



नेपाल सरकार
भौतिक पूर्वाधार तथा यातायात मन्त्रालय
सडक विभाग
पुल महाशाखा
पाटनढोका, ललितपुर

मिति २०७२/२/२५

RFP Notice NO : १३/०७१/७२ सम्बन्धी २०७२/०२/०१ मा प्रकाशित सूचनामा संशोधन गरिएको बारे ।

उपरोक्त विषयमा यस पुल महाशाखाको मिति २०७२/०२/०१ मा प्रकाशित RFP सम्बन्धी सूचना अनुसार मिति २०७२/०२/२० मा Consultant हरूसंग भएको Pre-Proposal Meeting मा उठेका सुझाव, जिज्ञासाहरु समेत प्रष्ट पार्ने प्रयोजनार्थ सम्बन्धित सबैको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ ।

- TOR मा संशोधन गरिएको छ । यस भन्दा अगाडी प्रकाशित RFP का आर्थिक तथा प्राविधिक प्रस्तावका सम्पूर्ण कागजातहरुको सट्टा यसै सूचनासंग प्रकाशित कागजातहरु मान्य हुनेछन् ।
- Shortlist Consultant को list, सम्बन्धित प्याकेजका सि.नं., डिजाइन गरिने पुलहरुको नाम र BOQ यसै सूचनासंग प्रकाशित भए अनुसार नै हुनेछ ।
- RFP २०७२/०२/३२ गते दिनको १२ वजे भित्र बुझाइ सक्नु पर्नेछ र सोही दिनको १ वजे खोलिनेछ ।

उप-महानिर्देशक
पुल महाशाखा



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
Bridge Branch

Request for Proposal

for
Consulting Services
for

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges

Part – I TECHNICAL PROPOSAL

Notice No.: 13/071/72

Contract No. : BB-159-DSD-071/72-....

Consultant's Name and address:

May, 2015



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Section 1. Letter of Invitation

2072/02/01

Dear,

1. Government of Nepal (GoN) has allocated fund toward the cost of cost of Consulting Services for the Design of Bridges and intends to apply a portion of this fund to eligible payments under this Contract.
2. The Department of Roads, Bridge Branch now invites proposals to provide the following consulting services: **Feasibility Study, Detailed Engineering Survey, Soil Investigation and Detailed Design of Bridges** in corresponding. More details on the services are provided in the attached Terms of Reference.
3. The Request for Proposal (RFP) has been addressed to the following shortlisted consultants:

[insert: List of Shortlisted Consultants]

4. A consultant will be selected under Quality- and Cost-Based Selection (QCBS), and procedures described in this RFP.
5. The RFP includes the following documents:

Section 1 - Letter of Invitation
Section 2 - Information to Consultants
Section 3 - Technical Proposal - Standard Forms
Section 4 - Financial Proposal - Standard Forms
Section 5 - Terms of Reference
Section 6 - Standard Forms of Contract.

6. Please inform us, upon receipt:
 - (a) that you received the letter of invitation; and
 - (b) whether you will submit a proposal alone or in association.

Yours sincerely,

Saroj Kumar Pradhan
DDG, Bridge Branch,
Department of Roads



Section 2. Information to Consultants

1. Introduction

- 1.1 The Client named in the Data Sheet will select a consultant among those listed in the Letter of Invitation, in accordance with the method of selection specified in the Data Sheet.
- 1.2 The consultants are invited to submit a Technical Proposal and a Financial Proposal, for services as specified in the Data Sheet. The proposal will be the basis for contract negotiations and ultimately for a signed contract with the selected consultant.
- 1.3 The consultants must familiarize themselves with local conditions and take them into account in preparing their proposals. To obtain first hand information on the assignment and on the local conditions, consultants are encouraged to visit the Client before submitting a proposal and are advised to attend a pre-proposal conference if one is specified in the Data Sheet.
- 1.4 The Client will provide the inputs specified in the Data Sheet, assist the consultant in obtaining licences and permits needed to carry out the services, and make available relevant project data and reports.
- 1.5 Please note that (i) the costs of preparing the proposal and of negotiating the contract, including a visit to the Client, are not reimbursable as a direct cost of the assignment; and (ii) the Client is not bound to accept any of the proposals submitted.
- 1.6 GoN (or Donor Agency) policy requires that consultants provide professional, objective, and impartial advice and at all times hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflicts with other assignments or their own corporate interests. Consultants shall not be hired for any assignment that would be in conflict with their prior or current obligations to other clients, or that may place them in a position of not being able to carry out the assignment in the best interest of the Client.
 - 1.7.1 Without limitation on the generality of this rule, consultants shall not be hired under the circumstances set forth below:
 - a. A consultant, which has been engaged by the Client to provide goods or works for a project, and any of their affiliates, shall be disqualified from providing consulting services for the same project. Conversely, consultants hired to provide consulting services for the preparation or implementation of a project, and any of their affiliates, shall be disqualified from subsequently providing goods or works or services related to the initial assignment (other than a continuation of the consultant's earlier consulting services) for the same project.
 - b. Consultants or any of their affiliates shall not be hired for any assignment which, by its nature, may be in conflict with another assignment of the consultants.
 - 1.7.2 Any previous or ongoing participation in relation to the assignment by the consultant, its professional staff or affiliates or associates under a contract with the GoN may result in rejection of the proposal. Consultants should clarify their situation in that respect with the Client before preparing the proposal.



- 1.8 It is the GoN's policy to require its implementing agencies, as well as consultants under GoN (or Donor Agency) financed contracts, to observe the highest standard of ethics during the selection and execution of such contracts. In pursuance of this policy, the GoN:
- a. defines, for the purposes of this provision, the terms set forth below as follows:
 - b. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the selection process or in contract execution; and
 - c. "fraudulent practice" means a misrepresentation of facts in order to influence a selection process or the execution of a contract to the detriment of the Client, and includes collusive practices among consultants (prior to or after submission of proposals) designed to establish prices at artificial, non-competitive levels and to deprive the borrower of the benefits of free and open competition.
 - d. will reject a proposal for award if it determines that the consultant recommended for award has engaged in corrupt or fraudulent activities in competing for the contract in question;
 - e. will cancel the consultant's contract if it at any time determines that corrupt or fraudulent practices were engaged in by representatives of the consultant or the Client during the selection process or the execution of that contract;
 - f. will debar a consultant for a stated period of time, to be awarded a contract if it at any time determines that the consultant has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract; and
 - g. will have the right to require that, a provision be included requiring consultants to permit the Client inspect their accounts and records relating to the performance of the contract and to have them audited by auditors appointed by the Client.
- 1.9 Consultants shall not be under a debarment for corrupt and fraudulent practices issued by GoN accordance with the above sub para. 1.8 (d).
- 1.10 Consultants shall be aware of the provisions on fraud and corruption stated in the Standard Contract under the clauses indicated in the Data Sheet.

2. Clarification and Amendment of RFP Documents

- 2.1 Consultants may request a clarification of any of the RFP documents up to the number of days indicated in the Data Sheet before the proposal submission date. Any request for clarification must be sent in writing by paper mail, cable, telex, facsimile, or electronic mail to the Client's address indicated in the Data Sheet. The Client will respond by cable, telex, facsimile, or electronic mail to such requests and will send written copies of the response (including an explanation of the query but without identifying



the source of inquiry) to all invited consultants who intend to submit proposals.

- 2.2 At any time before the submission of proposals, the Client may, for any reason, whether at its own initiative or in response to a clarification requested by an invited consultant, amend the RFP. Any amendment shall be issued in writing through addenda. Addenda shall be sent by mail, cable, telex, facsimile, or electronic mail to all invited consultants and will be binding on them. The Client may at its discretion extend the deadline for the submission of proposals.

3. Preparation of Proposal

Technical Proposal

- 3.1 Consultants are requested to submit a proposal Sub - Clause 1.2 written in the language(s) specified in the Data Sheet.
- 3.2 In preparing the Technical Proposal (TP), consultants are expected to examine the documents constituting this RFP in detail. Material deficiencies in providing the information requested may result in rejection of a proposal.
- 3.3 While preparing the Technical Proposal, consultants must give particular attention to the following:
- i. If a consultant considers that it does not have all the expertise for the assignment, it may obtain a full range of expertise by associating with individual consultant(s) and/or other consultants or entities in a joint venture or sub-consultancy, as appropriate. Consultants may associate with the other consultants invited for this assignment only with approval of the Client as indicated in the Data Sheet. Consultants must obtain the approval of the Client to enter into a joint venture with consultants not invited for this assignment.
 - ii. For assignments on a staff-time basis, the estimated number of professional staff-months is given in the Data Sheet. The proposal shall, however, be based on the number of professional staff-months estimated by the consultant. For fixed-budget-based assignments, the available budget is given in the Data Sheet, and the Financial Proposal shall not exceed this budget.
 - iii. It is desirable that the majority of the key professional staff proposed be permanent employees of the consultant or have an extended and stable working relationship with it.
 - iv. Proposed professional staff must, at a minimum, have the experience indicated in the Data Sheet, preferably working under conditions similar to those prevailing in Nepal.
 - v. Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) may be submitted for each position.
 - vi. Reports to be issued by the consultants as part of this assignment must be in the language(s) as specified in the Data Sheet.
- 3.4 The Technical Proposal shall provide the following information using the attached Standard Forms (Section 3):
- i. A brief description of the consultant's organization and an outline of recent experience on assignments (Section 3B) of a similar nature. For each assignment, the outline should indicate, *inter alia*, the client, location and duration of the assignment, contract amount, and consultant's involvement.
 - ii. Any comments or suggestions on the Terms of Reference and on the



data, a list of services, and facilities to be provided by the Client (Section 3C).

- iii. A description of the methodology and work plan for performing the assignment (Section 3D).
- iv. The list of the proposed staff team by specialty, the tasks that would be assigned to each staff team member, and their timing (Section 3E).
- v. CVs recently signed by the proposed professional staff and the authorised representative submitting the proposal (Section 3F). Key information should include number of years working for the consultant/entity and degree of responsibility held in various assignments during the last ten (10) years.
- vi. Estimates of the total staff input (professional and support staff; staff time) needed to carry out the assignment, supported by bar chart diagrams showing the time proposed for each professional staff team member (Sections 3E and 3G).
- vii. A detailed description of the proposed methodology, staffing, and monitoring of training, if the Data Sheet specifies training as a major component of the assignment.
- viii. Any additional information requested in the Data Sheet.

3.5 The Technical Proposal shall not include any financial information.

**Financial
Proposal**

3.6 In preparing the Financial Proposal (FP), consultants are expected to take into account the requirements and conditions outlined in the RFP documents. The Financial Proposal should follow Standard Forms (Section 4). It lists all costs associated with the assignment, including (a) remuneration for staff (, in the field and at headquarters), and (b) reimbursable expenses such as subsistence (per diem, housing), transportation (mobilization and demobilization), services and equipment (vehicles, office equipment, furniture, and supplies), office rent, insurance, printing of documents, communication(Telephone, Fax etc.) surveys, and training, if it is a major component of the assignment. If appropriate, these costs should be broken down by activity.

3.7 The Financial Proposal should include all duties, taxes and other levies , and other charges imposed under the applicable law payable by the Consultant under the Contract or for any other cause.

3.8 Consultants shall express the price of their services in Nepalese Rupees.

3.9 The Data Sheet indicates the required validity period of the proposals. During this period, the consultant is expected to keep available the professional staff proposed for the assignment. The Client will make its best effort to complete negotiations within this period. If the Client wishes to extend the validity period of the proposals, the consultants who do not agree have the right not to extend the validity of their proposals.

**4. Submission,
Receipt,
Opening
Proposals**

**and
of**

4.1 The original proposal (TP and FP) shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the consultant itself. Any such corrections must be initialled by the persons or person who sign(s) the proposals.

4.2 An authorized representative of the Consultants shall initial all pages of the original Technical and Financial Proposals. The authorization shall be in the



form of a written power of attorney accompanying the Proposal.

- 4.3 For each proposal, the consultants shall prepare the number of copies indicated in the Data Sheet. Each Technical Proposal and Financial Proposal shall be marked “**ORIGINAL**” or “**COPY**” as appropriate. If there are any discrepancies between the original and the copies of the proposal, the original governs.
- 4.4 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked “**Technical Proposal**,” and the original and all copies of the Financial Proposal in a sealed envelope clearly marked “**FINANCIAL PROPOSAL**” and warning: “**DO NOT OPEN WITH THE TECHNICAL PROPOSAL.**” Both envelopes shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address and other information indicated in the Data Sheet and be clearly marked, “**DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE.**”
- 4.5 The completed Technical and Financial Proposals must be delivered at the submission address on or before the time and date stated in the Data Sheet. Any proposal received after the closing time for submission of proposals shall be returned unopened.
- 4.6 After the deadline for submission of proposals, the Technical Proposal shall be opened immediately by the evaluation committee. The Financial Proposal shall remain sealed and deposited with the Client’s Procurement Unit until all submitted proposals are opened publicly.

5. Proposal Evaluation

General

- 5.1 From the time the bids are opened to the time the contract is awarded, if any consultant wishes to contact the Client on any matter related to its proposal, it should do so in writing at the address indicated in the Data Sheet. Any effort by the consultant to influence the Client in the Client’s proposal evaluation, proposal comparison or contract award decisions may result in the rejection of the consultant’s proposal.
- 5.2 Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation, is concluded.

Evaluation of Technical Proposals (QCBS,QBS,FBS, LCBS))

- 5.3 The evaluation committee, appointed by the Client as a whole, and each of its members individually, evaluates the proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria and point system specified in the Data Sheet. The evaluation committee shall compute the score obtained by each proposal by taking the average of the scores given by each member to the particular proposal. Each responsive proposal will be given a technical score (St). A proposal shall be rejected at this stage if it does not respond to important aspects of the Terms of Reference or if it fails to achieve the minimum technical score indicated in the Data Sheet.
- 5.4 In the case of Quality-Based Selection, the highest ranked consultant is invited to negotiate its proposal and the contract on the basis of the Technical Proposal and the Financial Proposal submitted in accordance with the instructions given in para. 1.2 and the Data Sheet.

Public Opening and Evaluation of Financial

- 5.5. The Financial Proposals shall be opened publicly in the presence of the consultants’ representatives who choose to attend. The name of the



Proposals (CBS Only)

consultant and the proposed prices shall be read aloud and recorded. The Client shall prepare minutes of the public opening.

Public Opening and Evaluation of Financial Proposals (QCBS, FBS, LCBS)

- 5.6 After the evaluation of quality is completed, the Client shall notify those consultants whose proposals did not meet the minimum qualifying mark or were considered non-responsive to the RFP and Terms of Reference, indicating that their Financial Proposals will be returned unopened after completing the selection process. The Client shall simultaneously notify the consultants that have secured the minimum qualifying mark, indicating the date and time set for opening the Financial Proposals. The opening date shall be 7 after the notification date. The notification may be sent by registered letter, cable, telex, facsimile, or electronic mail.
- 5.7 The Financial Proposals shall be opened publicly in the presence of the consultants' representatives who choose to attend. The name of the consultant, the technical scores, and the proposed prices shall be read aloud and recorded when the Financial Proposals are opened. The Client shall prepare minutes of the public opening.
- 5.8 The evaluation committee will determine whether the Financial Proposals are complete (i.e., whether they have costed all items of the corresponding Technical Proposals; if not, the Client will cost them and add their cost to the initial price), correct any computational errors.
- 5.9 In case of Fixed Budget Selection (FBS), the consultant's Financial Proposals with cost more than the specified fixed budget ceiling by the Client in Data Sheet shall be rejected.
- 5.10 In case of Least Cost Based Selection (LCBS), the consultant's proposal which has scored the minimum pass mark in the Technical proposal and is of the least cost in the financial proposal shall be invited for negotiation.
- 5.11 In case of QCBS and FBS with financial proposal within specified fixed budget ceiling, the lowest Financial Proposal (Fm) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights ($T =$ the weight given to the Technical Proposal; $P =$ the weight given to the Financial Proposal; $T + P = 1$) indicated in the Data Sheet: $S = St \times T\% + Sf \times P\%$. The consultant achieving the highest combined technical and financial score will be invited for negotiations.

6. Negotiations

- 6.1 Negotiations will be held at the address indicated in the Data Sheet. The aim is to reach agreement on all points and sign a contract.
- 6.2 Negotiations will include a discussion of the Technical Proposal, the proposed methodology (work plan), staffing and any suggestions made by the consultant to improve the Terms of Reference. The Client and consultant will then work out final Terms of Reference, staffing, and bar charts indicating activities, staff, periods in the field and in the home office, staff-months, logistics, and reporting. The agreed work plan and final Terms of Reference will then be incorporated in the "Description of Services" and form part of the contract. Special attention will be paid to getting the most the consultant can offer within the available budget and to clearly defining the inputs required from the Client to ensure satisfactory implementation of the assignment.
- 6.3 Unless there are exceptional reasons, the financial negotiations will involve



neither the remuneration rates for staff (no breakdown of fees) nor other proposed unit rates in the cases of QCBS methods. For QBS, the consultant should provide the information on remuneration rates described in the Appendix to this information.

- 6.4 Having selected the consultant on the basis of, among other things, an evaluation of proposed key professional staff, the Client expects to negotiate a contract on the basis of the experts named in the proposal. Before contract negotiations, the Client will require assurances that the experts will be actually available. The Client will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or that such changes are critical to meet the objectives of the assignment. If substitution is considered then the proposed alternative candidate shall be evaluated as per the original criteria. The qualification and experience of the substitute candidate shall equal to or higher than the originally proposed candidate. If this is not the case and if it is established that key staff were offered in the proposal without confirming their availability, the consultant may be disqualified.
- 6.5 The negotiations will conclude with a review of the draft form of the contract. . If negotiations fail, the Client will invite the consultant whose proposal received the second highest score to negotiate a Contract.

7. Award of Contract

- 7.1 Pursuant to Sub-Clause 6.5, the consultant, with whom agreement is reached following negotiation, shall be selected for approval of his proposal and the Client shall notify it's intention to accept the proposal to the selected consultant and other short-listed consultants within 7 days of selection of the winning proposal.
- 7.2 Any consultant, who has submitted a proposal and is not satisfied with the procurement process or Client's decision provided as per Sub - Clause 7.1 and believes that the Client has committed an error or breach of duty which has or will result in loss to him then the consultant may give an application for review of the decision to the Client with reference to the error or breach of duty committed by the Client. The review application should be given within 7 days of receipt of information regarding the issue of letter by the Client notifying it's intention to accept the winning proposal pursuant to Sub Clause 7.1.
- 7.3 If the review application is not received by the Client pursuant to Sub-Clause 7.2 then the proposal of the Consultant, selected as per Sub-Clause 7.1 shall be accepted and the successful consultant shall be notified to come for signing the Agreement within 15 days.
- 7.4 If the Consultant fails to sign an agreement pursuant to Sub-Clause 7.3 then the Client will invite the consultant whose proposal received the next highest score to negotiate a contract.
- 7.5 If a review application is received by the Client pursuant to Clause 7.1 then the Client will clarify and respond within 5 days of receiving such application
- 7.6 If the applicant is not satisfied with the decision given by the procuring entity and/ or the decision is not given by the Procuring Entity Chief within 5 days then the applicant can file a complaint to the Review committee within 7 days.
- 7.7 The Client shall return the unopened Financial Proposals of those consultants



who did not pass the technical evaluation.

- 7.8 The consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.

8. Confidentiality

- 8.1 Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the consultants who submitted the proposals or to other persons not officially concerned with the process, until the letter of intention to accept the proposal is not issued to the selected consultant pursuant to Sub- Clause 7.1.

9. Conduct of Consultants

- 9.1 The Consultant shall be responsible to fulfill his obligations as per the requirement of the Contract Agreement, RFP documents and GoN's Public Procurement Act and Regulations.
- 9.2 The consultant shall not carry out or cause to carryout 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 or being involved in corrupt or fraudulent practice
 - d. interference in participation of other prospective bidders.
 - e. coercion or threatening directly or indirectly to impair or harm, any party or the property of the party involved in the procurement proceedings,
 - f. collusive practice among consultants before or after submission of proposals for distribution of works among consultants or fixing artificial/uncompetitive proposal price with an intention to deprive the Client the benefit of open competitive proposal price.
 - g. contacting the Client with an intention to influence the Client with regards to the proposals or interference of any kind in examination and evaluation of the proposals during the period after opening of proposals up to the notification of award of contract

10. Blacklisting Consultant

- 10.1 Without prejudice to any other rights of the Employer under this Contract , the Public Procurement Monitoring Office may blacklist a Consultant for his conduct up to three years on the following grounds and seriousness of the act committed by the consultant:
- a) if it is proved that the bidder committed acts pursuant to the Information to Consultants clause 9.2,
 - b) if the bidder fails to sign an agreement pursuant to Information to Consultants clause 7.3,
 - c) if it is proved later that the bidder/contractor has committed substantial defect in implementation of the contract or has not substantially fulfilled his obligations under the contract or the completed work is not of the specified quality as per the contract
 - d) if convicted by a court of law in a criminal offence which disqualifies the consultant from participating in the contract.
 - e) if it is proved that the contract agreement signed by the consultant was based on false or misrepresentation of consultant's qualification information,



f) other acts mentioned in the Data Sheet or SCC

10.2 A Consultant declared blacklisted and ineligible by the Non-Public procurement Office and or concerned Donor Agency in case of donor funded project shall be ineligible to bid for a contract during the period of time determined by the GON and or the concerned donor agency.



Information to Consultants

DATA SHEET

Clause Reference

1.1	The name of the Client is: The Department of Roads Bridge Branch The method of selection is: Quality- and Cost-Based Selection (QCBS)
1.2	The name, objectives, and description of the assignment are: Name : Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges Objectives: Detailed Design of Bridges Description: Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges
1.3	A pre-proposal conference will be held: Yes (on 2072/02/20 at Mechanical Training Centre, Patandhoka, 2 PM) The name(s), address(es), and telephone numbers of the Client's official(s) are: Name: Saroj Kumar Pradhan Address: Bridge Branch, Department of Roads Contact Telephone No.: Pradip Bhandari (9841393097) Anju Pariyar (9849220843) Manda Pant (9851141720) Naresh Prasad Keshari (9851070750) Mahendra Majhi (9851039239)
1.4	The Client will provide the following inputs: NA
1.10	The clauses on fraud and corruption in the Contract are: As per prevailing laws of Nepal
2.1	Clarifications may be requested 7 days before the submission date The address for requesting clarifications is: Department of Roads Bridge Branch Mechanical Training Center Patandhoka Lalitpur Nepal



3.1	Proposals should be submitted in the following language(s): English								
3.3	(i) Short listed consultants/entity may not associate with other short listed consultants: (ii) The estimated number of professional staff-months required for the assignment is: NA <u>Available Budget for Fixed Budget Assignment</u> : NA (iv) The minimum required experience of proposed professional staff is: As indicated in the TOR (vi) Reports that are part of the assignment must be written in the following language(s): English								
3.4	(vii) Training is a specific component of this assignment: No (viii) Additional information in the Technical Proposal includes: See TOR								
3.9	Proposals must remain valid 90 after the submission date.								
4.3	Consultants must submit an original and no additional copies of each proposal:								
4.4	The proposal submission address: Department of Roads Bridge Branch Mechanical Training Center Patandhoka Lalitpur Nepal Information on the outer envelope should also include : Name of the Project or consulting services								
4.5	Proposals must be submitted no later than: As mentioned in the Letter of Invitation								
5.1	The address to send information to the Client is: Department of Roads Bridge Branch Mechanical Training Center Patandhoka Lalitpur Nepal								
5.3	The number of points to be given under each of the evaluation criteria are: <table> <tr> <td><u>Points</u></td><td></td></tr> <tr> <td>(i) Relevant experience of the consultants</td><td>10</td></tr> <tr> <td>(ii) Understanding of the TOR and Methodology of work</td><td>40</td></tr> <tr> <td>(iii) Qualifications and competence of the proposed key personals</td><td>45</td></tr> </table>	<u>Points</u>		(i) Relevant experience of the consultants	10	(ii) Understanding of the TOR and Methodology of work	40	(iii) Qualifications and competence of the proposed key personals	45
<u>Points</u>									
(i) Relevant experience of the consultants	10								
(ii) Understanding of the TOR and Methodology of work	40								
(iii) Qualifications and competence of the proposed key personals	45								



	(iv) Technology transfer and training 5 Total Points 100 Minimum total technical score required to pass is 65% The number of points to be given under each evaluation sub criteria for qualifications of staff are: <u>Points</u> 1. Relevant experience of the consultants 10 2. Understanding of the TOR and Methodology of work 40 a. Understanding of the TOR 5 b. Technical approach and methodology 20 c. Relevant task schedule 5 d. Manning schedule 5 e. Innovativeness 5 3. Qualification and competence of the proposed personnel 45 a. Team Leader(Bridge/Structural engineer) 20 Education 4 General Experience 3 Specific Experience 10 Position Held 3 b. Geotechnical engineer 15 Education 3 General Experience 2 Specific Experience 10 c. Hydrologist 10 4. Technology Transfer and Training 5
<u>5.8</u>	The fixed Budget Ceiling for the assignment is : NA
5.11	The formula for determining the financial scores is the following: $S_f = 100 \times F_m/F$, in which S_f is the financial score, F_m is the lowest price and F the price of the proposal under consideration The weights given to the technical and Financial Proposals are: T (Technical Proposal) = 0.80 P (Financial Proposal) = 0.20
6.1	The address for negotiations is: Department of Roads Bridge Branch Mechanical Training Center Patandhoka Lalitpur Nepal
7.8	The assignment is expected to commence on 7 th day from the <i>signing of the contract</i>

Section 3. Technical Proposal - Standard Forms

- 3A. Technical Proposal submission form.
- 3B. Consultant's references.
- 3C. Comments and suggestions of consultants on the Terms of Reference and on data, services, and facilities to be provided by the Client.
- 3D. Description of the methodology and work plan for performing the assignment.
- 3E. Team composition and task assignments.
- 3F. Format of curriculum vitae (CV) for proposed professional staff.
- 3G. Time schedule for professional personnel.
- 3H. Activity (work) schedule.



3A. TECHNICAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of Client]

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for [Title of consulting services] in accordance with your Request for Proposal dated..... [Date] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope.

If negotiations are held during the period of validity of the Proposal, i.e., before [Date] we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Consultant:

Address:



3B. CONSULTANT'S REFERENCES

Relevant Services Carried Out in the Last Five Years That Best Illustrate Qualifications

Using the format below, provide information on each assignment for which your Consultant/entity, either individually as a corporate entity or as one of the major companies within an association, was legally contracted.

Assignment Name:		Country:
Location within Country:		Professional Staff Provided by Your Consultant/Entity(profiles):
Name of Client:		No.of Staff:
Address:		No.of Staff-Months; Duration of Assignment:
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services NRs
Name of Associated Consultants, If Any:		No.of Months of Professional Staff Provided by Associated Consultants:
Name of Senior Staff, Designation (Project Director/Coordinator, Team Leader etc.) Involved and Functions Performed:		
Narrative Description of Project: :(Actual assignment, nature of activities performed and location)		
Description of Actual Services Provided by Your Staff:		

Consultant's Name: _____



3C. COMMENTS AND SUGGESTIONS OF CONSULTANTS ON THE TERMS OF REFERENCE AND ON DATA, SERVICES, AND FACILITIES TO BE PROVIDED BY THE CLIENT

On the Terms of Reference:

- 1.
- 2.
- 3.
- 4.
- 5.

On the data, services, and facilities to be provided by the Client:

- 1.
- 2.
- 3.
- 4.
- 5.



