Attorney; and (b) In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
D. Submission and Opening of Bids	
ITB 21.1	Bidders shall have the option of submitting their Hard Copy bids ***by hand / by courier***
ITB 22.1	For bid submission purposes only, the Employer's address is: Attention: **Mangsebung Rural Municipality, Office of the Rural Municipal Executive** Address: **Mangsebung-2, Ivang , Ilam** **The deadline for bid submission is:** **Date : 2083/07/20 .Time:- 12:00 Noon**

ITB 25.1	The bid opening shall take place at: **Mangsebung Rural Municipality, Office of the Rural Municipal Executive** Address : **Mangsebung-2, Ivang , Ilam** **Date : 2083/07/20** **Time : *14:00 pm***
E. Evaluation and Comparison of Bids	
ITB 32.4	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 Qualification Criteria).
ITB 32.5	The amount of the performance security be increased by Eight (8) percent of the quoted bid price without VAT but including PS.



Section – III Evaluation and Qualification Criteria

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Section – III Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders by post-qualification exercise. GoN/DP requires bidders to be qualified by meeting predefined, precise minimum requirements. The method sets pass-fail criteria, which, if not met by the bidder, results in disqualification. In accordance with ITB 32 and ITB 34, 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 32.2 (a) - (e) the following criteria shall apply:

Note:

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

1.1 Adequacy of Technical Proposal

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

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

1.2 Multiple Contracts

Pursuant to Sub-Clause 32.4 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 32.4 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.

Qualification Criteria for Multiple Contracts:

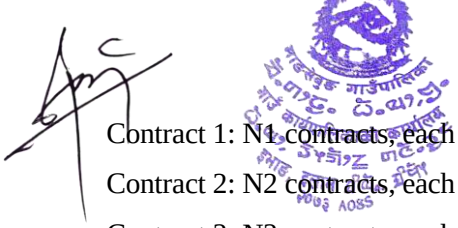
The criteria for qualification shall be the sum of the minimum requirements for respective individual contracts as specified under items 2.3.2, 2.3.3, 2.3.4 and 2.4.2b.

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

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

V is the minimum value of a single contract as per Note (2) of 2.4.2 Specific Construction Experience

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



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

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

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

----etc.

Or

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

1.3 In Case, other than Multiple Contracts

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

1.4 Completion Time

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

[Insert project specific requirements]

1.5 Alternative Technical Solutions

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

[Insert project specific requirements]

1.6 Quantifiable Nonconformities, Errors and Omissions

[Insert project specific requirements]

The evaluated amount of quantifiable nonconformities, errors and/or omissions shall be determined by ascertaining the price of such effect on an equal basis by adjusting the same to the quoted price of the bid. A bid having minor deviations and having no material deviation to cause any serious effect upon the scope, quality, characteristics, terms and conditions, performance or any other requirements stated in the bidding documents and acceptable to the Employer can be considered to be substantially responsive.

2. Qualification

2.1 Eligibility

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.1.1 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
2.1.2 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
2.1.3 UN Eligibility					
Not having been declared ineligible based on a United Nations resolution or Employer's country law, as described in ITB Sub-Clause 4.8.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid
2.1.4 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 4.10.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Letter of Bid, ELI-3

[2] 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 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 all types of foreign assistance

2.1.5 Other Eligibility					
Firm or Company Registration Certificate	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Business Registration Certificate (License	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
VAT and PAN Registration certificate ***(only for domestic bidders)***	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
Tax Clearance Certificate or Tax return submission evidence or evidence of time extension for the **F/Y 2082/083**.***(Only for domestic bidders)***	must meet requirement	not applicable	must meet requirement	not applicable	Document attachment
The Bidder shall have successfully completed bituminous surfacing road works involving application of bituminous binder and aggregate, such as OGPS, OGPC, DBST, Asphalt Concrete or other technically comparable bituminous surfacing works, within the last ten (10) years. No minimum contract value shall be prescribed for such experience.	must meet requirement	……	……	……	……

2.2 Pending Litigation

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.1.1 Pending Litigation					
All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more	must meet requirement by itself or as partner to past or existing JV	not applicable	must meet requirement by itself or as partner to past or existing JV	not applicable	Form LIT - 1

than **…… *(1)*…..** percent of the Bidder's net worth.					

Note:

(1) The percentage should normally be within the range of 50% to 100% of the Bidder's net worth.

2.3 Financial Situation

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.3.1 Historical Financial Performance					
Submission of audited balance sheets and income statements, for the last …..*(2)*…..years to demonstrate the current soundness of the Bidder's financial position. As a minimum, a Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 1 with attachments

Note:

*(2) The financial information provided by a Bidder should be reviewed in its entirety to allow a truly informed judgment, and the pass-fail decision on the financial position of the Bidder should be given on this basis. Balance sheet of the past **three to five years** period which shall be decided according to the nature of the work.*

2.3.2 Average Annual Construction Turnover					
Minimum average annual construction turnover of NRS …..*(3)*….. calculated as total certified payments received for construction contracts in progress or completed, within best three years out of last ten fiscal years.	must meet requirement	must meet requirement	must meet ……*(4)*…… of the requirement	must meet ……*(5)*…… of the requirement	Form FIN -2

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

Note:

(3) The amount stated should normally not be less than 1.5 x V/T, the estimated annual turnover in the subject contract based on a straight-line projection of the Engineer's estimated cost (V), over the contract duration (T) in year. The Engineer's estimated cost (V) is taken without VAT and contingencies but including provisional sum .Contract duration less than one year shall be considered one year. The multiplier of 1.5 may be reduced up to1 (one) in accordance with the size, nature and complexity of contracts.

(4) Usually not less than 25 %

(5) Usually not less than 40 %

2.3.3 Financial Resources					
Using Forms FIN - 3 and FIN - 4 in Section IV (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets[3], unencumbered real assets, and other financial resources, (other than any contractual advance payments) to meet the cash-flow requirement of **… *(6)*…..**	must meet requirement	must meet requirement	must meet **….*(7)*….** of the requirement	must meet **….*(8)*….** of the requirement	Form FIN - 3

Note:

(6) Construction cash flow requirement for a number of months (to the nearest half-month), determined as the total time needed by the Employer to pay a contractor's invoice, allowing for (a) the actual time consumed for construction, from the beginning of the month invoiced, (b) the time needed by the Project Manager to issue the monthly payment certificate, (c) the time needed by the Employer to pay the amount certified, and (d) a contingency period of one month to allow for unforeseen delays. The total period should not exceed 5 months. The assessment of the monthly amount should be based on a straight-line projection of the estimated cash flow requirement over the particular contract period, neglecting the effect of any advance payment and retention monies, but including contingency allowances in the estimated contract cost.]

(7) Usually not less than 25 %

(8) Usually not less than 40 %

2.3.4 Required Bid Capacity					
The bidding capacity of the bidder should be equal to or more than the NRs... ***(9)*****…**…	must meet requirement	must meet requirement	must meet …… ***(10)*****…**…. of the requirement	must meet ……***(11)***…… of the requirement	Form FIN -4 and Form FIN - 5

Note

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

(10) Usually not less than 25 %

(11) Usually not less than 40 %

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



2.4 Experience

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
2.4.1 General Construction Experience					
Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the **last 10 years** prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP - 1

Note:

(12) Insert number of years in words and figures. The time period is normally 5 years , but may be reduced to not less than 3 years, according to the nature of works.

2.4.2 Specific Construction Experience					
(a) Contracts of Similar Size and Nature					
Participation as Prime contractor, management contractor, or subcontractor, in at least One (1) contract within the last ten (10) years, that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described; 1. OGPS 2. OGPC 3. DBST 4. Asphalt Concrete 5. Other Technically Comparable	must meet requirement	not applicable	not applicable	must meet requirement	Form EXP-2(a)

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

Note:

(13) Insert amount in Nepalese rupees, which is usually 40% (in above round figure in thousand) of the estimated value

(without VAT and contingencies but including provisional sum) of the subject contract.

(b) Construction Experience in Key Activities					
Participation as Prime contractor, management contractor, or subcontractor, within a last ten (10) years that have been successfully or substantially[a] completed, for the above or other contracts stipulated in 2.4.2 (a) above, a minimum annual production rate on construction experience in the following key activities: *[List activities indicating number or rate of production as applicable; for the key activity (ies) in the subject contract. The rates should be about 80% of the estimated annual production rates of the key activity(ies) in the subject contract as needed to meet the expected construction schedule with due allowance for adverse climatic conditions. Contract duration less than one year shall be considered one year for calculation of annual production rates.]*	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)

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

- *Under Criterion 2.4.2 (a), the specified requirements define the similarity of contracts, whereas the key activities or production rates to be specified under Criterion 2.4.2 (b) define the required capability of the Bidder to execute key components of the Works. There shall be no inconsistency or duplication of requirements between Criteria 2.4.2(a) and 2.4.2(b).*
- *For the rate of production, the rate of production shall be on the basis of the average during the entire contract period.*
- *Only the activities having weightage 10 percent or more of the total estimated amount that should be manufactured or built by contractor should be considered as key activities*
- *Key activities or production rates to be specified shall not restrict innovation and better quality.*
- *Key activities or production rates of different contracts for a particular duration can be added while evaluating*
- *While specifying key activities or production rates, it shall be assured and to be recorded by public entity so that sufficient bidders with required qualification are available in market for adequate competition*
- *Key activities or production rates to be specified shall be unambiguous e.g. environmental friendly, international/high standard, complex technology etc.*
- *While specifying Key activities or production rates, the similarity shall be based on the complexity, methods or technology to be adopted.*
- *The activities that can be sub-contracted or readily available in the market (e.g. lift, elevator, electrical works, special type of facilities etc.) shall not considered as key activities.*

Section – IV Bidding Forms

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

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Form EXP – 2(a): Specific Construction Experience 70

Form EXP – 2(b): Specific Construction Experience in Key Activities 71

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: ***[Insert Complete name of Employer]*** ……..

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8;

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

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

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

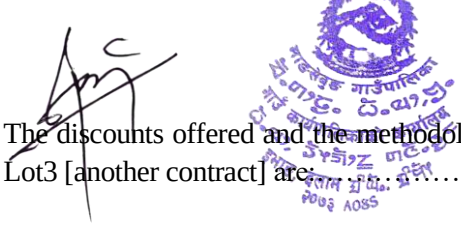
Or

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

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

Add following if Bidding Document provisions applicability of multiple contracts:

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



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

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

[Note:

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

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

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

(g) 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]; 2 **and meet the requirements of ITB 3.4 and ITB 3.5,**

(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, other than alternative offers submitted in accordance with ITB 13;

(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) *[**Use one of the two options as appropriate, "**We are not a government owned entity" **or** "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 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.

