



Aathbiskot Municipality
Office of the Municipal Executive
Karnali Province
Radijiula, Rukum (West)

Request for Proposals (RFP)

Title of Consulting Services:-

Detailed Engineering Survey, Design, Drawing and Cost Estimate of **different Rural Road**
Project Name:

Preparation of DPR of different Roads

Office Name: *Aathbiskot Municipality*

Office Address: *Radijiula, Rukum (West)*

July, 2019



Aathbiskot Municipality
Office of Municipal Executive
Karnali Province
Radijiula, Rukum (West)

Letter of Invitation

Date: 21th July, 2019

1. Aathbiskot Municipality, Rukum (West) has allocated fund toward the cost of detail survey, Design, Drawing and Cost Estimate of Road and intends to apply a portion of this to eligible payments under this Contract.
2. Aathbiskot Municipality, Rukum (West) now invites proposals to provide the following consulting services: Detailed survey, investigation and design of detail survey, Design, Drawing and Cost Estimate of Road. More details on the services are provided in the attached Terms of Reference.
3. A consultant will be selected under Quality and Cost Based System (QCBS) and procedures described in this RFP.
4. The RFP includes the following documents:
 - Section 1 - Letter of Invitation
 - Section 2 - Information to Consultants
 - Section 3 - Technical Proposal - Standard Forms
 - Section 4 - Financial Proposal - Standard Forms
 - Section 5 - Terms of Reference
 - Section 6 - Standard Forms of Contract.
5. Please inform us, upon receipt:
 - (a) that you received the letter of invitation; and
 - (b) whether you will submit a proposal alone or in association.

Yours Sincerely,

.....
Ram Bahadur K.C
Act. Chief Administrative Officer



Section 2. Information to Consultants (ITC)

1. Introduction	<p>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.</p> <p>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.</p> <p>1.3 The consultants must familiarize themselves with local conditions and take them into account in preparing their proposals. To obtain firsthand 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>1.7.1 Without limitation on the generality of this rule, consultants shall not be hired under the circumstances set forth below:</p> <ol style="list-style-type: none"> 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. <p>1.7.2 Any previous or ongoing participation in relation to the assignment by the consultant, its professional staff or affiliates or associates under a contract with the GoN may result in rejection of the proposal. Consultants should clarify their situation in that respect with the Client before preparing the proposal.</p> <p>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:</p> <ol style="list-style-type: none"> a. defines, for the purposes of this provision, the terms set forth below as follows: <ol style="list-style-type: none"> 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.
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	<p>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;</p> <p>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;</p> <p>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</p> <p>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.</p> <p>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).</p> <p>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.</p>
2. Clarification & Amendment of RFP Documents	<p>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.</p> <p>2.2 At any time before the submission of proposals, the Client may, for any reason, whether at its own initiative or in response to a clarification requested by an invited consultant, amend the RFP. Any amendment shall be issued in writing through addenda. Addenda shall be sent by mail, cable, telex, facsimile, or electronic mail to all invited consultants and will be binding on them. The Client may at its discretion extend the deadline for the submission of proposals.</p>
3. Preparation of Proposal	<p>3.1 Consultants are requested to submit a proposal Sub-Clause 1.2 written in the language(s) specified in the Data Sheet.</p>
Technical Proposal	<p>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.</p> <p>3.3 While preparing the Technical Proposal, consultants must give particular attention to the following:</p> <ol style="list-style-type: none"> 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.



	<p>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.</p> <p>v. Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) may be submitted for each position.</p> <p>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.</p> <p>3.4 The Technical Proposal shall provide the following information using the attached Standard Forms (Section 3):</p> <p>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, <i>inter alia</i>, the client, location and duration of the assignment, contract amount, and consultant's involvement.</p> <p>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).</p> <p>iii. A description of the methodology and work plan for performing the assignment (Section 3D).</p> <p>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).</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>viii. Any additional information requested in the Data Sheet.</p> <p>3.5 The Technical Proposal shall not include any financial information.</p>
Financial Proposal	<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 laws 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>
4. Submission, Receipt, and Opening of Proposals	<p>4.1 The original proposal (TP andFP) shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the consultant itself. Any such corrections must be initialled by the persons or person who sign(s) the proposals.</p> <p>4.2 An authorized representative of the Consultants shall initial all pages of the original</p>