3D. DESCRIPTION OF THE METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT-SEE TOR



3E. TEAM COMPOSITION AND TASK ASSIGNMENTS

1. Technical/Managerial Staff		
Name	Position	Task

2. Support Staff		
Name	Position	Task



3F. FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Proposed Position: _____

Name of Consultant: _____

Name of Staff: _____

Profession: _____

Date of Birth: _____

Years with Consultant/Entity: _____ Nationality: _____

Membership in Professional Societies: _____

Detailed Tasks Assigned: _____

Key Qualifications:

[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations. Use about half a page.]

Education:

[Summarize college/university and other specialized education of staff member, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]

Employment Record:

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]

Languages:

[For each language indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

[Signature of staff member and authorized representative of the consultant] Date: _____
Day/Month/Year

Full name of staff member: _____

Full name of authorized representative: _____



3G. TIME SCHEDULE FOR PROFESSIONAL PERSONNEL- SEE TOR**3H. ACTIVITY (WORK) SCHEDULE**

A. Field Investigation and Study Items

	[1st, 2nd, etc. are months from the start of assignment.]												
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	
Activity (Work)													

B. Completion and Submission of Reports

Reports	Date
1.	
2.	
3.	
4.	



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
Bridge Branch

Request for Proposal

for
Consulting Services
for

**Feasibility Study, Detailed Engineering
Survey, Soil Investigation, Hydrological Study
and Detailed Design of Bridges**

Part – II FINANCIAL PROPOSAL

Notice No.:

Contract No. :

Consultant's Name and address:

May

2015



Section 4. Financial Proposal - Standard Forms

- 4A. Financial Proposal submission form.
- 4B. Summary of costs.
- 4C. Breakdown of price per activity.
- 4D. Breakdown of remuneration per activity.
- 4E. Reimbursables per activity.
- 4F. Miscellaneous expenses.

4A. FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of Client]

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for [Title of consulting services] in accordance with your Request for Proposal dated [Date] and our Proposal (Technical and Financial Proposals). Our attached Financial Proposal is for the sum of [Amount in words and figures]. This amount is inclusive of the local taxes except Value Added Tax(VAT), which we have estimated at [Amount(s) in words and figures].

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e., [Date].

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Consultant:

Address:



4B. SUMMARY OF COSTS

SEE ATTACHED BILL OF QUANTITIES(PLEASE SELECT AND FILL ONLY THE APPROPRIATE BILL OF QUANTITIES FROM THE PROVIDED LIST IN WHICH YOU ARE SHORTLISTED FOR SUBMISSION OF RFP)



-
- 4C. BREAKDOWN OF PRICE PER ACTIVITY(NOT APPLICABLE)**
- 4D. BREAKDOWN OF REMUNERATION PER ACTIVITY(NOT APPLICABLE)**
- 4E. REIMBURSABLES PER ACTIVITY(NOT APPLICABLE)**
- 4F. MISCELLANEOUS EXPENSES(NOT APPLICABLE)**

Section 5. Terms of Reference

For Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of Bridges

Name of Bridges: Refer attached package list

Name of Road: Refer attached package list

Location: Refer attached package list

1. INTRODUCTION

The Department of Roads, Bridge Branch (herein after referred as "the DOR" or as "the Department"), intends to utilize services of engineering consulting firms well experienced in the fields of soil investigation, hydrological studies, bridge engineering, river training works, environment aspects etc. for providing engineering consulting services for detail design work of proposed Bridge(s) including river training works, and approach roads.

2. OBJECTIVE

Objective of this job is to design a **safe, reliable** and **cost effective** bridge using the appropriate technology. The bridge is to be designed considering the availability of skilled manpower, construction material, condition of accessibility and other prevailing working conditions.

3. SCOPE OF WORK

The scope of work to be carried out by the consultant shall include but may not be limited to the following:

3.1. Desk study:

A desk study should be carried out, collecting all data, maps and information relevant to bridge design and reviewing for planning of further field survey and investigation works as well as detailed design.

3.2. Feasibility Study :

Feasibility Study shall include the following:

3.2.1. Technical Feasibility study:

It should include reviewing the available data, collecting, reviewing and analysis of field data to be used in the study and conducting analysis to decide upon the technical feasibility of the bridge site(s). A cost comparison of different types of bridge shall be made and discussed with the DOR before proceeding to bridge site for soil investigation.

In this study the following points related to the river, its catchment area and all the considered bridge sites should be studied in detail.

- (i) Topography
- (ii) Nature and structure of the surface soil
- (iii) Nature and structure of local as well as regional geology
- (iv) Other information as needed.

3.2.2. Bridge Site Selection

Alternative bridge sites shall be studied based on 3.2.1 and the most suitable site for the bridge based on the above criteria of the site as well as the catchment area shall be selected. The selected site should be clearly



indicated in the map and all the characteristic features of the chosen bridge site shall be given, in order to facilitate easy reference while designing the bridge.

3.2.3. Topographical Survey

The topographical survey of the area should cover a minimum distance of **500 m** upstream, **200 m.** downstream and **200 m** from the river banks on either sides of the river at the proposed bridge site. The Topographic map should show the following :

- (i) Contours at 1(one)m. intervals in hilly area and at 0.25 m in plain area.
- (ii) Flood lines on either sides of the river in the entire area surveyed.
- (iii) Lines with spot levels along which the bed slope of the river is taken
- (iv) Both banks of the river
- (v) Lines along which cross section of the river is taken
- (vi) Govt. and/or public establishments
- (vii) Traverse lines, benchmarks reference lines and/or points with respect to which the present topomap is prepared.
- (viii) The angle and direction of skew , if the bridge is proposed to be aligned skew.
- (ix) The Names of the nearest identifiable villages/towns etc. in either ends of the bridge.
- (x) Other information relevant to design, construction and/or maintenance of the bridge.

3.2.4. Hydrological Study

For determination of all design data the consultant shall carry out a detailed hydrometrical survey and hydrological study of the river and bridge site, which shall include the following:

- (i) Catchment area of the river up to bridge site
- (ii) Length of the river from origin up to bridge site
- (iii) Possibility of change of catchment
- (iv) Nature, size and quantities of debris carried by the river
- (v) Intensity, duration and distribution of rain in the catchment
- (vi) Vegetation, cultivation etc. of the catchment.
- (vii) Existence of reservoir's, Lakes etc. in the catchment.
- (viii) Existing bridge or other hydraulic structures across the river in the vicinity of the proposed bridge site with their details as much as possible.
- (ix) General slope of the river from the critical point (origin) of the river up to bridge site and general slope of the catchment in both sides of the river.
- (x) Cross sections covering 200m. beyond flood lines of the river at proposed bridge site, at about 500m. u/s and about 200m d/s. wherein HFL, LWL,LBL, area of the cross section, wetted perimeter and geological profile with silt factor of each strata (at proposed bridge site only) shall be indicated. (horizontal and vertical scale of the cross section shall be the same.)
- (xi) Bed slope of the river which must start from 100m. up of the U/S cross section and end at 100 m. down of the d/s. cross section.
- (xii) Maximum discharge calculated by established formulas with different return periods and the peak discharge observed over a period of 100 years.
- (xiii) Velocity and depth of flow at the time of survey.
- (xiv) Shifting of the river in the past at proposed bridge site and in its vicinity.



-
- (xv) Other information required for river control, design, construction and maintenance of the bridge.

3.2.5. Seismological Study:

The consultants shall collect and refer to the available data regarding the seismic records of the area. Seismic Forces: According to the Indian Standard Criteria for Earthquake Resistant Design of Structures, IRC: 6 may be followed.

3.2.6. Environmental Study

The consultant shall predict damages to the Environment and attempt to mitigate or minimize the damages by choosing appropriate site, cross-section, type of structures etc. and suggest appropriate measures in the design for protection of surrounding Environment. The Environmental Protection Act, Environmental Protections Rules and the DOR environmental policies including Environmental and Social Management Framework (ESMF), modified by GESU/DOR for bridges should be followed.

3.3. Preliminary Design of Bridge

After the selection of the proposed bridge site with alternatives and preparation of topographic maps, the Consultant shall prepare a Preliminary Design Report including feasibility report and discuss with concerned Project In-charge of the DOR on the overall feasibility of the site, boring numbers and locations, concept design and other aspects as listed below for the detailed survey and design of the bridge:

- i. Design discharge
- ii. Scour depth, Maximum Scour depth
- iii. Linear waterway needed to be provided
- iv. Anticipated soil condition for foundation
- v. The most feasible proposed bridge site
- vi. River- training & approach roads.
- vii. Type of proposed foundation, substructure and superstructure.

The discussion will be done on the basis of the topographic maps, preliminary findings of the parameters (i to vii) above, location of the bridge with respect to the complete road network of the district. After discussion and finalizing of the bridge site/axis the consultant shall carry out subsurface exploration which shall include the followings:

3.3.1. Test pits and auguring

Test pits and auger-holes in the riverbed to a depth as mentioned in the BOQ for determining the mean particle size of riverbed materials in each layer.

3.3.2. Bore-holes, field tests and laboratory tests

The properties of the underlying soil are determined by field and laboratory tests of the soil samples obtained from the bore holes drilled to a depth as mentioned in the next section and/or the Bill of Quantities. As far as possible, the locations of the boreholes shall be under each abutment and piers. Generally the following tests are conducted for determination of soil properties:

S.N.	Type of test	Frequency
1	Undisturbed Soil Sampling	at least 2 at each borehole



2	Standard Penetration Test	as required but the interval not less than 1.5 m and every change of soil strata
3	Grain size analysis	at least 2 at each borehole
4	Hydrometer analysis	at least 2 at each borehole
5	Moisture content	at least 2 at each borehole
6	Bulk and dry density	at least 2 at each borehole
7	Unconfined compression test	at least 2 at each borehole
8	Consolidation test	at least 2 at each borehole
9	Direct shear test	at least 2 at each borehole

If required by the field condition, the Consultant shall conduct other types of tests. Similarly the frequency of the above tests can be increased if required. The cost of all the field and laboratory tests shall be incorporated in the cost of soil investigation works. No separate payment shall be made for the tests.

3.3.3. Depth of soil exploration`

The depth of soil exploration from ground level shall be as follows:

SN	Type of soil	Governing depth
1	Silty, sandy, clayey soil	3 times the design scour depth, or 1.5 times the least dimension of the foundation footing, or 20 m, whichever is maximum
2	Granular soil (gravels, boulders)	2 times the design scour depth, or 1.5 times the least dimension of the foundation footing, or 16 m, whichever is maximum
3	Rocks (soft or hard)	Not exceeding 8 m.

The above mentioned depths are indicative. The Consultant shall decide the actual required depth of soil investigation according to the field condition and design parameters. But in any case the Consultant shall be paid only up to the depth mentioned in the Bill of Quantities. If rock is found at the beginning or at mid-depth then the drilling works shall not exceed the depth as mentioned in the table above. In such case the payment shall be made only for the actual depth.

For example, if rock is found at a depth of 12 m. and if the maximum required depth is 16 m, then drilling shall continue only for further 4 m., and the payment shall be done for 16 m. If rock is exposed on the surface then drilling shall be done up to a depth of 8 m., and the payment shall be done for 8 m. But if the thickness of rock at the surface is 6 m then the drilling shall continue further to the required maximum depth.

3.3.4. Changes in soil strata

N/A

3.3.5. Soil exploration works to be certified

The Department, if required, may ask the Consultant to submit the soil/rock samples obtained from the drilling works in core boxes and/or a bore-log certified by the concerned Division/Project Office or movie clips by using Mobile Data Collection System (MDCS) software (MDCS software will be provided by DoR).

3.3.6. Other information

Availability of construction materials like, sand gravel boulders, timber, etc. with their engineering properties, quantities and lead up to the bridge site, quarry site of materials with their available quantities should be shown on a sketch plan with reference to Bridge site.



3.4. Analysis of Data, Conclusion and Recommendation of Design Parameters.

Based upon the above mentioned studies and investigations the consultants shall make the best use of their technical know-how and professional skill to arrive at and recommend the most cost effective design parameters. The consultant shall discuss in detail at least three different options and shall recommend the most appropriate option.

The consultants are required to design the bridges keeping in view of the introduction of modern construction materials and technology into bridge construction industry. It is highly recommended to use pre-stressed concrete in their design. Ordinary RCC or Steel superstructures shall only be accepted if there is sufficient ground in favour of them as compared with the pre-stressed concrete.

3.5. Miscellaneous

If not covered by aforesaid, the Consultants shall perform other studies, explorations, tests surveys, calculations, etc. required to produce full and complete set of working drawings, specifications, bills of quantities, requirement of materials and complete cost estimates for the bridge/s including related works based upon which construction activities can be started to complete without further study and/or reference to them.

3.6. Detailed design and quantity/cost estimates

Based on the collected information and results of the discussions mentioned above the consultants shall design the bridge following the standard codes of practice, norms and guidelines. The relevant **codes of IRC for the design of bridges and Nepal Bridge Standards-2067** shall be followed. The list of all reference literature and materials shall be provided on the report.

The consultants shall produce detailed quantity estimate of the bridge and its accessories. They shall collect information on sources of materials and their lead distances and prepare rate schedules and cost estimates based on the standard norms and prevailing district rates.

3.7. Use of Standard Design(s)

Depending upon the site condition and other factors the Consultants can use the Standard Design of the part(s) of the bridge, which shall be made available by the DOR. This matter will be discussed and finalized during the presentation of the Preliminary Design or at a later stage convenient to both parties. If such Standard Design is used the Consultants shall adjust the design of other parts of the bridge to incorporate the parameters of the Standard Design.

If it is decided to use any Standard Design, the Payments shall be adjusted according to the Conditions of Contract and/or as mentioned in the BOQ.

3.8. The checklist

The detailed requirements of the design report are given in the checklist at the end of this TOR. Before submitting the report the consultants should verify whether it complies with the checklist.

4. SUBMISSION OF REPORTS AND PRESENTATION OF THE WORKS

In accordance with DOR's standard and procedures the consultant shall submit his reports as under:



4.1. Inception Report

This report shall contain bridge location with alternatives, **cross-section of bridge axis of each alternatives showing hydrological and geological elements**, bank conditions, general geology, general hydrology, location plan, social acceptability, tentative bridge type with length, span arrangement etc. This shall contain Index map as well as location map of the bridge with respect to main road network. Inception report shall be submitted to DOR in one copy and shall be presented in Bridge Branch, DOR.

4.2. Field Report & Preliminary Design Report

This report will contain bridge site plan showing alignment of bridge foundations and locations of bore holes, logs with description of samples taken at every change of strata. Preliminary field report shall be submitted to DOR in two copies and should be discussed with DOR.

This report shall contain the preliminary design concepts and short descriptions relating to the proposed structure and its major components, e.g. superstructure, pier, foundations river training/ bank protection structures, approach road etc. It shall include location of proposed foundations and arrangement of the bridge components along with comparison between the possible alternative types. **(Please also see Clause 3.7, Use of Standard Designs)**. This report shall be submitted in **three** copies and the content shall be discussed with DOR **before proceeding to the detailed design of the bridge. The DOR may also ask to present the Preliminary Design Report to the DOR audience.** The cost of such presentation shall be borne by the Consultants.

4.3. Draft Report

This report shall in all respect be complete, containing all the required components of the design and be presented in clear and easy to refer formats as per the general design guidance attached. The complete set of the report shall consist of:

- (i) Volume I – Main Report
- (ii) Volume II – Drawings
- (iii) Volume III – Design Calculations
- (iv) Volume IV – BOQ and Special Provisions to Standard Specifications, if any
- (v) Appendices

Please refer to the checklist provided with this TOR for number of copies and detailed requirements of the reports. The Report shall also include the drawings, quantity and cost estimate of any Standard Design that is used in the Design.

4.4. Presentation of the Draft Report

The Consultants shall present the design report in specified format and defend it to the DOR audience prior to the submission of the final report. They shall review the issues raised during the presentation while finalizing the report and make necessary amendments/corrections if needed. The date and venue of the presentation shall be determined by mutual agreement between the Bridge Branch and the consultants. The cost of such presentation shall be borne by the consultants.

4.5. Final Report

Apart from the presentation, the DOR/Bridge Branch will verify the content of the report against the Terms of Reference and the checklist. The DOR may also discuss upon the technical content of the report and may suggest



some changes if thought necessary. While preparing the Final Report the consultants shall consider the comments/suggestions and make corrections or amendments if required. It does not, however, relieve the consultants of their responsibility over the technical content of the design. The final report shall be submitted in stipulated number of copies as indicated in the checklist.

4.6. Soft copy (electronic copy) of the design report

Apart from the bound report the consultants shall submit soft copies (electronic copies) of the final report in CD-ROMs as specified in the checklist.

5. TIME SCHEDULE

If not indicated otherwise in the contract documents the consultant shall complete the assigned works as per the following schedule:

- (i) Inception Report within 4 (Four) weeks started from the date of signing of the Agreement.
- (ii) Field Report & Preliminary Design Report within 12 (Twelve) weeks started from the date of signing of the Agreement.
- (ii) Draft Report within 24 (Twenty four) weeks started from the date of signing of the Agreement.
- (iii) Final Report within 4 (Four) weeks after receiving DoR's Comments and suggestions on the draft report.

6. WORKING TEAM

The working team for field and office works should necessarily consist of the following Key Personnel together with adequate supporting manpower.

SN	Personnel	Preferred academic qualification	Minimum years of general experience
1	Team Leader (Bridge/Structural Engineer)	Master's in Civil Engineering	10 years
2	Geotechnical Engineer / Engineer Geologist / Geologist	Master's in Geotechnical Engineering / Engineering Geology / Geology	5 years
3	Hydrologist	Master's degree in Hydrology/Water Resources	5 years

If a consulting firm/s is selected for more than 1 package, a separate team of key personnel with equivalent or better qualification shall be proposed for other package prior to signing of the contract. Upon failure to do so, the next consultant securing high combined score will be called for agreement.

DEFECT LIABILITY

6.1. Responsibility for survey and design

Submission of the final reports does not relieve the consultant from their responsibility to the design. They shall bear full responsibility for:

- (i) Authenticity of all the field data including socio-economic, environmental, topographic, hydrological and geological information;



-
- (ii) Correctness of the design and all the calculations (except for the Standard Design, if used);
 - (iii) Correctness of the drawings;
 - (iv) Correctness of any other details related to construction

6.2. Assistance during construction phase

During construction the consultants, upon written request from the DOR, shall visit the bridge site and provide necessary technical assistance. The consultants shall be paid for such visits (travel cost and daily allowances) as per the approved norms. But if any changes in the design are required due to the mistake in any data, information etc. in the study, the consultants shall furnish it free of cost as per the Condition of Contract.

6.3. Acceptance of responsibility

The Consultants may be asked to submit signed Statement of Acceptance of Responsibility as mentioned above in sections 8.1 and 8.2 attached together with the final report.



Checklist for Detailed survey and design of bridges

This paper serves as a guideline for checking the detailed engineering survey and design of bridges, received from the consultants.

General procedure for checking the design report:

Checklist for content of the package:

Particulars	Required information / number / range / value(s)
Volume I - Main report	Draft – 2 copies; Final – 3 copies
Volume II – Drawings	Draft – 2 copies; Final – 3 copies
Volume III – Design calculations	Draft – 2 copies; Final – 3 copies
Volume IV – BOQ and Special Provisions to Standard Specifications (if required)	Draft – 2 copies; Final – 3 copies
Soft (electronic) copies of the report	2 copies in CD-ROM with hard plastic case

1. Content of Main Report (Volume I)

1.1 Statement of acceptance of responsibility

A signed acceptance of responsibility to the authenticity of field data and correctness of design shall be attached to each copy of the main report.

1.2 Salient features:

Particulars	Required information / number / range / value(s)
Name of the Project :	Job description as mentioned in the work-order
Location :	
Development Region	Name of the development region
Zone	Name of the zone
District	Name of the district
Village/town	Name of the surrounding VDC/town/municipality or any pertinent landmark in the vicinity of the bridge.
Name of the Road :	Popular / formal name of the road (e.g. Prithvi Rajmarg) and road reference number from the SRN data (if applicable)
Origin and Destination of the Road	Origin and destination (e.g. Naubise – Pokhara)
Chainage of the Bridge Site	chainage from the origin of the road
Geographical Location :	
Easting	East coordinate
Northing	North coordinate
Classification of the Road	NH / FRN / FRO / DR / UR / Other
Type of the road surface	BT / GR / ER / Track only
Terrain / Geology	General terrain (Hill, mountain or plain) and general geology
Information on structure:	
Total length of the bridge	Total length between edges of the end decks
Span arrangement	Number x effective lengths of spans



Total width of the bridge:	Total width between edges of the deck
Width of:	
Carriageway:	Clear width available to vehicles
Footpath(s):	Clear width available to pedestrians
Kerbs	Width at the bottom of the kerb
Type of superstructure:	Overall system (e.g. Three girder RCC T-beam & deck / <Type> Steel truss & RCC deck / Four Steel plate I-girders & RCC deck, arch, prestressed etc. etc.)
Type of bearings:	Type of bearings with their dimensions
Type of abutments:	Shape and material in the abutment (e.g. Rectangular RCC with cantilever return wall, or RCC isolated columns with stone pitched slope and wing walls, etc.)
Type of pier(s):	Shape and material (e.g. Rectangular solid / hollow RCC wall, or RCC Hammer-head with solid circular body, etc.)
Type and depth of foundations:	Type and depth from the maximum scour level. Separately for each, if type and depth of foundations for different units are varying
Sketches:	Sketches of the general arrangement of the bridge with gross dimensions (plan, elevation and cross section) in a reduced scale from the main drawings to be attached in A4 or A3 size sheet.
Design data:	
Live load:	Load classes considered
Net bearing capacity of soil	Net bearing capacity applied in design
Design discharge	
Linear waterway	
Summary of quantities of materials:	
Grade and quantity of concrete:	
In superstructure:	Grade and total quantity including girders, deck, parapet, kerb, footpath, railings and approach slab
In substructure:	Grade and total quantity including pier/abutment cap, stoppers, abutment return-walls, ballast wall, pier/abutment stem above pile/well cap and in case of open foundation above base-plate.
In foundation:	Grade and total quantities of pile/well cap, well steining and curb, piles, foundation base-plate and other accessories.
Grade and quantity of structural steel:	
In superstructure:	Steel grade and quantities of truss members, gusset plates and nut-bolts, plate girders including accessories,
In substructure:	Grade and quantity (if any) in abutment/piers
In foundation:	Grade and quantity in foundation (e.g. well-shoe, pile tips etc.)
Grade and quantity of reinforcing steel:	
In superstructure:	Grade and total quantity as in quantity of concrete
In substructure:	Grade and total quantity as in quantity of concrete
In foundation:	Grade and total quantity as in quantity of concrete
Quantities of other materials:	
Stone masonry:	Total quantity (e.g. in wing walls, foundation base, river protection works etc.)
Gabion works:	Total quantity (e.g. in wing walls, river training and riverbed protection works etc.)

Formworks:	Quantities in superstructure, substructure, foundation and others if any.
Timber:	Total quantity excluding formwork and staging.
Other:	
Summary of cost:	
Superstructure:	
Substructure:	
Foundation:	
Approach road:	
River training works:	
Total net cost of the bridge:	
Total gross cost of the bridge:	

1.3 Field works:

The following should be complied with at the proposed bridge site.

Centerline of the proposed bridge	Three R.C.C. posts (1:2:4) of 15cm x 15cm in section and 1m length each should be installed minimum 30m apart and projecting 15cm above the ground in the center line of the bridge. Iron rods of not less than 15cm in length and 8mm in dia fixed in center and flushing top surface of the each post shall form the centerline of the bridge. All posts shall be installed beyond the zone of inundation and there should be at least one post on each bank of the river.
Bench Marks	Similar posts (at least one post in each bank) should be fixed in the right of way and beyond the zone of inundation's as Bench Marks, whereon B.M. No. and elevation must be written in fast colour paint on two opposite faces of the post. If permanent structures are available, they can be used for B.M. in lieu of the posts. All central line and Bench Mark posts should be connected with sufficient permanent reference points.
Bore/drill logs	Bore/drill logs should be certified by the engineer of the DOR/Division Road Office/Project.

1.4 Detailed Engineering Study and Survey:

Geology and topography	General description of geologic and topographic parameters as per section 3.2.2 and 3.2.4. of the TOR. Specific geo-technical and topographic parameters shall appear in the design calculations and drawings, respectively.
Hydrology	General description of hydrological aspects as per section 3.2.5 of the TOR. Detailed hydrological parameters shall appear in the design

	calculations and drawings. The main report should have information on: • Catchment area characteristics • Summary of rainfall data • Stream / channel characteristics including : ▪ Type of river ▪ Flood characteristics ▪ HFL, LWL and afflux ▪ Depth of scour • Summary of discharge calculation by various methods and determination of design discharge • Determination of effective linear waterway, bridge span arrangements and freeboard. • Summary of required river training works with their justification
Feasibility/selection of the bridge site	The report should review existing studies (if available) and field data to decide upon the technical feasibility of the bridge site. The bridge site should be selected among at least three locations. Selection criteria shall incorporate geo-physical, topographic, hydrological, social, environmental and economic parameters. The bridge site is discussed with the DOR (Division office / Bridge Unit) representatives. The report should present a gist of the discussion and conclusion.
Selection of bridge type, length and span arrangement	The type of bridge, its length and span arrangement is determined after desk study and field works except detailed subsoil exploration on the basis of the following parameters: • Design discharge • General and maximum scour depth • Linear waterway to be provided • Anticipated soil condition • Selected bridge site • River training and approach road • Construction/maintenance cost • Availability of material and labour The report should present a comparative evaluation of different types of bridges on the basis of the above parameters. The type of bridge is discussed with the DOR before proceeding to soil investigation and detailed design. The report should include the gist of discussion and conclusion.
Environmental study	The report should review the project as per the Environmental Protection Act, Environment Protection Rules and DOR environmental policies including Environmental and Social Management Framework (ESMF), modified by GESU/DOR for bridges .

Seismological study	The report should review the information and past seismic records of the project area as per section 3.2.6 of the TOR.
Sub-surface exploration	The subsurface exploration shall proceed after final selection of the bridge type and axis conforming to the requirement as per section 3.3 of the TOR. The main report should include the following: • General description of the subsoil strata • Bore logs • Sectional elevation of the subsoil strata showing locations of bore-holes and proposed foundations • Net bearing capacity, selection of foundation and its depth on the basis of the above parameters. Detailed analysis of subsoil strata and test results shall appear in Design Calculations and Appendix-1

1.5 Design of bridge

Design parameters and concepts	The detailed design of the different parts shall appear in Design Calculations. The main report should include the following: • Design parameters: Discharge, HFL, LBL, free board, scour depth, waterway, loads considered. • Design concepts of superstructure, sub structure and foundation. • Determination of design standards; methods adopted and codes followed. • Requirement of river training and bed protection works concepts of design of such structures.
Summary of design	• Summary of design should include the followings: ▪ Type and length of spans, ▪ Effective cross section, design forces and reinforcement of slab, main girders, cross girder; ▪ Type, sections and reinforcement of elements of substructures; ▪ Type and details of bearings; ▪ Type, depth, sections, reinforcement of foundation body and footings, ▪ Dimension and reinforcement of approach slab. ▪ Design parameters of approach road: width, surface type, maximum and average gradient, minimum radius of curves

1.6 Cost estimates

Summary of cost	▪ Total cost including cost of bridge, approach roads, river training works, other accessories ▪ Net cost per running meter of bridge only
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	▪ Total cost per running meter ▪ Abstract of quantity and cost
Rate analysis	The rate analysis should be done following the current norms on the basis of comparative cost of materials such as boulders, stone aggregates, sand, river / quarry gravel collected at sources and direct market price. The report should include: ▪ A short description of material sources ▪ Lead distances from sources and market ▪ Comparison of cost of material collected at sources and purchased at market. ▪ Labour rate ▪ Summary of unit rates Detailed rate analysis and a copy of certified district rates should be submitted in Appendix – 2 and 3 respectively.