(n) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;

(p) 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.

(q) We declare that we have not yet secured five (5)[4] number of construction contract (in open competitive bidding) as described in ITB Sub-Clause 4.10.

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

(s) If awarded the contract, the person named below shall act as Contractor's Representative:

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

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

Signed ……...

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

Date ……....

[4] Note: Following Procurement of works contracts shall not be counted for this purpose
a) The works for which tender were invited or contracts accepted before 2078-12-03 B.S (March 17, 2022 A.D);
b) The works for which tender have been invited and contracts accepted after 2078-12-03 B.S (March 17, 2022 A.D) but the work acceptance report has been approved according to Rule 117 of PPR;
c) The works for which tender were invited or contracts acceptedunder all types of foreign assistance

Table of Price Adjustment Data[5]

[To be used if Price Adjustment is applicable as per GCC 44.1]

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

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

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

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

(c) Equipment usage:

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

or

"Fuel" Price fixed by Nepal Oil Corporation.

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

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

[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.

Table of Price Adjustment Data[6]

[To be used if Price Adjustment is applicable as per GCC 44.7]

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

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

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

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

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



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 **NRs**……...***[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 during the period of bid validity specified by the Bidder in the Form of Bid; or

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

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

(d) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the performance security, in accordance with the ITB;

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

(f) is involved in fraud and corruption in accordance with the ITB.

This guarantee will remain in force up to and including the date ……*[Insert number of days]*……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).

Technical Proposal Format

Personnel

Equipment

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Personnel

Form PER - 1: Proposed Personnel

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

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

* As listed in Section V (Work Requirements).

Form PER - 2: Resume of Proposed Personnel

The Bidder shall provide all the information requested below.

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

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

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

Equipment

Form EQP- 1: Proposed Equipment

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

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

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

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

Bidder's Information and Qualification Format

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Bidder’s Qualification

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

Form ELI - 1: Bidder’s Information Sheet

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

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

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

Form ELI - 3: Bidder's Running 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 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 tender were invited or contracts accepted under all types of foreign assistance

Form LIT - 1: Pending Litigation

Each member of a JV must fill in this form

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

Form FIN - 1: Financial Situation

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

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

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profit Before Tax			
Profit After Tax			

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

Form FIN - 2: Average Annual Construction Turnover

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

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

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

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

Form FIN - 3: Financial Resources

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

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

Form FIN – 4: Bid Capacity

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

Bid Capacity = [(5 x A) – B]

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

B = Annual Value of the existing commitments and works (ongoing) to be completed, calculated from **FIN-5.**

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

Total Bid Capacity:

Signature of Bidder

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

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

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

Signature of Bidder

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

Note 1: "B" shall be calculated as : $B = \sum \left[\frac{(e) \times (a)}{(f)} \right] x12$ **, If (f) is less than 12, then value of (f) shall be taken as 12.**

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

Form EXP – 1: General Construction Experience

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

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

Form EXP – 2(a): Specific Construction Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature			
Contract No…… of…..	**Contract Identification**		
Total Contract Amount	🗀 **NRS ……..**	**Status of the Contract:**	🗀 **Substantially Completed** 🗀 **Completed**
Award Date		**Completion Date /Substantially Completion Date**	
Role in Contract	🗀 **Contractor**	🗀 **Management Contractor**	🗀 **Subcontractor**
If Partner in a JV or subcontractor, specify participation of total contract amount	**Percent of Total**	**Amount**	
Employer's Name **Address** **Telephone/Fax Number** **E-mail**			
Description of the similarity in accordance with Criteria 2.4.2 (a) of Section III			
Note : ***The Employer should insert here contract size, complexity, methods, technology, or other characteristics as described in Section III (Evaluation and Qualification Criteria), Clause 2.4.2 (a) against which the bidder demonstrates similarity in the box on the right-hand-side.***			

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

Fill up one (1) form per contract.

Construction Experience in Key Activities			
Contract No…… of……..	**Contract Identification**		
Total Contract Amount	**🗀 NRS ……..**	**Status of the Contract:**	**🗀 Substantially Completed** **🗀 Completed**
Award Date		**Completion Date/Substantially Completion Date**	
Role in Contract	**🗀 Contractor**	**🗀 Management Contractor**	**🗀 Subcontractor**
If Partner in a JV or subcontractor, specify participation of total contract amount	**Percent of Total**	**Amount**	
Employer's Name **Address** **Telephone/Fax** **Number** **E-mail**			
Description of the similarity in accordance with Criteria 2.4.2 (b) of Section III			
Note: *The Employer should insert here production rate(s) for the key activity (activities) subject contract against which the bidder demonstrates in the box on the right-hand-side production rates achieved by him on previous contracts.*			

Part – II REQUIREMENTS

Section – V Works Requirements

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

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Scope of Work

[Insert brief scope of works.]

Specifications

Notes on the Specifications

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

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

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

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

[Insert Specifications]

Drawings

Note:

1. It is customary to bind the drawings in a separate volume, which is often larger than other volumes of the contract documents. The size will be dictated by the scale of the drawings, which must not be reduced to the extent that details are reduced illegible.

2. A simplified map showing the location of the Site in relation to the local geography, indicating major roads, posts, airports, and railroads, is helpful.

3. The construction drawings, even if not fully developed, must show sufficient details to enable bidders to understand the type and complexity of the work involved and the price the Bill of Quantities.

[Insert Drawings]

Supplementary Information

[Insert supplementary information if any]

Personnel Requirements

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

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

Equipment Requirements

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

No.	Equipment Type and Characteristics	Minimum Number Requirement
1.	Motor Grader	1
2.	Vibrator Roller	1
3.	Bitumin Boiler	1
4.		
5.		

Notes for Unit Rate Contracts:

Objectives

The objectives of the Bill of Quantities are

(a) To provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and

(b) When a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

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

Content

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

(a) Preamble;

(b) Work Items (grouped into parts);

(c) Day works Schedule;

d) Provisional Sums; and

(d) Summary.

Preamble

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

Work Items

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

Day work Schedule

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

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

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

Provisional Sums

[7] In lump sum contracts, delete "Bill of Quantities" and replace with "Schedule of Activities" throughout this section.

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

Summary

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

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

Preamble of Bill of Quantities

A. General

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Technical Specifications, and Drawings.

2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Project Manager and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.

3. For any item for which measurement is based on records made before or during construction the records shall be prepared and agreed between the Engineer and the Contractor. Should the Contractor carry out such work without the prior agreement of the Engineer, the Engineer may request the Contractor to carry out investigations to confirm the extent of the work and the quantity of work certified for payment shall be solely at the Engineer's discretion. The cost of any such investigation shall be borne by the Contractor.

4. The rates and prices bid in the priced Bill of Quantities shall, except as otherwise provided under the Contract, include all construction equipment, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.

5. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.

6. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.

7. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities. The Specification Clause references where given in the item description of the Bills of Quantities are for the convenience of bidders and generally refer to the principal relevant- specification clause but do not necessarily represent the whole of the specification requirements for the work required within the item. The presence of a Specification clause reference shall not in any way reduce the Bidders obligation to complete work in accordance with all the requirements of the Specification.

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

9. The method of measurement of completed work for payment shall be in accordance with the Specifications.

10. The abbreviations and symbols used in this Bill of Quantities are: ***[Insert as applicable]***

B. Day work Schedule

a) General

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

b) Day work Labor

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

2. The Contractor shall be entitled to payment in respect of the total time that labor is employed on day work, calculated at the basis rates entered by it in the " SCHEDULE OF DAY WORK RATES: 1 LABOUR". The rates for labor shall be deemed to cover all costs to the Contractor including (but not limited to) i) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances, ii) any sums paid to or on behalf of such labor for social benefits in accordance with Nepal law, iii) Contractor's profit, overheads, superintendence, liabilities and insurance and iv) charges incidental to the foregoing.

c) Day work Equipment

1. The Contractor shall be entitled to payments in respect of Constructional Plant already on site and employed on day work at the basis rental rates entered by him in the "SCHEDULE OF DAY WORK RATES:2 EQUIPMENT". The said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricant, and other consumables and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants also shall be included in the rate of the equipment and no separately payment shall be made for it.

2. In calculating the payment due to the Contractor for Constructional Plant employed on day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Project Manager, the travelling time from the part of the Site where the Construction Plant was located when ordered by the Project Manager to be employed on day work and the time for return journey there to shall be included for payment.

d) Day work Materials

1. The Contractor shall be entitled to payment in respect of materials used for day work (except for materials for which the cost is included in the percentage addition to labor costs as detailed heretofore), at the rates entered by him in the "SCHEDULE OF DAY WORK RATES: 3 MATERIALS" and shall be deemed to include overhead charges and profit as follows;

   (i) The rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc. and shall provide for delivery to store for stockpiling at the Site.

