

Government of Nepal

Ministry of Physical Planning, Works and Transport Management

**Department of Roads**

**Design and Planning Branch**

**Planning Monitoring and Evaluation Unit**

Babarmahal, Kathmandu

# **Request for Proposal**

for

**Consulting Services**

for

**Feasibility Study of MidHill Highway**

**Contract No. : MH1-PMEU-069/70 (Chiyobhanjyang Ganeshchowk - Myglung-Basantapur-Hile -Bhojpur-Diktel -Ghurmi -Dhulikhel-Kathmandu -Pokhara Section)**

**Contract No. : MH2-PMEU-069/70 (Pokhara-Baglung -Musikot Border-Rukumkot-Rukumkot-Musikot -Musikot-Chourjahari -Dailekh - Lainchour -Saijula -Belkhet-Mangalsen-Silgadhi -Satbanjh -Jhulaghat Section)**

**Consultant's Name and address:**

## **Table of Contents**

|            |                                          |    |
|------------|------------------------------------------|----|
| Section 1. | Letter of Invitation .....               | 1  |
| Section 2. | Information to Consultants .....         | 2  |
| Section 3. | Technical Proposal - Standard Forms..... | 16 |
| Section 4. | Financial Proposal - Standard Forms..... | 24 |
| Section 5: | Terms of Reference .....                 | 27 |
| Section 6: | Standard Form of Contract .....          | 27 |

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## Section 1. Letter of Invitation

To,

| SN | Name of Firm |
|----|--------------|
| 1  |              |
| 2  |              |
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| 5  |              |
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### Subject: Request for Proposal

The Department of Roads, Design and Planning Branch, Planning Monitoring and Evaluation Unit, abarmahal, invites proposals to provide the following consulting service:

### Detailed Project Preparation of following Roads:

1. ....

The RFP documents will be provided in digital form; hence you are requested to download the documents from DOR web/Notice section. The BOQ is attached herewith.

A consultant will be selected under the procedures described in this RFP. The deadline for the submission of the proposal is 30 days from the date of dispatch of this invitation.

(Prabhat Kumar Jha)  
Unit Chief

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## 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

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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:
  - i. "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
  - ii. "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.
- b. 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;
- c. 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;
- d. 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
- e. 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,

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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.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <ul style="list-style-type: none"> <li>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).</li> <li>iii. A description of the methodology and work plan for performing the assignment (Section 3D).</li> <li>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).</li> <li>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.</li> <li>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).</li> <li>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.</li> <li>viii. Any additional information requested in the Data Sheet.</li> </ul>                                                                                                                                                                                                                                         |
|                           | 3.5 The Technical Proposal shall not include any financial information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Financial Proposal</b> | <p>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.</p> <p>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.</p> <p>3.8 Consultants shall express the price of their services in Nepalese Rupees.</p> <p>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.</p> |
| <b>4. Submission,</b>     | 4.1 The original proposal (TP and FP) shall be prepared in indelible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Receipt, and Opening of Proposals</b>                       | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                | <p>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.</p> <p>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 "<b>ORIGINAL</b>" or "<b>COPY</b>" as appropriate. If there are any discrepancies between the original and the copies of the proposal, the original governs.</p> <p>4.4 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "<b>Technical Proposal</b>," and the original and all copies of the Financial Proposal in a sealed envelope clearly marked "<b>FINANCIAL PROPOSAL</b>" and warning: "<b>DO NOT OPEN WITH THE TECHNICAL PROPOSAL</b>." 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, "<b>DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE</b>."</p> <p>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.</p> <p>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.</p> |
| <b>5. Proposal Evaluation</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>General</b>                                                 | <p>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.</p> <p>5.2 Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation, is concluded.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Evaluation of Technical Proposals (QCBS,QBS,FBS, LCBS))</b> | <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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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 Proposals (CBS Only)**

- 5.5. The Financial Proposals shall be opened publicly in the presence of the consultants' representatives who choose to attend. The name of the 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 ( $F_m$ ) will be given a financial score ( $S_f$ ) of 100 points. The financial scores ( $S_f$ ) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical ( $S_t$ ) and financial ( $S_f$ ) 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:  $S = S_t \times T\% + S_f \times P\%$ . 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

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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.

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- 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 :
- give or propose improper inducement directly or indirectly,
  - distortion or misrepresentation of facts
  - engaging or being involved in corrupt or fraudulent practice
  - interference in participation of other prospective bidders.
  - coercion or threatening directly or indirectly to impair or harm, any party or the property of the party involved in the procurement proceedings,
  - 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.
  - 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

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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  | <p>The name of the Client is:</p> <p>Government of Nepal<br/>Ministry of Physical Planning, Works and Transport Management<br/>Department of Roads<br/><b>Planning and Design Branch</b><br/><b>Planning Monitoring and Evaluation Unit</b></p> <p>The method of selection is: <b>Quality- and Cost-Based Selection (QCBS)</b></p>                                                                                                                                                                                                                                                        |
| 1.2  | <p>The name, objectives, and description of the assignment are:</p> <p>Name : <b>Road section as given in the BOQ</b></p> <p>Objectives: <b>To perform Feasibility Study of Midhill Highway section to reduce existing road length</b></p>                                                                                                                                                                                                                                                                                                                                                |
| 1.3  | <p>A pre-proposal conference will be held on <b>15<sup>th</sup> day of issue of letter of invitation at</b> 1:00 p.m. at the PMEUnit, Babarmahal, Kathmandu</p> <p>The name(s), address(es), and telephone numbers of the Client's official(s) are:</p> <p><b>Name: Prabhat Kumar Jha</b><br/><b>Address : Unit Chief, Government of Nepal</b><br/><b>Ministry of Physical Planning , Works and Transport Management</b><br/><b>Department of Roads</b><br/><b>Planning and Design Branch</b><br/><b>Planning Monitoring and Evaluation Unit</b><br/><b>e-mail:pmeunit@dor.gov.np</b></p> |
| 1.4  | The Client will provide the following inputs: <b>NA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.10 | The clauses on fraud and corruption in the Contract are: <b>NA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2.1  | <p>Clarifications may be requested <b>7 days</b> before the submission date</p> <p>The address for requesting clarifications is:<br/>Government of Nepal<br/>Ministry of Physical Planning , Works and Transport Management<br/>Department of Roads<br/><b>Planning and Design Branch</b><br/><b>Planning Monitoring and Evaluation Unit</b></p>                                                                                                                                                                                                                                          |
| 3.1  | Proposals should be submitted in the following language(s): <b>English</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.3  | <p>(i) Short listed consultants/entity <b>may not</b> associate with other short listed consultants:</p> <p>(ii) The estimated number of professional staff-months required for the assignment is: <b>NA</b></p> <p>(iii) Available Budget for Fixed Budget Assignment : <b>NA</b></p> <p>(iv) Reports that are part of the assignment must be written in the following language(s): <b>English</b></p>                                                                                                                                                                                   |

