

Government of Nepal
Ministry of Physical planning and Works
Department of Roads
Saljhandi-Sandhikharka-Dhorpatan Road Project
Sandhikharka, Arghakhanchi

Request for Proposal (RFP)

for

Detailed Engineering Survey, Design and Cost Estimate of Saljhandi-Sandhikharka-Dhorpatan Road (Devasthan to Dhorpatan in Baglung District)

Contract No :- RFP1/068/69

Name of Consultant :-

Address:-

Phone no :-

December 2011

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Section 1. Letter of Invitation

Government of Nepal
Ministry of Physical Planning and Works
Department of Roads
Western Regional Road Directorate
Saljhandi – Sandhikharka – Dhorpatan Road Project, Sandhikharka, Arghakhanchi

Request for Proposals (RFPs)

(Date : 13th December,2011)

1. With regard to Eol notice , Published by the office of Saljhandhi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi in the “Annapurnapost National Daily” on 28th kartik, 2068 for “Detailed Engineering Survey, Design and Cost Estimate of Saljhandi-Sandhikharka-Dhorpatan Road. It is hereby noticed to all the concerned that the following consulting firms have been short listed and RFP has been invited from the shortlisted consultants.

| S.N. | Name of the Firms |
|-------------|--|
| 1 | Group of Engineers’ Consortium and ECoCoDE Nepal(P) Ltd Jv, Lalitpur |
| 2 | MEH Consultant and CERC (P) Ltd Jv., Kathmandu |
| 3 | Civil Informatics and Solutions, Grid Nepal Design Associates and Appex Engineering & Management, Lalitpur |
| 4 | Fuji Int’l Design Associates in association with Leaser, Kathmandu |
| 5 | IMERC (P), Lalitpur |
| 6 | Beam Consultant (P) Ltd, Lalitpur |

2. The RFP can be obtained from the office of Saljhandi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi upon submission of a written application within 16:00 hours on or before 11th Janaury 2012. Alternatively, the RFP Document may also be downloaded from the DOR’s website <http://www.dor.gov.np>. The RFP document shall be submitted in a sealed envelope consisting of two separate envelopes for Technical & Financial proposals respectively and must be delivered to the office of Saljhandi-Sandhikharka-Dhorpatan Road Project office, Sandhikharka, Arghakhanchi on or before 12:00 hours of 12th Janaury 2012. Documents received after this deadline shall not be accepted. The technical proposal shall be opened on 12th Janaury 2012 at 13:00 pm. If the last date of submission of the RFP falls on a government holiday at Sandhikharka then the next working day shall be considered as the last day.

Project Chief

Section 2. Information to Consultants

1. Introduction

- 1.1 The Client named in the Data Sheet will select a consultant among those listed in the Letter of Invitation, in accordance with the method of selection specified in the Data Sheet.
- 1.2 The consultants are invited to submit a Technical Proposal and a Financial Proposal, for services as specified in the Data Sheet. The proposal will be the basis for contract negotiations and ultimately for a signed contract with the selected consultant.
- 1.3 The consultants must familiarize themselves with local conditions and take them into account in preparing their proposals. To obtain first hand information on the assignment and on the local conditions, consultants are encouraged to visit the Client before submitting a proposal and are advised to attend a pre-proposal conference if one is specified in the Data Sheet.
- 1.4 The Client will provide the inputs specified in the Data Sheet, assist the consultant in obtaining licences and permits needed to carry out the services, and make available relevant project data and reports.
- 1.5 Please note that (i) the costs of preparing the proposal and of negotiating the contract, including a visit to the Client, are not reimbursable as a direct cost of the assignment; and (ii) the Client is not bound to accept any of the proposals submitted.
- 1.6 GoN (or Donor Agency) policy requires that consultants provide professional, objective, and impartial advice and at all times hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflicts with other assignments or their own corporate interests. Consultants shall not be hired for any assignment that would be in conflict with their prior or current obligations to other clients, or that may place them in a position of not being able to carry out the assignment in the best interest of the Client.