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

Provisional Sums

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

Bill of Quantities

Bill of Quantities

1 Provisional Sum

Sl. No.	Item Description	Unit	Quantity	Rate(NRs)	Rate in Words	Amount(NRs)
1	Provide insurance to permanent works and construction equipments and agains to work force and engineer's staff all complete	Job	1.0	60,000.00	Sixty thousand	60,000.00
2	Carry out additional tests for material and works as required and instructed by the Engineer.(GCC Clause No. 33.1)	Job	1.0	6,000.00	Six thousand	6,000.00
3	Providing and installation of project signboards with size of 1.8 x 1.2 m as per specification and instruction of engineer.	Job	1.0	3,500.00	three thousand five hundred	3,500.00
						69500

2 Construction work

Procument Item Details

Sl. No.	Item Description	Unit	Quantity	Rate(NRs)	Rate in Words	Amount(NRs)
1	Road way excavation in all types of soil and rocks including removal of stumps and other deleterious matter and disposal upto relevant lift and lead all complete as per drawing and technical specification.	Cumec	1705.75			
2	Earthwork excavation of foundation in ordinary soils of structures, including construction of shoring and bracing, removal of stumps and other deleterious matter and backfilling with approved Material as per Drawing and Technical Specifications. [Mechanical Means, depth upto 3m]	Cumec	3634.50			
3	Providing, laying, spreading and compacting embankment with roadway cutting material and compact to the required density as per Drawing and Technical Specifications. [Mechanical Means]	Cumec	1748.47			
4	Providing suitable material and Back filling behind abutment, wing wall and return wall using Locally available material all complete as per Drawing and Technical Specifications. [Manual Means without watering]	Cumec	65.06			

5	Providing, assmebling and laying mechanically woven heavily zinc coated, double twisted 100 mm X 120 mm hexagonal mesh type gabion structure (mesh wire 3 mm, selvage wire 3.9 mm, lacing wire 2.4 mm) for retaining earth including stretching; forming compartments; tying the sides and diaphragms with binding wire in each mesh; tying with bracing wires and tie wires; filling stone/boulder in gabion boxes/mattress including dressing, bedding, bonding and tying down the lid all complete as per specifications.	Cumec	210.00			
6	Providing, laying and levelling of dry stone soling works in the foundation all complete. (Old Norms)	Cumec	130.08			
7	Providing and laying Plum concrete (Boulder mixed concrete) as per Drawing and Specifications. [70% M15 concrete and 30% boulders/stones / Mechanical Means]	Cumec	240.00			
8	Providing and laying Stone Masonry work in cement mortar 1:4 in structure all complete as per drawing and Technical Specifications. [Random Rubble Masonry / in Structure / CS 1:4 Mortar]	Cumec	145.24			
9	Providing and laying of Plain / Reinforced Cement Concrete in Foundation complete as per Drawing and Technical Specifications. [PCC grade M15]	Cumec	126.72			
10	Providing and laying of a Geotextile filter between pitching and embankment slopes as per Drawing and Technical Specifications.	Sqm	184.00			
11	Providing and laying granular sub-base on prepared surface, mixing at OMC, and compacting to achieve the desired density, complete as per Drawing and Technical Specifications. [Mechanical Means]	Cumec	900.00			
12	Providing and laying Crusher Run Macadam on a prepared surface, spreading and mixing, watering and compacting to form a layer of Base Course as per Drawing and Technical Specifications. [Mix in place method, 45 mm down]	Cumec	900.00			
13	Providing and applying prime coat with hot bitumen (including cutter) on prepared surface of granular base including cleaning of road surface and spraying at specified rate as per Technical Specification. [Mechanical Means]	Ltr	5400.00			
14	Providing and applying tack coat with hot bitumen at specified rate on the prepared non-bituminous surfaces including cleaning as per Technical Speciation. [Mechanical Means]	Ltr	3600.0			

	Providing and laying close graded premix surfacing material composed of 13.2 mm to 0.09 mm aggregates using bitumen as wearing course on a previously prepared base including mixing in a suitable plant as per the Technical Specification and Drawings.	Cumec	60.0			
					Total	
Total of Procument Items						
Total Item Price						
VAT(13 %)						
Contingencies (2%)						
Grand Total						

Part – III CONDITIONS OF CONTRACT AND CONTRACT FORMS

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SECTION - VII

General Conditions of Contract

SECTION - VII

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.

A. General	
1. Definitions	1.1 Boldface type is used to identify defined terms. (a) The **Accepted Contract Amount** means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects. (b) The **Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events. (c) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid. (d) **Compensation Events** are those defined in GCC 41 hereunder. (e) The **Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with GCC 52.1. (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) **Day works** 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) 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. (u) **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. (v) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works. (w) **Party** means the Employer or the Contractor, as the context requires. (x) **SCC** means Special Conditions of Contract (y) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function. (aa) 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. (bb) **Retention Money** means the aggregate of all monies retained by the Employer pursuant to GCC 45.1. (cc) The **Site** is the area defined as such **in the SCC**. (dd) **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.
	(ee) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager. (ff) The **Start Date** is given **in the SCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates. (gg) 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. (hh) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works. (ii) A **Variation** is an instruction given by the Project Manager which varies the Works.

	(jj) 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. 2.4 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. 2.5 Without altering the basic nature or scope of work, the contract may be amended upon mutual written consent as per prevailing Public Procurement Law.
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. Project Manager's Decisions	4.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
5. Delegation	5.1 The Project Manager may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

6. Communications	6.1 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. A notice shall be effective only when delivered or on the Notice's effective date, whichever is later.
7. Subcontracting	7.1 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.** 7.2 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. 7.3 Before notifying the Employer as per GCC 7.2, 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. 7.3 Any subcontracting arrangement made in accordance with GCC 7.2 shall not relieve the Contractor of any of its obligations or liabilities under the Contract. 7.4 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 7.1 and/or GCC 7.2. 7.5 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 7.1 and/or GCC 7.2 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.
8. Other Contractors	8.1 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
9. Personnel and Equipment	9.1 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. 9.2 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.
10. Employer's and Contractor's Risk	10.1 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.
11. Employer's Risks	11.1 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. 11.2 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.
12. Contractor's Risks	12.1 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.
13. Insurance	13.1 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.
	13.2 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. 13.3 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. 13.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager. 13.5 Both parties shall comply with any conditions of the insurance policies.
14. Site Investigation Reports	14.1 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 Bidder.
15. Contractor to Construct the Works	15.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
16. The Works to Be Completed within intended Completion Date	16.1 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.
17. Design by contractor and Approval by the Project Manager	17.1 The contractor shall be responsible for the design of permanent works as specified **in SCC.** 17.2 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. 17.3 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. 17.4 The Project Manager's approval shall not alter the Contractor's responsibility for design of temporary works.
18. Safety, Security and Protection of the Environment	18.1 The Contractor shall, throughout the execution, and completion of the works and remedying of any defects therein: a. Have full regard for the safety of all persons entitled to be upon the site and keep the site (so as the same is under his control) and the works (so far as the same are not completed or occupied by the Employer) in an orderly state appropriate

	to the avoidance of danger to such persons. b. Provide and maintain at his own cost all lights, guards, fencing, warning signs and watching, when necessary or required by the Project Manager or by any duly constituted authority, for the protection of the Works of for the safety and convenience of the public or others. c. Take all reasonable steps to protect the environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. d. Ensure that any cut or fill slopes are planted in grass or other plant cover as soon as possible to protect them from erosion. e. Any spoil or material removed from drains shall be disposed off 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.
	18.2 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.**
19. Discoveries	19.1 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.
20. Possession of the Site	20.1 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.
21. Access to the Site	21.1 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.
22. Instructions, Inspections and Audits	22.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located. 22.2 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 57.2 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 an obstructive practice subject to contract termination.

23. Dispute Settlement	23.1 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. 23.2 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.
24. Procedures for Disputes	24.1 In case of arbitration, the arbitration shall be conducted in accordance with the arbitration procedures in accordance with law of Nepal at the place given **in the SCC.**
B. Time Control	
25. Program	25.1 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. 25.2 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. 25.3 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. 25.4 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.
26. Extension of the Intended Completion Date	26.1 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. 26.2 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.
	26.3 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 26.2, 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.
27. Acceleration	27.1 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. 27.2 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.
28.Delays Ordered by the Project Manager	28.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.
29. Management Meetings	29.1Either 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. 29.2 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.
30. Early Warning	30.1 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. 30.2 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	
31. Identifying Defects	31.1The 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.
32. Tests	32.1If 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.

33. Correction of Defects	33.1 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 53.2, and is defined **in the SCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected. 33.2 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.
34. Uncorrected Defects	34.1 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	
35. Contract Price	35.1 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. 35.2In the case of a lump sum contract, the Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for Materials on Site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.
36. Changes in the Contract Price	36.1 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) The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 10 percent, except with the prior approval of the Employer. (c) If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities. 36.2In 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.
37.Variations	37.1 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.
	37.2 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. 37.3 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. 37.4 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. 37.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning. 37.6 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 36.1 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.
38. Cash Flow Forecasts	38.1 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.
39.Payment Certificates	39.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
	39.2 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.
	39.3 The value of work executed shall be determined by the Project Manager.
	39.4 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.
	39.5 The value of work executed shall include the valuation of Variations and Compensation Events.
	39.6 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.
40. Payments	40.1 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. 40.2 If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or 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. 40.3 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.
41.Compensation Events	41.1 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 20.1. (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. (l) Force majeure events as determined by the Project Manager. 41.2 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. 41.3 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. 41.4 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.
42.Tax	42.1The 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 44.
43.Currency	43.1The currency of Contracts shall be Nepalese Rupees.
44.Price Adjustment	44.1Prices 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. 44.2 Adjustment Formulate[8]: The adjustment to the Interim Payment Certificates in respect of changes in cost and legislation shall be determined from separate formulae for each of the types of construction work to be performed and Plant to be supplied. The formulae will be of the following general type: $$pn = A + b\frac{Ln}{Lo} + c\frac{Mn}{Mo} + d\frac{En}{Eo} + etc.$$ 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 Sub-Clause 40; A is a constant, specified in the Bidding Forms- Table of Price Adjustment data, representing the nonadjustable portion in contractual payments;[9] 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 44.4, 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 44.4
	44.3 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. 44.4 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. 44.5 Weightings: The weightings for each of the factors of cost given in the Bidding

[8] 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

[9] 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.

	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 38 or for any other reason. 44.6 Subsequent Legislation: If, after the date 30 days prior to the latest date for submission of bids for the Contract, there occur changes to any National Statute, Ordinance, Decree, or other Law or any regulation or by-law of any local or other duly constituted authority, or the introduction of any such Statute, Ordinance, Decree, Law, regulation or by-law which causes additional or reduced cost to the Contractor, other than under the preceding sub-clauses of this clause, in the execution of the Contract, such additional or reduced cost shall, after due consultation with the Employer and the Contractor, be determined by the Project Manager and shall be added to or deducted from the Contract Price and the Project Manager shall notify the Contractor accordingly, with a copy to the Employer. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same shall already have taken into account in the indexing of any inputs to the Price Adjustment Formulae in accordance with the provisions of Sub-Clauses 44.2
	44.7 Where, price adjustment provision is not applicable pursuant to Sub-clause 44.1 then the Contract is subject to price adjustment only for construction material in accordance with this clause. If the prices of the construction materials stated in the contract is increased or decreased in an unexpected manner in excess of ten (10%) percent in comparison to the base price construction material stated in Section –IV, Bidding Forms-Table of Price Adjustment Data, then the price adjustment for the increase or decrease of price of the construction material beyond 10% shall be made by applying the following formulas: 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.. 44.8 The Price Adjustment amount shall be limited to a maximum of the initial Contract Amount as specified **in the SCC**. 44.9 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 or a Fixed Budget Contract.