| 3.9                                                                                                                                                   | Proposals must remain valid for <b>90 days</b> after the submission date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
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| 4.3                                                                                                                                                   | Consultants must submit an original and <b>no</b> additional copies of each proposal:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 4.4                                                                                                                                                   | The proposal submission address: <b>Same as in 2.1</b><br>Information on the outer envelope should also include :<br><b>Contract ID.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 4.5                                                                                                                                                   | Proposals must be submitted no later than: as per letter of invitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 5.1                                                                                                                                                   | The address to send information to the Client is : <b>Same as in 2.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 5.3                                                                                                                                                   | <div>The number of points to be given under each of the evaluation criteria are:</div> <div><b>1. EVALUATION OF TECHNICAL PROPOSALS</b></div> <div><b>The Technical Proposal will be evaluated on the following grounds:</b></div> <table><tr><th>S.N</th><th>Particulars</th><th>Maximum points</th></tr><tr><td>1</td><td>Relevant experience of the firm</td><td>10</td></tr><tr><td>2</td><td>Methodology of Service Delivery</td><td>40</td></tr><tr><td>3</td><td>Technology Transfer</td><td>5</td></tr><tr><td>4</td><td>Professional Key Personnels</td><td>45</td></tr></table> <div>Total marks as a whole 70% of the total maximum points</div> <div><div><b>1) Relevant experience of the firm</b></div><div>Maximum 10 Marks</div><table><tr><td>Work Experience</td><td>As consultant</td></tr><tr><td>Completion of work of "Feasibility Study" of a Road (Road Length more than 50KM)</td><td>1.0 points for each job</td></tr><tr><td>Completion of work of "Detailed Engineering Survey and Design" or "DPR" of a Road (Road Length more than 30KM)</td><td>1.0 points for each job</td></tr></table></div> <div><div><b>2) Methodology of Service Delivery</b></div><div>Maximum 40 Marks</div><table><tr><td>Particulars</td><td>Evaluation Remarks</td><td>Total Marks</td></tr><tr><td rowspan="3">Comments or suggestions on ToR and services</td><td>Not Significant</td><td rowspan="3">3.0</td></tr><tr><td>General</td></tr><tr><td>Significant</td></tr><tr><td rowspan="3">Description and review any relevant documents like Design standards</td><td>Not Significant</td><td rowspan="3">2.5</td></tr><tr><td>General Review</td></tr><tr><td>Critical review</td></tr><tr><td rowspan="3">If any of the key personnel has visited the site and has attached a photograph, described the site and has attached a photograph, described the site.</td><td>General Description</td><td rowspan="3">7.5</td></tr><tr><td>General Description with site photograph</td></tr><tr><td>Technical Description with site photograph</td></tr><tr><td rowspan="3">Methodology to perform Feasibility Study for road section</td><td>Not Significant</td><td rowspan="3">12.0</td></tr><tr><td>General</td></tr><tr><td>Clear Methodology with flow charts</td></tr></table></div> | S.N            | Particulars | Maximum points | 1 | Relevant experience of the firm | 10 | 2 | Methodology of Service Delivery | 40 | 3 | Technology Transfer | 5 | 4 | Professional Key Personnels | 45 | Work Experience | As consultant | Completion of work of "Feasibility Study" of a Road (Road Length more than 50KM) | 1.0 points for each job | Completion of work of "Detailed Engineering Survey and Design" or "DPR" of a Road (Road Length more than 30KM) | 1.0 points for each job | Particulars | Evaluation Remarks | Total Marks | Comments or suggestions on ToR and services | Not Significant | 3.0 | General | Significant | Description and review any relevant documents like Design standards | Not Significant | 2.5 | General Review | Critical review | If any of the key personnel has visited the site and has attached a photograph, described the site and has attached a photograph, described the site. | General Description | 7.5 | General Description with site photograph | Technical Description with site photograph | Methodology to perform Feasibility Study for road section | Not Significant | 12.0 | General | Clear Methodology with flow charts |
| S.N                                                                                                                                                   | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Maximum points |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 1                                                                                                                                                     | Relevant experience of the firm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10             |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 2                                                                                                                                                     | Methodology of Service Delivery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40             |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 3                                                                                                                                                     | Technology Transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5              |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| 4                                                                                                                                                     | Professional Key Personnels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45             |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Work Experience                                                                                                                                       | As consultant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Completion of work of "Feasibility Study" of a Road (Road Length more than 50KM)                                                                      | 1.0 points for each job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Completion of work of "Detailed Engineering Survey and Design" or "DPR" of a Road (Road Length more than 30KM)                                        | 1.0 points for each job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Particulars                                                                                                                                           | Evaluation Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total Marks    |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Comments or suggestions on ToR and services                                                                                                           | Not Significant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.0            |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | Significant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Description and review any relevant documents like Design standards                                                                                   | Not Significant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.5            |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | General Review                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | Critical review                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| If any of the key personnel has visited the site and has attached a photograph, described the site and has attached a photograph, described the site. | General Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.5            |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | General Description with site photograph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | Technical Description with site photograph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
| Methodology to perform Feasibility Study for road section                                                                                             | Not Significant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12.0           |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |
|                                                                                                                                                       | Clear Methodology with flow charts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |             |                |   |                                 |    |   |                                 |    |   |                     |   |   |                             |    |                 |               |                                                                                  |                         |                                                                                                                |                         |             |                    |             |                                             |                 |     |         |             |                                                                     |                 |     |                |                 |                                                                                                                                                       |                     |     |                                          |                                            |                                                           |                 |      |         |                                    |

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|--------------------------------------------------------------------|-------------------------------------------|------|
| Methodology to perform task for identification of tunnel alignment | Not Significant                           | 9.0  |
|                                                                    | General                                   |      |
|                                                                    | Clear Methodology with flow charts        |      |
| Work schedule with description                                     | Not Significant                           | 3.0  |
|                                                                    | Fairly justify the proposed methodology   |      |
|                                                                    | Relevant to proposed methodology          |      |
| Manning schedule as per Work Schedule                              | Not Significant                           | 3.0  |
|                                                                    | Fairly justify the proposed Work Schedule |      |
|                                                                    | Relevant to proposed Work Schedule        |      |
| Total Marks                                                        |                                           | 40.0 |