- 1.7.1 Without limitation on the generality of this rule, consultants shall not be hired under the circumstances set forth below:
 - a. A consultant, which has been engaged by the Client to provide goods or works for a project, and any of their affiliates, shall be disqualified from providing consulting services for the same project. Conversely, consultants hired to provide consulting services for the preparation or implementation of a project, and any of their affiliates, shall be disqualified from subsequently providing goods or works or services related to the initial assignment (other than a continuation of the consultant's earlier consulting services) for the same project.
 - b. Consultants or any of their affiliates shall not be hired for any assignment which, by its nature, may be in conflict with another assignment of the consultants.
- 1.7.2 Any previous or ongoing participation in relation to the assignment by the consultant, its professional staff or affiliates or associates under a contract with the GoN may result in rejection of the proposal. Consultants should clarify their situation in that respect with the Client

before preparing the proposal.

- 1.8 It is the GoN's policy to require its implementing agencies, as well as consultants under GoN (or Donor Agency) financed contracts, to observe the highest standard of ethics during the selection and execution of such contracts. In pursuance of this policy, the GoN:
- a. defines, for the purposes of this provision, the terms set forth below as follows:
 - 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, for any reason, whether at its own initiative or in response to a clarification requested by an invited consultant, amend the RFP. Any amendment shall be issued in writing through addenda. Addenda shall be sent by mail, cable, telex, facsimile, or electronic mail to all invited consultants and will be binding on them. The Client may at its discretion extend the deadline for the submission of proposals.

3. Preparation of Proposal

Technical Proposal

3.1 Consultants are requested to submit a proposal Sub - Clause 1.2 written in the language(s) specified in the Data Sheet.

3.2 In preparing the Technical Proposal (TP), consultants are expected to examine the documents constituting this RFP in detail. Material deficiencies in providing the information requested may result in rejection of a proposal.

3.3 While preparing the Technical Proposal, consultants must give particular attention to the following:

- i. If a consultant considers that it does not have all the expertise for the assignment, it may obtain a full range of expertise by associating with individual consultant(s) and/or other consultants or entities in a joint venture or sub-consultancy, as appropriate. Consultants may associate with the other consultants invited for this assignment only with approval of the Client as indicated in the Data Sheet. Consultants must obtain the approval of the Client to enter into a joint venture with consultants not invited for this assignment.
- ii. For assignments on a staff-time basis, the estimated number of professional staff-months is given in the Data Sheet. The proposal shall, however, be based on the number of professional staff-months estimated by the consultant. For fixed-budget-based assignments, the available budget is given in the Data Sheet, and the Financial Proposal shall not exceed this budget.
- iii. It is desirable that the majority of the key professional staff proposed be permanent employees of the consultant or have an extended and stable working relationship with it.
- iv. Proposed professional staff must, at a minimum, have the experience indicated in the Data Sheet, preferably working under conditions similar to those prevailing in Nepal.
- v. Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) may be submitted for each position.
- vi. Reports to be issued by the consultants as part of this assignment must be in the language(s) as specified in the Data Sheet.



3.4 The Technical Proposal shall provide the following information using the attached Standard Forms (Section 3):

- i. A brief description of the consultant's organization and an

outline of recent experience on assignments (Section 3B) of a similar nature. For each assignment, the outline should indicate, *inter alia*, the client, location and duration of the assignment, contract amount, and consultant's involvement.

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

3.5 The Technical Proposal shall not include any financial information.

Financial Proposal

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

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

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



3.9 The Data Sheet indicates the required validity period of the proposals. During this period, the consultant is expected to keep available the professional staff proposed for the assignment. The Client will make its best effort to complete negotiations within this period. If the Client wishes to extend the validity period of the proposals, the consultants

who do not agree have the right not to extend the validity of their proposals.

4. Submission, Receipt, and Opening of Proposals

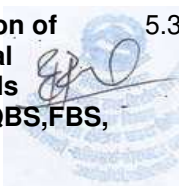
- 4.1 The original proposal (TP and FP) shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the consultant itself. Any such corrections must be initialed by the persons or person who sign(s) the proposals.
- 4.2 An authorized representative of the Consultants shall initial all pages of the original Technical and Financial Proposals. The authorization shall be in the form of a written power of attorney accompanying the Proposal.
- 4.3 For each proposal, the consultants shall prepare the number of copies indicated in the Data Sheet. Each Technical Proposal and Financial Proposal shall be marked "**ORIGINAL**" or "**COPY**" as appropriate. If there are any discrepancies between the original and the copies of the proposal, the original governs.
- 4.4 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "**Technical Proposal,**" and the original and all copies of the Financial Proposal in a sealed envelope clearly marked "**FINANCIAL PROPOSAL**" and warning: "**DO NOT OPEN WITH THE TECHNICAL PROPOSAL.**" Both envelopes shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address and other information indicated in the Data Sheet and be clearly marked, "**DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE.**"
- 4.5 The completed Technical and Financial Proposals must be delivered at the submission address on or before the time and date stated in the Data Sheet. Any proposal received after the closing time for submission of proposals shall be returned unopened.
- 4.6 After the deadline for submission of proposals, the Technical Proposal shall be opened immediately by the evaluation committee. The Financial Proposal shall remain sealed and deposited with the Client's Procurement Unit until all submitted proposals are opened publicly.