45. Retention	45.1 The Employer shall retain from each payment due to the Contractor the proportion stated **in the SCC** until Completion of the whole of the Works. 45.2Upon the issue of a Defects Liability Certificate by the Project Manager, in accordance with GCC 54.1, half the total amount retained shall be repaid to the Contractor and half when the Contractor has submitted the Tax evidence document issued by the concerned Internal Revenue Office that the contractor has submitted their Income Returns. 45.3The 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. 45.4 If retention money is substituted by bank guarantee in accordance with clause 45.3, 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.
46. Liquidated Damages	46.1 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. 46.2 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.-40.
47.Bonus	47.1 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.
48. Advance Payment	48.1 Unless otherwise stated in SCC, the Employer shall make advance payment to the Contractor of the amounts stated **in the SCC** in a separate bank account maintained for the contract, in two equal installments by the date stated **in the SCC**, against provision by the Contractor of an unconditional bank guarantee from Commercial Bank or Financial Institution eligible to issue Bank Guarantee as per prevailing Law in Nepal in accordance with the conditions of Contract using Sample Form for the Advance Payment Security included in Section IX (Contract Forms), or another 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.
	48.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager. 48.3 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.
	48.4 If the advance provided under GCC 48.1 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 48.1, and shall also recover interest on the advance amount from the contractor at a rate **stated in SCC.**
49.Securities	49.1The Performance Security 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. However, any additional performance security required as per ITB 32.5 shall be valid until a date 30 days beyond the end of the intended completion date. 49.2The 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 in Nepal.
50.Day works	50.1 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. 50.2 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. 50.3 The Contractor shall be paid for Day works subject to obtaining signed Day works forms.
51. Cost of Repairs	51.1 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.

E. Finishing the Contract	
52.Completion	52.1 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. 52.2 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.
53. Taking Over	53.1 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. 53.2 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. 53.3 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.
54. Final Account	54.1 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.
55. Operating and Maintenance Manuals	55.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the SCC. 55.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC pursuant to GCC 55.1, 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.
56. Termination	56.1 In no case, the Contractor shall terminate the Contract unilaterally without duly notifying the Employer. 56.2 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. 56.3 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. 56.4 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 Contractor does not maintain a Security, which is required; and **(h)** 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.** (i) 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 57.1. (j) 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 26.3. 56.5 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 56.2 above, the Project Manager shall decide whether the breach is fundamental or not. 56.6 Notwithstanding the above, the Employer may terminate the Contract for convenience. 56.7 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.
57.Fraud and Corruption	57.1 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. 57.2 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 Clause 9. For the purposes of this Sub-Clause; (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 Sub-Clause 22.2.
	57.3 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.
58. Black Listing	58.1 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.
59. Payment upon Termination	59.1 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.
	59.2 If the Contract is terminated because of fundamental breach of Contract or for

	any other fault by the Contractor, the Employer may: (a) withhold further payments to the Contractor until the costs of design, execution, completion and remedying of any defects, liquidated damages (if any), and all other costs incurred by the Employer, have been established, and/or (b) recover from the Contractor any losses and damages incurred by the Employer and any additional costs of completing the Works, after allowing for any sum due to the Contractor, as Government dues. After recovering any such losses, damages and extra costs, the Employer shall pay any balance to the Contractor. (c) forfeit the Performance Security. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
	59.3 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.
60.Property	60.1 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.
61. Release from Performance	61.1 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.
62.Suspension of DP Loan/Credit/Grant	62.1 In the event that the Donor Agency 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 Donor Agency's suspension notice; and b. if the Contractor has not received sums due him within the 30 days for payment provided for in Sub-Clause 40.1, the Contractor may immediately issue a 15-day termination notice.
63.Project Manager's Duties and Authorities	63.1 The Project Manager's duties and authorities are restricted to the extent as stated **in the SCC.**
64. Quarries and Spoil Dumps	64.1 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.

65. Local Taxation	65.1 The prices tendered 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.
66. Value Added Tax	66.1 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.
67.Income Taxes on Staff	67.1The 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. 67.2 The issue of the Final Account Certificate pursuant to clause 54shall be made only upon submittal by the Contractor of a certificate of income tax clearance from the Government of Nepal.
68. Duties, Taxes and Royalties	68.1 Any element of royalty, duty or tax in the price of any goods including fuel oil, and lubricating oil, cement, timber, iron and iron goods locally procured by the Contractor for the works shall be included in the Contract rates and prices and no reimbursement or payment in that respect shall be made to the Contractor. 68.2 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. 68.3 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 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.
69.Member of Government, etc, not Personally Liable	69.1 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.
70.Approval of Use of Explosives	70.1 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.
71.Compliance with Regulations for Explosives	71.1 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.
72. Permission	72.1 The Contractor shall at all times maintain full liaison with and inform well in

for Blasting	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.
73.Records of Explosives	73.1 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.
74.Traffic Diversion	74.1 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.
75. Social Security Fund	75.1 The contractor shall enroll the labourers, employees, or other workforce engaged in such work in the Social Security Fund in accordance with prevailing laws.
	75.2 The contractor shall be responsible to disburse the remuneration, benefits, and other payments of the labourers, employees, or workforce into the bank account of the concerned individual.
	75.3 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 (SCC)

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

Special Conditions of Contract

A. General	
GCC 1.1 (p)	The Employer is **Mangsebung Rural Municipality,Ilam**
GCC 1.1 (t)	The Intended Completion Date for the whole of the Works shall be ***End of F/Y 2083/084***
GCCs 1.1 (aa) & 4.1	The Project Manager is An Engineer The Project Manager and Engineer are synonyms.
GCC 1.1 (cc)	The Site is located at ... Mangsebung Rural Municipality Ward no 6
GCC 1.1 (ff)	The Start Date shall be **from the date of issuing of work order.**
GCC 1.1 (jj)	The Works consist of Base Course, Sub-Base Premix Bitumin Gabion and Stone Masonry Wall
GCC 2.2	Sectional Completions are: N/A
GCC 2.3 (i)	The following documents also form part of the Contract: (a) Contract Agreement, (b) Letter of Acceptance, (c) Letters of Bid, (d) Special Conditions of Contract, (e) General Conditions of Contract, (f) Specifications, (g) Drawings, (h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and Any other document listed in the SCC as forming part of the Contract.
GCC 3.1	The language of the contract is ENGLISH/NEPALI The law that applies to the Contract is the law of NEPAL
GCC 6.1 (a)	The agreed electronic transmission shall be; ***mangsebung.ruralmun@gmail.com***
GCC 13.1	The minimum insurance amounts and deductibles shall be: i. The minimum cover for loss of or damage to the Works, Plant and Materials is: 115% of the Contract Amount. ii. The maximum deductible for insurance of the Works and of Plant and Materials is: Rs. 50,000 only iii. The minimum cover for loss or damage to Equipment is : Full replacement iv. The maximum deductible for insurance of Equipment is: Rs. 25,000 only v. The minimum for insurance of other property is: Rs. 100,000 with

	unlimited number of occurrences vi. The maximum deductible for insurance of other property is: Rs. 50,000 only vii. The minimum cover for personal injury or death insurance a. for the Contractor's employees is that specified in the Labor act of Nepal and viii. for other people is :700,000 with an unlimited number of occurrences
GCC 14.1	Site Investigation Reports are: N/A**.**
GCC 17.1	The following shall be designed by the Contractor:... N/A**.**
GCC 20.1	The Site Possession Date(s) shall be: 7 days from date of signing the contract.
GCC 24.1	The place of arbitration shall be: Mangsebung RM, Ivang , ilam
B. Time Control	
GCC 25.1	The Contractor shall submit for approval a Program for the Works within 15... days from the date of the Letter of Acceptance.
GCC 25.3	The period between Program updates is 30 days The amount to be withheld for late submission of an updated Program is 50,000 NPR.
C. Quality Control	
GCC 33.1	The Defects Liability Period is: 365 days. *[The defects liability period is usually limited to 365 days, but could be less in very simple cases or could be more in special cases as defined by employer.]*
D. Cost Control	
GCC 40.1	Prevailing Interest Rate n/a %
GCC 44.1	The Contract is **not subject to price adjustment.**
GCC 44.7	Base Price of Construction Materials applicable for price adjustment shall be as per the Table of Adjustment Data submitted by Bidder together with the Letter of Bid which is approved by the Project manager and attached as Annex-1
GCC 44.8	The Price Adjustment amount shall be limited to a maximum ***[Insert percent, normally 25 %]*** percentage of the initial Contract Amount (without VAT but including PS). For DP Funded: **Not Applicable**.
GCC 45.1	The proportion of payments retained is: 5 %
GCC 46.1	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 47.1	The provision of bonus ***"Not Applicable"*** in the contract. If Applicable, the Bonus for the whole of the Works is 0.05 percent per day of the final Contract Price (without VAT but

	including PS). The maximum amount of Bonus for the whole of the Works is ***N/A*** of the Final Contract Price (without VAT but including PS).
GCC 48.1	The Advance Payments shall be 20% and shall be paid in two equal installments Based on APG to the Contractor.
GCC 48.3	Deductions from Payment Certificates will commence in the first certificate in which the value of works executed exceeds 30% of the Contract Price. Deduction will be at the rate of ***[Insert percentage]***[1] of the respective Monthly Interim Payment Certificate until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the end of 80 % of the approved contract price .
GCC 48.4	Recover interest on the advance amount from the Contractor should be at a rate of **10 %.**
GCC 49.1	The Performance Security amount is 8 %
E. Finishing the Contract	
GCC 55.1	The date by which operating and maintenance manuals are required is N/A
GCC 55.2	The date by which "as built" drawings are required is ***30 days after work acceptance date***
	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals is ***N/A***
GCC 56.4 (h)	The maximum number of days is: 200
GCC 63	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 7; b. Certifying additional costs determined under General Conditions of Contract Clause 42; 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 27; e. Issuing a Variation under General Conditions of Contract Clause 1 and 38, 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 37;

Note: *(1) % of advance payment × 100/(80-30)*

Section – IX Contract Forms

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

Letter of Intent **122**

Letter of Acceptance **123**

Contract Agreement **124**

List of Approved Subcontractors **125**

Performance Security **126**

Advance Payment Security **127**

Retention Money Security **128**

Letter of Intent

[On letterhead paper of the Employer]

Date: ... ……

To: ... ***...[Insert name and address of the Contractor]***.....