### 3) Technology Transfer

**Maximum 5 Marks**

| Particulars                                                                                                                 | Evaluation Remarks                         | Total Marks |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------|
| The idea of sharing know-how of the works highlights on dissemination of knowledge and training proposed by the consultant. | Not Significant                            | 5.0         |
|                                                                                                                             | General (only standard method description) |             |
|                                                                                                                             | Significant                                |             |

### 3) Professional Key Personnels

**Maximum 45 Marks**

| Professional Key Personnel                                 | Maximum Marks | Minimum experience after Bachelor Degree | Education required                                 | Marks for Specific Job Experience |
|------------------------------------------------------------|---------------|------------------------------------------|----------------------------------------------------|-----------------------------------|
| <b>Team Leader (Highway/Transport Engineer)</b>            | <b>10</b>     | 15                                       | M.Sc. in Highway/Transportation /Civil Engineering | 1 marks for each job              |
| <b>Deputy Team Leader -1 ( Highway/Transport Engineer)</b> | <b>6</b>      | 10                                       | M.Sc. in Highway/Transportation /Civil Engineering | 1 marks for each job              |
| <b>Deputy Team Leader -2 ( Highway/Transport Engineer)</b> | <b>6</b>      | 10                                       | M.Sc. in Highway/Transportation /Civil Engineering | 1 marks for each job              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |           |                                                           |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----------------------------------------------------------|------------------------|
| <b>Geologist/Geo-Technical Engineer - 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>4</b>   | <b>10</b> | M.Sc. in Geotechnical Engineering                         | 1 marks for each job   |
| <b>Geologist/Geo-Technical Engineer - 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>4</b>   | <b>10</b> | M.Sc. in Geotechnical Engineering                         | 1 marks for each job   |
| <b>Structural Engineer - 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>3</b>   | <b>10</b> | M.Sc. in Structural Engineering                           | 1 marks for each job*  |
| <b>Structural Engineer - 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>3</b>   | <b>10</b> | M.Sc. in Structural Engineering                           | 1 marks for each job*  |
| <b>Hydrologist - 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>1.5</b> | <b>7</b>  | M.Sc. In Water Resource/Hydrology/Hydraulics Engineering  | 0.5 marks for each job |
| <b>Hydrologist - 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>1.5</b> | <b>7</b>  | M.Sc. In Water Resource/Hydrology/Hydraulics Engineering  | 0.5 marks for each job |
| <b>Environmentalist - 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>1</b>   | <b>7</b>  | M.Sc. In Environmental Engineering /Environmental Science | 1 marks for each job   |
| <b>Environmentalist - 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>1</b>   | <b>7</b>  | M.Sc. In Environmental Engineering /Environmental Science | 1 marks for each job   |
| <b>Transport Economist -1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>4</b>   | <b>10</b> | M.Sc. in Transportation Engineering or M.A. in Economics  | 1 marks for each job   |
| <p><b>* Experience of Bridge Design also shall be considered</b></p> <p>Note 1: The services for Govt of Nepal (GoN) organizations (Fully or Semi/Partially Owned ) shall only be evaluated as firm/jv experiences for the Proposal. Any experience in JV shall be evaluated with only 50% mark of each service.</p> <p>Note 2: Any sublated Service for Govt of Nepal (GoN) organizations (Fully or Semi/Partially Owned ) by a firm or JV from another private firm/jv shall not be evaluated as firm/JV experience for the Proposal.</p> |            |           |                                                           |                        |



|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>Note 3: Any service experience older than 10 year (counted from the last date of submission of EOI) shall not be evaluated as firm/JV experience for the Proposal</p> <p>Note 4: CV of each professional key professional shall be submitted with signature of professional and authorized representative of the firm/jv. The Signature shall be in Blue Ink. Scan signature , or signed in ink other than Blue Ink shall cause to rejection of CV for Proposal evaluation</p> <p>Note 5: Proposed professional key personnel shall not be repeated by the same firm/jv and/or another firm/jv. Incase of repetition of professional key personnel, the Unit shall ask via email the person for physical presence within seven days to declare him/herself the firm/jv to whom he/she shall want to be associated.</p> <p>Note 6: CV of personnels shall clearly mention him/her e-mail address and mobile no.</p> <p>Note 7: The firm/jv shall have to submit the NEC registration certificate for engineer professionals</p> <p>Note 8: The firm/jv shall also have to submit the any certificate as evidence of his/her education(degree) as required above.</p> <p>Note 9 :Anything not mentioned in the above paragraphs shall be as per the Public Procurement Act-2063 and Public Procurement Regulation-2064.</p> |
| 5.9  | The fixed Budget Ceiling for the assignment is : <b>NA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5.11 | <p>The formula for determining the financial scores is the following:<br/> <math>Sf = 100 \times Fm/F</math>, in which <i>Sf</i> is the financial score, <i>Fm</i> is the lowest price and <i>F</i> the price of the proposal under consideration,<br/> The weights given to the technical and Financial Proposals are:<br/> T (Technical Proposal) = <b>0.8</b><br/> P (Financial Proposal) = <b>0.2</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.1  | The address for negotiations is: <b>Same as in 2.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7.8  | The assignment is expected to commence <b>on or before 7 days from the date of signing of the contract</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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## 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.
- 3I. Transfer of Technology

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### 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:

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### 3B. CONSULTANT'S REFERENCES

#### Relevant Services Carried Out in the Last Ten 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.

|                                                                                                                        |                               |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Consultant's Name:                                                                                                     |                               |
| Assignment name:                                                                                                       |                               |
| Location:                                                                                                              |                               |
| Name of Client:                                                                                                        |                               |
| Address:                                                                                                               |                               |
| Start Date (Month/Year):                                                                                               | Completion Date (Month/Year): |
| Approx. Value of Services [in Nepali Rupees]:                                                                          |                               |
| Names of <i>Key Technical Staff</i> (Project Director/Coordinator, Team Leader) involved:<br>1.<br>2.<br>3.<br>4. etc. |                               |
| Description of Services Provided:                                                                                      |                               |

#### Notes:

1. Please provide the documentary evidence (e.g. completion certificate) clearly showing the name of the job/service, value of service and completion date. **Any information without such evidence shall not be entertained.**
2. Please **DO NOT** provide information on other projects which are not relevant to the proposed job.