	<p>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 “ORIGINAL” or “COPY” 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 “Technical Proposal,” and the original and all copies of the Financial Proposal in a sealed envelope clearly marked “FINANCIAL PROPOSAL” and warning: “DO NOT OPEN WITH THE TECHNICAL PROPOSAL.” Both envelopes shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address and other information indicated in the Data Sheet and be clearly marked, “DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE.”</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>
5. Proposal Evaluation	
General	<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>
Evaluation of Technical Proposals (QCBS,QBS,FB S, LCBS)	<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 technical score indicated in the Data Sheet.</p> <p>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.</p>
Public Opening and Evaluation of Financial Proposals (CBS Only)	<p>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.</p>
Public Opening and Evaluation of Financial Proposals (QCBS , FBS,LCBS)	<p>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</p>



	<p>opening date shall be 7 after the notification date. The notification may be sent by registered letter, cable, telex, facsimile, or electronic mail.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5.11 In case of QCB Sand FBS with financial proposal within specified fixed budget ceiling, the lowest Financial Proposal (Fm) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposal will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; T + P = 1) indicated in the Data Sheet: $S = St \times T\% + Sf \times P\%$. The consultant achieving the highest combined technical and financial score will be invited for negotiations.</p>
6. Negotiations	<p>6.1 Negotiations will be held at the address indicated in the Data Sheet. The aim is to reach agreement on all points and sign a contract.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
7. Award of Contract	<p>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 its intention to accept the proposal to the selected consultant and other</p>



	<p>short-listed consultants within 7 days of selection of the winning proposal.</p> <p>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 its intention to accept the winning proposal pursuant to Sub Clause 7.1.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>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.</p> <p>7.7 The Client shall return the unopened Financial Proposals of those consultants who did not pass the technical evaluation.</p> <p>7.8 The consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.</p>
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	<p>9.1 The Consultant shall be responsible to fulfil his obligations as per the requirement of the Contract Agreement, RFP documents and GoN's Public Procurement Act and Regulations.</p> <p>9.2 The consultant shall not carry out or cause to carry out the following acts with an intention to influence the implementation of the procurement process or the procurement agreement :</p> <ol style="list-style-type: none"> a. give or propose improper inducement directly or indirectly, b. distortion or misrepresentation of facts c. engaging or being involved in corrupt or fraudulent practice d. interference in participation of other prospective bidders. e. coercion or threatening directly or indirectly to impair or harm, any party or the property of the party involved in the procurement proceedings, f. collusive practice among consultants before or after submission of proposals for distribution of works among consultants or fixing artificial/uncompetitive proposal price with an intention to deprive the Client the benefit of open competitive proposal price. g. contacting the Client with an intention to influence the Client with regards to the proposals or interference of any kind in examination and evaluation of the proposals during the period after opening of proposals up to the notification of award of contract
10. Blacklisting Consultant	<p>10.1 Without prejudice to any other rights of the Employer under this Contract , the Public Procurement Monitoring Office may blacklist a Consultant for his conduct up to three years on the following grounds and seriousness of the act committed by the consultant:</p> <ol style="list-style-type: none"> 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



	<p>clause 7.3,</p> <ul style="list-style-type: none">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 contractd) 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 <p>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.</p>
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Information to Consultants (ITC)

DATA SHEET

Reference Clause	Particulars
1.1	The name of the Client is: Aathbiskot Municipality Radijiula,Rukum (West) The method of selection is: Quality and cost Based Selection (QCBS)
1.2	The name, objectives, and description of the assignment are: Name : Detailed Survey, Design, Drawing and Cost Estimate of Road Objectives: The objective of the consulting services is to conduct a detailed engineering survey of the proposed road, prepare detailed design and cost estimates for the construction of the ring road. The consultant is required to perform the following job. a. Review existing reports (if any), mainly alignment study standards and specification. b. Choose economically feasible alignment within the study corridor. c. Prepare the topographical map of the corridor. d. Detailed engineering survey of the alignment and its corridor. e. Conduct hydrological studies for cross drainage works and fixing of embankment height. f. Design the road detail in corporation. g. Prepare working drawings. h. Preliminary cost estimates with analysis of rates. i. Prepare survey and design report.
1.3	A pre-proposal conference will be held: No The name(s), address(es), and telephone numbers of the Client's official(s) are: Name: Aathbiskot Municipality Address: Radijiula,Rukum (West) Telephone No. :
1.4	The Client will provide the following inputs: NONE
1.10	The clauses on fraud and corruption in the Contract are: As prevailing Laws of Nepal
2.1	Clarifications may be requested 7 (SEVEN) days before the submission date. The address for requesting clarifications is: Aathbiskot Municipality,Radijiula,Rukum (West)
3.1	Proposals should be submitted in the following language(s): English
3.3	(i) Short listed consultants/entity may associate with other short listed consultants: No (ii) The estimated number of professional staff-months required for the assignment is: As per the Terms of Reference(ToR) (iii) The minimum required experience of proposed professional staff is: As per the ToR (iv) Reports that are part of the assignment must be written in the following language(s): English
3.4	Training is a specific component of this assignment: No Additional information in the Technical Proposal includes: NA
3.9	Proposals must remain valid 90 days from deadline of the submission date.
4.3	Consultants must submit an original and one additional copies of each proposal
4.4	The proposal submission address:



	<p>Aathbiskot Municipality, Karnali Province Radijiula,Rukum (West) Information on the outer envelope should also include : Proposal for: Detailed Survey, Design, Drawing and Cost Estimate of different Road at Aathbiskot Municipality Name of Road Project:- Preperition of DPR of different Roads</p>														
4.5	Proposals must be submitted no later than: August 20, 2019														
5.1	The address to send information to the Client is: <i>Aathbiskot Municipality,Radijiula, Rukum (West)</i>														
5.3	<p>The number of points to be given under each of the evaluation criteria are:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right; width: 20%;">Points</th> </tr> </thead> <tbody> <tr> <td>A. Specific experience of the consultants related to the assignment</td> <td style="text-align: right;">[15]</td> </tr> <tr> <td>B. Adequacy of the proposed work plan and methodology in responding to the Terms of Reference</td> <td style="text-align: right;">[30]</td> </tr> <tr> <td>C. Qualifications and competence of the key staff for the Assignment</td> <td style="text-align: right;">[40]</td> </tr> <tr> <td>D. Technology transfer and or training</td> <td style="text-align: right;">[5]</td> </tr> <tr> <td>E. Equipments/Vehicle</td> <td style="text-align: right;">[10]</td> </tr> <tr> <td style="text-align: center;">Total Points:</td> <td style="text-align: right;">100</td> </tr> </tbody> </table> <p>The number of points to be given under each evaluation sub criteria for qualifications of staff are:as in the ANNEX to this ITC The minimum technical score required to pass:70.0</p>		Points	A. Specific experience of the consultants related to the assignment	[15]	B. Adequacy of the proposed work plan and methodology in responding to the Terms of Reference	[30]	C. Qualifications and competence of the key staff for the Assignment	[40]	D. Technology transfer and or training	[5]	E. Equipments/Vehicle	[10]	Total Points:	100
	Points														
A. Specific experience of the consultants related to the assignment	[15]														
B. Adequacy of the proposed work plan and methodology in responding to the Terms of Reference	[30]														
C. Qualifications and competence of the key staff for the Assignment	[40]														
D. Technology transfer and or training	[5]														
E. Equipments/Vehicle	[10]														
Total Points:	100														
5.8	The fixed Budget Ceiling for the assignment is : NOT APPLICABLE														
5.10	<p>The formula for determining the financial scores is the following: [Either $S_f = 100 \times F_m/F$, in which S_f is the financial score, F_m is the lowest price and F the price of the proposal under consideration, or another proportional linear formula] The weights given to the technical and Financial Proposals are: T (Technical Proposal) = 0.8, and P (Financial Proposal) = 0.2</p>														
6.1	The address for negotiations is: <i>Aathbiskot Municipality,Aathbiskot,Rukum (West)</i>														
7.6	The assignment is expected to commence on:														

**Annex: Information to Consultants 5.3**

The number of points to be given under each of the evaluation criteria are:

S.N	Evaluation Basis	Marks/ Points	
1	Specific experience of the consultants related to the assignment (Last Seven years)	15	
i	Road length more than 30 km (may be more than one package but must be in a single contract)	2 marks for each	
ii	Road length below 30 km	1 mark for each	
iii	No relevant assignments	0	
2	Adequacy of the proposed work plan and methodology in responding to the Terms of Reference (ToR)	30	
2.1	Work Plan Adequacy of the proposed work plan and methodology in responding to the Terms of Reference and CPM or Bar chart with milestones in sequential way :10	Very Good	10
		Good	7
		Otherwise	0
2.2	Methodology Description of details methodology of carrying out survey, design and comments inclusion procedure on draft report: 10	Very Good	10
		Good	7
		Otherwise	0
2.3	Understanding of subject matter with comments on ToR If found fully understood the subject matter and critical comments on ToR: 10	Fully understood	10
		Fairly understood	7
		Otherwise	0
3	Qualifications and competence of the key staff for the Assignment	40	
3.1	Transportation / Highway/Design Engineer (Team Leader)	15	
3.1.1	General Qualification	10	
i	MSc in Transportation / Highway Engineering or equivalent +5 yrs. or more experience	10	
ii	MSc in Transportation / Highway Engineering or equivalent + 3-5 yrs experience	5	
iii	Otherwise	0	
3.1.2	Specific Experience	5	
I	Involved in 5 or more assignments of Road survey	5	
Ii	Involved in 3-4 assignments of Road survey	3	
Iii	Otherwise	0	
3.2	Geo-Tech Engineer / Engineering Geologist	5	
3.2.1	General Qualification	3	
I	MSc in Geo-tech Engineering or Geology or equivalent + 5 yrs or more experience	3	
Ii	MSc in Geo-tech Engineering or Geology or equivalent + 3-5 yrs experience	2	
Iii	Otherwise	0	
3.2.2	Specific Experience	2	
I	Involved in 3 or more assignments of Feasibility study of Road	2	
Ii	Involved in 1 assignments of Feasibility study of Road	1	
Iii	Otherwise	0	
3.3	Hydrologist	5	
3.3.1	General Qualification	3	