5. Proposal Evaluation

General

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

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



- 5.3 The evaluation committee, appointed by the Client as a whole, and each of its members individually, evaluates the proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria and point system specified in the Data Sheet. The evaluation committee shall compute the score obtained by each proposal by taking the average of the scores given by each member to the particular

proposal. Each responsive proposal will be given a technical score (St). A proposal shall be rejected at this stage if it does not respond to important aspects of the Terms of Reference or if it fails to achieve the minimum technical score indicated in the Data Sheet.

5.4 In the case of Quality-Based Selection, the highest ranked consultant is invited to negotiate its proposal and the contract on the basis of the Technical Proposal and the Financial Proposal submitted in accordance with the instructions given in para. 1.2 and the Data Sheet.

Public Opening and Evaluation of Financial 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 (Fm) will be given a financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; $T + P = 1$) indicated in the Data Sheet: $S = St \times T\% + Sf \times P\%$. The consultant achieving the highest combined technical and financial score will be invited for negotiations.



6. Negotiations

- 6.1 Negotiations will be held at the address indicated in the Data Sheet. The aim is to reach agreement on all points and sign a contract.
- 6.2 Negotiations will include a discussion of the Technical Proposal, the proposed methodology (work plan), staffing and any suggestions made by the consultant to improve the Terms of Reference. The Client and consultant will then work out final Terms of Reference, staffing, and bar charts indicating activities, staff, periods in the field and in the home office, staff-months, logistics, and reporting. The agreed work plan and final Terms of Reference will then be incorporated in the "Description of Services" and form part of the contract. Special attention will be paid to getting the most the consultant can offer within the available budget and to clearly defining the inputs required from the Client to ensure satisfactory implementation of the assignment.
- 6.3 Unless there are exceptional reasons, the financial negotiations will involve neither the remuneration rates for staff (no breakdown of fees) nor other proposed unit rates in the cases of QCBS methods. For QBS, the consultant should provide the information on remuneration rates described in the Appendix to this information.
- 6.4 Having selected the consultant on the basis of, among other things, an evaluation of proposed key professional staff, the Client expects to negotiate a contract on the basis of the experts named in the proposal. Before contract negotiations, the Client will require assurances that the experts will be actually available. The Client will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or that such changes are critical to meet the objectives of the assignment. If substitution is considered then the proposed alternative candidate shall be evaluated as per the original criteria. The qualification and experience of the substitute candidate shall equal to or higher than the originally proposed candidate. If this is not the case and if it is established that key staff were offered in the proposal without confirming their availability, the consultant may be disqualified.
- 6.5 The negotiations will conclude with a review of the draft form of the contract. . If negotiations fail, the Client will invite the consultant whose proposal received the second highest score to negotiate a Contract.

7. Award of Contract

- 7.1 Pursuant to Sub-Clause 6.5, the consultant, with whom agreement is reached following negotiation, shall be selected for approval of his proposal and the Client shall notify it's intention to accept the proposal to the selected consultant and other short-listed consultants within 7 days of selection of the winning proposal.
- 7.2 Any consultant, who has submitted a proposal and is not satisfied with the procurement process or Client's decision provided as per Sub - Clause 7.1 and believes that the Client has committed an error or breach of duty which has or will result in loss to him then the consultant may give an application for review of the decision to the Client with reference to the error or breach of duty committed by the Client. The review application should be given within 7 days of receipt of information regarding the issue of letter by the Client notifying it's intention to accept the winning proposal pursuant to Sub Clause 7.1.

- 7.3 If the review application is not received by the Client pursuant to Sub-Clause 7.2 then the proposal of the Consultant, selected as per Sub-Clause 7.1 shall be accepted and the successful consultant shall be notified to come for signing the Agreement within 15 days.
- 7.4 If the Consultant fails to sign an agreement pursuant to Sub-Clause 7.3 then the Client will invite the consultant whose proposal received the next highest score to negotiate a contract.
- 7.5 If a review application is received by the Client pursuant to Clause 7.1 then the Client will clarify and respond within 5 days of receiving such application
- 7.6 If the applicant is not satisfied with the decision given by the procuring entity and/ or the decision is not given by the Procuring Entity Chief within 5 days then the applicant can file a complaint to the Review committee within 7 days.
- 7.7 The Client shall return the unopened Financial Proposals of those consultants who did not pass the technical evaluation.
- 7.8 The consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.