2. Content of Drawings (Volume II)

General	Size: • All the working drawings are presented in size A3 sheets, bound properly.
Format of cover page	The cover page should show the following: ▪ Name and address of client, ▪ Contract number, work description, volume ▪ Consultant's name and address ▪ Month and year of completion
Format of other pages	All other pages should show the followings at the bottom of the sheet: ▪ Name of the client; ▪ Work description ▪ Drawing title ▪ Designation & signature columns for consultant: designed by, checked by, Approved by ▪ Designation & signature columns for the client: checked by, recommended by, Accepted by ▪ Consultant's name and address ▪ Scale of the drawing ▪ Drawing no./sheet no. The size of letters anywhere in all sheets shall not be less than 2 mm.

Content of the drawings (Volume II)	1.1 Contents 1.2 General notes - list of concrete grades used with respect to the components/locations - concrete covers with respect to the components/locations - reinforcement design properties - bar mark designation system 1.3 Index map Map of country (length 8 to 10 inches) with location highlighted, location plan showing road network, river system and names of places. 1.4 Topographical map Plan of bridge site (scale not exceeding 1:1000) covering a minimum distance of 500 m u/s, 200 m d/s, 200 m from the river banks on either sides of the river at proposed bridge site showing: - contour intervals of 1m & 0.25 m for plain and hilly area respectively - Flood lines on either sides of the river in the entire area surveyed. - Lines with spot levels along which the bed slope of the river is taken - Both banks of the river - Locations of bore-holes and bench marks - Plan of the bridge - Bridge axis reference index - Govt/public establishments. - Traverse lines, benchmarks reference lines and/or points with respect to which the present topomap is prepared - The angle and direction of skew, if the bridge is proposed to be aligned skew - The names of the nearest identifiable-village/towns etc in either ends of the bridge - Other information pertinent to design, construction and/or maintenance of the bridge. 1.5 Catchment area map in suitable scale - Catchment area of the river up to bridge site - Length of the river from origin up to bridge site - Slope of the river from the critical point (origin) of the river up to bridge site and general slope of the catchment in both sides of the river. - Maximum discharge calculated by established formulas with different return periods - Maximum discharge during highest flood, at each cross section. (By x section area & slope method). The peak discharges as observed over a period of 100 years (for important bridges) or 50 yrs (ordinary bridges) as the use may be an average of peaks is taken - Velocity and depth of flow at the time of survey at the bridge location - Shifting of the river in the past at proposed bridge site and in vicinity of it. - Other information required for river control, design,
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	construction and/or maintenance of the bridge. 1.6 L-section of river & C/S of river 1.7 Genral arrangement - Plan, Elevation and Side elevation - Bore logs presented on Elevation 2. Structural Drawings with bar bending schedules included in the respective sheets - Main girder(s) details - Cross girders details - Deck slab details - Abutment and approach slab details - Pier details - Foundation details - Details on bearings, railings, drainage systems, expansion joints etc. 3. Plan, profile and cross sections of the approach roads on both sides of the bridge 4. Details of river training works 5. Miscellaneous
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3. Content of Design Calculations (Volume III)

Detailed analysis and design calculation of following elements should be provided.

The design calculations should mention the governing design code or guideline wherever they are applied.

Hydrology	
Hydrological data	• Catchment area characteristics: - The catchment area size, shape (classified as fan, pear, long or narrow), slopes (Longitudinal and Cross-sectional). - Surface characteristics (whether sandy, clayey etc. including percolation and interception characteristics). - Whether land is under afforestation, deforestation or is dotted with urban areas, cultivated areas or storage areas, e.g. lakes, swamps, tanks, reservoirs etc. shall be determined. • Rainfall Data: - Maximum in 24 hours. - Maximum in any one hours. - Rainfall distribution in the catchment area. - Duration and frequency of the rain. - Raingauge data of the storms along with the corresponding stream gauss data (data for unit hydrograph). - Average annual rainfall characteristics (from relevant meteorological records). - Probability plotting (a graph plotted between the flood magnitude against its return period). • Stream / channel characteristics 1. Type of river - Seasonal or Perennial. - Meandering or Straight. - Other classification, e.g. boulderly, flashy, well defined, tidy etc. - Length, slope, cross-sections of the river. 2. Water Level - Highest flood in living memory and other major floods before start of investigation. - Highest flood level and year of its occurrence, showing the areas flooded. - Records of flood gauging stations. - Lowest Water Level (LWL).

	- Afflux, if observed. - Observed maximum depth of scour and scour level, indicating what obstruction if any, and other special causes, which can be responsible for the scour at site. - Sediment Data, indicating bed material particle size, aggradation (degradation of bed, bank erosion (reference to flood stage) etc. - Erodibility of riverbanks and river bed. - Scour Data (as observed, particularly downstream of any obstructions to the flood flow).
Analysis of hydrological data and determination of associated elements	▪ Discharge calculation by various methods including WECS method, comparison of discharges, determination of design discharge expected to pass under the bridge and justification for adapting the design discharge, natural stream velocity and flood velocity. ▪ Maximum mean or maximum velocity of flood flow. ▪ Effective linear waterway required under the bridge (after allowing for average thickness of each pier and its foundation, between High Flood Level and Normal Scour Level, ignoring the earth fills in front of the abutment). ▪ High Flood Level, Afflux and Water Level. ▪ Freeboard required between the affluxed High Flood Level and soffit of deck from the considerations of unobstructed flow of floating debris with the flood discharge. ▪ Normal and Design (maximum) scour levels at piers and abutments (Consider higher watermarks in the area and at and near the site). ▪ Minimum founding levels at piers and abutments from consideration of maximum scour etc.
Sub-soil investigation.	
Investigation data	▪ Bore-log of each bore-hole showing: Depth gauge, soil description of encountered layers with depth marks, sample collection points, depth and types of tests performed, Ground water table, number of blows for SPT/CPT, N-values ▪ Certificate of sub-soil investigation from respective Division / project office indicating depth of each bore-hole and confirming that soil-samples of each strata in each borehole are deposited in core boxes for the record. ▪ Laboratory test result of the samples as specified in section 3.3 of the TOR. ▪
Analysis of sub-soil data	▪ Determination of bearing capacity and other parameters at different depths required for different types of foundations, determination of

	design bearing capacity. ▪ Comparison and determination of type(s) of foundation for abutments and piers. ▪ Summary of subsoil characteristics and types of foundations.
Design of bridge elements	On the basis of the topographic survey, hydrological, sub-soil and seismological analysis the report should present detailed design of the following parts of the bridge: ▪ Design of superstructure and its parts: deck, main and cross girders, bearings, railing posts, bracings, stiffeners, joints etc. as applicable. ▪ Design of substructure: pier/abutment cap, substructure body ▪ Design of foundation and its part: foundation base, well/pile cap, well steining, pile grouping, individual pile body, pile head, cutting edge, top/bottom plug as applicable. ▪ Design of river training works ▪ Design of approach roads

5. Soft (electronic) copies of the part of the report

Two copies of the report in electronic files should be submitted in CD-ROMs, which shall include the following:

- Text of main report (in MS Word format)
- Rate analysis and cost estimates (in MS Excel format)
- All the drawings in format compatible to AutoCAD.

6. Appendices

The following should be submitted as appendices to the main report:

1. Laboratory test results of subsoil strata as specified in section 3.3 of the TOR
2. Detailed rate analysis
3. Certified district rates

Section 6. Standard Form of Contract

A. Form of contract

THIS AGREEMENT, made on the *(Date)*.....between Government of Nepal, Department of Roads, Bridge Branch (herein after called as "the Department" or "the DOR") of the one part and the Consulting Firm or JV (herein after called as "the Firm" or "the Consultants") the other part.

WHEREAS, the Department is desirous that certain Professional Engineering Services should be performed viz. _____

_____ the following work and has accepted a proposal by the firm for the performance of such services for the total amount of NRs....., excluding VAT.

In words NRs.

Contract No.	Name of the Work

The whole services comprised in the Agreement shall be completed and Draft Report submitted before *(Date)*.....and shall perform the services in conformity in all respects with the provisions of the Agreement.

Now this Agreement witness as follows

- In this Agreement words and expressions shall have the same meaning as are respectively assigned to them in the Condition of Engagement hereinafter, referred to.
- The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - The said proposal
 - Terms of Reference
 - Bill of Quantities
 - Memorandum of Agreement
 - Special provisions (if any)
 - Appendices (if any)
 - Checklists (if any)
 - Addenda (if any) to the documents (a) through (h)
 - Instructions to consultant (if any)
- The Firm shall commence the Services from the date of signing of the Agreement and the services shall be completed on or before *(Date)*.....
- In consideration of the payments to be made by the Department to the Firm as hereinafter mentioned, the Firm hereby covenants with the Department to perform the services in conformity in all respects with the provisions of the Agreement.
- The Department hereby consents to pay the Firm in consideration of the performance of the services and amount at the manner prescribed by the Agreement.

IN WITNESS : whereas the parties here have made and executed this Agreement as of the day, month and year first above written.



On behalf of the Department

Witness

1 -----

2 -----

On behalf of the Firm

Witness

1 -----

2 -----



B. General Conditions of Contract

1. General Provisions

1.1 Definitions

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

“Applicable Law” means the laws and any other instruments having the force of law in Nepal, as they may be issued and in force from time to time;

“Government” means Government of Nepal.

“Contract” means the Contract signed by the Parties, to which these General Conditions of Contract (GCC) are attached, together with all the documents listed in Clause 1 of such signed Contract;

“Effective Date” means the date on which this Contract comes into force and effect pursuant to Clause GCC 2.1;

“GCC” means these General Conditions of Contract;

“Donor” means the organization offering loan, credit or grant to GoN

“Local Currency” means the currency of the Government;

“Member,” in case the Consultants consist of a joint venture of more than one entity, means any of these entities; and “Members” means all these entities;

“Party” means the Client or the Consultants, as the case may be, and “Parties” means both of them;

“Personnel” means persons hired by the Consultants or by any Subconsultant as employees and assigned to the performance of the Services or any part thereof; “Foreign Personnel” means such persons who at the time of being so hired had their domicile outside Nepal; “Local Personnel” means such persons who at the time of being so hired had their domicile inside Nepal; and “Key Personnel” means the Personnel referred to in Clause GCC 4.2(a);

“SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

“Services” means the work to be performed by the Consultants pursuant to this Contract, as described in Appendix A hereto;

“Subconsultant” means any person or entity to whom/which the Consultants subcontract any part of the Services in accordance with the provisions of Clause GCC 3.7;

“Third Party” means any person or entity other than the Government, the Client, the Consultants or a Subconsultant.

1.2 Relation between the Parties

Nothing contained herein shall be construed as establishing a relation of master and servant or of principal and agent as between the Client and the Consultants. The Consultants, subject to this Contract, have complete charge of Personnel and Subconsultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

1.3 Law Governing Contract

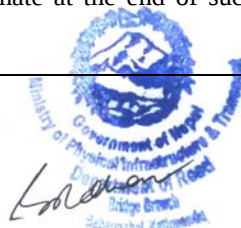
This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law of Nepal.



- 1.4 Language** This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.
- 1.5 Headings** The headings shall not limit, alter or affect the meaning of this Contract.
- 1.6 Notices**
- 1.6.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram or facsimile to such Party at the address specified in the SCC.
- 1.6.2 Notice will be deemed to be effective as specified in the SCC.
- 1.6.3 A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SCC with respect to Clause GCC 1.6.2.
- 1.7 Location** The Services shall be performed at such locations as are specified in Appendix A hereto and, where the location of a particular task is not so specified, at such locations, whether in Nepal or elsewhere, as the Client may approve.
- 1.8 Authority of Member in Charge** In case the Consultants consist of a joint venture of more than one entity, the Members hereby authorize the entity specified in the SCC to act on their behalf in exercising all the Consultants' rights and obligations towards the Client under this Contract, including without limitation the receiving of instructions and payments from the Client.
- 1.9 Authorized Representatives** Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Client or the Consultants may be taken or executed by the officials specified in the SCC.
- 1.10 Taxes and Duties** Unless otherwise specified in the SCC, the Consultants, Subconsultants and Personnel shall pay such taxes, duties, fees and other impositions as may be levied under the Applicable Law.

2. Commencement, Completion, Modification and Termination of Contract

- 2.1 Effectiveness of Contract** This Contract shall come into force and effect on the date (the "Effective Date") of the Client's notice to the Consultants instructing the Consultants to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SCC have been met.
- 2.2 Termination of Contract for Failure to Become Effective** If this Contract has not become effective within such time period after the date of the Contract signed by the Parties as shall be specified in the SCC, either Party may, by not less than thirty (30) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.
- 2.3 Commencement of Services** The Consultants shall begin carrying out the Services at the end of such time period after the Effective Date as shall be specified in the SCC.
- 2.4 Expiration of Contract** Unless terminated earlier pursuant to Clause GCC 2.9 hereof, this Contract shall terminate at the end of such time period after the Effective Date as



shall be specified in the SCC.

2.5 Variation

Variation of the terms and conditions of this Contract, including any variation of the scope of the Services, may only be made by written agreement between the Parties however, each Party shall give due consideration to any proposals for variation made by the other Party.

2.6 Force Majeure

2.6.1 Definition

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.

Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party’s Subconsultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of the conclusion of this Contract and (B) avoid or overcome in the carrying out of its obligations hereunder.

Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

2.6.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

2.6.3 Measures to be Taken

A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party’s inability to fulfill its obligations hereunder with a minimum of delay.

A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than fifteen (15) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.

The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

2.6.4 Extension of Time (EoT)

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure or Client’s failure to provide facilities in time as per the contract



The Consultant shall submit an application to the Client for extension of time, stating the causes for delay with supporting evidence within 7 days before the expiry of the Contract completion date. The approval of EoT shall be subject to verification by the Client weather:

- a. the consultant had made the best possible efforts to complete the work in due time ,
- b. the facilities to be provided by the Client as per the contract to the Consultant was made in time or not,
- c. the delay was as a result of Force Majeure or not.

2.6.5 Consultation

Not later than thirty (30) days after the Consultants, as the result of an event of Force Majeure, have become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

2.7 Suspension

The Client may, by written notice of suspension to the Consultants, suspend all payments to the Consultants hereunder if the Consultants fail to perform any of their obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultants to remedy such failure within a period not exceeding thirty (30) days after receipt by the Consultants of such notice of suspension.

2.8 Termination

2.8.1 By the Client

The Client may, by not less than thirty (30) days' written notice of termination to the Consultants. (except in the event listed in paragraph (f) below, for which there shall be a written notice of not less than sixty (60) days), such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (g) of this Clause GCC 2.8.1, terminate this Contract:

if the Consultants fail to remedy a failure in the performance of their obligations hereunder, as specified in a notice of suspension pursuant to Clause 2.8 hereinabove, within thirty (30) days of receipt of such notice of suspension or within such further period as the Client may have subsequently approved in writing;

if the Consultants become (or, if the Consultants consist of more than one entity, if any of their Members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

if the Consultants fail to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GCC 8 hereof;

if the Consultants submit to the Client a statement which has a material effect on the rights, obligations or interests of the Client and which the Consultants know to be false;

if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a period of not less than sixty (60) days; or

if the Client, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.

if the Consultant, in the judgment of the Client, has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this clause:

“corrupt practice” means the offering, giving, receiving or



soliciting of anything of value to influence the action of a public official in the selection process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a selection process or the execution of a contract to the detriment of the Client, and includes collusive practice among consultants (prior to or after submission of proposals) designed to establish prices at artificial non-competitive levels and to deprive the Client of the benefits of free and open competition.

2.8.2 By the Consultants

The Consultants may, by not less than thirty (30) days’ written notice to the Client, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause GC 2.8.2, terminate this Contract:

if the Client fails to pay any money due to the Consultants pursuant to this Contract and not subject to dispute pursuant to Clause GCC 8 hereof within forty-five (45) days after receiving written notice from the Consultants that such payment is overdue;

if the Client is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultants may have subsequently approved in writing) following the receipt by the Client of the Consultants’ notice specifying such breach;

if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a period of not less than sixty (60) days; or

if the Client fails to comply with any final decision reached as a result of arbitration pursuant to Clause GCC 8 hereof.

2.8.3 Cessation of Rights and Obligations

Upon termination of this Contract pursuant to Clauses GCC 2.2 or GCC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GCC 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality set forth in Clause GCC 3.3 hereof, (iii) the Consultants’ obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 3.6(ii) hereof, and (iv) any right which a Party may have under the Applicable Law.

2.8.4 Cessation of Services

Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 2.9.1 or GCC 2.9.2 hereof, the Consultants shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultants and equipment and materials furnished by the Client, the Consultants shall proceed as provided, respectively, by Clauses GCC 3.9 or GCC 3.10 hereof.

2.8.5 Payment upon Termination

Upon termination of this Contract pursuant to Clauses GCC 2.8.1 or GCC 2.9.2 hereof, the Client shall make the following payments to the Consultants:

remuneration pursuant to Clause GCC 6 hereof for Services satisfactorily performed prior to the effective date of termination;

reimbursable expenditures pursuant to Clause GCC 6 hereof for expenditures actually incurred prior to the effective date of termination; and



except in the case of termination pursuant to paragraphs (a) through (d) of Clause GCC 2.8.1 hereof, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract including the cost of the return travel of the Personnel and their eligible dependents.

**2.8.6 Disputes about
Events of
Termination**

If either Party disputes whether an event specified in paragraphs (a) through (e) of Clause GCC 2.8.1 or in Clause GCC 2.9.2 hereof has occurred, such Party may, within thirty (30) days after receipt of notice of termination from the other Party, shall settle the dispute pursuant to Clause GCC 8 hereof, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.

3. Obligations of the Consultants

3.1 General

**3.1.1 Standard of
Performance**

The Consultants shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe and effective equipment, machinery, materials and methods. The Consultants shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with Subconsultants or Third Parties.

**3.1.2 Law Governing
Services**

The Consultants shall perform the Services in accordance with the Applicable Law and shall take all practicable steps to ensure that any Subconsultants, as well as the Personnel of the Consultants and any Subconsultants, comply with the Applicable Law. The Client shall notify the Consultants in writing of relevant local customs, and the Consultants shall, after such notification, respect such customs.

**3.1.3 Application of
Procurement
Law**

If the Consultants, as part of the Services, have the responsibility of advising the Client on the procurement of goods, works or services, the Consultants shall comply with any applicable procurement guidelines as per the prevailing Public Procurement Act and Regulations of the GoN (or of the Donors/funding agencies) and shall at all times exercise such responsibility in the best interest of the Client. Any discounts or commissions obtained by the Consultants in the exercise of such procurement responsibility shall be for the account of the Client.

3.2 Conflict of Interests

**3.2.1 Consultants Not
to Benefit from
Commissions,
Discounts, etc.**

The remuneration of the Consultants pursuant to Clause GC 6 hereof shall constitute the Consultants' sole remuneration in connection with this Contract or the Services and, subject to Clause GCC 3.2.2 hereof, the Consultants shall not accept for their own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations hereunder, and the Consultants shall use their best efforts to ensure that any Subconsultants, as well as the Personnel and agents of either of them, similarly shall not receive any such additional remuneration.

**3.2.2 Consultants and
Affiliates Not to**

The Consultants agree that, during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultants, as



- Engage in Certain Activities*** well as any Subconsultant and any entity affiliated with such Subconsultant, shall be disqualified from providing goods, works or services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.
- 3.2.3 Prohibition of Conflicting Activities*** The Consultants shall not engage, and shall cause their Personnel as well as their Subconsultants and their Personnel not to engage, either directly or indirectly, in any of the following activities:
- during the term of this Contract, any business or professional activities in Nepal which would conflict with the activities assigned to them under this Contract; and
- after the termination of this Contract, such other activities as may be specified in the SCC.
- 3.3 Confidentiality*** The Consultants, their Subconsultants, and the Personnel of either of them shall not, either during the term of within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information relating to the Project, the Services, this Contract, or the Client's business or operations without the prior written consent of the Client.
- 3.4 Liability of the Consultants*** Subject to additional provisions, if any, set forth in the SCC, the Consultants' liability under this Contract shall be as provided by the Applicable Law.
- 3.5 Insurance to be Taken Out by the Consultants*** The Consultants (i) shall take out and maintain, and shall cause any Subconsultants to take out and maintain, at their (or the Subconsultants', as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks, and for the coverages, as shall be specified in the SCC, and (ii) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

3.6 Accounting, Inspection and Auditing

The Consultants (i) shall keep accurate and systematic accounts and records in respect of the Services hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time changes and costs, and the bases thereof (including such bases as may be specifically referred to in the SCC), and (ii) shall permit the Client or its designated representative periodically, and up to one year from the expiration or termination of this Contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the Client and, where applicable

3.7 Consultants' Actions Requiring Client's Prior Approval

The Consultants shall obtain the Client's prior approval in writing before taking any of the following actions:

- a. appointing such members of the Personnel as are listed in Appendix C merely by title but not by name;
- b. entering into a subcontract for the performance of any part of the Services, it being understood (i) that the selection of the Subconsultant and the terms and conditions of the subcontract shall have been approved in writing by the Client prior to the execution of the subcontract, and (ii) that the Consultants shall remain fully liable for the performance of the Services by the Subconsultant and its Personnel pursuant to this Contract;
- c. any other action that may be specified in the SCC.

3.8 Reporting Obligations

The Consultants shall submit to the Client the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.

3.9 Documents Prepared by the Consultants to be the Property of the Client

All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Client under this Contract shall become and remain the property of the Client, and the Consultants shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultants may retain a copy of such documents and software. Restrictions about the future use of these documents and software, if any, shall be specified in the SCC.

3.10 Equipment and Materials Furnished by the Client

Equipment and materials made available to the Consultants by the Client, or purchased by the Consultants with funds provided by the Client, shall be the property of the Client and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultants shall make available to the Client an inventory of such equipment and materials and shall dispose of such equipment and materials in accordance with the Client's instructions. While in possession of such equipment and materials, the Consultants, unless otherwise instructed by the Client in writing, shall insure them at the expense of the Client in an amount equal to their full replacement value.

4. Consultants' Personnel and Subconsultant

4.1 General

The Consultants shall employ and provide such qualified and experienced Personnel and Subconsultants as are required to carry out the Services.

4.2 Description of Personnel

- a. The title, agreed job description, minimum qualification and estimated period of engagement in the carrying out of the Services of each of the Consultants' Key Personnel are described in Appendix C. If any of the Key Personnel has already been approved by the Client, his/her name is listed as well.
- b. If required to comply with the provisions of Clause GCC 3.1.1 hereof, adjustments with respect to the estimated periods of engagement of Key Personnel set forth in Appendix C may be made by the Consultants by written notice to the Client, provided (i) that such adjustments shall not alter the originally estimated period of engagement of any individual by more than 10% or one week, whichever is larger, and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GCC 6.1(b) of this Contract. Any other such adjustments shall only be made with the Client's written approval.
- c. If additional work is required beyond the scope of the Services specified in Appendix A, the estimated periods of engagement of Key Personnel set forth in Appendix C may be increased by agreement in writing between the Client and the Consultants, provided that any such increase shall not, except as otherwise agreed in writing, cause payments under this Contract to exceed the ceilings set forth in Clause GCC 6.1(b) of this Contract.

4.3 Approval of Personnel

The Key Personnel and Subconsultants listed by title as well as by name in Appendix C are hereby approved by the Client. In respect of other Key Personnel which the Consultants propose to use in the carrying out of the Services, the Consultants shall submit to the Client for review and approval a copy of their biographical data. If the Client does not object in writing (stating the reasons for the objection) within twenty-one (21) calendar days from the date of receipt of such biographical data .

4.4 Removal and/or Replacement of Personnel

- a. Except as the Client may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultants, it becomes necessary to replace any of the Personnel, the Consultants shall forthwith provide as a replacement a person of equivalent or better qualifications.
- b. If the Client (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultants shall, at the Client's written request specifying the grounds therefore, forthwith provide as a replacement a person with qualifications and experience acceptable to the Client.



- c. Any of the Personnel provided as a replacement under Clauses (a) and (b) above, the rate of remuneration applicable to such person as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Consultants may wish to claim as a result of such replacement, shall be subject to the prior written approval by the Client. Except as the Client may otherwise agree, (i) the Consultants shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid for any of the Personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced.

5. Obligations of the Client

- 5.1 Access to Site** The Client warrants that the Consultants shall have, free of charge, unimpeded access to all sites in Nepal in respect of which access is required for the performance of the Services. .
- 5.2 Change in the Applicable Law** If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost incurred by the Consultants in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultants under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GCC 6.1(b).
- 5.3 Services, Facilities and Property of the Client** The Client shall make available to the Consultants and the Personnel, for the purposes of the Services and free of any charge, the services, facilities and property described in Appendix D at the times and in the manner specified in said Appendix D, provided that if such services, facilities and property shall not be made available to the Consultants as and when so specified, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultants for the performance of the Services, (ii) the manner in which the Consultants shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultants as a result thereof pursuant to Clause GCC 6.1(c) hereinafter.
- 5.4 Payment** In consideration of the Services performed by the Consultants under this Contract, the Client shall make to the Consultants such payments and in such manner as is provided by Clause GCC 6 of this Contract.

6. Payments to The Consultants

6.1 Cost Estimates; Ceiling Amount

- a. An estimate of the cost of the Services payable in local currency is set forth in Appendix E.
- b. Except as may be otherwise agreed under Clause GCC 2.6 and subject to Clause GCC 6.1(c), payments under this Contract shall not exceed the ceilings in local currency specified in the SCC. The Consultants shall notify the Client as soon as cumulative charges incurred for the Services have reached 80% of either of these ceilings.
- c. Notwithstanding Clause GCC 6.1(b) hereof, if pursuant to any of the Clauses GCC 5.3 or 5.4 hereof, the Parties shall agree that additional payments in local and/or foreign currency, as the case may be, shall be made to the Consultants in order to cover any necessary additional expenditures not envisaged in the cost estimates referred to in Clause GCC 6.1(a) above, the ceiling or ceilings, as the case may be, set forth in Clause GCC 6.1(b) above shall be increased by the amount or amounts, as the case may be, of any such additional payments.

6.2 Remuneration and Reimbursable Expenditures

- a. Remuneration for the Personnel shall be determined on the basis of time actually spent by such Personnel in the performance of the Services after the date determined in accordance with Clause GCC 2.3 and Clause SCC 2.3 (or such other date as the Parties shall agree in writing) (including time for necessary travel via the most direct route) at the rates referred to, and subject to such additional provisions as are set forth, in the SCC.
- b. Reimbursable expenditures actually and reasonably incurred by the Consultants in the performance of the Services, as specified in Clause SCC 6.3.

6.3 Currency of Payment

- a. All payments to the Consultant for the performance of the services shall be made in the currency of the GoN.