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

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Please study the Terms of Reference thoroughly and provide your views, findings, comments and suggestions 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.

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### **3D. DESCRIPTION OF THE METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT**

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**3E. TEAM COMPOSITION AND TASK ASSIGNMENTS**

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**1. Technical/Managerial Staff**

| Name | Position | Task |
|------|----------|------|
|------|----------|------|

**2. Support Staff**

| Name | Position | Task |
|------|----------|------|
|------|----------|------|

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### 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:  
E-mail:  
Mobile No.:  
Detailed Tasks Assigned:

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#### 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.]*

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#### 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.

Date:

*[Signature of staff member and authorized representative of the consultant] Day/Month/Year*

Full name of staff member: \_\_\_\_\_

Full name of authorized representative: \_\_\_\_\_

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***The Consultant shall have to submit the CV of professionals with signature and authorized representative of the consultant. The Signature must be in Blue Ink. If signature is scan and colour print, or signed in ink other than Blue Ink shall cause rejection of the Proposal.***



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**3G. TIME SCHEDULE FOR PROFESSIONAL PERSONNEL**

**3H. ACTIVITY (WORK) SCHEDULE**

**3I. TRANSFER OF TECHNOLOGY**

Please provide your commitment, method and plan/schedule of Transfer of Technology.

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## **Section 4. Financial Proposal - Standard Forms**

- 4A. Financial Proposal submission form.
- 4B. Bill of Quantity

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## 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:

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#### **4B. BOQ**

##### **BILL OF QUANTITIES :**

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## Section 5: Terms of Reference

### 5.1 INTRODUCTION

The feasibility study provides the basis for the approval of a project. It shall be a full technical and economic feasibility study designed to enable the concerned ministry and the NPC to appraise the project before giving approval.

To investigate the technical, economic and environmental feasibility of the road stated below for which the consultancy service is presently invited, so that decision can be made regarding the appropriateness of proceeding with engineering design:

Name of road: As per BOQ

Class of Road : National Highway

### 5.2 OBJECTIVES

The main objectives of the consultancy service are :

- *To reduce the existing road length of the MidHill Highway by correcting the unnecessary rise fall, alignment looping and alignment deviation and by proposing necessary road tunnel sections.*
- To perform technical feasibility comprising technical evaluation of alternatives with road tunnel sections including level of service, development of preliminary designs and specifications, identification of materials sources and estimates of construction, operation and maintenance costs
- To perform financial feasibility comprising evaluation of project revenues and direct costs in nominal (i.e.financial) terms.
- To perform economic feasibility comprising evaluation of all project benefits and costs, and the analysis of the project's return in economic terms.
- To perform institutional sustainability comprising evaluation of the agency which will own and operate the completed infrastructure to determine institutional strengthening and training assistance which may be required to ensure the sustainability of the completed project.

### 5.3 SCOPE OF WORK

The main scope of work for the study shall be the investigation of feasible alternatives taking into account topography, geology, hydrology, environment, geotechnical and socio-economic factors.

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The study shall be performed

**Existing Track/Road  
Fresh Alignment**

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

**5.3.1 Desk Study**

A desk study shall be carried out, collecting all data, maps and information relevant to feasibility study of the road. The firm shall collect maps of its study area, contour map (not smaller than 1:50,000), political & geological map, hazard map, road network map, map of earthquake zoning, land use map, aerial photo (covering the catchments area of drainage system as far as possible), socio economical data of influence area and other relevant data, report (roads network study, MRE, road standard, Standard specification, DOR publication etc.). The firm shall clearly identify the preliminary obligatory points of the possible alignments. The firm shall provide the field schedule with manning schedule. After the desk study , the firm shall submit the inception report.

**5.3.2 Data Collection**

The study shall require a wide variety of information in the form of mapping, field surveys, design standards and unit costs for the preliminary engineering design as well as socio-economic data for estimating benefits and impacts.

- Maximum use shall be made of secondary data from existing government and other sources and expert estimations.
- The firm shall collect related data from other agencies and all pertinent technical standards and guidelines for the type of works under study.
- The area affected by the project shall be estimated, and agreed with stakeholders as part of the data collection phase.
- Available data shall be compiled and the data gaps identified.
- The firm shall recommend a methodology how to collect the additional data needed for the feasibility study. Primary data collection requiring field surveys at the project site shall be done by sampling only.
- Formats/questionnaires/checklists for primary data collection shall be prepared.
- Primary data shall be surveyed in the field using the formats developed.

- 
- Data collected shall be assembled in a database and maps suitable for feasibility-level analysis and costing.

Filed Survey work shall be carried out using GPS calibrated to Nepal National Grids. Height (RL) is to be determined from topographical map.

The firm shall determine the crow fly length/theoretical length/practical length between the obligatory points, by fixing controlling points between obligatory points and finding average grade between the controlling points (not exceeding the average grade of the road) shall to be made.

*During the study, firm shall also consider the road tunnels for different road sections which may be overall economy than the surface road options.*

The firm shall take photograph of distinct features such as overall view, land slide area, other geologically hazardous area, river crossing, distinct soil type, road intersections, existing trails & bridges etc.

### **5.3.3 Stakeholder Participation**

The feasibility study shall contain a process of consultation with project stakeholders. Stakeholders include the users of the project works (the public and the private sector), groups which may be directly affected by the works (property owners, residents in the project area), local bodies which may be required to operate and maintain the project works, and central government agencies whose plans and project in other sectors may affect or be affected by the project.

The firm conducting the feasibility study shall coordinate their planning with other line agencies through a coordination committee. The public shall be consulted directly through meetings with user groups, Ward Committees, NGOs and others representing local interests.

### **5.3.4 Data Interpretation and Analysis**

The firm shall interpret and analyze the primary and secondary data collected as follows but may not be limited to the following:

#### **Socio-economic studies of influence area with maps and sketches**

- Demographic picture:
  - (a) Influenced population/economic activity of influenced population
  - (b) Structure of population
  - (c) Nature of migration and outside influx etc.