8. Confidentiality

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

9. Conduct of Consultants

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



10. Blacklisting Consultant

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

- a) if it is proved that the bidder committed acts pursuant to the Information to Consultants clause 9.2,
- b) if the bidder fails to sign an agreement pursuant to Information to Consultants clause 7.3,
- c) if it is proved later that the bidder/contractor has committed substantial defect in implementation of the contract or has not substantially fulfilled his obligations under the contract or the completed work is not of the specified quality as per the contract
- d) if convicted by a court of law in a criminal offence which disqualifies the consultant from participating in the contract.
- e) if it is proved that the contract agreement signed by the consultant was based on false or misrepresentation of consultant's qualification information,
- f) other acts mentioned in the Data Sheet or SCC




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




Information to Consultants

DATA SHEET

Clause Reference

| | |
|------|---|
| 1.1 | The name of the Client is: Saljhandi-Sandhikharka-Dhorpatan Road Project The method of selection is: QCBS |
| 1.2 | The name, objectives, and description of the assignment are: Name : Detailed Engineering Survey, Design and Cost Estimate of Saljhandi-Sandhikharka-Dhorpatan Road (Devasthan to Dhorpatan in Baglung) Objectives: Detailed Engineering Survey, Design and Cost Estimate of Road Description: Conduct Detailed Engineering Survey, Design and Cost Estimate of Saljhandi Sandhikharka Dhorpatan Road as per TOR |
| 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: Bel Bahadur Bhujel Address: Sandhikharka, Arghakhanchi Telephone No. : 077420676 |
| 1.4 | The Client will provide the following inputs: Brief description and importance of the Project. |
| 1.10 | The clauses on fraud and corruption in the Contract are: <u>as per Procurement act, rules and regulations</u> |
| 2.1 | Clarifications may be requested 7 days before the submission date The address for requesting clarifications is: Saljhandi-Sandhikharka-Dhorpatan Road Project Telephone: 077420676 Email: bhujelbb@gmail.com |
| 3.1 | Proposals should be submitted in the following language(s): English |
| 3.3 | (i) Short listed consultants/entity maynot associate with other short listed consultants:  |

| | |
|-----|--|
| | <p>(ii) The estimated number of professional staff-months required for the assignment is: As per BOQ</p> <p><u>Available Budget for Fixed Budget Assignment : N/A</u></p> <p>(iv) The minimum required experience of proposed professional staff is:</p> <p>Road Engineer 3 Years Geo- Tech Engineer 3 Years Hydrologist 2 Years Senior Surveyor 2 Year, in specific job</p> <p>(vi) Reports that are part of the assignment must be written in the following language(s): English</p> |
| 3.4 | <p>(vii) Training is a specific component of this assignment: No</p> <p>(viii) Additional information in the Technical Proposal includes:</p> <ul style="list-style-type: none"> • Comment, Suggestions and Understanding of TOR • Description of reviewed any relevant documents • Description of site (visited) and any photographs • Use of software • Work and Manning's schedule • Description of Engineering survey, hydrology, soil investigation and other data and innovativeness of data collection • Description of study and methodology of study • suggestions on innovative type of design (efficient technology, lower cost) |
| 3.9 | Proposals must remain valid 90 days after last date of submission. |
| 4.3 | Consultants must submit an original and one additional copies of each proposal in printed form and electronic version. |
| 4.4 | <p>The proposal submission address: Saljhandi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi.</p> <p>Information on the outer envelope should also include :</p> <p>To, The Project Chief Saljhandi-Sandhikharka-Dhorpatan Road Project Sandhikharka, Arghakhanchi, Nepal.</p> <p>Contract No: RFP 1/068/69</p> <p>Technical Proposal or Financial Proposal (Separate in Two Envelop) For Detailed Engineering Survey and Design of Road</p> |
| 4.5 | Proposals must be submitted no later than: 12:00 hours of 12th Janaury 2012 |
| 5.1 | <p>The address to send information to the Client is:</p> <p>The Project Manager</p>  |