I	MSc in Hydrology or equivalent + 5 yrs or more experience	3
Ii	MSc in Hydrology or equivalent + 3-5 yrs experience	2
Iii	Otherwise	0
3.3.2	Specific Experience	2
I	Involved in 3 or more assignments of Feasibility study of Road	2
Ii	Involved in 1 assignments of Feasibility study of Road	1
Iii	Otherwise	0
3.4	Civil Engineer	5
3.4.1	General Qualification	3
i	BE in Civil Engineering or equivalent + 3 yrs. or more experience	3
ii	BE in Civil Engineering or equivalent + 1 yrs experience	1
iii	Otherwise	0
3.4.2	Specific Experience	2
i	Involved in 3 or more assignments of Feasibility study of Road	2
ii	Involved in 1 assignments of Feasibility study of Road	1
iii	Otherwise	0
3.5	Senior Surveyor (2 Nos.)	10
3.5.1	General Qualification	2
i	Bachelor in Geomatics Engineering with minimum 1 yrs/Diploma in Civil/Survey Engineering or equivalent + 5 yrs or more experience	2
ii	Diploma in Civil/Survey Engineering or equivalent + 3 yrs experience	1
iii	Otherwise	0
3.5.2	Specific Experience	3
i	Involved in 5 or more assignments of Road survey	3
ii	Involved in 2-4 assignments of Road survey	2
iii	Otherwise	0
4.0	Technology Transfer and Training	5
	The idea of sharing know-how of the works highlights on dissemination of knowledge and training proposed by the consultant.	5
I	Significant description with charts/diagram/figures	5
Ii	Moderate with standard method of description	3
Iii	General	1
iv	Otherwise	0
5.0	Equipments/Vehicle	10
1	1.5 marks for 1 Total Station	3
2	0.5 mark for 1 GPS	1
3	3 marks for 1 Car/Jeep	3
4	1 mark for 1 motorcycle	3
Note 1: The VAT bill must be issued in the name of Company & the bill must be submitted with the proposal otherwise marks will be considered as Zero (Hiring of equipments/Vehicle will not be considered)		
Note 2: Certificate of the Key personnel must be submitted with their mob no. & E-mail ID otherwise the marks will be considered as Zero		



Section 3: Technical Proposal - Standard Forms

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



3A. TECHNICAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: Aathbiskot Municipality, Aathbiskot, Rukum (West)

Ladies/Gentlemen:

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

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

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

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Consultant:

Address:



3B. CONSULTANT'S REFERENCES

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

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

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

Consultant's Name: _____



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

On the Terms of Reference:

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



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



3E. TEAM COMPOSITION AND TASK ASSIGNMENTS

1. Technical/Managerial Staff		
Name	Position	Task



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

Proposed Position: _____

Name of Consultant: _____

Name of Staff: _____

Profession: _____

Date of Birth: _____

Years with Consultant/Entity: _____ Nationality: _____

Membership in Professional Societies: _____

Detailed Tasks Assigned: _____

Key Qualifications:

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

Education:

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

Employment Record:

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

Languages:

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

Certification:

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

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

Full name of staff member: _____

Full name of authorized representative: _____



3G. TIME SCHEDULE FOR PROFESSIONAL PERSONNEL

Name	Position	Reports Due/Activities	Weeks (in the Form of a Bar Chart)												Number of Weeks	
			1	2	3	4	5	6	7	8	9	10	11	12		
																Subtotal (1)
																Subtotal (2)
																Subtotal (3)
																Subtotal (4)

Full-time: _____
 Reports Due: _____
 Activities Duration: _____

Part-time: _____

Signature: _____
 (Authorized representative)

Full Name: _____

Title: _____

Address: _____



3H. ACTIVITY (WORK) SCHEDULE

A. Field Investigation and Study Items

	<i>[1st, 2nd, etc. are weeks from the start of assignment.]</i>								
Weeks	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th
Activity (Work)									

B. Completion and Submission of Reports

Reports	Date
1. Inception Report	
2. Preliminary Design Report	
3. Draft Report	
4. Final Report	



Section 4. Financial Proposal - Standard Forms

4A. Financial Proposal submission form.