6.4 Mode of Billing and Payment

Billings and payments in respect of the Services shall be made as follows:

- a. The Client shall cause to be paid to the Consultants an advance payment as specified in the SC, and as otherwise set forth below. The advance payment will be due after provision by the Consultants to the Client of a bank guarantee by a bank acceptable to the Client in an amount specified in the SCC, such bank guarantee (i) to remain effective additional one month after the advance payment has been fully set off as provided in the SCC, and (ii) to be in the form set forth in Appendix I hereto or in such other form as the Client shall have approved in writing.
- b. As soon as practicable and not later than fifteen (15) days after the end of each calendar month during the period of the Services or on completion of the task on which the payment is based, the Consultants shall submit to the Client, in duplicate, itemized statements, accompanied by copies of receipted invoices, vouchers and other appropriate supporting materials, of the amounts payable pursuant to Clauses GCC 6.3 and 6.4 for such month or completed task.
- c. The invoice format shall be as agreed between the client and the



consultants.

- d. The Client shall cause the payment of the Consultants' monthly statements less retention money 5% within *thirty (30)* days after the receipt by the Client of such statements with supporting documents. Only such portion of a monthly statement that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorised to be incurred by the Consultants, the Client may add or subtract the difference from any subsequent payments. Interest at the annual rate specified in the SCC shall become payable as from the above due date on any amount due by, but not paid on, such due date.
- e. The final payment under this Clause shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultants and approved as satisfactory by the Client. The Services shall be deemed completed and finally accepted by the Client and the final report and final statement shall be deemed approved by the Client as satisfactory *forty-five (45)* calendar days after receipt of the final report and final statement by the Client unless the Client, within such *forty-five (45)* day period, gives written notice to the Consultants specifying in detail deficiencies in the Services, the final report or final statement. The Consultants shall thereupon promptly make any necessary corrections, and upon completion of such corrections, the foregoing process shall be repeated. Any amount which the Client has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this Contract shall be reimbursed by the Consultants to the Client within thirty (30) days after receipt by the Consultants of notice thereof. Any such claim by the Client for reimbursement must be made within *ninety (90) calendar days* after receipt by the Client of a final report and a final statement approved by the Client in accordance with the above.
- f. e. All payments under this Contract shall be made to the account of the Consultant specified in the SCC.

6.5 Retention

- a. The Client shall retain from each payment due to the Contractor the proportion stated in the SCC until Completion of the whole of the Works.
- b. One half of the retention shall be repaid by the Client to the consultant at the time of the payment of the Final Bill pursuant to GCC Clause 6.4 (d)
- c. The remainder of the retention shall be paid by the Client to the consultant within 15 days after submission of an evidence document issued by the concerned Internal Revenue Office that the consultant has submitted his Income Returns.

6.6 Liquidated Damages

The Consultant shall pay liquidated damages to the Client at the rate per day stated in the SCC for each day that the completion services is later than the Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the SCC. Beyond this limit the contract may be terminated by the Client. The Client may deduct liquidated damages from any payments due to the Consultant. Payment of liquidated damages shall not affect the Consultant's liabilities.



7. Fairness and Good Faith

7.1 Good Faith The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

7.2 Operation of the Contract The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration in accordance with Clause GCC 8 hereof.

8. Settlement of Disputes

8.1 Amicable Settlement The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or the interpretation thereof.

8.2 Dispute Settlement 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 the Adjudicator by either Party within 15 days after the amicable settlement period of 30 days.

8.3. Appointment of the Adjudicator

a. The Adjudicator, shall be appointed jointly by the Client and the Consultant within 30 days of the commencement date of the contract. If the parties cannot reach an agreement on the appointment of the Adjudicator, the Client will request the Appointing Authority designated in the SCC, to appoint the Adjudicator within 15 days of receipt of such request.

b. Should the Adjudicator resign or die, or should the Client and the Consultant agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Client and the Consultant. In case of disagreement between the Client and the Consultant, within 30 days, the Adjudicator shall be designated by the Appointing Authority at the request of either party, within 15 days of receipt of such request

8.4. Procedures for Disputes

- a. If a dispute is referred to the Adjudicator pursuant to GCC Clause 8,2 then the the Adjudicator shall give a decision in writing within 30 days of receipt of a reference of the dispute.
- b. The Adjudicator shall be paid by the hour at the rate specified in the SCC, together with reimbursable expenses of the types specified in the SCC, and the cost shall be divided equally between the Client and the Consultant, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 30 days of the Adjudicator's written decision. If neither party refers the dispute to arbitration within the above 30 days, the Adjudicator's decision will be final and binding.
- c. In case of arbitration, the arbitration shall be conducted in accordance with the arbitration procedures published by Nepal Council of Arbitration .

9. Remedies for Breach of Contract

Without prejudice to ny other right of the Client under this Contract, the remedies available to the Client in the event of breach of the Contract by the Consultant are as follows:

- a. rejection of defective performance,
- b. prompt replacement and correction of defective services,
- c. application of liquidated damages for delay as per the provision of the Contrct,
- d. termination of the contract and correction of the services, not performed as per the requirement of the contract, at the expense of the consultant,
- e. recovery for consequential damages;
- f. such other remedies as may be available pursuant to the contract or to applicable law.

10. Conduct of Consultants

10.1 The Consultant shall be responsible to fulfill his obligations as per the requirement of the Contract Agreement, RFP documents and GoN's Procurement Act and Regulations.

10.2 The consultant shall not carry out or cause to carryout the following acts with an intention to influence the implementation of the procurement process or the contract agreement :

- a. give or propose improper inducement directly or indirectly,
- b. distortion or misrepresentation of facts
- c. engaging or being involved in corrupt or fraudulent practice
- d. interference in participation of other prospective bidders.



- e. coercion or threatening directly or indirectly to impair or harm, any party or the property of the party involved in the procurement proceeding
- f. collusive practice among consultants before or after submission of proposals for distribution of works among consultants or fixing artificial/uncompetitive proposal price with an intention to deprive the Client the benefit of open competitive proposal price.
- g. contacting the Client with an intention to influence the Client with regards to the proposals or interference of any kind in examination and evaluation of the proposals during the period after opening of proposals up to thenotification of award of contract

11.Blacklisting Consultant

11.1 Without prejudice to any other right of the Client under this Contract, Public Procurement Monitoring Office may blacklist a Consultant for his conduct up to three years on the following grounds and seriousness of the act committed by the consultant without prejudice to any other rights of the Client under rights under this Contract:

- a) if it is proved that the bidder committed acts pursuant to the Information to Consultants GCC 10.2,
- b) if the consultant fails to sign an agreement pursuant to Information to Consultants clause 7.3,
- c) if it is proved later that the consultant has committed substantial defect in implementation of the contract or has not substantially fulfilled his obligations under the contract or the completed work is not of the specified quality as per the contract ,
- d) if convicted by a court of law in a criminal offence which disqualifies the bidder from participating in the contract.

11.2 A Consultant declared blachlisted and ineligible by the Public procurement Office and or concerned Donor Agency in case of donor funded project shall be ineligible to bid for a contract during the period of time determined by the PPMO and or the concerned donor agency.

C. Special Conditions of Contract

Number Of GCC Clause	Amendments Of, And Supplements To, Clauses In The General Conditions Of Contract
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- | | |
|-------|---|
| 1.6.1 | <p>The addresses are :</p> <p>Client:</p> <p>Address: The Bridge Branch, Mechanical Training Center, Patandhoka, Lalitpur</p> <p>Attention: DDG, Department of Roads</p> <p>Cable address: NA</p> <p>Telex: NA</p> <p>Facsimile:</p> <p>Consultants:</p> <p>Address:</p> <p>Attention:</p> <p>Cable address:</p> <p>Telex:</p> <p>Facsimile:</p> <p>E-mail:</p> |
| 1.6.2 | <p>Notice will be deemed to be effective as follows:</p> <p>(a) in the case of personal delivery or registered mail, on delivery;</p> <p>(d) in the case of facsimiles, 6 hours following confirmed transmission.</p> |
| 1.8 | The Member in Charge is <i>[To be named during contract]</i> . |
| 1.9 | <p>The Authorized Representatives are:</p> <p>For the Client: The Project Manager (to be named during agreement)</p> <p>For the Consultants: [to be named during agreement]</p> |
| 2.2 | The time period shall be 6 months or such other time period as the parties may agree in writing. |
| 2.3 | The time period shall be <i>immediately after the effective date</i> or such other time period as the parties may agree in writing. |
| 2.4 | The time period shall be <i>[to be specified during agreement]</i> or such other time period as the parties may agree in writing. |
| 3.4 | <p>“3.4 Limitation of the Consultants’ Liability towards the Client</p> <p>(a) Except in case of gross negligence or willful misconduct on the part of the Consultants or on the part of any person or firm</p> |



acting on behalf of the Consultants in carrying out the Services, the Consultants, with respect to damage caused by the Consultants to the Client's property, shall not be liable to the Client:

- (i) for any indirect or consequential loss or damage; and
- (ii) for any direct loss or damage that exceeds (A) the total payments for professional fees and reimbursable expenditures made or expected to be made to the Consultants hereunder, or (B) the proceeds the Consultants may be entitled to receive from any insurance maintained by the Consultants to cover such a liability, whichever of (A) or (B) is higher.
- (iii) This limitation of liability shall not affect the Consultants' liability, if any, for damage to Third Parties caused by the Consultants or any person or firm acting on behalf of the Consultants in carrying out the Services."

3.5 NA

3.7(c) NA

3.9 NA

6.4(a)

Replace the whole clause 6.4 of the GCC by the following:

No advance payments shall be made to the consultants. This service is based on the agreed bill of quantities and payment to the consultants shall be made as follows:

- i) 10% of the contract amount after submission and acceptance of the Inception Report.
- ii) 15% of the contract amount after submission and acceptance of the Field Report/Preliminary Design Report.
- iii) 25% of the contract amount after completion of the soil investigation works and submission of certified drill/bore logs. For the calculation of total payable amount only the actual quantity of soil investigation works shall be considered.
- vi) 30% of the contract amount after submission of the Draft Report
- v) Remaining Final Payment after submission and acceptance of the Final Report and after returning all the documents, maps and reports, if borrowed from the DOR.

Note: For the bridge(s) package found to be unfeasible/Service not required, then the consulting work(s) of those bridge(s) will be terminated at feasibility stage and payment shall be made only 10% of the Total Amount for that particular bridge(s) or Total Quoted amount for that particular items which ever is smaller.



if the Consultant uses any Standard Design provided by the DOR then the payment shall be adjusted by deducting the following amounts as follows:

Minor bridge	Rs 47,303.25 per bridge (excl. VAT) with proportional adjustment for reduction of BOQ amount wrt departmental estimate amount. □
Medium bridge	Rs 64,400.28 per bridge (excl. VAT) with proportional adjustment for reduction of BOQ amount wrt departmental estimate amount.
Major bridge	Rs 68,465.79 per bridge (excl. VAT) with proportional adjustment for reduction of BOQ amount wrt departmental estimate amount.

6.4(d) The interest rate is: 0%

6.4(f) Directly paid in the name of the consultant.

6.5 (a) No retention money shall be deducted

6.6 Liquidated Damages : at the rate of 0.05 % of contract price per day to a maximum of 10% of the sum stated in the Agreement

8.3 Appoinmtment of the Adjudicator The appointing authority is NEPCA.

8.4(b) Per hour rate of Adjudicator is NRs. 2,000.00

Signature of witness :
Name (in bold letters):
Address :
Date :

Seal

Signature of Consultant :
Name (in bold letters):
Name and address of the firm:
Date :



Pkg No. BB-159-DSD-071/72-01

S. No.	Firms Name
1	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
2	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu
3	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
4	TMS JV CARD Consult, Kamalpokhari Kathmandu
5	Welink Consultant (P) Ltd & Mass Consultant (P) Ltd JV, Kathmandu
6	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur

Pkg No. BB-159-DSD-071/72-02

S. No.	Firms Name
1	Beam Consultant (P) Ltd, Bakundole Lalitpur
2	Fuji International Design Associates (FIDA) Civil Design and Foundation Engineering Consultant (P) Ltd, Kupondole Lalitpur
3	Eastern Engineering Consultant, Sainbu-3 Lalitpur
4	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
5	Slate Consultant (P) Ltd JV Khaptad Consultant (P) Ltd, Jwagal Lalitpur
6	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu

Pkg No. BB-159-DSD-071/72-03

S. No.	Firms Name
1	Soil Test (P) Ltd, Sanepa Kathmandu
2	Inclusive Consultant (P) Ltd, Sitapaila Kathmandu
3	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.
4	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur
5	Technocrate Consultancy (P) Ltd Geo Tech and Structure Lab (P) Ltd-Elite Civil Design Consultants (P) Ltd (TC-GSLP-ELDC) Jv, Kupondole Lalitpur
6	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu

Pkg No. BB-159-DSD-071/72-04

S. No.	Firms Name
1	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
2	TSE-Tech Studio of Engineering
3	Nepal Consultant (P) Ltd JV PEES Consultant (P) Ltd, Kupondole Lalitpur
4	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
5	COEMANCO-Nepal P. Ltd in Association with Soil Tech Consultant P. Ltd, Shankhamul Kathmandu
6	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu

Pkg No. BB-159-DSD-071/72-05

S. No.	Firms Name
1	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
2	RIDARC Nepal (P) Ltd, Buddhanagar, Ktm
3	Civil Informatics & Solution (P) Ltd, Lalitpur
4	Everest Engineering Consultant, Baneshwor Kathmandu
5	Nepal Rainbow Engineering (P) Ltd JV Design Point (P) Ltd & in association with Design and Build Solution (P) Ltd, Sitapaila Kathmandu
6	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu

Pkg No. BB-159-DSD-071/72-06

S. No.	Firms Name
1	UNEC (P) Ltd, Jwagal Kathmandu
2	GOEC Nepal (P) Ltd in association with Extreme Engineering Soutio Pvt. Ltd., New Baneshwor Kathmandu
3	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur
4	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur
5	Integrated Development & Research Services (P) Ltd & Rural Engineering Consultancy (P) Ltd, Baneshwor Kathmandu
6	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu

Pkg No. BB-159-DSD-071/72-07

S. No.	Firms Name
1	TMS JV CARD Consult, Kamalpokhari Kathmandu
2	Welink Consultant (P) Ltd & Mass Consultant (P) Ltd JV, Kathmandu
3	NEST (P) Ltd JV MAPLE Engineering Consulatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
4	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu
5	Globe Engineering Associates (P) Ltd JV Prestige Consulting (P) Ltd & Everest Designers League (P) Ltd, Balkhu Kathmandu
6	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur

Pkg No. BB-159-DSD-071/72-08

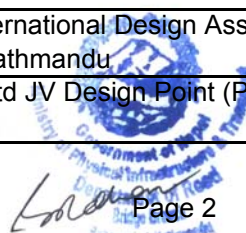
S. No.	Firms Name
1	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
2	Technocrate Consultancy (P) Ltd Geo Tech and Structure Lab (P) Ltd-Elite Civil Design Consultants (P) Ltd (TC-GSLP-ELDC) Jv, Kupondole Lalitpur
3	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
4	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu
5	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur
6	Slate Consultant (P) Ltd JV Khaptad Consultant (P) Ltd, Jwagal Lalitpur

Pkg No. BB-159-DSD-071/72-09

S. No.	Firms Name
1	Soil Test (P) Ltd, Sanepa Kathmandu
2	Masina Continental Associates (P) Ltd JV Time consult (P) Ltd & Engineering And Management Services (EMS) (P) Ltd, Baneshwor Kathmandu
3	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu
4	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu
5	Nepal Development Engineering Consultancy (P) Ltd JV AZAD Consultants & Agni Boring & Soil Test (P) Ltd, Sanepa Lalitpur
6	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur

Pkg No. BB-159-DSD-071/72-10

S. No.	Firms Name
1	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
2	Nepal Rainbow Engineering (P) Ltd JV Design Point (P) Ltd & in association with Design and Build Solution (P) Ltd, Sitapaila Kathmandu



3	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
4	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhusi Kathmandu
5	Research Engineers Consultant JV Apex Engineering & Enviro Tech Consultant (P) Ltd, Shantinagar Kathmandu
6	Hydro Trans (P) Ltd JV Aviyaan Consultant & Welink Associates (P) LTd, Sanepa Kathmandu

Pkg No. BB-159-DSD-071/72-11

S. No.	Firms Name
1	Everest Engineering Consultant, Baneshwor Kathmandu
2	COEMANCO-Nepal P. Ltd in Association with Soil Tech Consultant P. Ltd, Shankhamul Kathmandu
3	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu
4	National Consultant (P) Ltd, Shamakhusi Kathmandu
5	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
6	Geocom Nepal Consult (P) Ltd JV RND Center (P) Ltd & Sakhuwa Engineering Consultancy (P) Ltd, Kritipur Kathmandu

Pkg No. BB-159-DSD-071/72-12

S. No.	Firms Name
1	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur
2	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu
3	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu
4	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu
5	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
6	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu

Pkg No. BB-159-DSD-071/72-13

S. No.	Firms Name
1	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu
2	Integrated Development & Research Services (P) Ltd & Rural Engineering Consultancy (P) Ltd, Baneshwor Kathmandu
3	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu
4	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu
5	Beam Consultant (P) Ltd, Bakundole Lalitpur
6	Fuji International Design Associates (FIDA) Civil Design and Foundation Engineering Consultant (P) Ltd, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-14

S. No.	Firms Name
1	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu
2	Globe Engineering Associates (P) Ltd JV Prestige Consulting (P) Ltd & Everest Designers League (P) Ltd, Balkhu Kathmandu
3	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur
4	TAEC Consult (P) Ltd, Shankhamul Kathmandu
5	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
6	Inclusive Consultant (P) Ltd, Sitapaila Kathmandu



Pkg No. BB-159-DSD-071/72-15

S. No.	Firms Name
1	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu
2	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur
3	Slate Consultant (P) Ltd JV Khaptad Consultant (P) Ltd, Jwagal Lalitpur
4	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur
5	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
6	TSE-Tech Studio of Engineering

Pkg No. BB-159-DSD-071/72-16

S. No.	Firms Name
1	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhushi Kathmandu
2	Nepal Development Engineering Consultancy (P) Ltd JV AZAD Consultants & Agni Boring & Soil Test (P) Ltd, Sanepa Lalitpur
3	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur
4	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
5	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
6	RIDARC Nepal (P) Ltd, Buddhanagar, Ktm

Pkg No. BB-159-DSD-071/72-17

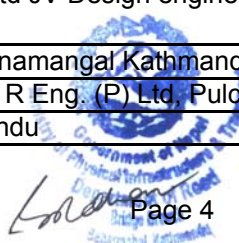
S. No.	Firms Name
1	National Consultant (P) Ltd, Shamakhushi Kathmandu
2	Research Engineers Consultant JV Apex Engineering & Enviro Tech Consultant (P) Ltd, Shantinagar Kathmandu
3	Hydro Trans (P) Ltd JV Aviyaan Consultant & Welink Associates (P) LTd, Sanepa Kathmandu
4	TSE-Tech Studio of Engineering
5	UNEC (P) Ltd, Jwagal Kathmandu
6	GOEC Nepal (P) Ltd in association with Extreme Engineering Soutio Pvt. Ltd., New Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-18

S. No.	Firms Name
1	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu
2	IMERC -HERD-STIDAR JV (P) Ltd, Kupondole Lalitpur
3	Geocom Nepal Consult (P) Ltd JV RND Center (P) Ltd & Sakhuwa Engineering Consultancy (P) Ltd, Kritipur Kathmandu
4	RIDC (P) Ltd, Baneshwor Kathmandu
5	TMS JV CARD Consult, Kamalpokhari Kathmandu
6	Welink Consultant (P) Ltd & Mass Consultant (P) Ltd JV, Kathmandu

Pkg No. BB-159-DSD-071/72-19

S. No.	Firms Name
1	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu
2	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
3	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu
4	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
5	Sitara Consultant (P) Ltd JV & R& R Eng. (P) Ltd, Pulchowk Lalitpur
6	Soil Test (P) Ltd, Sanepa Kathmandu



Pkg No. BB-159-DSD-071/72-20

S. No.	Firms Name
1	TAEC Consult (P) Ltd, Shankhamul Kathmandu
2	Beam Consultant (P) Ltd, Bakundole Lalitpur
3	Fuji International Design Associates (FIDA) Civil Design and Foundation Engineering Consultant (P) Ltd, Kupondole Lalitpur
4	Eastern Engineering Consultant, Sainbu-3 Lalitpur
5	Slate Consultant (P) Ltd JV Khaptad Consultant (P) Ltd, Jwagal Lalitpur
6	Technocrate Consultancy (P) Ltd Geo Tech and Structure Lab (P) Ltd-Elite Civil Design Consultants (P) Ltd (TC-GSLP-ELDC) Jv, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-21

S. No.	Firms Name
1	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur
2	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
3	Inclusive Consultant (P) Ltd, Sitapaila Kathmandu
4	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.
5	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
6	Masina Continental Associates (P) Ltd JV Time consult (P) Ltd & Engineering And Management Services (EMS) (P) Ltd, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-22

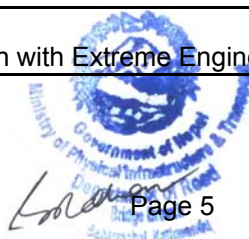
S. No.	Firms Name
1	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
2	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
3	Nepal Consultant (P) Ltd JV PEES Consultant (P) Ltd, Kupondole Lalitpur
4	Civil Informatics & Solution (P) Ltd, Lalitpur
5	Everest Engineering Consultant, Baneshwor Kathmandu
6	Nepal Rainbow Engineering (P) Ltd JV Design Point (P) Ltd & in association with Design and Build Solution (P) Ltd, Sitapaila Kathmandu

Pkg No. BB-159-DSD-071/72-23

S. No.	Firms Name
1	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu
2	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
3	RIDARC Nepal (P) Ltd, Buddhanagar, Ktm
4	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu
5	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur
6	Integrated Development & Research Services (P) Ltd & Rural Engineering Consultancy (P) Ltd, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-24

S. No.	Firms Name
1	RIDC (P) Ltd, Baneshwor Kathmandu
2	UNEC (P) Ltd, Jwagal Kathmandu
3	GOEC Nepal (P) Ltd in association with Extreme Engineering Soutio Pvt. Ltd., New Baneshwor Kathmandu



4	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur
5	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu
6	Globe Engineering Associates (P) Ltd JV Prestige Consulting (P) Ltd & Everest Designers League (P) Ltd, Balkhu Kathmandu

Pkg No. BB-159-DSD-071/72-25

S. No.	Firms Name
1	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
2	TMS JV CARD Consult, Kamalpokhari Kathmandu
3	Welink Consultant (P) Ltd & Mass Consultant (P) Ltd JV, Kathmandu
4	NEST (P) Ltd JV MAPLE Engineering Consultatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
5	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu
6	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur

Pkg No. BB-159-DSD-071/72-26

S. No.	Firms Name
1	Eastern Engineering Consultant, Sainbu-3 Lalitpur
2	Soil Test (P) Ltd, Sanepa Kathmandu
3	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu
4	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
5	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu
6	Nepal Development Engineering Consultancy (P) Ltd JV AZAD Consultants & Agni Boring & Soil Test (P) Ltd, Sanepa Lalitpur

Pkg No. BB-159-DSD-071/72-27

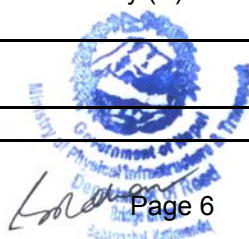
S. No.	Firms Name
1	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.
2	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur
3	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
4	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu
5	National Consultant (P) Ltd, Shamakhusi Kathmandu
6	Research Engineeers Consultant JV Apex Engineering & Enviro Tech Consultant (P) Ltd, Shantinagar Kathmandu

Pkg No. BB-159-DSD-071/72-28

S. No.	Firms Name
1	Civil Informatics & Solution (P) Ltd, Lalitpur
2	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
3	COEMANCO-Nepal P. Ltd in Association with Soil Tech Consultant P. Ltd, Shankhamul Kathmandu
4	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
5	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhusi Kathmandu
6	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.

Pkg No. BB-159-DSD-071/72-29

S. No.	Firms Name
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1	Naya Rastriya Engineering Consultancy Pvt. Ltd, Jwagal Lalitpur
2	Everest Engineering Consultant, Baneshwor Kathmandu
3	Masina Continental Associates (P) Ltd JV Time consult (P) Ltd & Engineering And Management Services (EMS) (P) Ltd, Baneshwor Kathmandu
4	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu
5	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu
6	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-30

S. No.	Firms Name
1	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur
2	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur
3	Integrated Development & Research Services (P) Ltd & Rural Engineering Consultancy (P) Ltd, Baneshwor Kathmandu
4	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu
5	Naya Rastriya Engineering Consultancy Pvt. Ltd, Jwagal Lalitpur
6	Beam Consultant (P) Ltd, Bakundole Lalitpur

Pkg No. BB-159-DSD-071/72-31

S. No.	Firms Name
1	NEST (P) Ltd JV MAPLE Engineering Consulatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
2	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
3	Globe Engineering Associates (P) Ltd JV Prestige Consulting (P) Ltd & Everest Designers League (P) Ltd, Balkhu Kathmandu
4	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu
5	TAEC Consult (P) Ltd, Shankhamul Kathmandu
6	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur

Pkg No. BB-159-DSD-071/72-32

S. No.	Firms Name
1	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
2	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
3	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur
4	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur
5	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur
6	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur

Pkg No. BB-159-DSD-071/72-33

S. No.	Firms Name
1	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu
2	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu
3	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur
4	TSE-Tech Studio of Engineering
5	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
6	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu

Pkg No. BB-159-DSD-071/72-34

S. No.	Firms Name
1	Soil Test (P) Ltd, Sanepa Kathmandu
2	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhusi Kathmandu
3	Nepal Development Engineering Consultancy (P) Ltd JV AZAD Consultants & Agni Boring & Soil Test (P) Ltd, Sanepa Lalitpur
4	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur
5	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
6	UNEC (P) Ltd, Jwagal Kathmandu

Pkg No. BB-159-DSD-071/72-35

S. No.	Firms Name
1	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu
2	National Consultant (P) Ltd, Shamakhusi Kathmandu
3	Research Engineers Consultant JV Apex Engineering & Enviro Tech Consultant (P) Ltd, Shantinagar Kathmandu
4	Hydro Trans (P) Ltd JV Aviyaan Consultant & Welink Associates (P) LTd, Sanepa Kathmandu
5	RIDC (P) Ltd, Baneshwor Kathmandu
6	TMS JV CARD Consult, Kamalpokhari Kathmandu

Pkg No. BB-159-DSD-071/72-36

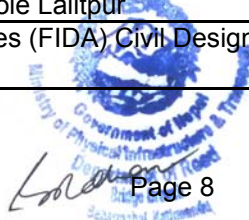
S. No.	Firms Name
1	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu
2	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu
3	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
4	Geocom Nepal Consult (P) Ltd JV RND Center (P) Ltd & Sakhuwa Engineering Consultancy (P) Ltd, Kritipur Kathmandu
5	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
6	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.