| | Saljhandi-Sandhikharka-Dhorpatan Road Project Sandhikharka, Arghakhanchi, Nepal. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------|--|-------|---------------------|----------|-------------------------|----------|---|------|---|----------|--|----------|---|----------|-----------------|----------|-----------------------------|----------|---|----------|---|---------|--|----------|--------------|---------|---|-------|--|-----------|-----------------------------------|-----------|--|--|-----|--|--|--|-----|--|---------------|-----|
| 5.3 | <p>The number of points to be given under each of the evaluation criteria are:</p> <table border="0"> <thead> <tr> <th></th> <th style="text-align: right;"><u>Points</u></th> </tr> </thead> <tbody> <tr> <td>(i) Specific experience of the consultants related to the assignment</td> <td style="text-align: right;">[10]</td> </tr> <tr> <td style="padding-left: 20px;">Specific experience</td> <td style="text-align: right;">5 points</td> </tr> <tr> <td style="padding-left: 20px;">Experience in Other Job</td> <td style="text-align: right;">5 points</td> </tr> <tr> <td>(ii) 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 style="padding-left: 20px;">Comment, Suggestions and Understanding of TOR</td> <td style="text-align: right;">3 points</td> </tr> <tr> <td style="padding-left: 20px;">Description of reviewed any relevant documents</td> <td style="text-align: right;">7 points</td> </tr> <tr> <td style="padding-left: 20px;">Description of site (visited) and any photographs</td> <td style="text-align: right;">2 points</td> </tr> <tr> <td style="padding-left: 20px;">Use of software</td> <td style="text-align: right;">3 points</td> </tr> <tr> <td style="padding-left: 20px;">Work and Manning's schedule</td> <td style="text-align: right;">4 points</td> </tr> <tr> <td style="padding-left: 20px;">Description of Engineering survey, hydrology, Soil investigation and other data and innovativeness of data collection</td> <td style="text-align: right;">5 points</td> </tr> <tr> <td style="padding-left: 20px;">Description of study and methodology of study</td> <td style="text-align: right;">4 point</td> </tr> <tr> <td style="padding-left: 20px;">Suggestions on innovative type of design</td> <td style="text-align: right;">1 points</td> </tr> <tr> <td style="padding-left: 20px;">Presentation</td> <td style="text-align: right;">1 point</td> </tr> <tr> <td>(iii) Qualifications and competence of the key staff for the Assignment</td> <td style="text-align: right;">[60]</td> </tr> <tr> <td style="padding-left: 20px;">Marks for Qualification of Key Personnel</td> <td style="text-align: right;">30 points</td> </tr> <tr> <td style="padding-left: 20px;">Experience of Key Personnel (CVs)</td> <td style="text-align: right;">30 points</td> </tr> <tr> <td>(iv) Suitability of the transfer of knowledge program (training)</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">N/A</td> <td></td> </tr> <tr> <td>(v) Local participation (as reflected by nationals among key staff presented by foreign and local consultants; <u>(not applicable for National level proposals)</u>)</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">N/A</td> <td></td> </tr> <tr> <td style="text-align: right;">Total Points:</td> <td style="text-align: right;">100</td> </tr> </tbody> </table> <p>The minimum technical score required to pass :50 points</p> | | <u>Points</u> | (i) Specific experience of the consultants related to the assignment | [10] | Specific experience | 5 points | Experience in Other Job | 5 points | (ii) Adequacy of the proposed work plan and methodology in responding to the Terms of Reference | [30] | Comment, Suggestions and Understanding of TOR | 3 points | Description of reviewed any relevant documents | 7 points | Description of site (visited) and any photographs | 2 points | Use of software | 3 points | Work and Manning's schedule | 4 points | Description of Engineering survey, hydrology, Soil investigation and other data and innovativeness of data collection | 5 points | Description of study and methodology of study | 4 point | Suggestions on innovative type of design | 1 points | Presentation | 1 point | (iii) Qualifications and competence of the key staff for the Assignment | [60] | Marks for Qualification of Key Personnel | 30 points | Experience of Key Personnel (CVs) | 30 points | (iv) Suitability of the transfer of knowledge program (training) | | N/A | | (v) Local participation (as reflected by nationals among key staff presented by foreign and local consultants; <u>(not applicable for National level proposals)</u>) | | N/A | | Total Points: | 100 |
| | <u>Points</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (i) Specific experience of the consultants related to the assignment | [10] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Specific experience | 5 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Experience in Other Job | 5 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (ii) Adequacy of the proposed work plan and methodology in responding to the Terms of Reference | [30] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment, Suggestions and Understanding of TOR | 3 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of reviewed any relevant documents | 7 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of site (visited) and any photographs | 2 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Use of software | 3 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Work and Manning's schedule | 4 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of Engineering survey, hydrology, Soil investigation and other data and innovativeness of data collection | 5 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description of study and methodology of study | 4 point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suggestions on innovative type of design | 1 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Presentation | 1 point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (iii) Qualifications and competence of the key staff for the Assignment | [60] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marks for Qualification of Key Personnel | 30 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Experience of Key Personnel (CVs) | 30 points | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (iv) Suitability of the transfer of knowledge program (training) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (v) Local participation (as reflected by nationals among key staff presented by foreign and local consultants; <u>(not applicable for National level proposals)</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Points: | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.8 | The fixed Budget Ceiling for the assignment is : N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.10 | <p>The formula for determining the financial scores is the following: <i>[Either $Sf = 100 \times Fm/F$, in which Sf is the financial score, Fm is the lowest price and F the price of the proposal under consideration, or another proportional linear formula]</i> The weights given to the technical and Financial Proposals are: T (Technical Proposal) =0. 80 and P (Financial Proposal) = 0.20</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.1 | The address for negotiations is: Saljhandi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6 | The assignment is expected to commence on <u>within</u> a week of contract signing at Locations provided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[[Nepal]]
[Project Name: Loan #]
[Title of Consulting Services]
STANDARD REQUEST FOR PROPOSALS
RFP #
INFORMATION TO CONSULTANTS
BREAKDOWN OF AGREED FIXED RATES