4B. Schedule of Price

.



4A. FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: Aathbiskot Municipality, Radijiula, Rukum (West)

Ladies/Gentlemen:

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

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

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

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Consultant:

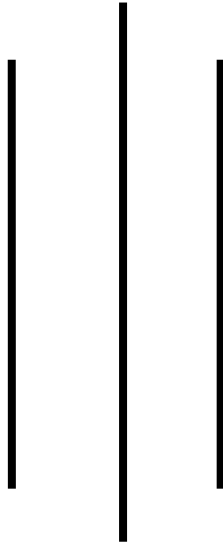
Address:



4B. Schedule of Price



Aathbiskot Municipality
Office of Municipal Executive
Karnali Province
Radijiula, Rukum (West)





Terms of Reference (ToR)

21th July, 2019



Section-5

Terms of Reference (ToR)

for

Consultancy Services for Detailed Engineering Survey, Design, Drawing and Cost Estimate of different road at Aathbiskot Municipality, Rukum (West)

1.0 BACKGROUND

The Aathbiskot Municipality, Radijiula, Rukum (West), (herein after referred "as"the Office"), intends to utilize services of engineering consulting firms well experienced in the fields of survey and design of road for providing engineering consulting services for Detail survey, drawing, Design and cost estimate and Detailed Project Report Preparation of **different road within Aathbiskot Municipality, Rukum (West)**

2.0 OBJECTIVES OF THE WORK

The main objective of the consulting services is to conduct a detail engineering survey of the proposed road, prepare detail design and cost estimate for the construction of the road. The consultant is required to perform the following jobs.

- ✓ Technical Studies: Assess the alignment feasibility with possible recommendation for low cost and local resources (manpower, technology and material) oriented road construction.
- ✓ Detail Engineering survey of the alignment and its corridor
- ✓ Conduct hydrological studies for cross drainage works and fixing of embankment height
- ✓ Design the road detail on corporation
- ✓ Prepare working drawings
- ✓ Prepare cost estimates with analysis of rates
- ✓ Prepare survey and design reports
- ✓ Prepare Bidding Document
- ✓ Prepare Bill of quantities

3.0 SCOPE OF WORK

The consultant shall carry out the necessary field works along the alignment. The consultant shall be responsible for accuracy, interpretation, analysis of all data received and for the conclusion and recommendations in their report. The scope of work to be carried out by the consultant shall include but may not be limited to the following:

3.1 Desk Study

A desk study should be carried out, collecting all data, maps and information relevant to survey and design of the road and reviewing for planning of field survey and investigation works.

3.2 Field Study and Survey

The scope of work to be carried out by the consultant during field study and survey shall include but may not be limited to the following:

3.2.1 Detailed Engineering Survey:

- Fixing of road alignment by setting out intersection point (IP) and intermediates points.
- Establishment of Bench Marks (BM) and other reference points.



- Taking longitudinal section (LS) and cross section (CS) using appropriate methods.

Cross Section should be taken at LS 10-25 m interval depending upon the terrain and 2-5m interval across the alignment, 10-15 m both side from the centre-line.

Conduct the chain survey

3.2.2 Engineering Study and Inventory Survey

- ROAD INVENTORY SURVEY
 - + Sub base Condition Survey (Visual Survey)
 - + Road Geometry Survey
 - + Existing structure Survey
 - + Side drains requirements Survey
 - + Cross drainage requirements Survey
 - + Retaining and protection work requirements Survey
 - + Terrain Survey
 - + Land use Survey
 - + The locations of settlements off the road structures electric poles, streams, and water taps within the area of the plan.
- CONSTRUCTION MATERIALS SURVEY
 - + Identification of potential sources (query sites)
 - + Investigation of existing road materials on sites.
- GEOLOGICAL SURVEY
 - + General geology of the region, project area and the proposed road corridor should be described and a geological map of the area be presented along with identification of major features, pertinent to the project.
 - + Nature, type and structure and surface soil of the area need to be clearly identified and further required investigations listed.
 - + Whenever applicable, slope stability analyses of the representative site need to be carried out and the finding and recommendation be given
 - + The location of debris flow and other possible obstruction to the road alignment.
- HYDROLOGICAL AND METEOROLOGICAL STUDIES
 - + Climatic study: General climatic study of the area should be carried out and all relevant meteorological (Rainfall and Temperature) data and recommendation shall be presented.
 - + Study of the river and river system: The river system of the area should be described in the report. Preferably a river system map of the catchment's area and beyond (whenever applicable) should be produced.
 - + At least one cross-section of river at each crossing should be produced. In the cross section all bed and bank characteristics should be mentioned.
 - + Assessment of flood pattern and preliminary estimation of discharges should be carried out. Similarly, expected HFL shall be fixed as far as applicable.
 - + Information necessary for the design of the side drain and protection works as well as preliminary design of cross drainage structure shall be produced.