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

This is to notify you that, it is our intention to award the contract... . ***[Insert date]*** .....for execution of the... . ***[Insert name of the contract and identification number, as given in the Contract Data/SCC]*** to you as your bid price **Nepalese Rupees**..... ***[Insert amount of contract price in figures and words]*** 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: ..... ***[Insert name and address of the Contractor]*** ……...

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

This is to notify that your Bid for the Invitation of Bids dated ***.....[Insert date of bid invitation]*** ……..for execution of the……..***[Insert name of the contract and identification number, as given in the Contract BDS/SCC]*** ……... for the Contract price of Nepalese Rupees ***[insert amount of contract price in figures and words]***, 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**. ***……[Insert Performance Security and its validity] ……..*** as specified in the SCC consisting of a Bank Guarantee in the format included in Section IX (Contract Forms) of this Bidding Document.

The Employer shall forfeit the bid security, in case you fail to furnish the Performance Security and to sign the contract within specified period.

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.
   (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 General Conditions of Contract;

   (f) the Specification;
   (g) the Drawings;
   (h) ***Insert*** *"Bills of Quantities (BOQ)" or "Scehdules of Prices" (for Lump Sum Contracts);*; and
   (i) Table of Price Adjustment Data
   (j) List of Approved Subcontractors
   (k) ..... ***[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 …….	Signed by……..
for and on behalf the Contractor in the presence of	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 7.1, The following Subcontractors are approved for carrying out the work as specified below.

Name of Subcontractors	Description of Works	Value/Percentage of subcontract

Performance Security

(On letterhead paper of the Bank)

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

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

Date: .....

Performance Guarantee No.: ……..

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

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

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

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

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

……

Seal of Bank and Signature(s)

Note:

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

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

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



Advance Payment Security

(On letterhead paper of the Bank)

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

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

Date: ……

Advance Payment Guarantee No……..

We have been informed that ……***[insert name of the Contractor, which in the case of a joint venture shall be the name of the joint venture]*** (hereinafter called "the Contractor") has entered into Contract No. ..... ***[Insert reference number of the Contract]***……dated ……***[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 amount 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;

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

Retention Money Security

(On letterhead paper of the Bank)

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

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

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

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

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

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

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

This guarantee shall expire no later than the …***[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)]

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

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[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.*

Annex-1

Table of Price Adjustment Data

[GCC 44.1]

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 44.7]

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.

1309 ASPHALT CONCRETE/ BITUMINOUS CONCRETE

(1) Scope

This Clause covers the materials, method of construction and requirements for the construction of Asphalt Concrete. / Bituminous concrete

This work shall consist of construction of Bituminous Concrete, for use in wearing and profile corrective courses. This work shall consist of construction in a single layer of bituminous concrete on a previously prepared bituminous bound surface.

(2) Material

(a) Bitumen

The bitumen shall be viscosity grade paving bitumen complying with the Indian Standard Specification IS: 73, modified bitumen complying with IS: 15462 or as otherwise specified in the Contract.

(b) Coarse Aggregates

The coarse aggregates shall be generally as specified in Clause 1307 (2), except that the aggregates shall satisfy the physical requirements of Table 13.32 and where crushed gravel is proposed for use as aggregate, not less than 95 percent by weight of the crushed material retained on the 4.75 mm sieve shall have at least two fractured faces.

Table 13.32: Physical Requirements for Coarse Aggregate for Bituminous Concrete

Property	Test	Specification	Method of Test
Cleanliness (dust)	Grain size analysis	Max 5% passing 0.075 mm sieve	IS:2386 Part I
Particle shape	Combined Flakiness and Elongation Indices	Max 35%	IS:2386 Part I
Strength	Los Angeles Abrasion Value or Aggregate Impact Value	Max 30% Max 24%	IS:2386 Part IV
Durability	Soundness either: Sodium Sulphate or Magnesium Sulphate	Max 12% Max 18%	IS:2386 Part V
Polishing	Polished Stone Value	Min 55	BS:812-114
Water Absorption	Water Absorption	Max 2%	IS:2386.Part Ill
Stripping	Coating and Stripping of Bitumen Aggregate Mix	Minimum retained coating 95%	IS: 6241
Water Sensitivity	Retained Tensile Strength*	Min 80%	AASHTO 283

* *If the minimum retained tensile test strength falls below 80 percent, use of anti-stripping agent is recommended to meet the requirement.*

(c) Fine Aggregates

The fine aggregates shall be all as specified in Clause 1308 (2) (c)

(d) Filler

Filler shall be as specified in Clause 1308 (2) (d).

(e) Aggregate Grading and Binder Content

When tested in accordance with IS: 2386 Part 1 (Wet grading method), the combined grading of the coarse and fine aggregates and filler shall fall within the limits shown in Table 13.33. The grading shall be as specified in the Contract.

Table 13.33: Composition qty. Bituminous Concrete Pavement Layers

Grading	**1**	**2**
Nominal Maximum aggregate size*	**19 mm**	**13.2 mm**
IS Sieve[1] (mm)	**Cumulative % by weight of total aggregate passing**	
45		
37.5		
26.5	100	
19	90-100	100
13.2	59-79	90-100
9.5	52-72	70-88
4.75	35-55	53-71
2.36	28-44	42-58
1.18	20-34	34-48
0.6	15-27	26-38
0.3	10-20	18-28
0.15	5-13	12-20
0.075	2-8	4-10
Bitumen content % by mass of total mix	Min 5.2*	Min 5.4**

Notes:

* *The nominal maximum aggregate size is one size larger than the first sieve to retain more than 10 percent of the material.*

** *Corresponds to specific gravity of aggregate being 2.7. In case aggregate have specific gravity more than 2. 7, the minimum bitumen content can be reduced proportionately. Further the region where highest daily mean air temperature is 30°C or lower and lowest daily air temperature is - 10°C or lower, the bitumen content may be increased by 0.5 percent*

(3) Mix Design

(a) Requirements for the Mix

Clause 1308 (3) (a) shall apply.

(b) Binder Content

Clause 1308 (3) (b) shall apply.

(c) Job Mix Formula

Clause 1308 (3) (c) shall apply.

(d) Plant Trials - Permissible Variation in Job Mix Formula

The requirements for plant trials shall be as specified in Clause 1308 (3) (d), and permissible limits for variation as given in Table 13.34

Table 13.34: Permissible Variations in Plant Mix from the Job Mix Formula

Description	Permissible Variation
Aggregate passing 19 mm sieve or larger	±7%
Aggregate passing 13.2 mm, 9.5 mm	±6%
Aggregate passing 4.75 mm	±5%
Aggregate passing 2.36 mm, 1.18 mm, 0.6 mm	±4%
Aggregate passing 0.3 mm, 0.15 mm	±3%
Aggregate passing 0.075 mm	±1.5%
Binder content	± 0.3%
Mixing temperature	± 10°C

(e) Laying Trials

The requirements for laying trials shall be as specified in Clause 1308. (3) (.e). The compacted layers of bituminous concrete (BC) shall have a minimum field density equal to or more than 92 percent of the average theoretical maximum specific gravity (Gmm) obtained on the day of compaction in accordance with ASTM 02041.

(4) Construction Operations

(a) Weather and Seasonal Limitations

The provisions of Clause 1301 (5) shall apply.

(b) Preparation of Base

The surface on which the bituminous concrete is to be laid shall be prepared in accordance with Section 1200 and 1100 as appropriate, or as directed by the Engineer. The surface shall be thoroughly swept clean by mechanical broom and dust removed by compressed air. In locations where a mechanical broom cannot get access, other approved methods shall be used as directed by the Engineer.

(c) Geosynthetics

Where Geosynthetics are specified in the Contract, this shall be in accordance with the requirements stated in Clause 3111.

(d) Stress Absorbing Layer

Where a stress absorbing layer is specified in the Contract, this shall be applied in accordance with the requirements of relevant specification.

(e) Tack Coat

The provisions as specified in Clause 1302 shall apply.

(f) Mixing and Transportation of the Mix

The provisions as specified in Section 1200shall apply.

(g) Laying

The general provisions of Clauses 1301 shall apply, as modified by the approved laying trials

(h) Compaction

The general provisions of Clauses 1301 shall apply, as modified by the approved laying trials.

(5) Opening to Traffic

Provisions in Clause 1307 (4) shall apply.

(6) Surface Finish and Quality Control

The surface finish of the completed construction shall conform to the requirements of Section 1100. All materials and workmanship shall comply with the provisions set out in Section 600 of these Specifications.

(7) Arrangements for Traffic

During the period of construction, arrangements for traffic shall be made in accordance with the provisions of Clause 104.

(8) Measurement

Asphalt concrete/ Bituminous concrete of specified grading in contract document shall be measured as finished work either in cubic meters, tons or by the square meter at a specified thickness as indicated in the Contract drawings, or documents, or as otherwise directed by the Engineer

(9) Payment

Asphalt concrete/ Bituminous concrete shall be paid as per contract unit rate which shall be the full and final compensation for the cost of compliance of all requirements of Clauses 1301 and 1309 in addition to those specified in Clause 112.

1310 CLOSE-GRADED PREMIX SURFACING/MIXED SEAL SURFACING

(1) Scope

(a) The work shall consist of the preparation, laying and compaction of a close graded premix surfacing material of 20 mm thickness composed of graded aggregates premixed with a bituminous binder on a previously prepared surface, in accordance with the requirements of these Specifications, to serve as a wearing course.

(b) Close graded premix surfacing shall be of Type A or Type B as specified in the Contract documents. Type A. grading is recommended for use in areas having rainfall more than 150 cm per year. In other areas Type B grading may be used.

(2) Materials

(a) Binder

The binder shall be viscosity grade bitumen of a suitable grade as specified in the Contract, or as directed by the Engineer, and satisfying the requirements of IS: 73. For selection of grade of bitumen guidance may be taken from Table 13.1.

(b) Coarse Aggregates

The aggregates shall conform to Clause 1309 (.2) (b) except that the water absorption shall be limited to a maximum of 1 percent. The Polished Stone Value, shall not be less than 55, when tested as per BS: 812-114.

(c) Fine Aggregates

The fine aggregates shall consist of crushed rock, or natural sand or a mixture of both. These shall be clean, hard, durable, un-coated, mineral particles, dry; and free from injurious, soft or flaky particles and organic or deleterious substances.