(Not Applicable)

| Consultants | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|----------|------------|-----------------------------|------------------------|----------|-------------------|--|-------------------------------|
| Name | Position | Basic Rate | Social Charge (__% of 1) | Overhead (__% of 1) | Subtotal | Fee (__% of 4) | Away from Headquarters Allowance (__ % of 1) | Total Agreed Fixed Rate |
| Field Assignment | | | | | | | | |
| | | | | | | | | |
| Home Office | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Signature of Consultant: _____

Date: _____

Authorized Representative: _____

Name: _____

Title: _____



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: Saljhandi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi, Nepal

Ladies/Gentlemen:

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

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

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

We remain,

Yours sincerely,

Authorized Signature:
Name and Title of Signatory:
Name of Consultant:
Address:



3B. CONSULTANT'S REFERENCES

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

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

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

Consultant's Name: _____



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

On the Terms of Reference:

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

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

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



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



3E. TEAM COMPOSITION AND TASK ASSIGNMENTS

| 1. Technical/Managerial Staff | | |
|-------------------------------|----------|------|
| Name | Position | Task |
| | | |
| | | |
| | | |
| | | |
| | | |

| 2. Support Staff | | |
|------------------|----------|------|
| Name | Position | Task |
| | | |
| | | |
| | | |
| | | |



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

Proposed Position: _____

Name of Consultant: _____

Name of Staff: _____

Profession: _____

Date of Birth: _____

Years with Consultant/Entity: _____ Nationality: _____

Membership in Professional Societies: _____

Detailed Tasks Assigned: _____

Key Qualifications:

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

Education:

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

Employment Record:

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

Languages:

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

Certification:

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

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



Full name of staff member: _____

Full name of authorized representative: _____

3G. TIME SCHEDULE FOR PROFESSIONAL PERSONNEL

| Name | Position | Reports Due/Activities | Months (in the Form of a Bar Chart) | | | | | | | | | | | | Number of Months | |
|------|----------|------------------------|-------------------------------------|---|---|---|---|---|---|---|---|----|----|----|------------------|--------------|
| | | | 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 months from the start of assignment.]</i> | | | | | | | | | | | |
|-----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | 11th | 12th |
| Activity (Work) | | | | | | | | | | | | |
| _____ | | | | | | | | | | | | |
| _____ | | | | | | | | | | | | |
| _____ | | | | | | | | | | | | |
| _____ | | | | | | | | | | | | |

B. Completion and Submission of Reports

| Reports | Date |
|---|------|
| 1. Inception Report | |
| 2. Interim Progress Report (a) First Status Report (b) Second Status Report | |
| 3. Draft Report | |
| 4. Final Report | |

Section 4. Financial Proposal - Standard Forms

4A. Financial Proposal submission form.