- 
- Land use pattern:
    - (a) Wild life sanctuary
    - (b) Forest
    - (c) Production in influenced area and surplus in influenced area
    - (d) Settlement pattern etc.
  - Trade, Industry and Commerce (existing & planned):
    - (a) Local produces and other resources
    - (b) Export and import
    - (c) Major industries and cottage industries
    - (d) Market development
    - (e) Tourism potential etc.
    - (f) Major development works (hydro power project, irrigation project, other governmental/no-governmental development programs etc.)
  - Health (existing & planned):
    - (a) Hospital
    - (b) Health post
    - (c) Ayurvedic clinic etc.
  - Education (existing & planned):
    - (a) Primary schools
    - (b) Secondary schools
    - (c) High schools
    - (d) Colleges/institutions etc.
    - (e) Universities
  - Transport and communications network (existing & planned):
    - (a) Trail network and trail bridges
    - (b) Airport, STOL strips, helipad etc.
    - (c) Water transport
    - (d) Rope-ways



- 
- (e) Road network
  - (f) Telecommunication, postal service & other communication networks etc.
  - Administrative facilities:
    - (a) Government offices
    - (b) Co-operation offices
    - (c) Banks etc.
    - (d) Police station

### **Geo scenario studies with particular emphasis on alignments**

- Geological formation shall be studied and engineering geological maps shall be proposed.
- Identify risk areas and propose of mitigation measures.
- Drainage Structure along the alignments
- Soil conservation measures & Hazard Protection measures

### **Traffic Studies**

To determine the type and volume of future traffic for the proposed roads, the firm shall analyze all existing statistical data affecting traffic within influence area. The firm shall carry out traffic counts and origin/destination surveys or any other surveys as necessary to determine the nature of traffic and the present volume of goods, animal and pedestrian movements (motorized as well as non-motorized traffic) within the influence area. Traffic data shall be co-related to the influenced population (or economically active population) and production (surplus or deficit in agriculture/industry etc.)

Threshold traffic value for construction and upgrading of the road, for the reduction of total transport cost, judgment shall be applied considering all possible method.

In broad terms, the firm shall also identify, describe and quantify existing and probable future traffic generating sources, based on the probable future development of the influence area on relevant factors, such as;

- (a) Population growth and changes in population distribution.
- (b) Regional economic growth.
- (c) Development of agriculture, forestry, mineral and other resources.

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Anticipated domestic trade in agriculture and non-agriculture commodities. A second traffic forecast shall be made assuming that an appropriate accelerated development program within the zone of influence is undertaken by the Government.

**Studies on availability of construction materials and access road**

- (a) Rock, Boulders for use as road aggregates for road and other structures
- (b) Sand
- (c) Gravel
- (d) Timber
- (e) Fuel
- (f) Water
- (i) Cement, Brick, Steel and other construction materials

**Environmental Studies**

- (a) Possible impact on Ecology, Environment and Geo-system in the vicinity of the alignment due to construction of the proposed road.
- (b) Disturbance to the geo-system and possibility for triggering the landslide and other instabilities.
- (c) Deforestation.
- (d) Grazing, farming and possible encroachments.
- (e) Any other social and environmental factors which affect the quality of life in the influence area.
- (f) Positive & negative impact on the area due to the project.
- (g) Identify and recommend mitigation methods to be incorporated in detailed design stage.

**Studies on People's Participation in Road Construction**

- (a) People's Participation
- (b) Labor intensive method
- (c) Capital intensive method
- (d) Appropriate technology of construction

**Studies on property Acquisition**

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The Firm shall also propose a total width of land acquisition for road reserve to accommodate the designed road width (cross-section) and the right of way.

- Legal Aspect of Land Acquisition
- Temporary and Permanent Acquisition of Land and Property
- Displacement and Rehabilitation of People
- Compensation etc.

#### **Additional Issues**

- The site shall offer the maximum economy in costs of construction, transport of materials and later operations and maintenance.
- The site shall enable the completed facility to satisfy the intended level of service and all safety requirements.
- Every effort shall be made to utilize existing facilities in order to minimize construction cost and land acquisition.
- The site shall avoid or minimise negative impacts on social and cultural activities and the environment such as schools, hospitals, places of worship, archaeological and historical monuments, water courses and forested areas.
- The Firm shall propose a suitable road width to incorporate motorable, non-motorable, pedestrian traffic/where ever necessary for foot paths on the basis of 20 years traffic forecast.
- The Firm shall also propose the location of bus parks and taxi parks, areas to develop green belt and urban parks where ever possible along the alignment based on 20 years traffic forecast.
- The Firm shall take special care to provide a proposal for extra width to accommodate non-motorized traffic like Bullock carts (in Terai area), Rickshaw and Bicycle.
- Firm shall have to provide a provision for space to accommodate the services like Electricity, Telephone and Water Supply, Sewerage system on its right of way along with road line plantation. In addition to the above, the Firm shall have to provide provisional location for the cross drainage for the urban sewage system ( if applicable).
- There is a great chance of fast urbanization due to existence of this proposed road net work, Firms are suggested to take more attention for the urban traffic type for the design of road width, pedestrian footpaths, green belts, bus/truck parks, bus lay-byes at

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appropriate intervals, taxi and Rickshaw stand (if required) along the proposed road alignment.

- The firm shall have to identify the location of major intersections into proposed road network with adequate land reserve on the basis of 20 years traffic forecast.
- Future expansion & right of way suggestion shall be mentioned.

### **For Tunnel sections**

- **Geologic Mapping**

After collecting and reviewing existing geologic maps, aerial photos, references, and the results of a preliminary site reconnaissance, surface geologic mapping of available rock outcrops shall be performed by an experienced engineering geologist to obtain detailed, site-specific information on rock quality and structure. Geologic mapping collects local, detailed geologic data systematically, and is used to characterize and document the condition of rock mass or outcrop for rock mass classification such as:

- Discontinuity type
- Discontinuity orientation
- Discontinuity infilling
- Discontinuity spacing
- Discontinuity persistence
- Weathering

In addition, the following surface features shall also be observed and documented during the geologic mapping program:

- Slides, new or old, particularly in proposed portal and shaft areas
- Faults
- Rock weathering
- Sinkholes and karstic terrain
- Stress relief cracks
- Presence of talus or boulders
- Thickness of Bedding Rock (By Engineering Geological study)

### **5.3.5 Preliminary Engineering**

The preliminary engineering design shall establish the technical feasibility and initial cost estimate of viable alternatives. The following guidelines apply:

- 
- Plans of each alternative may be expanded to show all the key components and their connections with one another.
  - Typical cross-sections and details may be developed to demonstrate the technical feasibility of the project component and to enable a quick estimate of quantities.
  - Key engineering calculations shall be carried out to prove technical feasibility.
  - Any deviations from standards shall be identified. The implications and effects shall be discussed and agreed with stakeholders while comparing alternatives.
  - The preliminary engineering design shall be in sufficient detail to permit costs to be estimated +/-25%.
  - The preliminary engineering shall identify sources, suitability and costs of materials for construction. As a minimum it shall include a survey of materials sources in the project vicinity.