(d) Aggregate Gradation

The coarse and fine aggregates shall be so graded or combined as to conform to one or the other grading's given in Table 13.35, as specified in the contract.

Table 13.35: Aggregate Gradation

IS Sieve Designation (mm)	Cumulative Percent by Weight of Total Aggregate Passing	
	Type A	Type B
13.2	-	100
11.2	100	88-100
5.6	52-88	31-52
2.8	14-38	5-25
0.090	0-5	0-5

(e) Proportioning of Materials

The total quantity of aggregates used for Type A or B close-graded premix surfacing shall be 0.27 cubic meter per square meter area. The quantity of binder used for premixing shall be 22.0 kg and 19.0 kg per 10 square meter area for Type A and Type B surfacing respectively.

(3) Construction Operations

(a) Weather and Seasonal Limitations

The provisions of Clause 1301 (5) shall apply.

(b) Preparation of Surface

The underlying surface on which the bituminous surfacing is to be laid shall be prepared, shaped and conditioned to the specified lines, grade and cross-section in accordance with Section 1100. A prime coat where needed shall be applied in accordance with Clause 1302 as directed by the Engineer.

(c) Tack Coat

A tack coat complying with Clause 1302, shall be applied over the base preparatory to laying of the surfacing.

(d) Preparation of Premix

Hot mix plant of appropriate capacity and type shall be used for the preparation of the mix material. The hot mix plant shall have separate dryer arrangement for heating aggregate.

The temperature of the binder and aggregate at the time of mixing, laying and compaction shall be in conformity with the temperature given in Table 13.5. The difference in temperature between the binder and aggregate shall at no time exceed 14°C. Mixing shall be thorough to ensure that a homogeneous mix is obtained in which all particles of the aggregates are coated uniformly.

The mix shall be immediately transported from the mixer to the point of use in suitable vehicles or hand barrows. The vehicles employed for transport shall be clean and the mix being transported covered in transit if so directed by the Engineer.

(e) Laying and Compaction

The pre mixed material shall be spread on a previously prepared base to Clause 1301 by a paver unless specified otherwise in the Contract to the desired thickness, grades and cross fall (camber). The cross-fall shall check by means of camber boards and irregularities levelled out. Excessive use of blades or rakes shall be avoid. As soon as sufficient length of bituminous material has been laid, rolling shall commence with 8-10 ton rollers, smooth wheel tandem type or other approved equipment. Rolling shall begin at the edge and progress towards the centre longitudinally, except that on super elevated and uni-directional cambered portions, it shall progress from the lower to upper edge parallel to the centre line of the pavement. When the roller has passed over the whole area once, any high spots or depressions, which become apparent, shall be corrected by removing or adding premixed materials. Rolling shall

then be continued until the entire surface has been rolled and c: ill the roller marks eliminated. In each pass of the roller the preceding track shall be overlapped uniformly by at least one third width. The roller wheels shall be kept damp to prevent the premix from adhering to the wheels. In no case shall fuel/lubricating oil be used for this purpose. Excess use of water for this purpose shall also be avoided.

Rollers shall not stand on newly laid material. Rolling operations shall be completed in every respect before the temperature of the mix falls below the rolling temperature indicated in Table 13.5.

(4) Opening to Traffic

Traffic may be allowed after completion of the final rolling when the mix has cooled down to the surrounding temperature. Speed restrictions may be imposed at initial stages.

(5) Surface Finish and Quality Control of Work

The surface finish of construction shall conform to the requirements of Section 1100. For control on the quality of materials and the works carried out, the relevant provisions of Section 600 shall apply.

(6) Arrangements for Traffic

During the period of construction, arrangements for traffic shall be in accordance with the provisions of Clause 104.

(7) Measurement

Close-graded premix surfacing, Type A or B shall be measured as finished work, for the area specified to be covered, in square meters at a specified thickness. The area will be the net area covered.

(8) Payment

Close-graded premix surfacing, Type A or B shall be paid as per contract unit rate which shall be the full and final compensation for the cost of compliance of all requirements of Clauses 1301 and 1310 in addition to those specified in Clause 112.

1311 OPEN-GRADED PREMIX SURFACING

A. Open-Graded Premix Surfacing using Viscosity Grade Paving Bitumen

(1) Scope

This work shall consist of preparation, laying and compaction of an open-graded premix surfacing material of 20 mm thickness composed of small-sized aggregate premixed with bituminous binder on a previously prepared base, in accordance with the requirements of these Specifications to serve as a wearing course.

(2) Materials

(a) Binder

The binder shall be._ viscosity grade bitumen of a suitable grade as specified in the Contract, or as directed by the Engineer, and satisfying the requirements of IS: 73. For selection of grade of bitumen guidance may be taken from Table 13-1.

(b) Aggregates

The aggregates shall conform to Clause 1307 (2) except that the water absorption shall be limited to a maximum of 1 percent. The Polished Stone Value, shall not be less than 55, when tested as per BS: 812-114.

(c) Proportioning of Material

The materials shall be proportioned in accordance with Table 13.36.

Table 13.36: Quantities of Materials Required for 10 m2 of Road Surface for 20 mm Thick Open-graded Premix Surfacing

Material		**Quantity**
Aggregates		
a	Nominal Stone size 13.2 mm (passing 22.4 mm sieve and retained on 11.2 mm sieve)	0.18 m^3
b	Nominal Stone size 11.2 mm (passing 13.2 mm sieve and retained on 5.6 mm sieve)	0.09 m^3
	Total	0.27 cum
Binder		
a	For 0.18 m3 of 13.2 mm nominal size stone of 52 kg bitumen per m^3	9.5 kg
b	For 0.09 m3 of 11.2 mm nominal size stone of 56 kg bitumen per m^3	5.1 kg
	Total	14.6 kg

(3) Construction Operations

(a) Weather and Seasonal Limitations

Clause 1301 (5) shall apply.

(b) Preparation of Surface

The underlying surface on which the bituminous surfacing is to be laid shall be prepared, shaped and conditioned to the specified lines, grade and cross-section in accordance with Clause 1100. A prime coat where needed shall be applied in accordance with Clause 1302 as directed by the Engineer.

(c) Tack Coat

A tack coat complying with Clause 1302, shall be applied over the base preparatory to laying of the surfacing.

(d) Preparation of Premix

Hot mix plant of appropriate capacity and type shall be used for the preparation of the mix material. The hot mix plant shall have separate dryer arrangement for heating aggregate.

The temperature of the binder and aggregate at the time of mixing, laying and compaction shall be in conformity with the temperature given in Table 13-5. The difference in temperature between the binder and aggregate shall at no time exceed 14°C. Mixing shall be thorough to ensure that a homogeneous mix is obtained in which all particles of the aggregates are coated uniformly.

The mix shall be immediately transported from the mixer to the point of use in suitable vehicles or hand barrows. The vehicles employed for transport shall be clean and the mix being transported covered in transit if so directed by the Engineer

(e) Spreading and Rolling

The pre mixed material shall be spread on a previously prepared base by a paver or as directed by the Engineer to the desired thickness, grades and cross fall (camber). The cross-fall shall be check by means of camber boards and irregularities levelled out. Excessive use of blades or rakes shall be avoid. As soon as sufficient length of bituminous material has been laid, rolling shall commence with 8-10 ton rollers, smooth wheel tandem type or other approved equipment. Rolling shall begin at the edge and progress towards the centre longitudinally, except that on super elevated and uni-directional cambered portions, it shall progress from the lower to upper edge parallel to the centre line of the pavement. When the roller has passed over the whole area once, any high spots or depressions, which become apparent, shall be corrected by removing or adding premixed materials. Rolling shall then be continued until the entire surface has been rolled and c: ill the roller marks eliminated. In each pass of the roller the preceding track shall be overlapped uniformly by at least one third width. The roller wheels shall be kept damp to prevent the premix from adhering to the wheels. In no case shall fuel/lubricating oil be used for this purpose. Excess use of water for this purpose shall also be avoided.

Rollers shall not stand on newly laid material. Rolling operations shall be completed in every respect before the temperature of the mix falls below the rolling temperature indicated in Table 13-5.

(f) Seal Coat

A seal coat conforming to specification of the type specified in the Contract shall be applied to the surface immediately after laying the surfacing.

(4) Opening to Traffic

No traffic shall be allowed on the road until the seal coat has been laid. In the case of Type B seal coat, traffic may be allowed soon after final rolling when the premixed material has cooled down to the surrounding temperature. In the case of Type A seal coat, traffic shall not be permitted to run on any newly sealed area until the following day. In special circumstances, however, the Engineer may open the road to traffic immediately after rolling, but in such cases traffic shall be rigorously limited to 20 km per hour until the following day.

(5) Surface Finish and Quality Control of Work

The surface finish of construction shall conform to the requirements of Clause 1100. For control of the quality of materials and the works carried out, the relevant provisions of Section 500 shall apply.

(6) Arrangements for Traffic

During the period of construction, arrangements for traffic shall be made in accordance with the provisions of Clause 104.

(7) Measurement

Open graded premix surfacing shall be measured as finished work, for the area instructed to be covered, in square meters.

(8) Payment

Open-graded premix surfacing shall be paid as per contract unit rate which shall be the full and final compensation for the cost of compliance of all requirements of Clauses 1301 and 1311 in addition to those specified in Clause 112.

B Open Graded Premix Surfacing Using Cationic Bitumen Emulsion

(1) Scope

This work shall consist of the preparation, laying and compaction of an open graded premix surfacing of 20 mm thickness composed of small-sized aggregate premixed with a cationic bitumen emulsion on a previously prepared surface, in accordance with the requirements of these Specifications to serve as a wearing course.

(2) Materials

(a) Binder

The binder for Premix wearing course shall be Cationic Bitumen emulsion of Medium Setting (MS) grade complying with IS: 8887 or as specified in the Contract.

(b) Aggregate

The requirements of Clause 1307 (2) shall apply.

(3) Proportioning of Materials

The materials shall be proportioned as per quantities given in Tables 13.37.

Table 13-37: Quantities of Aggregate for 10 sq. m Area

Aggregates		Quantity
a)	Coarse aggregate nominal 13.2 mm size, passing IS 22.4 mm sieve and retained on IS 11.2 mm sieve	0.18 m^3
b)	Coarse aggregate nominal 11.2 mm size; passing IS 13.2 mm sieve and retained on IS 5.6 mm sieve	0.09m^3
	Binder	20 to 23 kg

(4) Construction Operations

(a) Weather and Seasonal Limitations

Clause 1301 (5) shall apply except that the minimum air temperature for laying shall be 10°C. Cationic bitumen emulsions shall not normally be stored below 0°C.