3.3 Design and Drawings

The scope of work to be carried out by the consultant and activities covered by design and reporting work shall include but may not be limited to the following:

3.3.1 Design of Road and Prepare Working Drawings

- Calculate and plot the reduced ground level of longitudinal and cross section.
- Design the most economical road profile by balancing the volume of cut and fill to the nearest.
- Design horizontal and Vertical Curves.
- As per the engineering design, prepare the drawings of roads plan indicating the coordinate of IPs and profile (Longitudinal)
- Prepare the roads typical cross section with the pavement details.

3.3.2 Design of Road Side Structure and Prepare Working Drawings

- Design of appropriate road side structures
- Prepare the Drawings for above road side structures
- Prepare site plan

3.4 Prepare Bill of Quantities

- Prepare Rate analysis
- Prepare Cost estimate
- Prepare abstract of cost, Material & labour Schedules
- Prepare quality assurances Plan

3.5 Prepare and Submit Reports

In accordance with GoN's standard procedures the consultant shall submit his report as follows:

- **Draft Report**

Prepare project report by including the documents (Design, Drawings, BOQ, Cost estimate and others) prepared for Road.

One copy of the draft report shall be submitted within **1.5 months** from the date of contract agreement.

- **Final Report**

Two copies of the final report shall be submitted within 10 days from the date of comment issue from the client. The final report shall include the rectified form of the draft report incorporating all the suggestion from client. The final report shall also be submitted in one set digital copy also for the record for client.

4.0 GUIDELINES FOR EXECUTION OF CONSULTING SERVICES

4.1 GENERAL

The consultant shall carry out the necessary field works along the alignment (approved by the DoLIDAR) established in preliminary report alignment/feasibility study report in order to determine the accurate centerline location. Before mobilization of survey team to the field, the consultant shall have to consult to Aathbiskot Municipality, Rukum (West). The alignment, to be surveyed shall be located in available Topographical map (scale not less than 1:50000) according to the previous report (if any, should be referred). The team personal to mobilized for fieldwork & work schedule of fieldwork should be included in the preliminary report. The centerline should be set out with proper establishment of Bench Marks; No major deviations from the approved general alignment should be done without approval of the road. The consultant shall be responsible for the analysis and interpretation of the data.



4.2 Working Team:

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

- a. Transportation / Highway engineer (Team Leader)
- b. Geo-tech Engineer / Engineering geologist
- c. Hydrologist
- d. Civil Engineer
- e. Senior surveyor-2 nos

4.3 Engineering Details

4.3.1 Horizontal and vertical alignment of the road

The horizontal alignment of the road canter-line should be determine within the survey of proposed corridor of the optimum alignment between control points specified as a references the engineering investigation. Where road track exists, efforts should be made to adjusted alignment so as to match the original road track wherever possible. Cross Section should be taken at 10-20 m interval along the longitudinal sections and 2.5m interval across the alignment; 8 m both side from the centreline depending upon the terrain and section. Beginning and end of curves and then critical points as may be required should be fully define relative to the station of intersection points.

Vertical alignment should be determined with detailed calculation of earthwork quantities; Vertical curve should be properly designed.

4.3.2 Consideration of Environment Protection

While designing the horizontal and vertical alignment, the consultant are required to access the potential damage to the environment and attempt to mitigate or minimize such damage and suggest appropriate measure in design.

4.3.3 Engineering Drawings Details

The consultant will prepare the following plans and working drawings on suitable reports material using the format and title sheets as required by the engineer in charge.

- + Map of district demarcation showing the location of the road.
- + Map showing complete alignment with Kilometre, names of area, land use, village, ward, municipalities, name of natural drainage etc.
- + Location Map showing linkage of road the road with surrounding road network.
- + Map showing survey and design status of the complete road, intersection points, Benchmarks and other references points.
- + Plan, Profile (Longitudinal Section) and Cross- Section in the following Scale.