#### **For road tunnel sections**

The preliminary survey and design of road tunnel consists of the following activities:

- Topographic survey of proposed road corridor including road inventory survey of existing structures
- Preliminary design of Tunnel Road
- Preparation of drawings

#### **5.3.6 Preliminary Cost Estimates**

Preliminary cost estimates shall be prepared based on the following:

- The quantities of the civil works shall be computed on the basis of the schematic plan, profiles and typical sections following standard methods of measurement.
- The rate analysis for civil engineering items shall follow the norms and market prices of construction materials, labour and equipment hiring rates.
- The rate analysis for civil engineering items may be verified using the mean rates from contracts in the last 5 years as much possible.
- For road tunnel, cost per km per lane around the world practice shall be considered for cost estimation.
- The costs shall be broken down into local and foreign currency components, direct cost, overheads, taxes, physical and price contingencies.

The cost components shall be :

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### Construction

Each alternative alignment shall be included in the cost estimate. If necessary the cost of a road system which will be necessary to connect existing population concentrations and develop the economic potential of the region, preliminary cost estimate may be based on typical construction cost of road, highway and bridge etc. recently constructed by the Department of Roads but shall take into account recent increases in the cost of construction, materials and labor prevalent in the districts. Cost estimate for stage construction shall be considered possibility starting with a low cost solution with initially a dry season road. Estimate of the local and foreign cost components, if applicable shall also be made.

### Maintenance

The cost of maintenance of road for design period shall also be considered. The Firm shall have to analyze and suggest the sources of income and the possibilities in which funds for the maintenance could be mobilized viz.: from local levels, toll taxes, vehicle registration fees or fines and transport equipment and spare parts taxes or through Road Board.

### Road user cost

Cost of vehicle operating cost, accident cost etc. shall be included in existing & proposed conditions. Vehicle operating cost of the proposed road shall be mentioned in terms of roughness verses required pavement cost, which is dominating cost of vehicle operation.

### Comparison

Comparison shall be made between different alignments taking into consideration of construction, maintenance, road user costs and other costs into consideration. While recommending the most feasible alignment in terms of construction cost, comparison shall be made with the operating cost as well as to determine the period during which the extra construction cost will be compensated. The ranking of alternatives shall be as recommendations given in manual of mountain risk engineering (MRE).

### **5.3.7 Economic and Financial Analyses**

The following guidelines shall be applied:

- The life of the proposed works, and the residual value at the end of the life, shall be determined.
- The economic and financial analyses shall compare the benefits and costs of the project alternatives (the “with project” case) over the project life against projected conditions if no project were implemented (the “without project” case). Careful analysis is needed to define both cases.

- For economic analysis, nominal costs and benefits shall be converted to an economic basis by removing taxes and duties and applying shadow prices where appropriate.
- The construction cost, O&M cost, safety cost etc. shall be calculated over the construction and operating life of the project to generate the cost stream.
- Benefits shall be calculated over the operating life of the project to generate the benefit stream.
- Both cost and benefit streams shall be discounted and converted into present values using the discount rate specified by GoN.
- The economic indicators normally used to evaluate and compare alternatives shall be economic internal rate of return (EIRR), benefit-cost ratio (B/C), net present value (NPV) and incremental NPV.
- Where there shall be uncertainty on cost and benefit streams, sensitivity analyses shall be carried out for 25% increase in construction costs, 100% increase in maintenance cost, 20% reduction in user costs, 30% reduction in growth of benefits

#### **5.3.8 Development of Project Objectives and Scope**

The development of the project objectives shall be based on the sector policies of GoN requirements. Usually a single principal objective shall be stated with a number of specific sub-objectives. A logical framework approach shall be used to develop the goals and objectives for the project. While developing the objectives of the project, it is useful to refer to ex-post evaluation reports of similar projects in order to benefit from the lessons learned and recommendations coming out of earlier projects. The policy statement of the NPC states that “all proposals for all new development projects funded by foreign donor agencies and all central level development projects funded by GoN shall include a logical framework from the beginning of fiscal year 2000/2001”. An example of the proposed logical framework is presented below:

| <b>Project Title</b>     |                         |                                    |                        |
|--------------------------|-------------------------|------------------------------------|------------------------|
| <b>Narrative Summary</b> | <b>Indicators (OVI)</b> | <b>Means of Verification (MOV)</b> | <b>Key Assumptions</b> |
| Goal :                   |                         |                                    |                        |
| Purpose :                |                         |                                    |                        |
| Outputs :                |                         |                                    |                        |
| Activities :             |                         |                                    |                        |
| Inputs:                  |                         |                                    |                        |

The key elements of the logical framework approach are briefly discussed below:

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Goal : The ultimate goal or rationale of the project to which the specific project will contribute.  
The goal may be sectoral or area specific.

Purpose : The immediate objectives of the project. It is recommended that each project component shall have only one primary objective.

Outputs : The specific result to be produced by each project component i.e. the project “deliverables”.

Activities : The activities that have to be undertaken by the project in order to produce the outputs.

Inputs : The resources needed to implement activities. The inputs of a project are people, budget, materials and information.

Objectively Verifiable Indicators (OVI) : A set of criteria presented in terms of quantity, quality, time and cost which will indicate in concrete terms that the expected results are achieved. The indicators shall be presented in measurable terms stating baseline and target values as well as the time frame for their achievement.

Means of Verification (MOV) : The monitoring mechanism in a project such as specific reports and site visits by the Project Manager, donor or other monitoring agencies.

Key Assumptions : External conditions that could affect the progress or success of the project and which are outside of the control of the project. If these conditions change, they may adversely affect the delivery of project objectives. They shall be considered as the risk associated with the project and shall be evaluated separately.

### **5.3.9 Identification of Institutional Requirements**

Apart from the technical and economic feasibility, the feasibility study shall assess institutional and training requirements. The following guidelines apply:

- The existing organisational structure, staffing, roles and responsibilities and O&M systems and budget of the owner of the completed works shall be assessed.
- The additional responsibility, O&M workload and budget requirement due to the proposed project shall be assessed.
- The requirement for additional staff, and their job responsibilities, to be employed either permanently for the operation of the new works, or temporarily for the duration of the project only shall be assessed.
- The availability of in-house, in-country or external sources to provide the necessary training shall be identified.