Pkg No. BB-159-DSD-071/72-37

S. No.	Firms Name
1	GEOCE Consultants in association with Akara Material Testing Laboratory (P) Ltd,
2	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu
3	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
4	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu
5	Eastern Engineering Consultant, Sainbu-3 Lalitpur
6	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur

Pkg No. BB-159-DSD-071/72-38

S. No.	Firms Name
1	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur
2	TAEC Consult (P) Ltd, Shankhamul Kathmandu
3	Beam Consultant (P) Ltd, Bakundole Lalitpur
4	Fuji International Design Associates (FIDA) Civil Design and Foundation Engineering Consultant (P) Ltd, Kupondole Lalitpur



5	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.
6	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu

Pkg No. BB-159-DSD-071/72-39

S. No.	Firms Name
1	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu
2	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur
3	Soil Test (P) Ltd, Sanepa Kathmandu
4	Inclusive Consultant (P) Ltd, Sitapaila Kathmandu
5	Civil Informatics & Solution (P) Ltd, Lalitpur
6	Everest Engineering Consultant, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-40

S. No.	Firms Name
1	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur
2	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
3	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
4	Beam Consultant (P) Ltd, Bakundole Lalitpur
5	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu
6	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-41

S. No.	Firms Name
1	Hydro Trans (P) Ltd JV Aviyaan Consultant & Welink Associates (P) Ltd, Sanepa Kathmandu
2	NEST (P) Ltd JV MAPLE Engineering Consultatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
3	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
4	RIDARC Nepal (P) Ltd, Buddhanagar, Ktm
5	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur
6	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu

Pkg No. BB-159-DSD-071/72-42

S. No.	Firms Name
1	Geocom Nepal Consult (P) Ltd JV RND Center (P) Ltd & Sakhuwa Engineering Consultancy (P) Ltd, Kritipur Kathmandu
2	RIDC (P) Ltd, Baneshwor Kathmandu
3	UNEC (P) Ltd, Jwagal Kathmandu
4	GOEC Nepal (P) Ltd in association with Extreme Engineering Soutio Pvt. Ltd., New Baneshwor Kathmandu
5	NEST (P) Ltd JV MAPLE Engineering Consultatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
6	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-43

S. No.	Firms Name
1	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
2	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu
3	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu

4	Engineering support Consult (P) Ltd JV Design engineering consultant (P) Ltd & Bangalamukhi Engineering (P) Ltd, Shantinagar Kathmandu
5	Nepal Development Engineering Consultancy (P) Ltd JV AZAD Consultants & Agni Boring & Soil Test (P) Ltd, Sanepa Lalitpur
6	Nepal Consultant (P) Ltd JV PEES Consultant (P) Ltd, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-44

S. No.	Firms Name
1	Beam Consultant (P) Ltd, Bakundole Lalitpur
2	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhushi Kathmandu
3	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur
4	Fuji International Design Associates (FIDA) Civil Design and Foundation Engineering Consultant (P) Ltd, Kupondole Lalitpur
5	Research Engineers Consultant JV Apex Engineering & Enviro Tech Consultant (P) Ltd, Shantinagar Kathmandu
6	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur

Pkg No. BB-159-DSD-071/72-45

S. No.	Firms Name
1	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
2	National Consultant (P) Ltd, Shamakhushi Kathmandu
3	NEST (P) Ltd JV MAPLE Engineering Consultatnt (P) Ltd & EMAPSS Consultancy (P) Ltd, Shankhamul Kathmandu
4	Inclusive Consultant (P) Ltd, Sitapaila Kathmandu
5	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu
6	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur

Pkg No. BB-159-DSD-071/72-46

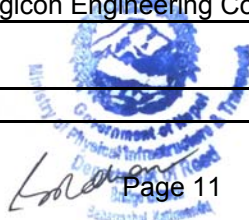
S. No.	Firms Name
1	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu
2	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu
3	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu
4	Masina Continental Associates (P) Ltd JV Time consult (P) Ltd & Engineering And Management Services (EMS) (P) Ltd, Baneshwor Kathmandu
5	Multi Disciplinary Consultant (P) Ltd JV Multi Lab (P) Ltd, Kupondole Lalitpur
6	Everest Engineering Consultant, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-47

S. No.	Firms Name
1	National Consultant (P) Ltd, Shamakhushi Kathmandu
2	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu
3	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu
4	RIDARC Nepal (P) Ltd, Buddhanagar, Ktm
5	Beam Consultant (P) Ltd, Bakundole Lalitpur
6	CEMECA consultant (P) Ltd JV Digicon Engineering Consult (P) Ltd, Kupondole Lalitpur

Pkg No. BB-159-DSD-071/72-48

S. No.	Firms Name
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1	UNEC (P) Ltd, Jwagal Kathmandu
2	TAEC Consult (P) Ltd, Shankhamul Kathmandu
3	National Consultant JV National Engineering Research & Management Services (P) Ltd, Shamakhushi Kathmandu
4	GOEC Nepal (P) Ltd in association with Extreme Engineering Soutio Pvt. Ltd., New Baneshwor Kathmandu
5	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur
6	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu

Pkg No. BB-159-DSD-071/72-49

S. No.	Firms Name
1	TMS JV CARD Consult, Kamalpokhari Kathmandu
2	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur
3	SASCON (P) Ltd JV Viswa Consult In association YB Engineering Consultancy (P) Ltd, Pulchowk Kathmandu
4	Welink Consultant (P) Ltd & Mass Consultant (P) Ltd JV, Kathmandu
5	Northstar Engineering Consultant (P) Ltd JV Pashupati Drilling & Geo technical services (P) Ltd, Bakundole Lalitpur
6	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-50

S. No.	Firms Name
1	Civil Informatics & Solution (P) Ltd, Lalitpur
2	Civil Geo Lab (P) Ltd JV Group of Engineering Consultant & Subway Nepal Engineering Consultant (P) Ltd, Kupondole Lalitpur
3	Gaurav Integrated Development Associates Nepal (P) Ltd (GIDA) , Buddhanagar Kathmandu
4	J & R Consult (P) Ltd JV PNET (P) Ltd & Shrestha Consultant (P) Ltd, Dhapasi Kathmandu
5	Grid Nepal Design associates (P) Ltd, Chakupat Lalitpur
6	Remote Area Development Engineering Consultancy (P) Ltd JV Tulsi Engineering Consultants & Remote soil Lab (P) Ltd, Sitapaila Kathmandu

Pkg No. BB-159-DSD-071/72-51

S. No.	Firms Name
1	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur
2	Eastern Engineering Consultant, Sainbu-3 Lalitpur
3	Bridge Consultancy (P) Ltd, Jhamsikhel Kathmandu
4	COEMANCO-Nepal P. Ltd in Association with Soil Tech Consultant P. Ltd, Shankhamul Kathmandu
5	UNEC (P) Ltd, Jwagal Kathmandu
6	Shyam International Engineering Consultancy (P) Ltd (SIEC) JV Benchmark Consultants and Lab (P) Ltd. (BMCL) and G.I. Engineering and Human Resources Academy (P) Ltd. (GIEHRA), Patan Lalitpur

Pkg No. BB-159-DSD-071/72-52

S. No.	Firms Name
1	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
2	RIDC (P) Ltd, Baneshwor Kathmandu
3	Engineering Consultancy for Constructive Development Efforts in Nepal (ECOCODE NEPAL) JV NGC Lab (P) Ltd & Satyam Consult (P) Ltd, Jwagal Lalitpur
4	Technocrate Consultancy (P) Ltd Geo Tech and Structure Lab (P) Ltd-Elite Civil Design Consultants (P) Ltd (TC-GSLP-ELDC) Jv, Kupondole Lalitpur

5	TMS JV CARD Consult, Kamalpokhari Kathmandu
6	Naya Rastriya Engineering Consultancy Pvt. Ltd, Jwagal Lalitpur

Pkg No. BB-159-DSD-071/72-53

S. No.	Firms Name
1	East Consult (P) Ltd JV East Management & Engineering Services (P) Ltd, Basundhara Kathmandu
2	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
3	Naya Rastriya Engineering Consultancy Pvt. Ltd, Jwagal Lalitpur
4	Nepal Rainbow Engineering (P) Ltd JV Design Point (P) Ltd & in association with Design and Build Solution (P) Ltd, Sitapaila Kathmandu
5	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur
6	Silt Consultants (P) Ltd JV Rajdevi Engineering Consultants (P) Ltd, Rato pul Kathmandu

Pkg No. BB-159-DSD-071/72-54

S. No.	Firms Name
1	RIDC (P) Ltd, Baneshwor Kathmandu
2	Eastern Engineering Consultant, Sainbu-3 Lalitpur
3	Pyramid design associates (P) Ltd JV Design Forum (P) Ltd & Aglie Engineering Solution (P) Ltd, Bhaktapur
4	Integrated Development & Research Services (P) Ltd & Rural Engineering Consultancy (P) Ltd, Baneshwor Kathmandu
5	CIS (P) Ltd JV Benchmark Consultant & Lab (P) Ltd JV Infrastructure Development Research Services (P) Ltd. And Swati Consultant (P) Ltd. JV, Patan, Lalitpur
6	Material Test (P) Ltd JV Milestone Design (P) Ltd and Planning Consult & ECN Consultancy (P) Ltd, Baneshwor Kathmandu

Pkg No. BB-159-DSD-071/72-55

S. No.	Firms Name
1	ITECO Nepal (P) Ltd JV R&R Engineering Consultancy (P) Ltd & Radiant Consulting Consortium (P) Ltd, Minbhawan Kathmandu
2	Civil Engineering Reasearch and Consultancy (P) Ltd. JV Dream Geo Lab (P) Ltd. And B. N. Consultancy Pvt. Ltd.
3	Hydro Trans (P) Ltd JV Aviyaan Consultant & Welink Associates (P) LTd, Sanepa Kathmandu
4	Globle Engineering Associates (P) Ltd JV Prestige Consulting (P) Ltd & Everest Designers League (P) Ltd, Balkhu Kathmandu
5	BDA Nepal (P) Ltd JV Garima International Design Associates Nepal (P) Ltd (GIDAN) & Shubham Eng Consultancy (P) Ltd, Baluwatar Kathmandu
6	TAEC Consult (P) Ltd, Shankhamul Kathmandu

Pkg No. BB-159-DSD-071/72-56

S. No.	Firms Name
1	MEH Consultants (P) Ltd JV Meh Geo- Engineering services (P) Ltd, Baneshwor Kathmandu
2	Civil Informatics & Solution (P) Ltd, Lalitpur
3	Geocom Nepal Consult (P) Ltd JV RND Center (P) Ltd & Sakhuwa Engineering Consultancy (P) Ltd, Kritipur Kathmandu
4	RARA Engineering Consultant (P). Ltd ., Sainbu Lalitpur
5	Full Bright Consultancy (P) Ltd, Sinamangal Kathmandu
6	Premium Consultants (P) Ltd JV SITU Consult & Prism Consults International Lab (P) Ltd, Jwagal Lalitpur



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Iwa Khola Bridge	Phalaincha-1 Panchathar Sadewa -2 Khasbung Hundai Timbung Pokhari Jane Bato ma	Taplejung
2	Tamor Limbuni Bridge	Taplejung Jodne	Panchthar
3	Ri Gewa Khola Bridge	Sidin 2 and Parabung Jodne	Panchthar
4	Puwa Kholama Bridge	Sankhe Junga VDC Milgolai	Ilam
5	Phakphok Kholama Pakki Bridge	EkatappaVDC batPhuetapa VDC Simanam	Ilam
6	Mai Khola Bridge	Hansapukari Sarupakha Irautar Road	Ilam
7	Sanonete Bhimale Bridge	0	Ilam
8	Daanawari 6	Kulo Diya Khola Pakki Bridge	Ilam
9	Rate Puwa Khola Dovan Bridge	Ilam Nagarpalika bat Siddhi, Thumka Gajurmukhi Jane Sadak, Ilam	Ilam
10	Ratuwa Kholama Bridge	Chulachuli VDC wada no. 7 Aitware bat Jhapa Damak-Pathibhara Netralaya Jodne Mangal Uday	Ilam

Contract No. BB-159-DSD-071/72-01																
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Iwa Khola Bridge	Tamor Limbuni Bridge	Ri Gewa Khola Bridge	Puwa Kholama Bridge	Phakphok Kholama Pakki Bridge	Mai Khola Bridge	Sanonete Bhimale Bridge	Daanawari 6	Rate Puwa Khola Dovan Bridge	Ratuwa Kholama Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	4	3	4	3	5	3	3	3	3	34	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	64	48	64	48	80	48	48	48	48	544			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Iwa Khola Bridge	Tamor Limbuni Bridge	Ri Gewa Khola Bridge	Puwa Kholama Bridge	Phakphok Kholama Pakki Bridge	Mai Khola Bridge	Sanonete Bhimale Bridge	Daanawari 6	Rate Puwa Khola Dovan Bridge	Ratuwa Kholama Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Baniyani Kholama Pakki Bridge	Dudamari Kunjibari Road	Jhapa
2	Dhagra Khola Bridge	Dangibari 7 Kumaltol	Jhapa
3	Dama Khola Pakki Bridge	Naksal bahudangi-Shantinagar-BudhbareSagak Jodne Sadak, Budhaware 1	Jhapa
4	Hadiya Kholama Bridge	Naksalbanda-Bahundangi-Shantinagar-Budhbare-Jaypur-Khudunabari-Road, Budhbare 9	Jhapa
5	Bhutlung Kholama Bridge	Sitapuri-Jivanchowk-Devichown-Ratanchow-N-Gauradah Sadakma	Jhapa
6	Gauriya Kholama Bridge, Culvert Constr	Gaurahdah, Schoolchaun, Dillibandh Chilahara Road	Jhapa
7	Kajwe	ChandragadhiWada no. 3 and wada no. 4 Jodne Parijat Chowk batBhadrapur Municipality Road	Jhapa
8	Dhyangri Kholama Bridge	Kerkha-Gurungtol-Ratancaun-Gaurdah Sadakma	Jhapa
9	Kurung Khola Bridge	Shantinagar 7	Jhapa
10	Biring Khola Bridge	Jaypur Sisne khanda	Jhapa

													Contract No.		BB-159-DSD-071/72-02	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Baniyani Kholama Pakki Bridge	Dhagra Khola Bridge	Dama Khola Pakki Bridge	Hadiya Kholama Bridge	Bhutlung Kholama Bridge	Gauriya Kholama Bridge, Culvert Construction	Kajwe	Dhyangri Kholama Bridge	Kurung Khola Bridge	Biring Khola Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	48	480			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Baniyani Kholama Pakki Bridge	Dhagra Khola Bridge	Dama Khola Pakki Bridge	Hadiya Kholama Bridge	Bhutlung Kholama Bridge	Gauriya Kholama Bridge, Culvert Construction	Kajwe	Dhyangri Kholama Bridge	Kurung Khola Bridge	Biring Khola Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Sanu Kamal Khola Bridge	Baigundhara Panchgachi	Jhapa
2	Biring Khola Bridge	Ghailadubba Bazzar batChampapur Sadak Khandama	Jhapa
3	Bhusuki Khola Bridge	Shahid Netramarga Garamani	Jhapa
4	Bhalu Khola Bridge	Maidhar Dekhi Chillaagadhdham	Jhapa
5	Mechi River	40 Km. Tatabandha	Jhapa
6	Stop Chowk Dekhi Shramik tol Jodne Road		Jhapa
7	Ratuwa Kholama Pakki Bridge	Damak 1 and Lakhapur 1 ma Parne	Jhapa
8	Sano Mai Kholama Pakki Bridge	Taghan Dubba 9 ko Kankai Pathma Parne	Jhapa
9	Kamal Khola Bridge	Lakhanpur-Campus-Mangalbare-Shivganj Road	Jhapa
10	Bridge	Dharampur 5 dekhi 4 Jodne Bridge	Jhapa

													Contract No.		BB-159-DSD-071/72-03		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Sanu Kamal Khola Bridge	Biring Khola Bridge	Bhusuki Khola Bridge	Bhalu Khola Bridge	Mechi River	Stop Chowk Dekhi Shramik tol Jodne Road	Ratuwa Kholama Pakki Bridge	Sano Mai Kholama Pakki Bridge	Kamal Khola Bridge	Bridge					
Desk study and field works																	
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																	
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.															
3 Soil investigation																	
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																	
	Number of boreholes		3	3	3	3	5	3	3	3	3	3	32	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	0	60	0	60	0	0	0	0	180				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	48	0	80	0	48	48	48	48	368				
Subtotal of drilling works, field tests and laboratory tests																	

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sanu Kamal Khola Bridge	Biring Khola Bridge	Bhusuki Khola Bridge	Bhalu Khola Bridge	Mechi River	Stop Chowk Dekhi Shramik tol Jodne Road	Ratuwa Kholama Pakki Bridge	Sano Mai Kholama Pakki Bridge	Kamal Khola Bridge	Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Basilal Khola Bridge	Chandargadhi 8 Saraswatimarga	Jhapa
2	Sano raising Bridge	Bahundangi wada no. 6	Jhapa
3	Piltimare Ratuwa khola Bridge (Jhapa/Ila)	Chulachuli/Damak	Jhapa
4	Lohandra Khola Bridge	Majhare 8 and 9 Jodne	Morang
5	Pakki Bridge	Motipur VDC wada no. 2,3	Morang
6	Singhiya Kholama Bridge	Biratnagar Chakrapath Antargat Sindhiya kholama Bridge	Morang
7	Chatara Nahar Mathi Bridge	Shiswani Badahara 6 and Gherawani Limbu tol	Morang
8	Thalaha VDC wada no. 7 Jodne Bridge	Thalaha VDC wada no. 7	Morang
9	Lohandra Khola Bridge	Thalaha VDC wada no. 7	Morang
10	Katnu Khola Bridge	Govindpur/Sijuwa	Morang

													Contract No.		BB-159-DSD-071/72-04	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Basilal Khola Bridge	Sano raising Bridge	Piltimare Ratuwa khola Bridge (Jhapa/Ilam)	Lohandra Khola Bridge	Pakki Bridge	Singhiya Kholama Bridge	Chatara Nahar Mathi Bridge	Thalaha VDC wada no. 7 Jodne Bridge	Lohandra Khola Bridge	Katnu Khola Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	4	3	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	60	0	80	0	0	0	0	200			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	0	48	48	48	48	336			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Basilal Khola Bridge	Sano raising Bridge	Piltimare Ratuwa khola Bridge (Jhapa/Ilam)	Lohandra Khola Bridge	Pakki Bridge	Singhiya Kholama Bridge	Chatara Nahar Mathi Bridge	Thalaha VDC wada no. 7 Jodne Bridge	Lohandra Khola Bridge	Katnu Khola Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Chisang Khola Bridge	0	Morang
2	Londra kholama Bridge	Motipur Kaseni Londra	Morang
3	Singhiya Khola	Tanki Sinuwari 3, Khaptoli	Morang
4	Judi Khola Bridge	Bhathiganj Purwa	Morang
5	Majhitol Jane Bridge	Ramailo Purwa Wayaravan Morang	Morang
6	Rato Khola bridge	kerun Wayarwan Khand Simana	Morang
7	Ramri Khola Bridge	Madhumalla Siranbat Mawa Nunasari Samudayik Ban hundai Madhemalla 3 Malabari Gaon Basti	Morang
8	Holima Bridge	HulakiSamma Jane Hulaki Sadakmarga Biratnagar Mahadev VDC Hundai jhapa Gauriganj	Morang
9	Maya khola ma Pakki Bridge	Chainpur Nagarapalika bat Madi Nagarpalika Jane bato	Sankhuwasabha
10	Thute Kholama Pakki Bridge	Kewabesi-Bihibare-Phaksi hundai Mamling Sadak	Sankhuwasabha

													Contract No.		BB-159-DSD-071/72-05	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Chisang Khola Bridge	Londra kholama Bridge	Singhiya Khola	Judi Khola Bridge	Majhitol Jane Bridge	Rato Khola bridge	Ramri Khola Bridge	Holima Bridge	Maya khola ma Pakki Bridge	Thute Kholama Pakki Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	4	5	3	4	3	3	3	3	34	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	0	0	0	60	0	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	64	80	48	64	0	48	48	48	448			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Chisang Khola Bridge	Londra kholama Bridge	Singhiya Khola	Judi Khola Bridge	Majhitol Jane Bridge	Rato Khola bridge	Ramri Khola Bridge	Holima Bridge	Maya khola ma Pakki Bridge	Thute Kholama Pakki Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Simasuwa Khola	Simasuwa Khola Phaksip and Bhedetar Jodne	Dhankutta
2	Shyam Khola	Dingla Khartamchha Jodne	Bhojpur
3	Dudhkoshi Bridge	Bhojpur Pancha and Udaypurko Ranitar Jodne	Bhojpur
4	Arun River Bridge	Dhankutta Muga and Bhojpur Ghoretar Jodne	Bhojpur
5	Chharuwa Khola Bridge	Sisnedobhan	Dhankutta
6	Jita khola bridge	Joginiya VDC 2 and 6 ma	Saptari
7	Phanphi Bridge	Kathauna Pato Sadakma Jodne Kathauna Purwavari to-Kathauna Naya Basti Hundai Basalapur VI	Saptari
8	Kajara Bridge	Gamhariya and Kajara Jodne	Saptari
9	Pump Nahar Bridge	0	Saptari
10	Mahulidharama Bridge	Baramajhiya VDC Antargat Subbatol and Baramajhiya Jodne	Saptari

													Contract No.	BB-159-DSD-071/72-06		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Simasuwa Khola	Shyam Khola	Dudhkoshi Bridge	Arun River Bridge	Chharuwa Khola Bridge	Jita khola bridge	Phanphi Bridge	Kajara Bridge	Pump Nahar Bridge	Mahulidharam a Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	5	5	5	3	4	3	3	3	37	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	80	0	0	0	80			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	80	80	80	48	0	48	48	48	528			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Simasuwa Khola	Shyam Khola	Dudhkoshi Bridge	Arun River Bridge	Chharuwa Khola Bridge	Jita khola bridge	Phanphi Bridge	Kajara Bridge	Pump Nahar Bridge	Mahulidharam a Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Mahuli Khola Bridge	Diman Hulaki Rajmarga dekhi Dakshin Goithi wada no.9 hundaiGoithi wada no. 5 dekhi purwa G	Saptari
2	Budhi khola Bridge (Sunsari/Morang)	Morang Sadarmukam Biratnagar dekhi Tanki Sinuwari Hundai Sunsariko Sadramukam Inaruwa Ja	Sunsari
3	Shera Kholama Motorable Bridge	Mahendra Chowk-Dumraha-Mathillo Khoriya-Ramduni Jodne Batoma	Sunsari
4	Bakalauri 9 72 Bigahama Parne Sunsari	Bakalauri 9 72 Biddiyama Parne Sunsari Kholama Bridge	Sunsari
5	Singhiya Khola Bridge (Sunsari/Morang)	Purwa Paschim lokmarga Dekhi Sunsariko Inaruwa Duhabi, Morangko Hattimuda tetariya Motipu	Sunsari
6	Thalaha Khola Bridge (Sunsari/Morang)	Kanchanbari 5 Purwa Kushaha Satterjhora Dhitaha hundai Babiya VDC 9 Chaudhari tol HundaiIn	Sunsari
7	Seuti Khola Bridge	Dharan Pnchakanya Kerabari Road	Sunsari
8	Sunsari Khola Bridge (Sunsari/Morang)	Dhuski VDC wada no. 3 and Basantpur VDC wada no. 7 Jodne	Sunsari
9	Shera Kholama Culvert	Shera Khola Hasposa VDC 5	Sunsari
10	Khuniyadhama Pakki Beidge	0	Sunsari

													Contract No.		BB-159-DSD-071/72-07	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahuli Khola Bridge	Budhi khola Bridge (Sunsari/Morang)	Shera Kholama Motorable Bridge	Bakalauri 9 72 Bigahama Parne Sunsari Kholama Bridge	Singhiya Khola Bridge (Sunsari/Morang)	Thalaha Khola Bridge (Sunsari/Morang)	Seuti Khola Bridge	Sunsari Khola Bridge (Sunsari/Morang)	Shera Kholama Culvert	Khuniyadhama Pakki Beidge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		5	4	3	3	4	3	3	3	3	3	34	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	100	0	0	0	80	0	60	0	0	0	240			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	64	48	48	0	48	0	48	48	48	352			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahuli Khola Bridge	Budhi khola Bridge (Sunsari/Morang)	Shera Kholama Motorable Bridge	Bakalauri 9 72 Bigahama Parne Sunsari Kholama Bridge	Singhiya Khola Bridge (Sunsari/Morang)	Thalaha Khola Bridge (Sunsari/Morang)	Seuti Khola Bridge	Sunsari Khola Bridge (Sunsari/Morang)	Shera Kholama Culvert	Khuniyadharm a Pakki Beidge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Andheri Khola Bridge Dharan	Dharan	Sunsari
2	Hakraha Khola	Pakli wada no. 5	Sunsari
3	Sarpu Khola	Dharan Bishnu Paduka and Mahabharat Jodne	Sunsari
4	Sukumari Khola Bridge	Janata Campus Hansposa bat Yogendramarga Jodne	Sunsari
5	Amaha Khola Bridge	Itahari Up-Mahanagarapalia ka Sabik Pakli Kanchhi Chowk Ilaka Prahari Office Purwa Mahendra	Sunsari
6	Dudhkoshi River Bridge	Jilla Sadarmukam Jodne Banshila ghatma	Khotang
7	Rawa Khola Bridge	Katahare Bensi Kubhinde-Dumrebesi	Khotang
8	Sego Khola Bridge	Salleri 5 - Phaplu Salleri (Chhoto Bato)	Solukhumbu
9	Dudh Koshi River Bridge	Dewsa 1 and Pauwa 7 Bich	Solukhumbu
10	Diblichat Bridge	Deusa 1 Sem and Pawai 7, Dudhkoshi	Solukhumbu

Contract No.													BB-159-DSD-071/72-08			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Andheri Khola Bridge Dharan	Hakraha Khola	Sarpu Khola	Sukumari Khola Bridge	Amaha Khola Bridge	Dudhkoshi River Bridge	Rawa Khola Bridge	Sego Khola Bridge	Dudh Koshi River Bridge	Diblighat Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	4	3	3	3	3	31	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	60	0	60	0	0	0	0	0	180			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	0	48	0	64	48	48	48	48	352			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Andheri Khola Bridge Dharan	Hakraha Khola	Sarpu Khola	Sukumari Khola Bridge	Amaha Khola Bridge	Dudhkoshi River Bridge	Rawa Khola Bridge	Sego Khola Bridge	Dudh Koshi River Bridge	Diblightat Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Rok Khola Bridge	Lokhim -Deurali-Gumdel Ma. Vi.	Solukhumbu
2	Sikhu Khola Bridge	Nele 9, Solukhumbu	Solukhumbu
3	Rupani kholama Bridge	Badbhar Dekhi Uttar	Siraha
4	Rupani kholama Bridge	Lahan 9 Dekhi Taregana Govindapur-Kabhre Mahadevsthan Sadak Khandama, Bardamar dekhi U	Siraha
5	Kotaniya Khola Bridge	Maheshpur and dhanadwar Gaon jodne	Siraha
6	Mainabast Bridge	Siraha Municipality Labaka tol	Siraha
7	Bataha Kholama Pakki Bridge	Ramnagar Mirchaiya 4 dekhi 10 and 11 Jane Batoma	Siraha
8	Karamje khola Bridge	Fattehpur-Basaha-Ranitar Sadak khanda, Basah 4	Udaypur
9	Sundari Khola ma Bridge (Sano)	Udaypur Jilla ko Basaha Municipality and Sundarpur VDC ko Bichma	Udaypur
10	Shahi Khola Bridge	Triyuga Municipality 15 Gaighat	Udaypur