4B. Bill of Quantities.



4A. FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: Saljhandi-Sandhikharka-Dhorpatan Road Project, Sandhikharka, Arghakhanchi, Nepal.

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for
..... in accordance with your Request for
..... [Title of consulting services]

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. Bill of Quantities

Name of the project: Detail engineering survey, design & Cost Estimate of Saljhandi-Sandikharka-Dhorpatan Road (Devisthan to Dhorpatan in Baglung district).

Fiscal Year: 2068/069

Contract no: RFP 1/068/69

| S.N. | Description of work | Unit | Quantity | Rate in figure (without VAT) | Rate in words (without VAT) | Amount |
|------|--|------|----------|------------------------------|-----------------------------|--------|
| 1 | Detail engineering survey, design and Cost Estimate of Saljhandi-Sandikharka-Dhorpatan Road Project (Devisthan ot Dhorpatan in Baglung District) as stated in TOR documents all complete. | K.M. | 29.00 | | | |

Name of Consultant:

Signature:

Official Seal:

Date:



Section 5. Terms of Reference

TERMS OF REFERENCE (ToR) FOR DETAILED SURVEY & DESIGN OF ROADS

INTRODUCTION

The roads form a part of the Saljhandi-Sandhikharka-Dhorpatan Road. The road sections of length details as given in the letter of invitation are to be surveyed and designed:

The road links are to be designed to Feeder Roads standard to facilitate stage construction.

OBJECTIVE AND SCOPE OF WORK

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 road. The consultant is required to perform the following jobs.

- i) Review existing reports (if any), mainly alignment study, after care study report, standards and specification
- ii) Prepare the topographical map of the corridor
- iii) Detailed engineering survey of the alignment and its corridor
- iv) Conduct hydrological studies for cross drainage works and propose the suitable cross drainage structures
- v) Choose economically feasible pavement type within the study corridor Design the road detail with pavement types
- vi) List out the trees, houses and other structures to be destroyed during the construction within road alignment
- vii) Prepare working drawings
- viii) Prepare cost estimates with analysis of rates
- ix) Prepare survey and design report
- x) Explore and recommend sources of basic road construction materials.

PROCEDURE TO BE ADOPTED FOR DETAILED ENGINEERING SURVEY AND DESIGN

General

The Consultant shall carry out the necessary field works along the alignment. Before mobilization of survey team to the field, the Consultant shall have to submit an Inception report. The alignment to be surveyed shall be located in available topo map (scale not less than 1:50000). The team personnel for field work & work schedule of field work should be included in the Inception report. The Intersection points (IP) should be set out with proper establishment of Bench-Marks with at least two triangular permanent references. Bench mark should be established with cement concrete having nails at centre of size 15 cm x 15 cm x 50 cm with every two consecutive points in every 200 meters and with properly established centre points. The consultant shall then carry out further survey works necessary for detailed design of the road. The consultant shall be responsible for the analysis and interpretation of the data.



Working Team

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

- **Road/Transport Engineer:**
- **Geologist/Geo-technical Engineer**
- **Hydrologist**
- **Senior Surveyor**

Topographical survey

The work for the Topographical survey will be as follows:

- **Establishment of Survey monuments / Bench mark**
- **Traverse survey along the proposed road corridor**
- **Topographical survey of road in 30 m wide strip (15 m on either side of centre line) and prepare detailed topographical map of the proposed road corridor in 1: 1000 scale.**

(a) Establishment of Survey monuments / Bench mark

In order to carryout the survey works permanent survey monuments will be established along the road. These monuments will serve as bench marks and control points for traverse survey. The benchmarks will be established at 500 m intervals along the road alignment at secured and easily visible area. The size of bench mark will be 15 cm x 15 cm x 50 cm long nails embedded flushed with top surface and made of 1: 2: 4 cement concrete. The upper surface of the monuments will be 5 cm above natural ground surface. Apart from this supplementary control points will be established at intermediate inter visible locations. Additional offset survey points will be established as required to get the detail topographic features of the proposed area. Description cards (D- cards) of the all the bench mark will be prepared with a set of reference for easy retrieval in future.

All permanent benchmarks and survey control points should be surveyed and tolerable error shall not exceed $10 \times \text{Square root of distance in Km}$.

(b) Traverse Survey

Traverse survey will commence from 2 known survey monuments and close to next 2 known points. All permanent ground monuments including supplementary survey control points will be surveyed for traverse survey. Procedure for survey should follow standard practice and closing error should be with in tolerable limits.