- The institutional strengthening and training component within the project shall be recommended.
- A staffing plan during the project and for post-project O&M shall be recommended.

#### **5.3.10 Proposed Implementation Modalities**

Implementation modalities shall include the identification of the executing and implementing agencies, formulation of the project management organization and the powers and responsibilities delegated to each.

The role of the implementing agency shall be procurement and implementation of civil work contracts, appointment and management of firms and disbursement of loan proceeds. It shall be responsible for day-to-day management of project implementation in conformance with prevailing GoN regulations, and the donor guidelines if applicable. It shall liaise with other government departments and local bodies in order to expedite activities and decisions affecting project implementation.

#### **5.3.11 Presentation of Study**

The Firms shall present the study report, 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 PMEUP and the firms. The cost of such presentation shall be born by the firms.

### **5.4 FIRM'S REPORTING OBLIGATIONS**

The whole work shall be completed within time frame as mentioned below:

| S. No. | Particulars                                               | Time required |
|--------|-----------------------------------------------------------|---------------|
| 1      | Desk study                                                | 4 weeks       |
| 2      | Field works                                               | 56 weeks      |
| 3      | Draft report preparation                                  | 10 weeks      |
| 4      | Final report submission                                   | 2 weeks       |
| 5      | Total time from the date of signing the agreement (1+2+3) | 70 weeks      |

Drawings: longitudinal profile of all alternatives, suggested typical cross-section of the road, topographical map (scale not less than 1:50,000) with distinct contours (traced if required) along the study area with district demarcation, geological map.

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The feasible alignment shall be tracked in Google Earth, and the firm have to submit \*.kmz file of the alignment to the Unit.

The firm shall submit the following reports in English.

- (a) monthly progress report;
- (b) two copies of Inception report;
- (c) two copies of draft report; (min. 1 copy colour report).
- (d) five copies of final report with original photos (min. 2 copy colour report).

The report mentioned in (b) & (c) shall contain a concise synopsis summarizing all major findings and recommendations of firm. The preliminary estimates of cost and benefit shall be presented in sufficient detail to permit checking of all supplementary data. The draft report shall be carefully edited and completed so that the final report can be produced with out delay.

## **5.5 WORKING TEAM**

The working team for field and office works shall necessarily consist of the following key personnel together with adequate supporting manpower.

- a. Team Leader /Highway Engineer-1
- b. Deputy Team Leader/Highway Engineer-2
- c. Geologist/Geo-Technical Engineer-2
- d. Structural Engineer-2
- e. Hydrologist-2
- f. Environmentalist-2
- g. Transport Economist -1

## **5.6 SAMPLE STUDY FINAL REPORT FORMAT**

### **REPORT FORMAT OF ALIGNMENT STUDY**

ACKNOWLEDGMENTS

SYNOPSIS

SALIENT FEATURES

CONTENTS

LIST OF TABLES

LIST OF FIGURES

1. GENERAL

1.1 Introduction

1.2 Location

1.3 Significance

1.4 Connection with road network

- 
- 1.5 Map Study
  - 2. DATA
    - 2.1 Influence Area
    - 2.2 Socio-economic data of the influenced area
      - 2.2.1 Population
        - (1) Census
        - (2) Structure of Population
        - (3) Nature of Migration
      - 2.2.2 Land Use Pattern
        - (1) Wild life Sanctuary
        - (2) Forestry
        - (3) Agriculture Production
        - (4) Settlement Pattern
      - 2.2.3 Utility Services
        - (1) Irrigation Facility
        - (2) Electricity
        - (3) Water Supply
      - 2.2.4 Economic Activity
        - (1) Local Produces and the Resources
        - (2) Export and Import
        - (3) Major Industries and Cottage Industries
        - (4) Market and Fair
        - (5) Tourism Potential
      - 2.2.5 Health
      - 2.2.6 Education
      - 2.2.7 Transport and Communication Network
      - 2.2.8 Administrative Facilities
    - 2.3 Geology
      - 2.3.1 Geomorphology
      - 2.3.2 Local Geology
      - 2.3.3 Hydrology and Meteorology
      - 2.3.4 Hydraulics
      - 2.3.5 Hazard/Risk assessment of the alternatives
    - 2.4 Protection Measures
      - 2.4.1 Slope Protection
      - 2.4.2 Erosion Control
      - 2.4.3 Soil Conservation Measures
      - 2.4.4 River Training Works
    - 2.5 Traffic Data
      - 2.5.1 Existing roads/tracks/bridges (foot bridge also), traffic count & its reliability for analysis.
      - 2.5.2 Adjustment of traffic data in comparison of given influence population & surplus of the production.
      - 2.5.3 Passenger car unit & traffic forecast
    - 2.6 Materials Availability Data
    - 2.7 Environmental Data
    - 2.8 People's participation in Road Construction
    - 2.9 Property Acquisition
    - 2.10 Engineering Study
      - 2.10.1 Category of road & norms of road/geometric characteristic of road
      - 2.10.2 Fixing of control points, crow fly length, theoretical/practical length of alternatives
      - 2.10.3 Alignment study during the desk study
      - 2.10.4 Adjustment of alternatives after field study (giving the field data)
      - 2.10.5 Engineering comparison of the alternatives

- 
- 2.10.6 Structures/pavements of the road
  - 3. ECONOMIC ANALYSIS
    - 3.1 Construction cost
    - 3.2 Maintenance cost
    - 3.3 Road user costs (accident cost & VOC)
    - 3.4 Net and gross costs
    - 3.5 Benefit analysis
    - 3.6 Cost-benefit Ratio
    - 3.7 Economic internal rate of return
  - 4. CONCLUSIONS
    - 4.1 Methodology & factors affecting the ranking of the alternatives.
    - 4.2 Ranking of alternatives
    - 4.3 Discussions
    - 4.4 Conclusion
      - 4.4.1 General conclusions
      - 4.4.2 Specific conclusions
      - 4.4.3 Recommended alignment
      - 4.4.4 Feasibility for DoR undertaking
    - 4.5 Final recommendations

## REFERENCES

ANNEX: Team details / used equipment / software /spread sheets (if any)