													Contract No.		BB-159-DSD-071/72-09	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rok Khola Bridge	Sikhu Khola Bridge	Rupani kholama Bridge	Rupani kholama Bridge	Kotaniya Khola Bridge	Mainabast Bridge	Bataha Kholama Pakki Bridge	Karamje khola Bridge	Sundari Khola ma Bridge (Sano)	Shahi Khola Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	60	0	60	0	0	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	0	48	0	48	48	48	48	384			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rok Khola Bridge	Sikhu Khola Bridge	Rupani kholama Bridge	Rupani kholama Bridge	Kotaniya Khola Bridge	Mainabast Bridge	Bataha Kholama Pakki Bridge	Karamje khola Bridge	Sundari Khola ma Bridge (Sano)	Shahi Khola Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Belchowk khola	Tribeni VDC	Udaypur
2	Triyuga Nadima Bridge	Sundarpur VDC Shivai Beltar Bazzar	Udaypur
3	Sunkoshi Nadima Bridge	Nawalpur Ghat	Okhaldhunga
4	Pakting khola Motor Bridge	boruneshwar 9 , Boruneshwar Niguwatar	Okhaldhunga
5	Dudh koshi Bridge	Taluwa mulghat	Okhaldhunga
6	Roch Bridge	Mamkha -5 Okhaldhunga Ratmate	Okhaldhunga
7	Silkhu Khola Brige	Ranivan-Kalika Batoma	Okhaldhunga
8	Bhimabandh, Kataniyanadima Pakki Bridge	Harsapur kathpula antaragtt wada no. 7 ma parne	Dhanusha
9	Balua Nadima Bridge	Dhanushadham Raghunathpur Road	Dhanusha
10	Banganganadima Bridge	Dhanushadham-Makhanaha Road	Dhanusha

													Contract No.	BB-159-DSD-071/72-10		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Belchowk khola	Triyuga Nadima Bridge	Sunkoshi Nadima Bridge	Pakting khola Motor Bridge	Dudh koshi Bridge	Roch Bridge	Silkhu Khola Brige	Bhimabandh, Kataniyanadima Pakki Bridge	Balua Nadima Bridge	Banganganadima Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	4	4	5	3	4	3	3	3	3	35	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	64	64	80	48	64	48	48	48	48	560			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Belchowk khola	Triyuga Nadima Bridge	Sunkoshi Nadima Bridge	Pakting khola Motor Bridge	Dudh koshi Bridge	Roch Bridge	Silkhu Khola Brige	Bhimabandh, Kataniyanadima Pakki Bridge	Balua Nadima Bridge	Banganganadima Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Dudaniya River Bridge	Suga Madhukahi	Dhanusha
2	Jamuni Nadima Bridge	Bhadaliya dekhiBharat border samma	Dhanusha
3	Gamariya Nadi ma Bridge	Harusa Dekhi Gobarahi Duhawi (Bharat Simana) Jane batoma	Dhanusha
4	Baluwa Khola Bridge	Lagma Purwa-Paschim tole ko Bich	Dhanusha
5	Belauti (Bagmukhi) Khola Bridge	Baidehi wada no. 3 and 4 ko Bich ma Parne	Dhanusha
6	Jallad Bridge	Khadka Dekhi Paschim	Dhanusha
7	Babudah Bridge	Bairiya and Haspatti ko Bich ma	Dhanusha
8	Saranchiya Bridge	Khirkhira and Davdiha ko Bich ma	Dhanusha
9	Jallad Nadi Bridge	Rupaitha and Bahuarva ko Bich ma	Dhanusha
10	Jamuni Khola Bridge	Railway Line ko Pawaha Satatio Dekhi Taureswar VDC	Dhanusha

Contract No.														BB-159-DSD-071/72-11			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Dudaniya River Bridge	Jamuni Nadima Bridge	Gamariya Nadi ma Bridge	Baluwa Khola Bridge	Belauti (Bagmukhi) Khola Bridge	Jallad Bridge	Babudah Bridge	Saranchiya Bridge	Jallad Nadi Bridge	Jamuni Khola Bridge					
Desk study and field works																	
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																	
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.															
3 Soil investigation																	
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																	
	Number of boreholes		3	3	3	3	3	5	3	3	3	3	32	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	60	0	0	60	0	0	0	180				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	80	0	48	48	48	368				
Subtotal of drilling works, field tests and laboratory tests																	

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Dudaniya River Bridge	Jamuni Nadima Bridge	Gamariya Nadi ma Bridge	Baluwa Khola Bridge	Belauti (Bagmukhi) Khola Bridge	Jallad Bridge	Babudah Bridge	Saranchiya Bridge	Jallad Nadi Bridge	Jamuni Khola Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Basai Khola Bridge	Naktajhi Paschim Bateshwar Jane bato	Dhanusha
2	Kholasi Bridge	Sabaila and Paterwa VDC Kothiya Tol	Dhanusha
3	Jamuni River Bridge	Paureshwar Deuri	Dhanusha
4	Kamala River Bridge, Sindhuli	Harshahi VDC wada no. 5 and Agadi and Sirthauli VDC wada no. 5 khaniya Jodne	Sindhuli
5	Marin Khola Bridge	Kapilakot VDC ko Dhamile Kalpabrikshako Sahana jodne	Sindhuli
6	Kamala River Bridge	Kamalmai Municipality	Sindhuli
7	Kamala Khola Bridge	Kamalmai 11 and 16 ko Bich	Sindhuli
8	Sunkoshi Bridge (Sindhuli/Okhaldhunga)	Nawalpur Ghat	Sindhuli
9	Sunkoshi bridge	Beni Narwadeshwar Bat Khalte jane Road	Ramechhapp
10	Tamakoshi River Bridge	Bhaluwajor 1 Kunauri and Bhatauli Mugitar and Bich	Ramechhapp

													Contract No.		BB-159-DSD-071/72-12	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Basai Khola Bridge	Kholasi Bridge	Jamuni River Bridge	Kamala River Bridge, Sindhuli	Marin Khola Bridge	Kamala River Bridge	Kamala Khola Bridge	Sunkoshi Bridge (Sindhuli/Okhaldhunga)	Sunkoshi bridge	Tamakoshi River Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	5	4	3	3	33	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	0	0	0	0	0	0	0	60			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	48	48	48	80	64	48	48	480			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Basai Khola Bridge	Kholsi Bridge	Jamuni River Bridge	Kamala River Bridge, Sindhuli	Marin Khola Bridge	Kamala River Bridge	Kamala Khola Bridge	Sunkoshi Bridge (Sindhuli/Okha Idhunga)	Sunkoshi bridge	Tamakoshi River Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Sunkoshi Bridge	Rampur VDC 1 Kolanjorghat	Ramechhapp
2	Ghatte Khola Road Bridge	Ghyangpani Sera Sukai Nigale road	Dolakha
3	Bathe Kholama Bridge	Jiri, Htadanda-Gomphalung-SerakaptiSadakma Parne Bathe Kholama	Dolakha
4	Dhyang Khola Pakki Bridge	Dhyangskathokar	Dolakha
5	Maure Khola Bridge	Sunkhani sangwa Road	Dolakha
6	Yarsa Khola Bridge	Majhuwa Tallogainda Mirge Tarne	Dolakha
7	Bridge	Dolakha and Sindhupalchowk Jodne Katakuti and Bhimeshwar Nagapalika 8 ko bich ko Gaighat	Dolakha
8	Jangha River Bridge	Tikuliya and Sasaula Bich	Mahottari
9	Sunikholama Bridge	Belgachhi VDC Wada no. 2 and 7 ko Bichma	Mahottari
10	Chanukhara Bridge	Mahottari Bazaar bat Chanukhara Jane Road	Mahottari

Contract No.													BB-159-DSD-071/72-13			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sunkoshi Bridge	Ghatte Khola Road Bridge	Bathe Kholama Bridge	Dhyang Khola Pakki Bridge	Maure Khola Bridge	Yarsa Khola Bridge	Bridge	Jangha River Bridge	Sunikholama Bridge	Chanukhara Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		4	3	3	3	3	3	3	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	64	48	48	48	48	48	48	48	48	48	496			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sunkoshi Bridge	Ghatte Khola Road Bridge	Bathe Kholama Bridge	Dhyang Khola Pakki Bridge	Maure Khola Bridge	Yarsa Khola Bridge	Bridge	Jangha River Bridge	Sunikholama Bridge	Chanukhara Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Jangha River Bridge	Mahottari 5	Mahottari
2	Rato River Bridge	Tikuliya ko Purwa Patti	Mahottari
3	Khayarmara Khola Pakki Bridge	0	Mahottari
4	Sano Khola Bridge	Gaushala Bazzar Khalto Bazzar	Mahottari
5	Bhurahai Khola	(Jaypur) Mahendranagar (Dhanusha)	Mahottari
6	Hardi Khola Bridge	Mahendranagar Dhanusha Gaushala	Mahottari
7	Basahi Badahari Khola Bridge	Purwa Mahendranagar -Paschim kalipur VDC and Shantinagar VDC Bichama	Mahottari
8	Jamuni Nadi Bridge	Jatahi sadak ma Parne	Mahottari
9	Jallad Nadi bridge	Jatahi sadak ma Parne	Mahottari
10	Dudhamati nadi Bridge	Jatahi sadak ma Parne	Mahottari

Contract No. BB-159-DSD-071/72-14																
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jangha River Bridge	Rato River Bridge	Khayarmara Khola Pakki Bridge	Sano Khola Bridge	Bhurahai Khola	Hardi Khola Bridge	Basahi Badahari Khola Bridge	Jamuni Nadi Bridge	Jallad Nadi bridge	Dudhamati nadi Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	5	3	3	3	3	3	3	3	3	32	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	0	60	0	60	0	0	0	0	180			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	80	48	0	48	0	48	48	48	48	368			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jangha River Bridge	Rato River Bridge	Khayarmara Khola Pakki Bridge	Sano Khola Bridge	Bhurahai Khola	Hardi Khola Bridge	Basahi Badahari Khola Bridge	Jamuni Nadi Bridge	Jallad Nadi bridge	Dudhamati nadi Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Ratu Nadi Bridge	Janakpur Parikrama Sadak, CH 20+800	Mahottari
2	Jharan Khola Birdge	Janakpur Parikrama Sadak, CH 23+820	Mahottari
3	Patthar Khola Bridge	Janakpur Parikrama Sadak, CH 25+900	Mahottari
4	Kholsi Bridge	Janakpur Parikrama Sadak, CH 29+700	Mahottari
5	Jallad Nadi bridge	Janakpur Parikrama Sadak, CH 42+500	Mahottari
6	Kholsi Bridge	Janakpur Parikrama Sadak, CH 48+700	Mahottari
7	Baluwa Nadi Bridge	Janakpur Parikrama Sadak, CH 53+700	Mahottari
8	Sarbela Nadi Bridgege	Janakpur Parikrama Sadak, CH 60+940	Mahottari
9	Basahi Khola Bridge	Nakta Jhijh-Krishi Vikas Pariyojana bat Bateswor Jane Basahi Khola ma Bridge	Mahottari
10	Manusmara Nadima Bridge	Salempur Hirapur Sadakama Parne	Sarlahi

Contract No.													BB-159-DSD-071/72-15			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Ratu Nadi Bridge	Jharan Khola Birdge	Patthar Khola Bridge	Kholsi Bridge	Jallad Nadi bridge	Kholsi Bridge	Baluwa Nadi Bridge	Sarbela Nadi Bridgege	Basahi Khola Bridge	Manusmara Nadima Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		5	3	3	3	4	3	3	3	3	3	33	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	100	0	60	0	0	60	0	0	0	0	220			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	0	48	64	0	48	48	48	48	352			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Ratu Nadi Bridge	Jharan Khola Bridge	Patthar Khola Bridge	Kholsi Bridge	Jallad Nadi bridge	Kholsi Bridge	Baluwa Nadi Bridge	Sarbela Nadi Bridge	Basahi Khola Bridge	Manusmara Nadima Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

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Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Purano Manusmara Bridge Construction	Mirjapur Wada no. 8 (Madh tol) Dekhi Madhuwani Jane Batoma	Sarlahi
2	Sapaha Kholama Bridge	Pipada VDC	Sarlahi
3	Soti Khola Bridge	Khairwa Bazzar and Inarwatol Jodne	Sarlahi
4	Sadak Culvert	Dhumaliya and Belwa Jodne	Sarlahi
5	Lakhandehi Bridge	Hempur VDC and Janakinagar wada no. 8 Tikuliya tole Bich ma	Sarlahi
6	Budiwagati Bridge	Jariya 5 and 9 Jodne	Sarlahi
7	Smasanghatma Motor Bridge	Barampuri VDC-8	Sarlahi
8	Laxmipur Majurwa Pakki Bridge	0	Sarlahi
9	Banke Nadima Bridge	Gaushala-Basatpur-Haripurwa Hundai Malangwa Jane Sadakma	Sarlahi
10	Bhim Puranodhar Bridge	Laxmipur-Majurwa Road	Sarlahi

Contract No.																BB-159-DSD-071/72-16	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Purano Manusmara Bridge Construction	Sapaha Kholama Bridge	Soti Khola Bridge	Sadak Culvert	Lakhandehi Bridge	Budiwagati Bridge	Smasanghatma Motor Bridge	Laxmipur Majurwa Pakki Bridge	Banke Nadima Bridge	Bhim Puranodhar Bridge					
Desk study and field works																	
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																	
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.															
3 Soil investigation																	
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																	
	Number of boreholes		5	3	3	3	5	3	3	3	3	3	34	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	100	0	60	0	100	0	60	0	0	0	320				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	0	48	0	48	0	48	48	48	288				
Subtotal of drilling works, field tests and laboratory tests																	

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Purano Manusmara Bridge Construction	Sapaha Kholama Bridge	Soti Khola Bridge	Sadak Culvert	Lakhandehi Bridge	Budiwagati Bridge	Smasanghatma Motor Bridge	Laxmipur Majurwa Pakki Bridge	Banke Nadima Bridge	Bhim Puranodhar Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Pulharuko Nirman (Sarlahi/Rautahat)	Bagamati Bridge Rautahat-Chhatauna Hatiaul Balara Nepal Bharat Border Sarlahi Sammak Bato	Sarlahi
2	Jhanjh River Bridge	Miduwa VDCand Laukaha VDC ko Bichama	Rautahat
3	Lamaha River Bridge	Bhediya VDC	Rautahat
4	Bangri Bridge	Jhil-jhapati-Itiyahi Bichama	Rautahat
5	Sindhulitar Pakki Bridge Construction	Pumpatar-Ramechhap Jilla	Kavre
6	Raviopi-Anekot Phedi Bridge	0	Kavre
7	Roshi Khola Bridge	Khaharepangu Shikhar Ambote	Kavre
8	Roshi Khola Phalamesangu bridge	Daraunepokhari and Shikharambote Jodne	Kavre
9	Roshi Khola bridge	Narke Road	Kavre
10	Mangaltar 4 and Chapakhori 1 Bichama	Mangaltar Chapakhori	Kavre

													Contract No.		BB-159-DSD-071/72-17		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Pulharuko Nirman (Sarlahi/Rautahat)	Jhanjh River Bridge	Lamaha River Bridge	Bangri Bridge	Sindhulitar Pakki Bridge Construction	Raviopi-Anekot Phedi Bridge	Roshi Khola Bridge	Roshi Khola Phalamesangu bridge	Roshi Khola bridge	Mangaltar 4 and Chapakhori 1 Bichama Parne					
Desk study and field works																	
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																	
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.															
3 Soil investigation																	
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																	
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	60	0	0	0	0	0	0	120				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	48	48	48	48	48	384				
Subtotal of drilling works, field tests and laboratory tests																	

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Pulharuko Nirman (Sarlahi/Rautahat)	Jhanjh River Bridge	Lamaha River Bridge	Bangri Bridge	Sindhulitar Pakki Bridge Construction	Raviopi-Anekot Phedi Bridge	Roshi Khola Bridge	Roshi Khola Phalamesangu bridge	Roshi Khola bridge	Mangaltar 4 and Chapakhori 1 Bichama Parne				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Jhigu Khola Bridge, Anekot	Jhigu Khola Bridge anekot	Kavre
2	Koili Bagar-Darkha Charikhola Pakki Br	Kavre/Ramechhap	Kavre
3	Moppatar-Sindhuretar Sunkoshi Pakki Br	Kavre/Ramechhap	Kavre
4	Sunkoshi Nadima Bridge	0	Sindhupalchowk
5	Gorekhola Bridge	Ichowk	Sindhupalchowk
6	Sunkoshi Bagar Bridge	Karthali Budhepa and Chekatai Jodne	Sindhupalchowk
7	Talamarang-Bhattar Bridge	Sindhupalchowk 3	Sindhupalchowk
8	Sunkoshi Bridge	mankha-Walka (Tekanpur)	Sindhupalchowk
9	Bokse khola bridge	Jalabire	Sindhupalchowk
10	Ninjel khola Bridge (Sindhupalchowk/Dc	Sindhupalchowk Jilla Thulo Dhading VDC wada no. 1	Sindhupalchowk

													Contract No.	BB-159-DSD-071/72-18		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jhigu Khola Bridge, Anekot	Koili Bagar-Darkha Charikhola Pakki Bridge	Moppatar-Sindhuretar Sunkoshi Pakki Bridge	Sunkoshi Nadima Bridge	Gorekhola Bridge	Sunkoshi Bagar Bridge	Talamarang-Bhattar Bridge	Sunkoshi Bridge	Bokse khola bridge	Ninjel khola Bridge (Sindhupalchowk/Dolakha)				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	4	3	4	3	3	3	3	32	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	64	48	64	48	48	48	48	512			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jhigu Khola Bridge, Anekot	Koili Bagar-Darkha Charikhola Pakki Bridge	Moppatar-Sindhuretar Sunkoshi Pakki Bridge	Sunkoshi Nadima Bridge	Gorekhola Bridge	Sunkoshi Bagar Bridge	Talamarang-Bhattar Bridge	Sunkoshi Bridge	Bokse khola bridge	Ninjel khola Bridge (Sindhupalcho wk/Dolakha)				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Baalganga Bridge	Badaharawa	Bara
2	Duddyauri Khola Bridge	Prastoka VDC 1 and 2 Jodne	Bara
3	Jamuni River Bridge	Bara Bazzar and Barewa Jodne	Bara
4	Shakti Khola Bridge Amalekhganj	0	Bara
5	Aduwa River Bridge	Kalaiya-Katahariya Road	Bara
6	Tiyar nadima bridge	Belahi and 3 Taharko Bich	Bara
7	Jamuni Nadiko Bridge	barewa and Bara Bazzarko bich	Bara
8	Dudhaura Khola Bridge	Badaharawa Ghat Buniyand	Bara
9	Hadi Khola Bridge	Basmadi 2 Rajmarg bat hadi Khola Jodne	Makawanpur
10	Khahare Kholama Bridge	Bhimphedi	Makawanpur

														Contract No.		BB-159-DSD-071/72-19	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Baalganga Bridge	Duddyauri Khola Bridge	Jamuni River Bridge	Shakti Khola Bridge Amalekhganj	Aduwa River Bridge	Tiyar nadima bridge	Jamuni Nadiko Bridge	Dudhaura Khola Bridge	Hadi Khola Bridge	Khahare Kholama Bridge					
Desk study and field works																	
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																	
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.															
3 Soil investigation																	
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																	
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	60	0	0	60	0	0	0	120				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	0	48	48	0	48	48	48	384				
Subtotal of drilling works, field tests and laboratory tests																	

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Baalganga Bridge	Duddyauri Khola Bridge	Jamuni River Bridge	Shakti Khola Bridge Amalekhganj	Aduwa River Bridge	Tiyar nadima bridge	Jamuni Nadiko Bridge	Dudhaura Khola Bridge	Hadi Khola Bridge	Khahare Kholama Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Rapti Khola Bridge	Basamadi 3-Padampokhari-7	Makawanpur
2	Chuling Khola Motor Bridge	Sarikhet Palase	Makawanpur
3	Deujar khola Bridge	Betani/Phapharbari	Makawanpur
4	Rapti Khola Bridge	Padampokhari 7 Bat Basamadi 2 Jodne	Makawanpur
5	Bishnumati Bridge ko Reconstruction	Kathmandu Paropkar School Sangaiko Bishnumati Bridge ko Reconstruction	Kathmandu
6	Bishnumati Bridge	Kathmandu Balaju Chowk Najik ko Sorhakhutte, Balaju Chowk Sadakma Parne Bishnumati Bridge	Kathmandu
7	Sinamangal Dhobi Khola Bridge	Sinamangal Dhobi Khola Bridge Bhatkeko Bridge ko Thaumna Naya Banaune	Kathmandu
8	Bagamati River Bridge	Kathmandu Shankhamul ma Bagamati Nadi ma two lane Bridge Constructio Garne	Kathmandu
9	Manohara Khola Sarvice lane Bridge Cor	Kathmandu Bhaktapur Sadak ma Parne Manohara Khola ma Service Lane ma Bridge Construction	Kathmandu
10	Hanumante Khola Sarvice lane Bridge C	Kathmandu Bhaktapur Sadak ma Parne Hanumante Khola ma Service Lane ma Bridge Constructio	Kathmandu

Contract No.													BB-159-DSD-071/72-20			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rapti Khola Bridge	Chuling Khola Motor Bridge	Deujar khola Bridge	Rapti Khola Bridge	Bishnumati Bridge ko Reconstruction	Bishnumati Bridge	Sinamangal Dhobi Khola Bridge	Bagamati River Bridge	Manohara Khola Sarvice lane Bridge Construction	Hanumante Khola Service lane Bridge Construction				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		5	3	3	5	3	5	3	3	3	3	36	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	48	48	80	48	80	48	48	48	48	576			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rapti Khola Bridge	Chuling Khola Motor Bridge	Deujar khola Bridge	Rapti Khola Bridge	Bishnumati Bridge ko Reconstruction	Bishnumati Bridge	Sinamangal Dhobi Khola Bridge	Bagamati River Bridge	Manohara Khola Sarvice lane Bridge Construction	Hanumante Khola Service lane Bridge Construction				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

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Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES**Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):**

S. N.	Name of Bridge	Name of Road	District
1	Sangle Khola Bridge	Sangla 9	Kathmandu
2	Khahare Kholama Bridge	Kirtipur Municipality 8, Champadevi Hundai Nepal Rastiya Jatiya	Kathmandu
3	Bishnumati Kholama Bridge	0	Kathmandu
4	Bagmati Bridge	Sundarjal	Kathmandu
5	Goldhunga 1 and 2 Jodne Road	0	Kathmandu
6	Kankeshwari Motor Bridge	Kathmandu Wada no. 19	Kathmandu
7	Chisapani Bridge	Deuki Culvert Dharmasthalibat Jitpur Phedi Jandako	Kathmandu
8	Mahadevsthan Trivenidham Hundai Dah	0	Kathmandu
9	Chihane Khola Motor Bridge	Chapali 4, Kathmandu	Kathmandu
10	Bagamati River Bridge	Setidevi VDC Lalitpur, Chhaimpigaon Bich Jodne	Kathmandu

Contract No.													BB-159-DSD-071/72-21			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sangle Khola Bridge	Khahare Kholama Bridge	Bishnumati Kholama Bridge	Bagmati Bridge	Goldhunga 1 and 2 Jodne Road	Kankeshwari Motor Bridge	Chisapani Bridge	Mahadevsthan Trivenidham Hundai Dahchhauk	Chihane Khola Motor Bridge	Bagamati River Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	5	3	3	3	3	3	3	32	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	80	48	48	48	48	48	48	512			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sangle Khola Bridge	Khahare Kholama Bridge	Bishnumati Kholama Bridge	Bagmati Bridge	Goldhunga 1 and 2 Jodne Road	Kankeshwari Motor Bridge	Chisapani Bridge	Mahadevsthan Trivenidham Hundai Dahchhak Motor Bridge	Chihane Khola Motor Bridge	Bagamati River Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

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Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Balkhu Kholama Bridge	Kathmandu Municipality wada no. 14 Kaphalgalli marga and Hanagulu marga ko Bichama	Kathmandu
2	Bishnumati Bridge wada no. 16	0	Kathmandu
3	Dhobi Khola Bridge	Mahankal and Kapan VDC Jodne Nikhileshwar Mandir ko Dakshin	Kathmandu
4	Karmanasha Bridge	Taukhel Takhel Motorbatoma	Lalitpur
5	Chhampi motorable Bridge	Chapagaon, Sherakhand Chhampi	Lalitpur
6	Aadinath Dobhanma Pakki Bridge	Hadinath Marga	Lalitpur
7	Manohara Hanumante Tripur Bridge	0	Lalitpur
8	Gotikhel Baitarnighat Bridge	0	Lalitpur
9	Sankhamul bat Sidhabaneswar Jane Bridge	0	Lalitpur
10	Karmanasha Bridge	Taukhel bat Chapagaon Jane bato	Lalitpur

													Contract No.	BB-159-DSD-071/72-22		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Balkhu Kholama Bridge	Bishnumati Bridge wada no. 16	Dhobi Khola Bridge	Karmanasha Bridge	Chhampi motorable Bridge	Aadinath Dobhanma Pakki Bridge	Manohara Hanumante Tripur Bridge	Gotikhel Baitarnighat Bridge	Sankhamul bat Sidhabaneswar Jane Bridge	Karmanasha Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		5	3	3	3	3	3	4	3	3	3	33	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	48	48	48	48	48	64	48	48	48	528			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Balkhu Kholama Bridge	Bishnumati Bridge wada no. 16	Dhobi Khola Bridge	Karmanasha Bridge	Chhampi motorable Bridge	Aadinath Dobhanma Pakki Bridge	Manohara Hanumante Tripur Bridge	Gotikhel Baitarnighat Bridge	Sankhamul bat Sidhabaneswar Jane Bridge	Karmanasha Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N	Name of Bridge	Name of Road	District
1	Mahadev kholama Bridge	Jhaukel 9,1,2,3,4 bat duwakot Jane Sadakako besitolnir	Bhaktapur
2	Hanumante kholama Bridge	0	Bhaktapur
3	Sole-Bhimali-Hakubesi Bridge	0	Rasuwa
4	Yarsa Saramathali Bridge	0	Rasuwa
5	Lhangmu Khola bridge	0	Rasuwa
6	Bhotekoshi Bridge	Sano Bharkhu	Rasuwa
7	Taadi Bridge	Madanpur Ghaudghat Bidur municipality	Nuwakot
8	Madanpur Ghodeghat	Bidur Municipality	Nuwakot
9	Khahare Khola Bridge	Abhnjyang	Nuwakot
10	Shivalaya Bridge	Samundradevi VDC wada no. 4 and Bhadratar VDC Jodne	Nuwakot

Contract No.													BB-159-DSD-071/72-23			
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahadev kholama Bridge	Hanumante kholama Bridge	Sole-Bhimali-Hakubesi Bridge	Yarsa Saramathali Bridge	Lhangmu Khola bridge	Bhotekoshi Bridge	Taadi Bridge	Madanpur Ghodeghat	Khahare Khola Bridge	Shivalaya Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		4	4	3	3	3	4	3	3	3	3	33	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	64	64	48	48	48	64	48	48	48	48	528			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahadev kholama Bridge	Hanumante kholama Bridge	Sole-Bhimali-Hakubesi Bridge	Yarsa Saramathali Bridge	Lhangmu Khola bridge	Bhotckoshi Bridge	Taadi Bridge	Madanpur Ghodeghat	Khahare Khola Bridge	Shivalaya Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Gangol Nadiko Bridge	Nichuta VDC Mortol Jane bato	Parsa
2	Siyasut River Bridge	Choeni VDC 7 Parasawa	Parsa
3	Dhungahi Khola Bridge	Bishrampur Mahuwan Jodne	Parsa
4	Chandrawati Bridge	Laxmipur Jaganathpur	Parsa
5	Oriya Bridge Construction	Mirjapur and Tulsiwarwa VDC bich Parne	Parsa
6	Belawa river bridge	Belwa Road	Parsa
7	Tiyar nadima bridge	Belahi and Itaharko Bichama	Parsa
8	VDC Chornitol Paraswako Bridge Construction	VDC Chornitol Paraswako Bridge Construction	Parsa
9	Pampa Khola Bridge	Surtani pul, Khairhani 2 and Jodne	Chitwan
10	Dhrubaghatma Pakki Bridge	Thori Madi Dhrubaghatma	Chitwan