(c) Topographical survey

The detailed Topographic survey of the road corridor covering a width of 30 m will be carried out. The density of survey points will be at least 1 point per 25 square meters. Topographic map in scale 1: 1000 should contain details of Survey control points, Settlement with starting and end points, Landslide/ Slope instabilities, natural stream and structures.



Engineering Details

Horizontal and Vertical alignment of the road

The horizontal alignment of the road center line shall be determined within the survey strip of proposed corridor of the optimum alignment between control points specified as a result of the engineering investigation. Points at even increments of length according to the topography (but not less than 20m and 50m at straight, 10m and 20m at curves in hilly and plain area respectively) along the centre line, Beginning and End of curves and other

critical points as may be required should be fully defined relative to the stations of the Intersection points. All points should be co-ordinate to the grid of the system to which the road shall be referred.

Consideration of environment protection

While designing the horizontal and vertical alignment, the consultant are required to predict damages to the environment and attempt to mitigate or minimize such damages and suggesting appropriate measures in design. The width of disturbed due to earth work (cutting & filling width) should be minimized, providing retaining structure. Those considerations should be more specific to urban environmental problems.

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 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.

Engineering drawings

The Consultant will prepare the following plans and working drawings on suitable reproducible materials using the format and title sheets as required by the Engineer in Charge, the original becoming the property of the Department.

Map of the zone/district demarcation showing the location of the road. Index plan of topo-sheet (scale 1:25000); showing clear the 20m contours of road corridor (should be traced) controlling obligatory points, villages, VDC, municipality, district demarcation, names of natural drainage etc. Map showing complete alignment with kilometer, names of area, land use, markets, grid lines etc. Location map Showing linkage of the road with surrounding road network

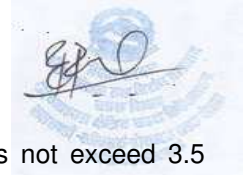
Map showing survey and design status of the complete road

- (a) Plan, profile (longitudinal section) and cross-section in the following scales
 - Plan 1:1000
 - Profile Horizontal 1:1000
 - Vertical For plain & rolling terrain 1:100
 - For Mountainous & steep terrain 1:200
 - Cross-section for plain & rolling terrain 1:100
 - For Mountainous & steep terrain 1:200
 - Points (IP). Bench Mark (BM) and other reference points
- (b) Plans and profile of the road should contain details of geometric (horizontal alignment with co-ordinate of IP, deflection angle distance IP to IP, curve data chainage of IP etc.), index (of IP, BM, Km post), names of adjoining structures, name of house owner, names of the VDC ,or municipalities, district, forest, temples, school, street, trails, land-use pattern, cross-drainage structure, retaining structure required of as instructed by engineer in-charge.
- (c) Hydrological, meteorological & geological maps of the road.
- (d) Reference charts of all intersection points (IP), bench marks (BM) & other reference points.

Engineering design calculations

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





DURATION OF STUDY

It is anticipated that time for completion and submission of the Report does not exceed 3.5 (Three and half) months from the date of agreement of the Consultancy Services Contract. The Consultant needs to present a Work Plan in their Proposal for the study. The Consultant shall commence the work within time mentioned in agreement.

ANNEX B: DELIVERABLES

Reporting Frequency

- Draft Report: within 2.5 months of signing of the contract
- Final Report: within 15 days of receiving the comments from the Client, not beyond 3.5 months from the date of contract agreement

Reporting person

- Client's Project Manager: Draft Report, Final Report

Report copies

- Draft Report: 1 with supplementary drawing volumes
- Final Report: 3 with supplementary drawing volumes, 2 CDs with electronic version of report in undistorted compatible format.

Report Format

Executive Summary

Acronym

Contents

- 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 curve
 - 2.3.1 Minimum radius of curve
 - 2.3.2 Super elevation
 - 2.3.3 Transit curves
 - 2.3.4 Extra-widening
 - 2.4 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 retaining structures
 - 5.1.5 Cost of cross drainage works
 - 5.1.6 Cost of pavement construction
 - 5.1.7 Cost of compensation to the project affected people
- 5.2 Details of measurement
- 5.3 Quantity estimate of material & equipment
- 5.4 Manpower estimate
- 5.5 Analysis of rates
- 5.6 Availability of materials
- 5.7 Availability of manpower

6 Conclusions

- 6.1 General conclusion
 - 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.