<input type="checkbox"/>	Plan	-	1:1000
<input type="checkbox"/>	Horizontal Profile	-	1:1000
<input type="checkbox"/>	Vertical Profile	-	1:200
<input type="checkbox"/>	Cross Section	-	1: 200

Intersection Points (IP) Bench Marks (BM) and other reference points

- a) Plans and profile of the road should contain details of geometric (horizontal alignment with coordinate of IP, deflection angel distance IP to IP, curve data, chainage of IP etc.,) Index (of IP, BM, Km post); names of the VDC or municipalities, district forest, land-use pattern, cross-drainage structures, retaining required of as instructed by engineer in charge.
- b) Hydrological, meteorological & geological maps of the road.
- c) Reference charts of all intersection points (IP), Benchmarks (BM) & other reference points.
- d) Bridge Survey details as per the checklist for detail engineering survey of the bridge



- e) Property acquisition plans showing right of way with sufficient details to permit the completion of property acquisition if applicable.
- f) Standard drawing or mentioned cross drainage structures, retaining/breast wall, Side drain (lined/unlined), typical cross-section of road (according to type of soil viz. HR, SR, BMS etc.) passing zone (if provided), hairpin bend (if provided).
- g) Plan of the road should contain details of Major intersections (road crossings, village entrances, entrances to given city internal roads, etc.) green belts, lay byes, taxis/Rickshaw stands, bus park stands at appropriate intervals along the proposed road alignment.

4.3.4 Liaison with Engineer In-charge

The consultants are required to maintain close liaison with the engineer in charge. Draft design proposals for alignment, earth work and pavement design, structures and other technical aspects of the design shall be discussed with the Engineer in charge for approval prior to proceeding with the detailed design and drawings.

5.0 Time Schedule

The work shall be completed within **1.5 month** from the date of agreement. The consultant is thus instructed to follow the work schedule below:

S. N	Work Description	No. of days
1	Desk study, preparation of secondary data collection, preparation of check list	6
2	Detail feasibility study, detailed Labour & Material Survey, detail engineering survey and hydrological, geological, environment and social data collection	30.0
3	Detail Draft Design study	7.0
4	Submission of Draft Report (design, Drawings, BOQ, Cost estimate and others) prepared for Road	10.0
5	Submission of final report (After Submission of Draft Report)	7.0

The consultant shall complete the assigned works as per the following schedule:

- ✓ Draft Report within 45 days started from the date of signing of the agreement.
- ✓ Final Report within 7 days after receiving Aathbiskot Municipality, Rukum (West) Comments on the draft report.

6. Engineering Design Calculation

All engineering design must be shown with calculation the formula should be described properly declaring the meaning and source of variable constants and multiplication factors should be referenced and justified.

7. Report

The consultants shall submit copies of the reports as follows.

- a) Draft report 1 (One) copies
- b) Final report 2 (Two) copies and soft copy

The format of the report should be as prescribed in this TOR (Appendix "A₁, A₂& A₃") however; the consultant must take prior approval of the outline of report from the engineer in charge.



8. Use of Computer

Consultants are encouraged to use computers and appropriate advance software. . Further, the reports should contain adequate information on methodology adopted in the program, summarized flow diagram, description of formula used in the program, data required for input the results obtained in output etc. It does not, however apply to word processing software, but formula used in spreadsheet must be described. The consultant should have to submit the Pen drive/CD (electronic copy) of data of alignment (plan, profile & of cross section) compatible for MS Word, MS Excel, Auto cad and other relative software.

9. Payment Schedule

Payments will be made upon the submission of Consultant's invoices according to the following schedule:

Mode of Payment	Percentage of Payment
First instalment: Submission of Inception Report	20
Second instalment: Submission of Preliminary Design Report final report incorporating the comments	30
Third instalment: Submission of Draft Report	30
Fourth and Final instalment: Approval of Final Report incorporating comments by the client	20
Total	100

10. ANNEX



Annex-A1

REPORT FORMAT

CONTENTS

ACKNOWLEDGEMENT

SYNOPSIS

SALIENT FEATURES

CONTENTS

LIST OF TABLES

LIST OF FIGURES

CHAPTER

1. INTRODUCTION

- 1.1 Introduction
- 1.2 Geomorphology & geology
- 1.3 Hydrology & meteorology

2. GEOMETRIC DESIGN STANDARDS

- 2.1 Road classification, traffic and loading
- 2.2 Design speed
- 2.3 Horizontal curves
 - 2.3.1 Minimum radius of curves
 - 2.3.2 Super elevation
 - 2.3.3 Transit curves
 - 2.3.4 Extra widening
 - 2.3.5 Vertical curves
- 2.4.1 Minimum radius
- 2.4.2 Gradient
- 2.5 Sight distance
- 2.6 Lateral and vertical clearance
- 2.7 Right of way
- 2.8 Sign posts

3. ALIGNMENT SURVEY

- 3.1 Survey Procedure
- 3.2 Alignment description
- 3.3 Bench marks and other reference points
- 3.4 Materials survey