### **Information to be included in the SALIENT FEATURES:**

- A. Name of project:
- B. Location:
  - B.1 Geographic Location (name of the district & chainage of the recommended alignment)
  - B.2 Starting point & end point of the alignment (obligatory points of the road with latitude /longitude and name of place)
  - B.3 Geographical feature
  - B.4 Terrain
  - B.5 Climate
  - B.6 Geology
  - B.7 Hydrology
  - B.8 Meteorology
- C. CLASSIFICATION OF ROAD
  - C.1 Classification
  - C.2 Surface
  - C.3 Suggested longitudinal grade
- D. CONNECTION WITH ROAD NETWORK
- E. ALIGNMENT DETAILS
  - E.1 Previously surveyed alignment

| Firm's Name & Date   | Alignment -1 |             | Alignment -2 |             | Alignment -3 |             |
|----------------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                      | Route        | Length (km) | Route        | Length (km) | Route        | Length (km) |
| Name of district     |              |             |              |             |              |             |
| Chainage (from - to) |              |             |              |             |              |             |

- E.2 Present survey  
(giving the recommended alignments)

| Firm's Name & Date | Alignment -1 |             | Alignment -2 |             | Alignment -3 |             |
|--------------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                    | Route        | Length (km) | Route        | Length (km) | Route        | Length (km) |
| Name of district   |              |             |              |             |              |             |

|                      |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|
| Chainage (from - to) |  |  |  |  |  |  |
|----------------------|--|--|--|--|--|--|

F. STRUCTURES  
(giving the recommended alignment)

| S No    | Structures           | Alignment -1 | Alignment -2 | Alignment -3 |
|---------|----------------------|--------------|--------------|--------------|
| F.1     | Culverts             |              |              |              |
| F.1.1   | Slab Culverts        |              |              |              |
| F.1.1.1 | Span                 |              |              |              |
| F.1.1.2 | Number               |              |              |              |
| F.1.2   | Pipe Culverts        |              |              |              |
| F.1.2.1 | Diameter             |              |              |              |
| F.1.2.2 | Number               |              |              |              |
| F.1.3   | Drifts               |              |              |              |
| F.1.3.1 | Type                 |              |              |              |
| F.1.3.2 | Number               |              |              |              |
| F.2     | Bridges              |              |              |              |
| F.2.1   | Minor Bridges        |              |              |              |
| F.2.1.1 | Span                 |              |              |              |
| F.2.1.2 | Number               |              |              |              |
| F.2.2   | Medium Bridges       |              |              |              |
| F.2.2.1 | Span                 |              |              |              |
| F.2.2.2 | Number               |              |              |              |
| F.2.3   | Major Bridges        |              |              |              |
| F.2.3.1 | Span                 |              |              |              |
| F.2.3.2 | Number               |              |              |              |
| F.3     | Retaining Structures |              |              |              |
| F.3.1   | Gabion Wall          |              |              |              |
| F.3.1.1 | Height Range         |              |              |              |
| F.3.1.2 | Thickness Range      |              |              |              |
| F.3.1.3 | Length               |              |              |              |
| F.3.2   | Stone Masonry        |              |              |              |
| F.3.2.1 | Height Range         |              |              |              |
| F.3.2.2 | Thickness Range      |              |              |              |
| F.3.2.3 | Length               |              |              |              |

G. CROSS -SECTION

- (1) Right of way
- (2) Formation width
- (3) Carriage way width
- (4) Shaller width
- (5) Side drain (top width)

H. PAVEMENT

H.1 Sub-base:

- (1) Materials
- (2) Thickness

H.2 Base

- (1) Materials
- (2) Thickness

H.3 Surface :

- (1) Type
- (2) Thickness

H.4 Sealing :

- (1) Type

(2) Thickness

I. TOTAL TRANSPORT COST  
(state the recommended alignment)

| S No      | Particulars                                    | Alignment-1 | Alignment-2 | Alignment-3 |
|-----------|------------------------------------------------|-------------|-------------|-------------|
| I.1       | Study & research cost                          |             |             |             |
| I.2       | Property acquisition cost                      |             |             |             |
| I.3       | Construction cost                              |             |             |             |
| I.3.1     | Earthwork                                      |             |             |             |
| I.3.1.1   | Cutting                                        |             |             |             |
| I.3.1.3   | Filling                                        |             |             |             |
| I.3.2     | Pavement                                       |             |             |             |
| I.3.2.1   | Sub-base                                       |             |             |             |
| I.3.2.2   | Base                                           |             |             |             |
| I.3.2.3   | Surface                                        |             |             |             |
| I.3.3     | Structures                                     |             |             |             |
| I.3.3.1   | Culverts                                       |             |             |             |
| I.3.3.2   | Bridges                                        |             |             |             |
| I.3.3.3   | Retaining structures                           |             |             |             |
| I.3.3.4   | Side drains                                    |             |             |             |
| I.3.4     | Other work (site clearance /road safety, etc.) |             |             |             |
| I.4       | Maintenance cost                               |             |             |             |
| I.5       | Road user cost                                 |             |             |             |
| I.5.1     | Accident cost                                  |             |             |             |
| I.5.2     | Vehicle operating cost                         |             |             |             |
| Total NRS |                                                |             |             |             |

J. ECONOMIC ANALYSIS  
(state the recommended alignment)

| S No  | Particulars             | Alignment -1 | Alignment -2 | Alignment -3 |
|-------|-------------------------|--------------|--------------|--------------|
| J.1   | Net Cost                |              |              |              |
| J.1.1 | Total                   |              |              |              |
| J.1.2 | Rate per Km             |              |              |              |
| J.2   | Gross Cost              |              |              |              |
| J.2.1 | Total                   |              |              |              |
| J.2.2 | Rate per Km             |              |              |              |
| J.3   | Benefit                 |              |              |              |
| J.4   | Cost-benefit ratio      |              |              |              |
| J.5   | Internal rate of return |              |              |              |

K. RECOMMENDED ALIGNMENT

K.1 Alignment Number

K.2 Reasons

## Section 6: Standard Form of Contract

### MEMORANDUM OF AGREEMENT

(To be filled up after the Contract is awarded)

**THIS AGREEMENT**, made on the (Date).....between Government of Nepal, Department of Roads, Planning and Design Branch, Planning Monitoring and Evaluation Unit (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. **Feasibility Study of .....** the following road(s) 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 road |
|--------------|------------------|
|              |                  |

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
  - Conditions of Contract
  - 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 | On behalf of the Firm |
|-----------------------------|-----------------------|
| Witness                     | Witness               |
| 1       -----               | 1       -----         |
| 2       -----               | 2       -----         |