(b) Preparation of Surface

The underlying surface on which the bituminous surfacing is to be laid shall be prepared, shaped and conditioned to the specified lines, grade and cross-section in accordance with Clause 1100. A prime coat where needed shall be applied in accordance with Clause 1302 as directed by the Engineer.

(c) Preparation of Binder

Before opening, the cationic bitumen emulsion drums shall be rolled at a slow speed, to and fro at least 5 times, for a distance of about 10 meters, to distribute any storage sedimentation.

(d) Tack Coat

A tack coat complying with Clause 1302, shall be applied over the surface preparatory to laying of the surfacing where specified in the Contract, as directed by the Engineer.

(e) Preparation of Premix

Premixing of cationic bitumen emulsion and aggregates can be carried out in a suitable mixer such as cold mixing plant as per IS: 5435 (Revised) or concrete mixer or by pay loaders in exceptional cases where approved by the Engineer. Where specified in the Contract, continuous mixing operation shall be done either in batch or continuous hot mix plant suitable for emulsion mixes.

When using concrete mixer for preparing the premix, 0.135 cu.m (0.09 cu.m of 13.2 mm size and 0.045 cu.m of 11.2 mm size) of aggregates per batch shall be used. This quantity will be for 5 sq.m of road surface with 20 mm average thickness.

The aggregates required for one batch shall be prepared adjacent to the mixer.

The coarse aggregate of 13.2 mm size shall be placed into the mixer followed by 5 to 6.5 kg of Cationic bitumen emulsion and then the 11.2 mm size aggregate shall be added, followed by 5 to 6.5 kg of Cationic bitumen emulsion. After the materials

have been mixed thoroughly, the mix shall be, immediately transported to the laying site in suitable vehicles. Too much mixing shall be avoided.

(f) Spreading and Rolling

The premixed cationic bitumen emulsion and aggregates shall be spread uniformly by a paver within 10 minutes of applying the tack coat. All levelling, raking etc. shall be complete within 20 minutes of the time of mixing. The mix shall be spread uniformly to the desired thickness, grades and cross fall (camber). The cross fall shall be checked by means of camber boards and irregularities levelled out. Too much raking is to be avoided.

The rolling shall start immediately after laying the premix. A smooth wheeled tandem roller of 8-10 tons shall be used, unless other compaction methods are approved by the Engineer, based on the results of laying trials, if necessary. While rolling, wheels of roller shall be clean and kept moist to prevent the premix from adhering to the wheels. In no case shall fuel/ lubricating oil be used for this purpose. Use of water for this purpose shall be strictly limited to an absolute minimum.

Rolling shall commence at the edges and progress towards the centre longitudinally except in the case of super elevated and unidirectional cambered sections where rolling shall be carried out from the lower edge towards the higher edge parallel to the centre line of the road.

After one pass of roller over the whole area, depressions or uncovered spots shall be correct by adding premix material. Rolling shall be continued until the entire surface has been rolled, to maximum compaction and all the roller marks eliminated. In each pass of the roller, the preceding track shall be overlapped uniformly by at least one-third width. Roller(s) shall not stand on newly laid material. Joints, both longitudinal and transverse to the road sections laid and compacted earlier, shall be cut vertically to their full depth so as to expose fresh surface which shall be painted with a thin coat of binder before the new mix is laid.

(5) Seal Coat

A seal coat, conforming to relevant specification, as specified in the Contract, shall be applied immediately after laying the premix carpet.

(6) Opening to Traffic

Traffic shall not be allow over the premix surface till seal coat is laid. After the seal coat is laid, traffic may be allowed in accordance with Clause 1305.

(7) Surface Finish and Quality Control

The surface finish of construction shall conform to the requirements of Clause 1100. For control of the quality of materials and work carried out, relevant provision of Section 900 shall apply.

(8) Arrangements for Traffic

During the period of construction, arrangements for traffic shall be made in accordance with the provisions of Clause 104.

(9) Measurement

Open graded premix surfacing shall be measured as finished work, for the area instructed to be covered, in square meters.

(10) Payment

Open-graded premix surfacing shall be paid as per contract unit rate which shall be the full and final compensation for the cost of compliance of all requirements of Clauses 1301 and 1311 in addition to those specified in Clause 112.

1312 SAND ASPHALT

(1) Scope

This Clause covers the materials, method of construction and requirements for the construction of Sand Asphalt.

(2) Definition

Sand Asphalt means a controlled, hot-mixed, hot-laid, plant mixture of sand and penetration grade bitumen.

(3) Materials

(a) Sand

Sand shall consist of clean, tough, screened or crushed rough surfaced grains. As delivered to the mixer it shall be free from lumps or loosely bonded aggregations and the individual particles shall be free from adhering dust. It shall be non-plastic and Sand Equivalent shall be not less than 40. The grading shall be within the limits set out in the Table 13.38.

Table 13.38: Grading Requirement of Sand

Sieve Size (mm)	Percentage passing by weight
4.750	100
2.360	76-100
0.600	27-90
0.075	6-14

Sand which fails to meet this requirement may be used provided it is first mixed with other mineral products to produce a mixture which falls within the grading limits of Table 13.38 and has the specified Marshall Test stability.

(b) Mineral Filler

The mineral filler shall comply with Sub-Clause 1309 (3) (c).

(c) Binder

The binder shall be paving bitumen of VG 10 complying with the requirements specified in Section 600.

(4) Requirements for Sand Asphalt

The mixture shall comply with the following requirement:

- Marshall Stability 50 blows (N): Min. 3,500

The proportion, by weight of total mixture, of bitumen shall be stated in the Special Specification or in the Bill of Quantities. This shall be termed the nominal binder content. The binder content of the working/job mix shall be instructed by the Engineer following laboratory and site trials. The Contractor shall carry out such tests as the Engineer may require to determine the optimum mix composition of the job mix.

(5) Mixing and Laying Sand Asphalt

The mixture shall be transported, laid and compacted in accordance with Clause 1301. The minimum temperature of the mixture at the time of completion of rolling shall be not less than 80^{o} C.

(6) Compaction

Rolling shall be sequence of roller in such a manner that it will ensure the full specified compaction and at the same time will provide a finished surface within the tolerance laid down in this Specification. The minimum in-situ density shall be 87% of the density of the Marshall specimens compacted forms the Approved Job Mix.

(7) Quality Control

(a) Sampling

Prior to use the Contractor shall supply the Engineer with samples of all materials proposed to be used. He shall carry out all the specified tests as the Engineer may require to satisfy himself that the material and proportions satisfy this Specification. No material shall be used, nor job mix adopted until they are approved in writing by the Engineer.

Sampling of mixes shall normally be carried out at the mixing plant or from Lorries conveying the material from the mixing plant to the paver, but the Engineer may direct for sampling to be carried out form the paver, if there is any danger of segregation of the mix during transporting and spreading process.

(b) Process Control

The minimum frequency of testing for process control shall be as given in the Table 5.2

Routine inspection and testing shall be carried out by the Engineer to test the completed work for compliance with the dimensional tolerances, quality of material, density of compaction and any other requirements stated in this Specification.

Any material and workmanship that do not comply with the requirements specified, shall be replaced by material and workmanship complying with their respective Specification.

(8) Measurement

Sand Asphalt concrete shall be measured cubic meter as the product of the length and the compacted cross-sectional area of the sand asphalt laid as per drawing or as instructed by the Engineer.

(9) Payment

The sand asphalt shall be paid as per contract unit rate which shall be the full and the final compensation for the cost of compliance of all requirements specified in Clause 1301 and 1312 in addition to those specified in Clause 112.

(10) Adjustment in Contract Unit Rate

If any variation between the specified (nominal) rates of application of binder, sand and/or mineral filler and their respective rate of application actually used in the work as per the direction of the Engineer, the contract unit rate for asphalt concrete shall be adjusted as per contract unit rate of the respective material quoted by the Contractor for the purpose of this variation.
The varied sand asphalt shall be paid as per adjusted rate.

1313 BITUMINOUS COLD MIX BITUMINOUS MACADAM (INCLUDING COLD MIXED SEMI DENSE BITUMINOUS CONCRETE)

(1) Scope

This Clause covers the materials, method of construction and requirements for the construction of Bituminous cold mix bituminous macadam (CMBM) and Cold mixed semi dense Bituminous concrete (CMSDBC).

(2) Definition

Bituminous Macadam (BM) is an open graded bituminous mixture suitable for moderate traffic roads used for construction of bituminous base course as well as for strengthening of flexible pavements. Cold Mixed Bituminous Macadam (CMBM) shall involve construction of one or more courses of compacted mixture prepared with bitumen emulsion and mineral aggregate, laid immediately after mixing to required grade and camber using appropriate machinery

Semi dense bituminous concrete (SDBC) is a continuously graded mix, which can be used as binder course or wearing course in a flexible pavement.

(3) Materials

(a) Binder

Bitumen emulsion for preparation of CMBM shall be Medium Setting (MS), Slow

Setting(SS-2) grade or a tailor made for compatibility with available mineral aggregates, conforming to IS:8887 or other international standard (ASTM or AASHTO). The actual grade of the emulsion to be used would depend on the characteristics of the aggregates. If the sand equivalent value of the aggregates is between 50 to 70, use SS-2 grade of emulsion and for sand equivalent values more than 70, use MS grade of emulsion. The Rapid Setting (RS-1)grade of bitumen emulsion, conforming to IS: 8887 shall be used in Tack Coat.

The general guide for selection of binder is given in Table 13.3

(b) Aggregates

The aggregates shall comply with the requirements of Clause 1308 the aggregates shall consist of crushed stone, crushed slag, crushed gravel (shingle) or other suitable. The aggregates shall be clean, strong, durable and fairly cubical, free from clay and disintegrated pieces, organic and other deleterious matter. The coarse aggregates shall be crushed material retained on 2.36 mm IS sieve while fine aggregates shall be fraction passing, 2.36 mm sieve and retained on 75 micron sieve. The aggregate shall satisfy the physical requirements as given in Table 13.26 with sand equivalent value of more than 50. The requirement of filler (material passing 75 micron sieve) in CMBM shall be met from stone dust, cement, hydrated lime or any other non-plastic mineral matter. The blended aggregates for CMBM shall satisfy the grading given in Table 13.39.