4. DESIGN

- 4.1 Horizontal alignment
- 4.2 Vertical alignment
- 4.3 Cross section design
- 4.4 Drainage
- 4.5 Pavement design
- 4.6 Retaining structure
- 4.7 Road side development
- 4.8 Measure for environment protection

5. QUANTITY SURVEY AND COST ESTIMATE

- 5.1 Project Costs
 - 5.1.1 Summary of cost
 - 5.1.2 Cost of site clearance
 - 5.1.3 Cost of earth work
 - 5.1.4 Cost of cross drainage work



- 5.2 Cost of pavement construction
- 5.3 Details of measurement
- 5.4 Quantity estimate of material & equipment
- 5.5 Manpower estimate
- 5.6 Analysis of rates
- 5.7 Availability of materials
- 5.8 Availability of manpower

6. CONCLUSIONS

- 6.1 General conclusions
 - 6.1.1 General conclusions
 - 6.1.2 Specific conclusions
- 6.2 Discussions
- 6.3 Recommendations

7. REFERENCES

8. APPENDICES

- 9. TEAM DETAILS/USED EQUIPMENT/SOFTWARE. SPREADSHEET etc.



(Appendix "A2")

Summary of Salient Features

- 1. Name of Project**
- 2. Location**
 - 2.1 Geographical location
 - 2.2 Geographical features
 - 2.3 Terrain
 - 2.4 Climate
 - 2.5 Geology
- 3. CLASSIFICATION OF ROAD**
 - 3.1 Classification
 - 3.2 Surface
- 4. LENGTH OF ROAD & ITS LOCATION**
 - 4.1 Previously Surveyed**
 - 4.1.1 Starting point (with latitude/longitude & name of place)
 - 4.1.2 End Point (with latitude/longitude & name of place)
 - 4.1.3 Date of completion of survey
 - 4.1.4 Consultant's name
 - 4.1.5 Length
 - 4.1.6 District name & Ch (from – to)
 - 4.2 Present survey**
 - 4.2.1 Starting point (with latitude/longitude & name of place)
 - 4.2.2 End point (with latitude/longitude & name of place)
 - 4.2.3 Length
 - 4.2.4 District name & Ch (from –to)
 - 4.3 To be surveyed**
 - 4.3.1 Starting point (with latitude/longitude & name of place)
 - 4.3.2 End point (with latitude/longitude & name of place)
 - 4.3.3 Length
 - 4.3.4 District name & Ch (from – to)
- 5. ALIGNMENT SURVEYED**
- 6. CROSS SECTION**
 - 6.1 Right of way
 - 6.2 Formation width
 - 6.3 Carriage way width
 - 6.4 Shoulder width
 - 6.5 Side drain shape and size
- 7. PAVEMENT**
 - 7.1 Sub base Material & thickness
 - 7.2 Base Material & thickness
 - 7.3 Surface Type & thickness
 - 7.4 Sealing Type & thickness



8. STRUCTURES

8.1	Culverts	
	Slab culverts	Number and span
	Pipe culverts	Diameter and number
8.2	Bridges	
	Minor bridge	Number and span
	Medium bridge	Number and span
	Major bridge	Number and span
8.3	Retaining structures	
	Gabion walls	Height range, thickness range and total length
	Stone masonry	Height range, thickness range and total length
	Dry stone masonry	Height range, thickness range and total length

9. VOLUME OF CONSTRUCTION

9.1	Earth work	Cutting and filling
9.2	Pavement	Volume of sub base, and surface

10. PROJECT COST

10.1	Net cost
10.2	Total cost & rate per km
10.2	Cross Drainage work cost .



(Appendix "A3")

PROJECT COST SUMMARY FORMAT

S.N.	Major head	Unit	Quantity	Cost in NRs	Remarks
1	Study research & survey	KM			
2	Property acquisition	KM			
	a) Land	Hectare			
	b) Houses	No			
3	Construction cost				
	a) Earth work	KM			
	i) Cutting	M ³			
	ii) Filling	M ³			
	b) Retaining structure (dry/gabion/cement masonry)	M ³			
	c) Drain & cross drain				
	i. Culvert	No			
	ii. Cause way	No			
	iii. Unlined drain	KM			
	iv. Lined drain	KM			
	v. Bridges with span, named	M			
	d) Pavement	KM			
	a. Sub base course	M ²			
	b. Base course	M ²			
	c. Surface course	M ²			
	e) Slope stabilization & environment cost	KM			
	f) Equipment & spare parts	LS			
	Sub total of 3				
4	Miscellaneous (10% of 3)	LS			
	a) Camp establishment	LS			
	b) Quality control (2% of 3)	KM			
	c) Maintenance during construction	LS			
	d) Consultancy services	KM			
	e) Road safety				
5	Administration cost (5% of 3)				
	Total Project Cost				