													Contract No.	BB-159-DSD-071/72-24		
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Gangol Nadiko Bridge	Siyasut River Bridge	Dhungahi Khola Bridge	Chandrawati Bridge	Oriya Bridge Construction	Belawa river bridge	Tiyar nadima bridge	VDC Chornitol Paraswako Bridge Construction	Pampa Khola Bridge	Dhrubaghatma Pakki Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	10				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	10				
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	30	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	60	0	60	0	60	0	0	180				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	0	48	0	48	0	48	48	336				
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Gangol Nadiko Bridge	Siyasut River Bridge	Dhungahi Khola Bridge	Chandrawati Bridge	Oriya Bridge Construction	Belawa river bridge	Tiyar nadima bridge	VDC Chornito Parawako Bridge Construction	Pampa Khola Bridge	Dhrubaghatma Pakki Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Betari Khola Bridge	Bharatpur-Shivanagar-Parwatipur ShukranagarHundai meghauli 9 ma Parne	Chitwan
2	Kholama Bridge	Pampa Khola Bridge Khairhani 2, Namuna Pertol Pump Bat Surtani gaon Jane batoma	Chitwan
3	Pampha Khola Bridge (Chipleri)	Birendranagar	Chitwan
4	Dhungre Khola Bridge	Kumjora 3	Chitwan
5	Chitai Khola Bridge	Gardi VDC ko Wada no. 1 and 3 Jodne	Chitwan
6	Tulsipur River Bridge	Khairhani Municipality	Chitwan
7	Magani Bridge	Khairhani	Chitwan
8	Chyatra Khola Bridge	Khairhani VDC 8	Chitwan
9	Pampa Khola Bridge	Birendranagar-1, Korak VDC	Chitwan
10	Gaddas Bhaluwang Bridge	Dahakhani 8-9	Chitwan

													Contract No.		BB-159-DSD-071/72-25	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Betari Khola Bridge	Kholama Bridge	Pampha Khola Bridge (Chipleri)	Dhungre Khola Bridge	Chitai Khola Bridge	Tulsipur River Bridge	Magani Bridge	Chyatra Khola Bridge	Pampa Khola Bridge	Gaddas Bhaluwang Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	0	60	0	0	60	0	0	0	180			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	48	0	48	48	0	48	48	48	336			
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Betari Khola Bridge	Kholama Bridge	Pampha Khola Bridge (Chipleri)	Dhungre Khola Bridge	Chitai Khola Bridge	Tulsipur River Bridge	Magani Bridge	Chyatra Khola Bridge	Pampa Khola Bridge	Gaddas Bhaluwang Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Pumphla Khola	Uttarakhanda Road	Chitwan
2	Shaktikhor khola	Tandi Shaktikhor Phisling Road (Pradhanmantrijyubad bhraman Gareko VDC) Bo Batoma Parne	Chitwan
3	Budhirapti khola, Phasenighat	Ratnanagar Municipality wada no. 3 and Khairhani VDC wada no. 9 ko Bichama	Chitwan
4	Betani Bridge	Maghauri VDC Chitwan	Chitwan
5	Khairhani Bridge	Khairhani 1 and 2	Chitwan
6	Trishuli River Pakki Bridge Construction	Aadanghat	Dhading
7	Budhigandaki ko Soti Bridge	0	Dhading
8	Manpang Khola Bridge	Mulpani and Budhathum Jodne	Dhading
9	Trishuli River Motor Bridge	Benighat 1 and Salang 9 Arubastar Jodne	Dhading
10	Kaste Khola Bridge	Dhading besi Salyantar Baseri Gorkha Road, Nakbeshi (Mulpani VDC Salyantar	Dhading

													Contract No.		BB-159-DSD-071/72-26	
SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Pumppha Khola	Shaktikhor khola	Budhirapti khola, Phasenighat	Betani Bridge	Khairhani Bridge	Trishuli River Pakki Bridge Construction	Budhigandaki ko Soti Bridge	Manpang Khola Bridge	Trishuli River Motor Bridge	Kaste Khola Bridge				
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	1	10			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	3	30	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	60	0	0	0	0	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	48	48	48	48	48	384			
Subtotal of drilling works, field tests and laboratory tests																

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Department of Roads
Bridge Branch
Basantapur, Kathmandu

SN	Particulars	Unit	Quantity										Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Pumpha Khola	Shaktikhor khola	Budhirapti khola, Phasenighat	Betani Bridge	Khairhani Bridge	Trishuli River Pakki Bridge Construction	Budhigandaki ko Soti Bridge	Manpang Khola Bridge	Trishuli River Motor Bridge	Kaste Khola Bridge				
4	Transportation															
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	1	10			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of transportation																
5	Detailed design and preparation of reports															
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	1	10			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	1	10			
Subtotal of detailed design and preparation of reports																
Grand Total																

In words:

Signature:

Name and title:

Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1		0	Dhading
2	Ajuwa Khola Bridge	Chhepare Bhir (Larke Sadak)	Gorkha
3	Ludi Khola Bridge	Benighat PhujeltinamanePokharithok Road	Gorkha
4	Daraudi Nadima Bridge	0	Gorkha
5	Budhi Gandaki Bridge	Thumi and ManbuVDC Bichako	Gorkha
6	Trisuli Tiver Bridge	Phisling	Gorkha
7	Aarakhet khola Bridge	Benighat Aarughat Larke Road	Gorkha
8	Dhereni Daraudi Bridge	Dhereni Daraudi Bridge, Gorkha	Gorkha
9	Jharahi Khola Bridge	Ramgram Municipality Ramgram stupa bat dewruwa	Nawalparasi

Contract No.

BB-159-DSD-071/72-27

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
				Ajuwa Khola Bridge	Ludi Khola Bridge	Daraudi Nadima Bridge	Budhi Gandaki Bridge	Trisuli Tiver Bridge	Aarakhet khola Bridge	Dhereni Daraudi Bridge	Jharahi Khola Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		5	3	3	3	3	5	5	3	3	33	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	48	48	48	48	80	80	48	48	528			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
				Ajuwa Khola Bridge	Ludi Khola Bridge	Daraudi Nadima Bridge	Budhi Gandaki Bridge	Trisuli Tiver Bridge	Aarakhet khola Bridge	Dhereni Daraudi Bridge	Jharahi Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

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Government of Nepal
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Ulti Khola Bridge	Setapani-3 bat Abhiwan - 3 jodne	Nawalparasi
2	Naharma Bridge	Rupaulima VDC Wada no. 7	Nawalparasi
3	Nepal Ggandak Naharma Bridge constr	Rupauliya VDC Wada no.5 Mandir samune	Nawalparasi
4	Keruni Kholama Pakki Bridge	Danda and Kawasotiko Bitchama	Nawalparasi
5	Bhumahi Khola Bridge	Bhumahi Bhairahawa Bypass Jodne	Nawalparasi
6	Bhumahi Kholama Pakki Bridge	Misauliya	Nawalparasi
7	Tengri Khola Bridge	Kawasoti Municipality Wada no. 13	Nawalparasi
8	Kerunge Khola Bridge	Kawasoti 3 and 4 Jodne	Nawalparasi
9	Khorande Khola Bridge	British Camp Palpa jodne	Nawalparasi

Contract No.													BB-159-DSD-071/72-28		
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Ulti Khola Bridge	Naharma Bridge	Nepal Ggandak Naharma Bridge construction	Keruni Kholama Pakki Bridge	Bhumahi Khola Bridge	Bhumahi Kholama Pakki Bridge	Tengri Khola Bridge	Kerunge Khola Bridge	Khorande Khola Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	60	0	0	60	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	0	48	48	0	48	48	336			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Ulti Khola Bridge	Naharma Bridge	Nepal Ggandak Naharma Bridge construction	Keruni Kholama Pakki Bridge	Bhumahi Khola Bridge	Bhumahi Kholama Pakki Bridge	Tengri Khola Bridge	Kerunge Khola Bridge	Khorande Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Bharahi khola Bridge	Ramgram Stupa and Deurupa Bich	Nawalparasi
2	Bardaghat Bhutute khola Bridge	0	Nawalparasi
3	Laukaha khola ma Bridge	Purwa Paschim Lajmarg Antargat Nawalparasi Jillako Pragati Municipality	Nawalparasi
4	Kaligandaki Bridge	Devghat Gaudakot	Nawalparasi
5	Khajura Khola Bridge	Thulo Kharahaw	Nawalparasi
6	Kulin Khola Bridge	Jhimkali Marga	Tanahu
7	Jamune Khola Bridge	Tanahu Shukla Municipality	Tanahu
8	Paundi Khola bridge	Khatri thati Hadetar	Tanahu
9	Phadke Khola Bridge	Jamune VDC ko Gunadima	Tanahu

												Contract No.		BB-159-DSD-071/72-29	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Bharahi khola Bridge	Bardaghat Bhutute khola Bridge	Laukaha khola ma Bridge	Kaligandaki Bridge	Khajura Khola Bridge	Kulin Khola Bridge	Jamune Khola Bridge	Paundi Khola bridge	Phadke Khola Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	5	3	3	3	3	3	29	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	100	0	0	0	0	0	160			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	48	48	48	48	336			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Bharahi khola Bridge	Bardaghat Bhutute khola Bridge	Laukaha khola ma Bridge	Kaligandaki Bridge	Khajura Khola Bridge	Kulin Khola Bridge	Jamune Khola Bridge	Paundi Khola bridge	Phadke Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Marsyangadi River Bridge	belauti Bisauna- Lete	Lamjung
2	Paudikhola Kamedredhara Motor Bridge	Chandreshwar 8	Lamjung
3	Pyardi Khola Bridge, Belghari	Belghari Lamabagar Pachowk Jodne Sadak Antargat	Lamjung
4	Lamasoti Pist Khoal Bridge	Lamasoti	Lamjung
5	Chepe River Bridge	Kunaghat (Bhachchek)	Lamjung
6	Rawa Khola Bridge	Kharpa Dumre Sadak Bich	Lamjung
7	Marsyangadi River Bridge	Munje Bhraka	Manang
8	Bheri nadima bridge	Dandagaon Bairital	Manang
9	Nalsinghad kholama Belibriz	Kalimati Dalli Jodne	Manang

												Contract No.		BB-159-DSD-071/72-30	
SN	Particulars	Unit	Quantity								Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Marsyangadi River Bridge	Paudikhola Kamedredhara Motor Bridge	Pyardi Khola Bridge, Belghari	Lamasoti Pist Khoal Bridge	Chepe River Bridge	Rawa Khola Bridge	Marsyangadi River Bridge	Bheri nadima bridge					Nalsinghad kholama Belibriz
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		5	3	3	3	3	3	5	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	48	48	48	48	48	80	48	48	496			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Marsyangadi River Bridge	Paudikhola Kamedredhara Motor Bridge	Pyardi Khola Bridge, Belghari	Lamasoti Pist Khoal Bridge	Chepe River Bridge	Rawa Khola Bridge	Marsyangadi River Bridge	Bheri nadima bridge	Nalsinghgad kholama Belibriz				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Myardi khola Bridge	Dumre-Beshisahar Chame Road	Manang
2	Timang khola Bridge	Dumre-Beshisahar Chame Road	Manang
3	Ingariya River Bridge	Raudani	Rupandehi
4	Siyari Kholama Bridge Construction	Dayanagar VDC and kaitholiya - Dhansar - Chhapiya Bazaar	Rupandehi
5	Tinau River Bridge Construction	Bhajanwa VDC Devan Baksapur hundai Pakadi VDC ko Sano bhumari Jodne Road	Rupandehi
6	Tinau River Bridge Construction	Bhalwari Bazaar Paschim Pahuni-Betahi Pharsastakar Sadak Khandako Paschim Pauni-Betahi Ph	Rupandehi
7	Masyam Khola Bridge	Kauldanda Charachare Bridge, Tinau	Rupandehi
8	Siyari Kholama Bridge Construction	Hanaiya VDC 6 and 7 Jaggahttha-Siyaritol-Shisauni	Rupandehi
9	Tinau River Bridge Construction	Shankarnagar jogikuti-Raniganj-Motipur	Rupandehi

													Contract No.		BB-159-DSD-071/72-31	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Myardi khola Bridge	Timang khola Bridge	Ingariya River Bridge	Siyari Kholama Bridge Construction	Tinau River Bridge Construction	Tinau River Bridge Construction	Masyam Khola Bridge	Siyari Kholama Bridge Construction	Tinau River Bridge Construction					
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9				
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	4	5	3	3	3	30	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	60	0	100	0	0	0	160				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	0	64	0	48	48	48	352				
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Myardi khola Bridge	Timang khola Bridge	Ingariya River Bridge	Siyari Kholama Bridge Construction	Tinau River Bridge Construction	Tinau River Bridge Construction	Masyam Khola Bridge	Siyari Kholama Bridge Construction	Tinau River Bridge Construction				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Mainabagar and Butwal 13 Jodne Danav	0	Rupandehi
2	Daanav River Bridge	Butwal municipality 4 mainbagar-Butwal municipality 13	Rupandehi
3	Majhauilya, Purwa bridge Tilotama Mur	0	Rupandehi
4	Ravankhanda Khola Bridge	Sunauli Parasi Loktantrik Chowk Najik	Rupandehi
5	Turiya River Bridge	Rupandehi	Rupandehi
6	Bridge Construction	Masyam Koldanda Charchare Road Bridge	Palpa
7	Tinhun Khola Bridge, Amlehan	Bastari Jhadewa Khandama	Palpa
8	Tinau Bridge	Siddhababa Bypass Road Bridge	Palpa
9	Masaneghat nirdi Khola Bridge	Gaidakot Nawaparasi	Palpa

Contract No.												BB-159-DSD-071/72-32			
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mainabagar and Butwal 13 Jodne Danav Nadima bridge	Daanav River Bridge	Majhauilya, Purwa bridge Tilotama Municipality	Ravankhanda Khola Bridge	Turiya River Bridge	Bridge Construction	Tinhun Khola Bridge, Amlehan	Tinau Bridge	Masaneghat nirdi Khola Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	9				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	9				
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the bridge is found to be unfeasible then the contract will be terminated at this stage and payment shall be made only up to the subtotal above													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	27	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	60	0	0	0	0	120				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	0	48	0	48	48	48	48	336				
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mainabagar and Butwal 13 Jodhe Danav Nadima bridge	Daanav River Bridge	Majhauilya, Purwa bridge Tilottama Municipality	Ravankhanda Khola Bridge	Turiya River Bridge	Bridge Construction	Tinhun Khola Bridge, Amlehan	Tinau Bridge	Masaneghat nidi Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Miteri Bridge Ghimiredanda Motor Bridge	Madanpokhara 6 and 7 Jodne	Palpa
2	Pakki Bridge	Argali wada no. 6 dekhi syangjako chandi bhanjyang jodne	Palpa
3	Tinau khola Bridge	pokharathok - Kaseni Jodne Raod	Palpa
4	Gaurighatma Pakki Bridge	Kaligandaki Gaurighatma	Palpa
5	Ridikhola Bridge	Palpa jillako Sadarmukam Tansen hundai Palpakai siddheswar jane bato	Palpa
6	Tansene khola	Damakada Uchcha Ma. Vi. Jane batoma	Palpa
7	Chuhade khola	Damakada Uchcha Ma. Vi. Jane batoma	Palpa
8	Krishnagandaki Bridge	Beltari Yamgha Jodne	Syangja
9	Wastara Khola Rauseghat Bridge	0	Syangja

Contract No.												BB-159-DSD-071/72-33			
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Miteri Bridge Ghimiredanda Motor Bridge	Pakki Bridge	Tinau khola Bridge	Gaurighatma Pakki Bridge	Ridikhola Bridge	Tansene khola	Chuhade khola	Krishnagandak i Bridge	Wastara Khola Rauseghat Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	5	5	4	3	3	3	3	32	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	80	80	64	48	48	48	48	512			
Subtotal of drilling works, field tests and laboratory tests															

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Bridge Branch
Basantapur, Kathmandu

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Miteri Bridge Ghimiredanda Motor Bridge	Pakki Bridge	Tinau khola Bridge	Gaurighatma Pakki Bridge	Ridikhola Bridge	Tansene khola	Chuhade khola	Krishnagandaki Bridge	Wastara Khola Rauseghat Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Dhaduwa Thuladihi Bridge	0	Syangja
2	Jajarkote Dhungaghat Pakki Motorable Bridge	Sankhe-Saldanda-Biruwa Gramin Sadak	Syangja
3	Durpuk Kaligandaki Bridge	Tansen bat Uttar Jane	Syangja
4	Campus Najik Bridge	Campus Road Putali Bazzar 1 and 9 bich	Syangja
5	Keure Khola bridge	Helu Ghante Deurali	Syangja
6	Kaligandaki River Bridge (Syangja/Palpa)	Asardighat BridgeHungagi	Syangja
7	Aandhi Khola Bridge	Rang Khola - Kulbandh Jane	Syangja
8	Ritthe Khola Bridge	Sibalaya-Khurkot	Parbat
9	Saraukhola Chhatiseghat Motorable Bridge	Lunkhu Balkot Sitle SadhneSaraukhola Hulas Sadak	Parbat

												Contract No.	BB-159-DSD-071/72-34		
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Dhaduwa Thuladihi Bridge	Jajarkote Dhungaghat Pakki Motorable Bridge	Durpuk Kaligandaki Bridge	Campus Najik Bridge	Keure Khola bridge	Kaligandaki River Bridge (Syangja/Palpa)	Aandhi Khola Bridge	Ritthe Khola Bridge	Saraukhola Chhatiseghat Motorable Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the bridge is found to be unfeasible then the contract will be terminated at this stage and payment shall be made only up to the subtotal above													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	5	3	3	3	29	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	80	48	48	48	464			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Dhaduwa Thuladihi Bridge	Jajarkote Dhungaghat Pakki Mtorable Bridge	Durpuk Kaligandaki Bridge	Campus Najik Bridge	Keure Khola bridge	Kaligandaki River Bridge (Syangja/Palpa)	Aandhi Khola Bridge	Ritthe Khola Bridge	Saraukhola Chhatiseghat Motorable Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

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Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Galchhina motorable Bridge	Huwas 2,23 Hatemalo Chowk and Dharampani gurdhumgadhi Bichako Sadakama	Parbat
2	Seti khola motor Bridge	huwas 2 and 3 VDC Hatemalo Chowk	Parbat
3	Pati Khola Motor Bridge	deurali 6 Ghurungsera and bajung 3 Jyamire	Parbat
4	Seti River Bridge	Machhapuchhre and Sardi Khola Jodne (Kharpani Tatopani)	Kaski
5	Seti Nadima Bridge	Bharat Pokhari VDC ko Tallo Kshetra and Prithvi Rajmarga Antargat Tanahun Kaski ko Sangam S	Kaski
6	Bamdi Harpan Khola motorable Pakki B	Pokhara Pame SadakakoLauruk dekhi Chapakot VDC	Kaski
7	Seti River Chorsangu Bridge	Pokhara Sub Metropolitan city 15 sthit Seti river Purwa Ram Bazzar and Paschim wada no. 7 Bus	Kaski
8	Phewa Bandh Talko Jholunge Bridge Bha	Pokhara Sub Metropolitan city 17 Antargat Dyamsite Hundai Dhorpatan Jane Sadakma	Kaski
9	Harpan Khola Bridge	Chanpakot	Kaski

Contract No.

BB-159-DSD-071/72-35

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Galchhina motorable Bridge	Seti khola motor Bridge	Pati Khola Motor Bridge	Seti River Bridge	Seti Nadima Bridge	Bamdi Harpan Khola motorable Pakki Bridge	Seti River Chorsangu Bridge	Phewa Bandh Talko Jholunge Bridge Bhaeko Sthanma	Harpan Khola Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	5	3	5	5	5	5	3	3	37	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	80	48	80	80	80	80	48	48	592			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Galchhina motorable Bridge	Seti khola motor Bridge	Pati Khola Motor Bridge	Seti River Bridge	Seti Nadima Bridge	Bamdi Harpan Khola motorable Pakki Bridge	Seti River Chorsangu Bridge	Phewa Bandh Talko Jholunge Bridge Bhaeko Sihanma	Harpan Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

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Signature:

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Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Chisapani Motor Bridge	Pumdibhumdi VDC	Kaski
2	Bijaypur Khola Bridge	0	Kaski
3	Baniyapath - Yamdi Seti Nadi Bridge	Pokhara -16, Lamachaur	Kaski
4	Koila River bridge	0	Kapilvastu
5	Hariharpur Paschim Jane Batoma Motor	0	Kapilvastu
6	Kanchaniya River bridge	Narayan Dihawa Gagauda Jitpurko bhalbari Byapar kendta jodne Sadakma ParneGagauda Jipurko	Kapilvastu
7	Banganadadima Bridge	Dawada dekhi kothi sadak Hardauna 3	Kapilvastu
8	Setuwa Kholama Pakki Bridge	Hardauna VDC antargat Parne Hardauna and Alagi Mujehanako Bichama	Kapilvastu
9	Nalama bridge	Patanagaonko Kathauna	Kapilvastu

Contract No.

BB-159-DSD-071/72-36

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Chisapani Motor Bridge	Bijaypur Khola Bridge	Baniyapath - Yamdi Seti Nadi Bridge	Koila River bridge	Hariharpur Paschim Jane Batoma Motor Bridge	Kanchaniya River bridge	Bangananadima Bridge	Setuwa Kholama Pakki Bridge	Nalama bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	60	0	0	0	60			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	0	48	48	48	384			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Chisapani Motor Bridge	Bijaypur Khola Bridge	Baniyapath - Yamdi Seti Nadi Bridge	Koila River bridge	Hariharpur Paschim Jane Batoma Motor Bridge	Kanchaniya River bridge	Bangananadi ma Bridge	Setuwa Kholama Pakki Bridge	Nalama bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Dhorahi Nalama Bridge	Enpur VDC Daakhasawa purwa	Kapilvastu
2	Sit khola Pakki Bridge	Jaluke VDC wada no. 3, Damor besi	Arghakhanchi
3	Darlamghat Bridge	Pali-Dundruk Jodne	Arghakhanchi
4	Sayal Khola Bridge	0	Arghakhanchi
5	Belaha (Jarekhola) Motorable Bridge	0	Arghakhanchi
6	Karkitol Bridge	Bangi Khola Bridge	Arghakhanchi
7	Jaari Khola Bridge	Thada Jukena Road	Arghakhanchi
8	Palukha motor Bridge	Hastichaur 8, Panah, Gulmi	Gulmi
9	Panaha Khola Motor Birdge	Simalpata Syalma Jodne	Gulmi

												Contract No.		BB-159-DSD-071/72-37	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Dhorahi Nalama Bridge	Sit khola Pakki Bridge	Darlamghat Bridge	Sayal Khola Bridge	Belaha (Jarekhola) Motorable Bridge	Karkitol Bridge	Jaari Khola Bridge	Palukha motor Bridge	Panaha Khola Motor Birdge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	0	0	0	0	0	0	0	60			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	48	48	48	48	48	48	48	384			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Dhorahi Nalama Bridge	Sit khola Pakki Bridge	Darlamghat Bridge	Sayal Khola Bridge	Belaha (Jarekhola) Motorable Bridge	Karkitol Bridge	Jaari Khola Bridge	Palukha motor Bridge	Panaha Khola Motor Birdge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Kaligandaki bridge	Purtighat	Gulmi
2	Panaha Khola Birdge	Jumlichaur-Aadchaur-Sirseni	Gulmi
3	Panaha Khola Bridge, Nadi	Hadahade-Rajasthal dhurkot	Gulmi
4	Banjhghat Bridge	Arthale Gulmi	Gulmi
5	Chhaldi khola bridge	Simalchaur, Dhambu	Gulmi
6	Ridi Khoa Pakki Bridge	Gulmi Chhetra no. 2 Sthit Digam and Palpa Siddheswar VDC (Chhetra no. 3 Palpa) Jodne	Gulmi
7	Lamabagarghat Kathe Khola bridge	0	Baglung
8	Bridge	Hatiya bat Harichaur Road	Baglung
9	Bridge	Kusma Bazzar Chakledil Bazzar	Baglung

												Contract No.		BB-159-DSD-071/72-38	
SN	Particulars	Unit	Quantity								Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Kaligandaki bridge	Panaha Khola Birdge	Panaha Khola Bridge, Nadi	Banjhghat Bridge	Chhaldi khola bridge	Ridi Khoa Pakki Bridge	Lamabagarghat Kathe Khola bridge	Bridge					Bridge
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		5	3	3	3	3	4	3	3	3	30	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	48	48	48	48	64	48	48	48	480			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity								Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Kaligandaki bridge	Panaha Khola Birdge	Panaha Khola Bridge, Nadi	Banjghat Bridge	Chhaldi khola bridge	Ridi Khoa Pakki Bridge	Lamabagarghat Kathe Khola bridge	Bridge					Bridge
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Badigad Bridge	Burtibang-Dhorpatan Raod	Baglung
2	Daram Khola Bridge	Harichaur VDC 9 and 5	Baglung
3	Gaudi Khola Bridge	Hatiya Bazzar	Baglung
4	Budhikuloma Sadak Bridge	Patabhar 6 and 7 Bich Ringroadko	Baglung
5	Ghaar Khola Motor Bridge	0	Myagdi
6	Babiyavhaur Motor bridge	0	Myagdi
7	Motorable bridge	Myagadi-Singha	Myagdi
8	Myagadima motorable Bridge	Bhim VDC Bharbangbat Takam Dharapani Jodne	Myagdi
9	Kaligandaki Bridge	Kagabeni-Ekalbatti-Phangling Phalek Ghaksung and Dolpa Jilla	Mustang

													Contract No.		BB-159-DSD-071/72-39	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Badigad Bridge	Daram Khola Bridge	Gaudi Khola Bridge	Budhikuloma Sadak Bridge	Ghaar Khola Motor Bridge	Babiyavhaur Motor bridge	Motorable bridge	Myagadima motorable Bridge	Kaligandaki Bridge					
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9				
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		4	3	3	3	3	3	3	3	3	28	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	64	48	48	48	48	48	48	48	48	448				
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Badigad Bridge	Daram Khola Bridge	Gaudi Khola Bridge	Budhikuloma Sadak Bridge	Ghaar Khola Motor Bridge	Babiyavhaur Motor bridge	Motorable bridge	Myagadima motorable Bridge	Kaligandaki Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Charang Kholama Motor Bridge	Charang VDC (Kaligandaki Uttar Dakshin Lokmargama Pame	Mustang
2	Kunjyochho-Lete Bridge	0	Mustang
3	Kaligandaki Motor Bridge	Letebat Chhyog Kunjo VDC	Mustang
4	Babai River Bridge	Ghorahi Municipality Saudiyar Dharna	Dang
5	Baulaha Khola Bridge	Dang Kobang Mathauri	Dang
6	Patu Khola Bridge	Sukaura Sukadeva	Dang
7	Rapti River Jaharema Pakki Bridge	Satawariya VDC - Rajapur Jodne Sadak	Dang
8	Ramghat Bridge Construction	Dharna Lakhwar to Dharna	Dang
9	Karung Khola Bridge	Phohora and Basanpur Jodne	Dang

Contract No.