Table 13.39: Grading Requirement of Combined Aggregate

Sieve Size (mm)	Percentage passing by weight	
	for 50 mm thick CMBM	for CMSDBC
26.5	100	
19.0	90-100	
13.2	56-88	100
9.5	20-55	90-100
4.75	16-36	35 - 51
2.36	4-19	24 - 39
1.18		15-30
0.3	2-10	9-19
0.075	1- 4	2-8
Sand Equivalent Value (ASTM D 2419)	50 minimum	50 minimum
Percent Crushed Faces	75 % minimum	75 % minimum
Bitumen Emulsion % by weight of Mix	5 % minimum	8 – 10 %

(4) Mix Design

The detailed procedure for mix design shall be as specified in appendix -9 of IRC: SP: 100. The mix shall meet the requirement shown in Table 13.40.

Table 13.40: Design Requirement for Cold Mix

Parameter	Cold Mix Bituminous Macadam (CMBM)	Cold Mixed Semi Dense Bituminous Concrete (CMSDBC)
Number of compaction blows on each side of Marshall specimen	50	50
Marshall Stability at 25°C in kg (minimum), after curing the specimen at room temperature for 72 hours	350	500
Marshall flow (mm)	Max 8	Max 8
Per cent voids in mixture	10 - 14	6 - 10
Binder content (residual bitumen) by weight of total mix (%),min	3.5	4.5
Retained indirect tensile strength at 25°C after conditioning for 72 hours in air and 72 hours at 40°C, in water %	50	75

Method for Design of Cold Mixes

The cold mix design procedure involves optimization of water as well as content of bitumen emulsion for the aggregates in the mix. The aggregates are made moist with water to wet its surface and then coated with cationic bitumen emulsion. The different sizes of aggregates are blended in proportions to achieve the best standard gradation of BM or SDBC. The following steps are necessary to design cold mixed BM or SDBC with cationic bitumen emulsion:

a) Testing of aggregate :

The aggregates supplied are subjected to sieve analysis and other physical tests for determining the properties such as specific gravity, aggregate impact value, water absorption and sand equivalent value.

b) Testing of bitumen emulsion :

The samples of slow setting bitumen emulsion (SS-2) to be used for construction of BM shall be tested as per IS: 8887. The coating test of aggregates shall also be carried out as per ASTM D 2397 or AASHTOM 208.

c) Determination of premixing water content :

For determination of optimum water content for premixing, the quantity of bitumen emulsion is first determined using the following equation.

$P = 0.05A+0.1B+0.5C$ ... (1)

Where,

P = Quantity of bitumen emulsion (%)

A = Percent aggregate retained on 2.36 mm sieve

B = Percent aggregate passing 2.36 mm sieve and retained on 90 micron sieve

C = Percent aggregate passing on 90 micron sieve

Different samples of aggregates and emulsion mixes are prepared keeping the quantity of bitumen emulsion constant (as determined from Equation 1) and varying the water content. The coated aggregates are then visually observed for coated area of the aggregate by the binder. The optimum water content is the water content at which maximum coating of aggregate occur. This water content is taken as premixed

water content in designing the cold mixed BM or cold mixed SDBC. The optimum water content for BM or SDBC is normally found to be 2 to 3 percent by weight of aggregate. However, this quantity may vary depending on the weather condition (temperature, humidity and wind velocity) and properties of aggregates

Determination of Optimum Binder Content

The procedure for the design of cold mix utilises standard Marshall Equipment. Marshall Test specimens in triplicate are prepared with different binder content (bitumen emulsion). Different sizes of aggregates are blended to achieve the specified aggregate gradation. About 1100gm of graded aggregates are made wet uniformly with optimum water content. The different percentage of bitumen emulsion, say 5 percent by weight of aggregate, are then added to the aggregate sand mixed for 1-2 minutes for achieving uniform binder coating. The mixture is dried for about 1 -2 hours using a fan. The cold mix is then kept in oven at 40°C for 2 hours. The cold mix is then transferred into the Marshall mould with a filter paper on base plate and compacted with 50 blows of Marshall Hammer on both faces. Similarly, the Marshall specimen are prepared with optimum water content and bitumen emulsion contents of 5, 6, 7, 8 and 9 percent by weight of aggregates. The Marshall specimens are then extracted from the mould after 24 hours and cured in air oven at 40°C for 72 hours before subjecting to different Marshall Stability Tests. Marshall Specimen are subjected to different tests viz. bulk density, stability and flow values. Marshall Stability and flow values are determined in dry state at 25°C. Different properties of the mixes are determined and other design parameters like voids content, voids filled with binder etc. are calculated.

(5) Construction Procedure

(a) Weather and Seasonal Limitation

CMBM/ CMSDBC shall not be laid during raining or when the granular base course is wet or when the atmospheric temperature in the shade is below 8°C.

(b) Preparation of the Base

All equipment necessary for the proper construction work shall be available at the work site in good working condition. Adequate provisions for safe movement of vehicular traffic shall be made in advance. The underlying surface on which CMBM/CMSDBC is to be laid shall be prepared, shaped and conditioned to a uniform grade and camber. Depressions, ruts or potholes shall be repaired in advance at least before the day of laying. The surface of underlying course shall be thoroughly swept, made clean free from the dust and foreign materials. If the existing base is extremely uneven, a profile correction course may be considered.

(c) Tack Coat

The tack coat with emulsion shall be applied not earlier than 10 minutes before laying the cold mix.

(d) Preparation and Transportation of the Mix

It is imperative to prepare cold mix of proper and uniform quality by using a cold mix plant or a modified hot mix plant switching off the heating. The production of high quality cold mixes requires a well-controlled operation. The set up for a central cold mix plant may vary depending on the quality required and the type of mix. It is recommended that the plant shall have (1) a twin shaft pug mill, (2) a tank for emulsion storage, (3) metered pumps for emulsion transfer to pug mill and water, valves and spray bars, (4) aggregate feeder bins, (5)conveyor belts for moving aggregate and mix, and (6) a power source. The pug mill shall allow a variation in the mixing time to ensure proper coating of aggregate with emulsion. The use of a surge bin or storage silo is desirable for continuous mixing and improved mix uniformity. Batch type pug mills can be used but the production of cold mixes is ideally suited for continuous type mixers. The ingredients shall be mixed for about one minute to achieve the uniform coating of bitumen on mineral aggregates. Excessive mixing may un-coat the aggregates.

(e) Spreading and Compaction

For plant produced cold mixes, the paving procedures are similar to those used for hot bituminous mixes. The self-propelled pavers are recommended. Cold mixes are generally stiffer than hot mixes or not as workable as hot mixed materials, with open-graded mixture being the most difficult to place. Proper paver operation is thus very critical for obtaining a uniform and smooth mat. This includes keeping the paver speed as constant as possible and the level of mix on the augers at a nearly constant depth. If the mix sticks to paver screed or tearing of the mat occurs, a change in the mixing time or the water content shall be adjust ,which eliminate the problem. The screed should not be heated.

For an open-graded mix like the CMBM, the breaking of bitumen emulsion usually occurs quickly. With open-graded mixes, rolling may normally begin immediately behind the paver. Vibratory rolling for open-graded mixes is not recommended because fracture of aggregate and bitumen deboning may occur. A light "choke" or "blotter" of a coarse sand or fine crusher screenings may be applied after steel-wheeled rolling. The choke or blotter permits rolling with a pneumatic-tired roller and prevents pick-up of mix and damage of compacted cold mix layer by the traffic. Properly designed uniformly cold mix shall be discharged to the tippers for transportation to site. The spreading of cold mix will be done preferably by means of a self-propelled mechanical paver at a suitable speed capable of spreading, tamping and finishing to the proper grade, line and cross-section. The mix shall be spread in such a manner that, after compaction, the required thickness of surfacing layer is achieved. The paver laid cold mix, after becoming black from original brown colour due to breaking of emulsion on surface of aggregate, shall be thoroughly and uniformly compacted by a set of rollers at a speed not more than 5 km per hour. The break down rolling shall be done with 8-12 tonne three wheel steel roller and the final rolling shall be done with 8 - 10 tonne tandem roller. Before finishing rolling by

tandem roller, break down rolling shall preferably be followed by an intermediate rolling with smooth wheel pneumatic roller of 15 -30 tonne capacity having a tyre pressure of 7 kg/cm^2 the wheels of the roller shall be kept moist to prevent the picking up of mix. Rolling shall commence longitudinally from edges and progress towards the centre except on super elevated portions, where it shall progress from lower to the upper edge. Rolling shall be continued till the specified density is achieved and all roller marks are eliminated. Traffic shall be allowed after 2-3 hours, when the cold mix is well set and is not picked up by the vehicles.

(6) Quality Control

Adequate quality control at every stage of the work is essential. Therefore, field laboratory must be set up. Periodic sieve analysis of each type of mineral aggregate shall be done to ensure that the gradation of aggregate follows close to the original gradation of designed job mix. The number of samples to be taken per day would depend upon the bulk supply of aggregates made in a day at the plant site. The characteristics of mineral aggregate shall be determined at the rate of one test for every 100 m^3 of aggregates. Periodic checks of the properties of emulsion such as residue content, viscosity and residue on 600 micron IS sieve shall be done in field, in accordance to IS:8887-2004. At least one sample for every 100 tonnes of cold mix discharged at the pug mill chute or a minimum of one sample per plant per day shall be collected and various tests shall be carried out. These specimens shall be tested for density. Residual bitumen shall be extracted from mix after curing and emulsion shall be determined.

For the compacted surface of every 700 m^2 or less, one field density test shall be conducted to determine the density of mix as laid and compacted. The density shall not be less than 95 percent of the maximum laboratory density. The longitudinal profile of the finished surface shall be tested by 3 m straight edge, parallel to the centre line, and the transverse profile by a camber template. Any irregularity greater than 6 mm shall be corrected.

(7) Measurement

Bituminous cold mix bituminous macadam (CMBM) / Cold mixed semi dense Bituminous concrete (CMSDBC) shall be measured in cubic meter calculated as the product of the length and the compacted cross-sectional area of the cold mix laid as per Drawing or by weight in metric tonne or by square meter at a specified thickness as specified in the Contract.

(8) Payment

Bituminous cold mix bituminous macadam (CMBM) / Cold mixed semi dense Bituminous concrete (CMSDBC) shall be paid as per contract unit rate which shall be the full and the final compensation for the cost of compliance of all requirements specified in Clause 1301 and 1313 in addition to those specified in Clause 112.