BB-159-DSD-071/72-40

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Charang Kholama Motor Bridge	Kunjyochho-Lete Bridge	Kaligandaki Motor Bridge	Babai River Bridge	Baulaha Khola Bridge	Patu Khola Bridge	Rapti River Jaharema Pakki Bridge	Ramghat Bridge Construction	Karung Khola Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	5	5	3	3	4	3	3	32	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	80	0	0	80			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	80	80	48	48	0	48	48	448			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Charang Kholama Motor Bridge	Kunjyochho-Lete Bridge	Kaligandaki Motor Bridge	Babai River Bridge	Baulaha Khola Bridge	Patu Khola Bridge	Rapti River Jaharema Pakki Bridge	Ramghat Bridge Construction	Karung Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Rapti River Bridge	Sisahaniya-2 and Govardiya-5 Jodne	Dang
2	Sangram Khola Bridge	Lamahi-Ghorahi Tulsipur Road	Dang
3	Babai River Pakki Bridge Construction	Lohad Bara Dawadpur Jodne Road	Dang
4	Baula Khola ma Pakki Bridge	Korbang and Matheuri Bichama	Dang
5	Tallo Patu Khola ma Pakki Bridge	Tulsipur- Baibang hundai Paschim Dang Jodne Road	Dang
6	Sikarahawa Pakki Bridge	Gadawa 1,2 Aantipakar Jodne	Dang
7	Gwaar khola Bridge	0	Dang
8	Puran Dhara Tyang Khola Bridge	0	Dang
9	Basgadhi jane Patre Khola motor Bridge	0	Dang

Contract No.

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SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rapti River Bridge	Sangram Khola Bridge	Babai River Pakki Bridge Construction	Baula Khola ma Pakki Bridge	Tallo Patu Khola ma Pakki Bridge	Sikarahawa Pakki Bridge	Gwaar khola Bridge	Puran Dhara Tyang Khola Bridge	Basgadhi jane Patre Khola motor Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		4	3	4	3	3	3	3	3	3	29	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	80	0	0	0	60	0	60	0	0	200			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	64	48	0	48	0	48	48	304			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Rapti River Bridge	Sangram Khola Bridge	Babai River Pakki Bridge Construction	Baula Khola ma Pakki Bridge	Tallo Patu Khola ma Pakki Bridge	Sikarahawa Pakki Bridge	Gwaar khola Bridge	Puran Dhara Tyang Khola Bridge	Basgadhi jane Patre Khola motor Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Babai River Bridge	Chaupariya dekhi matera Jodne	Dang
2	Baaling khola Bridge	0	Dang
3	Shiviya Khola Bridge	Waruwa gaon	Dang
4	Pakki Bridge	Dharan VDC wada no. 2 Ramghat-Lakhuwa Jodne	Dang
5	Bagale Bridge	Ghorahi Municipalitya wada no. 6 and 7	Dang
6	Chiregar Bridge	Damoder Sadak, Ekle Thapagaon	Dang
7	Thulabesi - Puja Pakki Bridge	Thulabesi-Puja	Pyuthan
8	Jhimruk Kholama Bridge	Dhad Tusara	Pyuthan
9	Lung Khola Bridge	Lungko Lakhachaur	Pyuthan

Contract No.

BB-159-DSD-071/72-42

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Babai River Bridge	Baaling khola Bridge	Shiviya Khola Bridge	Pakki Bridge	Bagale Bridge	Chiregar Bridge	Thulabesi - Puja Pakki Bridge	Jhimruk Kholama Bridge	Lung Khola Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		5	3	5	3	3	3	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	60	0	0	60	0	0	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	0	80	48	0	48	48	48	48	400			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Babai River Bridge	Baaling khola Bridge	Shiviya Khola Bridge	Pakki Bridge	Bagale Bridge	Chiregar Bridge	Thulabesi - Puja Pakki Bridge	Jhimruk Kholama Bridge	Lung Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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BILL OF QUANTITIES**Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):**

S. N.	Name of Bridge	Name of Road	District
1	Jhimruk Khola Bridge	Khaira-Dakha Kwadi Road	Pyuthan
2	Jhimrukh Kholama Bridge	Kairan Sarangbesi	Pyuthan
3	Khalanga Jhakrithan Pakki Bridge	Khalanga Jhakrithan	Pyuthan
4	Jhimruk Nadi Bridge	Juda Durwang, Jhimruk Nadi Bridge	Pyuthan
5	Sare Khurmi Mandavi Pakki Bridge	0	Pyuthan
6	Dhuwang -Kairan Sarangbesi Bridge	0	Pyuthan
7	Jhimruk River Bridge	Dakhakwadi-Khaira Jodne	Pyuthan
8	Suna Khola Pakki Bridge	Durbang Erawati Sun khola Pakki Bridge	Pyuthan
9	Lungdobhai-Tusara Kit Pakki Bridge	0	Pyuthan

Contract No.**BB-159-DSD-071/72-43**

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jhimruk Khola Bridge	Jhimrukh Kholama Bridge	Khalanga Jhakrithan Pakki Bridge	Jhimruk Nadi Bridge	Sare Khurmi Mandavi Pakki Bridge	Dhuwang - Kairan Sarangbesi Bridge	Jhimruk River Bridge	Suna Khola Pakki Bridge	Lungdobhai-Tusara Kit Pakki Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		4	4	3	4	3	3	4	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	64	64	48	64	48	48	64	48	48	496			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jhimruk Khola Bridge	Jhimrukh Kholama Bridge	Khalanga Jhakrithan Pakki Bridge	Jhimruk Nadi Brideg	Sare Khurmi Mandavi Pakki Bridge	Dhuwang - Kairan Sarangbesi Bridge	Jhimruk River Bridge	Suna Khola Pakki Bridge	Lungdobhai-Tusara Kit Pakki Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Lungri Khola Bridge	Sulichaur Pyuthan Jodne	Rolpa
2	Phagam Khola Motorable Bridge	Sulichaur-Phagam-Phagam, Sulichaur-Gajul Kabhra Road	Rolpa
3	Jutung Khola Pakki Bridge	Sulichaur-Tewang Jodne	Rolpa
4	Baphu Khola Motorable Bridge	Dahawan-Nigalpani-jinawang-Pakhapani-Jhulneta SadakkoSimtekharka Bhanne Thaumma	Rolpa
5	Jinawang Khola Bridge	Kapurkot Jinawang Rukum Jodne	Rolpa
6	Jugaar-Joulakhola Bridge	0	Rolpa
7	Magar Khola Bridge	CH-145+350, Shahid Marg Sadak Yojana, Rolpa	Rolpa
8	Mangra Khola Bridge	CH-143+940, Shahid Marg Sadak Yojana, Rolpa	Rolpa
9	Jurwang Khola Bridge	CH-134+500, Shahid Marg Sadak Yojana, Rolpa	Rolpa

Contract No.

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SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Lungri Khola Bridge	Phagam Khola Motorable Bridge	Jutung Khola Pakki Bridge	Baphu Khola Motorable Bridge	Jinawang Khola Bridge	Jugaar-Joulakhola Bridge	Magar Khola Bridge	Mangra Khola Bridge	Jurwang Khola Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	432			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Lungri Khola Bridge	Phagam Khola Motorable Bridge	Jutung Khola Pakki Bridge	Baphu Khola Motorable Bridge	Jinawang Khola Bridge	Jugaar-Joulakhola Bridge	Magar Khola Bridge	Mangra Khola Bridge	Jurwang Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Thawang Khola Bridge	CH-134+000, Shahid Marg Sadak Yojana, Rolpa	Rolpa
2	Jhelmeta Khola Bridge	CH-129+000, Shahid Marg Sadak Yojana, Rolpa	Rolpa
3	Lukum Khola Bridge	Shahid Marga and Madhya Pahadi Sadak ko Junction Lukum Khola Bridge	Rolpa
4	Tarwara Road Bridge	Sano Bheri- Amlachaur Tarwara Road	Rukum
5	Puma Khola Bridge	Pipal Road	Rukum
6	Syarpur khola	Banphikot	Rukum
7	Sisneghat Dobhan	0	Rukum
8	Sani Bheri Garaghat Bridge	Sani bheri Garaghat Bridge, Rukum	Rukum
9	Gaghahawa Nala Bridge	Sonpur Londra Jane	Banke

Contract No.													BB-159-DSD-071/72-45		
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Thawang Khola Bridge	Jhelmeta Khola Bridge	Lukum Khola Bridge	Tarwara Road Bridge	Puma Khola Bridge	Syarpu khola	Sisneghat Dobhan	Sani Bheri Garaghat Bridge	Gaghahawa Nala Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	432			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Thawang Khola Bridge	Jhelmeta Khola Bridge	Lukum Khola Bridge	Tarwara Road Bridge	Puma Khola Bridge	Syarpu khola	Sisneghat Dobhan	Sani Bheri Garaghat Bridge	Gaghahawa Nala Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

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Signature:

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Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Londre jane Bridge	Sonpur 9 Dekhi Tetariya 8 Jodne	Banke
2	Abalghat Bridge	Bageshwari 1 Dhailagiri	Banke
3	Bukaanala Bridge	Chisapaniko Kareli	Banke
4	Dudhuwa Nalama Bridge	Kohalpur 10 ma Ektanagar and Simari Jodne Bridge	Banke
5	Jethi Nala Bridge	Bankatawa 4 Syauli Bazzar and Bankhet Jodne	Banke
6	Kiran nala Bridge	0	Banke
7	Kiran Khola Bridge	Radhapur and saigaon Shivpuri Gaonko Bichhama	Banke
8	Sarda Kholama Bridge	Dandagaon VDC Sadak ma Parne	Salyan
9	Babai Bridge	Damdabaji Damar, Salyan	Salyan

Contract No.												BB-159-DSD-071/72-46		
SN	Particulars	Unit	Quantity								Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Londre jane Bridge	Abalghat Bridge	Bukaanala Bridge	Dudhuwa Nalama Bridge	Jethi Nala Bridge	Kiran nala Bridge	Kiran Khola Bridge	Sarda Kholama Bridge				
Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9		
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9		
Subtotal of desk study & field works														
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.												
3 Soil investigation														
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	60	0	0	60	0	0	0	180		
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	0	48	48	0	48	48	48	288		
Subtotal of drilling works, field tests and laboratory tests														

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Londre jane Bridge	Abalghat Bridge	Bukaanala Bridge	Dudhuwa Nalama Bridge	Jethi Nala Bridge	Kiran nala Bridge	Kiran Khola Bridge	Sarda Kholama Bridge	Babai Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

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Government of Nepal
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BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Ghuiyabari Bridge	Phaprechaur	Salyan
2	Sharda Nadima Bridge	Shankhamul Jhippe sarkhuwa Road	Salyan
3	Ritta khola Bridge	0	Salyan
4	Damduwaali Bridge	Kalche	Salyan
5	Jabai River Bridge	Salyan Kaprechaur Ghuiyabari	Salyan
6	Sharda Nadima Bridge	Kalakhet (Rapti Rajmarg ko link Road)	Salyan
7	Dashera Bridge	Manghat	Jajarkot
8	Bheri Nadima Bridge	Dandagaon Bairital	Jajarkot
9	Nalsinghad Kholama Belly Bridge	Kalimati Dalli Jodne	Jajarkot

Nalsinghad Kholama Belly Bridge												Contract No.		BB-159-DSD-071/72-47		
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)	
			Ghuiyabari Bridge	Sharda Nadima Bridge	Ritta khola Bridge	Damduwaali Bridge	Jabai River Bridge	Sharda Nadima Bridge	Dashera Bridge	Bheri Nadima Bridge	Nalsinghad Kholama Belly Bridge					
Desk study and field works																
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9				
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9				
Subtotal of desk study & field works																
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.														
3 Soil investigation																
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR																
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0				
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	432				
Subtotal of drilling works, field tests and laboratory tests																

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Ghuiyabari Bridge	Sharda Nadima Bridge	Ritta khola Bridge	Damduwaali Bridge	Jabai River Bridge	Sharda Nadima Bridge	Dashera Bridge	Bheri Nadima Bridge	Nalsinghad Kholama Belly Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Mugu Karnali	Rara and Jimma Jodne	Mugu
2	Gothi Khola Bridge	Kalakanda Paryatanmarga Bichama Parne	Mugu
3	Mahaasaanghaama Pakki Bridge	Pandav Gupha 8, Jumla	Jumla
4	Gairagaon and pipal gaon Jodne Bridge	0	Jumla
5	Pathar Sanghu truss Bridge	Tamdi 5 Baragaon Jumla	Jumla
6	Tila River motorable Bridge	Raralihi	Jumla
7	Wadki Jogiwadahandi Motorable Bridge	Wadki Jogiwada Handi	Jumla
8	Kudari VDC Triveni bat Tamti VDC Jaja	Kudari VDC Triveni bat Tamti VDC Jajarkot Jodne Pakki motor Bridge	Jumla
9	Chainpur Bridge	Manau VDC and Manang VDC Jodne	Bardiya

Contract No.

BB-159-DSD-071/72-48

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mugu Karnali	Gothi Khola Bridge	Mahaasaanghaama Pakki Bridge	Gairagaon and pipal gaon Jodne Bridge	Pathar Sanghu truss Bridge	Tila River motorable Bridge	Wadki Jogiwadahandi Motorable Bridge	Kudari VDC Triveni bat Tamti VDC Jajarkot Jodne	Chainpur Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	3	3	3	3	5	3	3	3	29	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	80	48	48	48	464			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mugu Karnali	Gothi Khola Bridge	Mahaasaangha ama Pakki Bridge	Gairagaon and pipal gaon Jodne Bridge	Pathar Sanghu truss Bridge	Tila River motorable Bridge	Wadki Jogiwadahandi Motorable Bridge	Kudari VDC Triveni bat Tamti VDC Jajarkot Jodne Bakti Motorable Bridge	Chainpur Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:
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Date:
Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Sorai ma Bridge	Naya Gaon VDC and Naya Gaon VDC Jodne	Bardiya
2	Budhi nadima Bridge	Baniyabhar VDC wada no. 8 Hasnapu and Banahuwa Jodne	Bardiya
3	Kanjarwa Nala Bridge	Bhramhapur 8 and 9 Jodne	Bardiya
4	Daduwa Nala Bridge	Dhadbar VDC 5 and 8 ma Parne	Bardiya
5	Kanjakha Nalama Bridge	Bhaisahi Mahmokpur VDC	Bardiya
6	Judpani Kholama Bridge	Wada no. 8 and 9 Jodne Budhbare VDC	Bardiya
7	Rid khola bridge	Bansgadhi and Bahuwa Jodne	Bardiya
8	Jharniya Nala Bridge	0	Bardiya
9	Chapala Nala Bridge	Motipur 7 Damauli Dekhi Mainpokhar Bichko	Bardiya

Contract No.

BB-159-DSD-071/72-49

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sorai ma Bridge	Budhi nadima Bridge	Kanjarwa Nala Bridge	Daduwa Nala Bridge	Kanjakha Nalama Bridge	Judpani Kholama Bridge	Rid khola bridge	Jharniya Nala Bridge	Chapala Nala Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	432			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Sorai ma Bridge	Budhi nadima Bridge	Kanjarwa Nala Bridge	Daduwa Nala Bridge	Kanjakha Nalama Bridge	Judpani Kholama Bridge	Rid khola bridge	Jharniya Nala Bridge	Chapala Nala Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Budhikuloma Road Bridge	Patabhar 6 and 7 Bich Ringroadko	Bardiya
2	Murli Khola Bridge	0	Surkhet
3	Karnali River Bridge	Kachali Kuyane Kailali Jodne	Surkhet
4	Pakki Bridge Construction	Relig - Raku	Kalikot
5	Pakki Bridge Construction	Molpha - Mugraha	Kalikot
6	Tila River Bridge	Mahabua Odanuk Padamghat Hundai Serabada Chauki Jodne	Kalikot
7	Bhaisegauda - Chilkhaya Road Bridge	Bhaisegauda - Chilkhaya	Kalikot
8	Kali Khola, Karnali Bridge	0	Kalikot
9	Kodabada - Lalu Rahagaon Bridge	0	Kalikot

													Contract No.	BB-159-DSD-071/72-50	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Budhikuloma Road Bridge	Murli Khola Bridge	Karnali River Bridge	Pakki Bridge Construction	Pakki Bridge Construction	Tila River Bridge	Bhaisegauda - Chilkhaya Road Bridge	Kali Khola, Karnali Bridge	Kodabada - Lalu Rahagaon Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	5	3	3	5	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	80	48	48	80	48	48	48	496			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Budhikuloma Road Bridge	Murli Khola Bridge	Karnali River Bridge	Pakki Bridge Construction	Pakki Bridge Construction	Tila River Bridge	Bhaiseгада - Chilkhaya Road Bridge	Kali Khola, Karnali Bridge	Kodabada - Lalu Rahagaon Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Jemari Kholama Bridge	Tartang and Simada Jodne Narayan Municipality 8	Dailekh
2	Lohare Khola Bridge	Bindhiyabasini	Dailekh
3	Ramgaad River Bridge	Chamunda - Lakandra Jodne	Dailekh
4	Chhaamghat River Bridge	Chupra-Kalbhairab Road	Dailekh
5	Chhamghat Bridge	Chupra-Kalakh-satbiruwa-Dullu	Dailekh
6	Kataini Nadima Bridge Construction	Masuriya and Udasipur Jodne	Kailali
7	Bhursha Nalama Sano Bridge	Manuwa wadano. 5	Kailali
8	Dhaila River bridge	Joshipur VDC wada no. 7 Badhariya and Bauniya VDC ko wada no. 1 Kainapokhari bichama	Kailali
9	Baadi Ghatko Pakki Bridge Construction	Tikapur Bhajani Sadak Khandama	Kailali

Contract No.

BB-159-DSD-071/72-51

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jemari Kholama Bridge	Lohare Khola Bridge	Ramgaad River Bridge	Chhaamghat River Bridge	Chhamghat Bridge	Kataini Nadima Bridge Construction	Bhursha Nalama Sano Bridge	Dhaila River bridge	Baadi Ghatko Pakki Bridge Construction				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	60	0	0	60			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	0	48	48	384			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Jemari Kholama Bridge	Lohare Khola Bridge	Ramgaad River Bridge	Chhaamghat River Bridge	Chhamghat Bridge	Kataini Nadima Bridge Construction	Bhursha Nalama Sano Bridge	Dhaila River bridge	Baadi Ghatko Pakki Bridge Construction				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:



Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Kataini Nadima Bridge	Pawera VDC ko Sadakpur and Hasuliya VDC Harinagarko Bichma	Kailali
2	Kandra River Bridge	Khailaad VDC	Kailali
3	Pakki Bridge Construction	Gadariya 3 BanakattarKharantiko Bichma	Kailali
4	Jamara River bridge	Khairiphanta Chauraha Patharaiya 8	Kailali
5	Baajhanpur bat Baliya 3 Choripur Jodne	Chuha VDC	Kailali
6	Baliya Chauri and Rajipur Jodne Bridge	0	Kailali
7	Sadakako Bridge Cnstruction	Sahapur B.P. Nagar	Kailali
8	likma Katauni Surminala pakki Bridge	Masuriya VDC Wada no. 4	Kailali
9	Bijuliya Bridge	Durgauli 1 dekhi gulauri Jane Road	Kailali

												Contract No.		BB-159-DSD-071/72-52	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Kataini Nadima Bridge	Kandra River Bridge	Pakki Bridge Construction	Jamara River bridge	Baajhanpur bat Baliya 3 Choripur Jodne bridge	Baliya Chauri and Rajipur Jodne Bridge	Sadakako Bridge Cnstruction	likma Katauni Surminala pakki Bridge	Bijuliya Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	48	48	48	48	48	48	48	48	432			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Kataini Nadima Bridge	Kandra River Bridge	Pakki Bridge Construction	Jamara River bridge	Baajhanpur bat Baliya 3 Choripur Jodne bridge	Baliya Chauri and Rajipur Jodne Bridge	Sadakako Bridge Cnstruction	likma Katauni Surminala pakki Bridge	Bijuliya Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Bhurssa River bridge	Tikapur municipality dekhi manawa VDC Jane Road	Kailali
2	Likma River bridge	Masuriya-Hasuliya Road	Kailali
3	Tengna River Bridge	Sitalpur-Simali Pandaun Road	Kailali
4	Shivaganga Nadi Bridge	Dhanagadhi-Behedababa Sadak, Pathri (Purwa)	Kailali
5	Khutiya Nadi Bridge	Dhanagadhi-Behedababa Sadak, Urma VDC Pathri Gaon (Paschim)	Kailali
6	Khaigaon Badhakhet Bridge	0	Doti
7	Sera gad Bridge	Mannakapadi 3	Doti
8	Bulde khola Bridge	Ramarosan VDC and Batulosen VDC Achhamko Bichama	Achham
9	Setibini Motor Bridge	Achham-Doti Jodne	Achham

												Contract No.		BB-159-DSD-071/72-53	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Bhurssa River bridge	Likma River bridge	Tengna River Bridge	Shivaganga Nadi Bridge	Khutiya Nadi Bridge	Khaigaon Badhakhet Bridge	Sera gad Bridge	Bulde khola Bridge	Setibini Motor Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	5	3	3	3	3	3	29	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	60	0	0	0	0	0	0	120			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	0	80	48	48	48	48	48	368			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Bhurssa River bridge	Likma River bridge	Tengna River Bridge	Shivaganga Nadi Bridge	Khutiya Nadi Bridge	Khaigaon Badhakhet Bridge	Sera gad Bridge	Bulde khola Bridge	Setibini Motor Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

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Signature:

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Government of Nepal
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Khansanghu Road Bridge, Kolti	Kolti, Bajura	Bajura
2	Buddhiganga Maurima Bridge	0	Bajura
3	Martadi Gadharkhe Bridge	0	Bajura
4	Gadkhet ko Bridge	Jugada VDC ko Bhanaura dekhi Manakot, Dahakot VDC Jodne Sadak ma Parne Gadkhet ko bridge	Bajura
5	Khadi Gad ko Bridge	Jugada VDC ko Bhanaura dekhi Manakot, Dahakot VDC Jodne Sadak ma Parne Khadi Gad ko Bridge	Bajura
6	Seti River Bridge	Royal - Utkadi Pades	Bajhang
7	Palti kholama Bridge	Byasi VDC Wada no. 3 ma	Bajhang
8	Simadigad Khola Bridge	Patadeval 1	Bajhang
9	Seti River motor Bridge	Bhandebagar Listada	Bajhang

Contract No.

BB-159-DSD-071/72-54

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Khansanghu Road Bridge, Kolti	Buddhiganga Maurima Bridge	Martadi Gadharkhe Bridge	Gadkhet ko Bridge	Khadi Gad ko Bridge	Seti River Bridge	Palti kholama Bridge	Simadigad Khola Bridge	Seti River motor Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1	Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR														
	Number of boreholes		3	5	3	3	3	5	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	48	80	48	48	48	80	48	48	48	496			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Khansanghu Road Bridge, Kolti	Buddhiganga Maurima Bridge	Martadi Gadharkhe Bridge	Gadkhet ko Bridge	Khadi Gad ko Bridge	Seti River Bridge	Palti kholama Bridge	Simadigad Khola Bridge	Seti River motor Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Setai River Bridge	Bajhang	Bajhang
2	Seti Nadi ko Tamail ma Pakki Bridge	0	Bajhang
3	Syali Khola Truss Bridge	Humla	Humla
4	Salli khola Bridge	Hilsa simikot Road	Humla
5	Tagru khola bridge	Hilsa simikot Road	Humla
6	Hepka Khola Bridge	Hilsa simikot Road	Humla
7	Jadepani Khola Bridge	Daiji 6	Kanchanpur
8	Basanthala Bridge, Patharaiya River	Daiji VDC 1 and 6 Jodne	Kanchanpur
9	Mahakali Nadima Pakki Bridge	Nepal Bharat Jodne Chaplinma Pakki Bridge	Kanchanpur

Contract No.

BB-159-DSD-071/72-55

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Setai River Bridge	Seti Nadi ko Tamail ma Pakki Bridge	Syali Khola Truss Bridge	Salli khola Bridge	Tagru khola bridge	Hepka Khola Bridge	Jadepani Khola Bridge	Basanthala Bridge, Patharaiya River	Mahakali Nadima Pakki Bridge				
	Desk study and field works														
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3	Soil investigation														
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		5	5	3	3	3	3	3	3	3	31	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	0	0	0	0	0	0	0	0	0	0			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	80	80	48	48	48	48	48	48	48	496			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Setai River Bridge	Seti Nadi ko Tamail ma Pakki Bridge	Syali Khola Truss Bridge	Salli khola Bridge	Tagru khola bridge	Hepka Khola Bridge	Jadepani Khola Bridge	Basanthala Bridge, Patharaiya River	Mahakali Nadima Pakki Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of transportation															
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
Subtotal of detailed design and preparation of reports															
Grand Total															

In words:

Signature:

Name and title:

Date:

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Government of Nepal
Ministry of Physical Infrastructure and Transport
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BRIDGE BRANCH

BILL OF QUANTITIES

Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):

S. N.	Name of Bridge	Name of Road	District
1	Mahakali Nadima Pakki Bridge	Bhimadatta Municipality wada no. 13 ma Piparaiya Chandani Jodne Road	Kanchanpur
2	Radha River Bridge	Daiji Beltari Road	Kanchanpur
3	Rautala Kholama Bridge	Bhimadatta Municipality wada no. 1 ma	Kanchanpur
4	Bhajane Khola Bridge	Ugratara Melauli Sadak	Dadeldhura
5	Shirshagad Rupal Bridge	0	Dadeldhura
6	Sakayal Dandaban Road Bridge	Navdurga	Dadeldhura
7	Khulla Khet Bridge	Ugratara Melauli Sadak	Dadeldhura
8	Triveni River Bridge	Shreebhavar haat koteligad	Baitadi
9	Naugad Khola Bridge	0	Darchula

												Contract No.		BB-159-DSD-071/72-56	
SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahakali Nadima Pakki Bridge	Radha River Bridge	Rautala Kholama Bridge	Bhajane Khola Bridge	Shirshagad Rupal Bridge	Sakayal Dandaban Road Bridge	Khulla Khet Bridge	Triveni River Bridge	Naugad Khola Bridge				
Desk study and field works															
1	Desk Study including collection of data, maps and other information; planning of the works	Job	1	1	1	1	1	1	1	1	1	9			
2	Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits	Job	1	1	1	1	1	1	1	1	1	9			
Subtotal of desk study & field works															
Submission of Feasibility Study Report - 3 copies		If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) NOTE.													
3 Soil investigation															
3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR															
	Number of boreholes		3	3	3	3	3	3	3	3	3	27	-----	-----	-----
a	Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)	RM	60	0	0	0	0	0	0	0	0	60			
b	Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)	RM	0	48	48	48	48	48	48	48	48	384			
Subtotal of drilling works, field tests and laboratory tests															

SN	Particulars	Unit	Quantity									Total quantity	Rate (excl. VAT)	Rate in words	Amount (excl. VAT)
			Mahakali Nadima Pakki Bridge	Radha River Bridge	Rautala Kholama Bridge	Bhajane Khola Bridge	Shirshagad Rupal Bridge	Sakayal Dandaban Road Bridge	Khulla Khet Bridge	Triveni River Bridge	Naugad Khola Bridge				
4	Transportation														
4.1	Transportation of personnel	job	1	1	1	1	1	1	1	1	1	9			
4.2	Transportation of equipment	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of transportation														
5	Detailed design and preparation of reports														
5.1	Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR	job	1	1	1	1	1	1	1	1	1	9			
5.2	Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)	job	1	1	1	1	1	1	1	1	1	9			
	Subtotal of detailed design and preparation of reports														
	Grand Total														

In words:

Signature:

Name and title:

Date:

Seal:

