



REQUEST FOR PROPOSALS

## Procurement of Consulting Service

# GEOTECHNICAL INVESTIGATION AND SLOPE STABILITY ASSESSMENT

*for*

**Kabraytar and Dhamdara**

**PHUENTSHOLING THROMDE**

*( December 2018 )*

# STANDARD REQUEST FOR PROPOSALS

## Procurement of Consulting Services



**Royal Government of Bhutan**

**PHUENTSHOLING THROMDE**

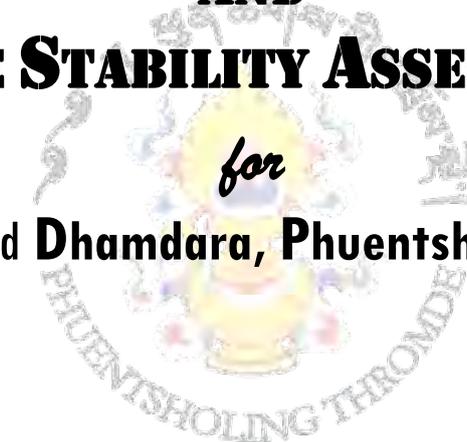
REQUEST FOR PROPOSALS

**RFP #: PT/UPD/GI/16/2018-2019**

PROJECT NAME / TITLE OF CONSULTING SERVICE:

**GEOTECHNICAL INVESTIGATION  
AND  
SLOPE STABILITY ASSESSMENT**

**Kabraytar and Dhamdara, Phuentsholing Thromde**



PROCURING AGENCY:

**PHUENTSHOLING THROMDE**

*( December 2018 )*

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**Section 1: Letter of Invitation**  
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**Royal Government of Bhutan**  
**Phuentsholing Thromde**  
 Pelkhil Lam, Post Box No. 02



Ref. No. PT/UPD/GI/16/2018-2019/3178

Date: 11<sup>th</sup> December, 2018

**LETTER OF INVITATION**

The Phuentsholing Thromde intends to procure Consulting Service to conduct detailed **Geotechnical Investigation and Slope Stability Assessment** for **Kabraytar and Dhamdara** development plan.

Therefore, the Procurement Section, Finance Division invites proposals from the interested **local firms** registered with CDB for Geotechnical Consultancy to provide the service. **Local firms proposing joint-venture / partnership / consortium / association with national / regional / international firms shall not be allowed.** However, it is permitted to hire individuals from International firms as employee(s) if there is a need of special inputs that are not available in the local market.

The RFP document can be downloaded free of cost from Thromde website [www.pcc.bt](http://www.pcc.bt) w.e.f. **11<sup>th</sup> December, 2018**. The bidders are required to execute **Integrity Pact** before submission of proposals. **Failure to attach a signed Integrity Pact with the proposals shall result disqualification.**

The selection process shall be based on **Quality and Cost Based Selection Method** and procedures prescribed in the **RFP**, in accordance with the latest Procurement Rules and Regulations.

The sealed technical proposal and financial bid must be delivered to the Procurement Section, Finance Division, Phuentsholing Thromde on or before **02.00 PM (BST), 10<sup>th</sup> January, 2019** and will be publicly opened on the same day at **2:30 PM** in the conference hall of Thromde in presence of intending bidders or representatives who choose to attend the opening.

The technical proposal should be submitted along with a copy of valid trade license and CDB certificate. The complete bid form should be enclosed with the financial proposal.

For any updates and clarification, visit our **Thromde's website**.

**EXECUTIVE SECRETARY,**  
**Phuentsholing Thromde.**

## Section 2: Instructions to Consultants

### Definitions:

- (a) **Consultant:** An individual or a legal entity entering into a Contract to provide the required Consulting Services.
- (b) **Consulting Services:** Expert services of a professional and/or intellectual nature, provided by the Consultant based on specialized expertise and skills, in areas including, but not limited to, preparing and implementing projects, conducting training, providing technical assistance, conducting research and analysis, preparing designs, supervising the execution of construction and other works, undertaking studies, advising Procuring Agencies, building capacity, preparing tender documents, supervising procurement, and others.
- (c) **Contract:** The formal agreement in writing, including the General Conditions (GC), the Special Conditions (SC), and the Appendices, entered into between the Procuring Agency and the Consultant, on acceptable terms and conditions and which are in compliance with all the relevant provisions of the laws of the Kingdom of Bhutan, for the provision of the required Consulting Services.
- (d) **Data Sheet:** Such part of the Instructions to Consultants used to reflect specific assignment conditions.
- (e) **Day:** A calendar day.
- (f) **Government:** Royal Government of Bhutan (RGoB).
- (g) **Instructions to Consultants (Section 2 of the RFP):** The document which provides the shortlisted Consultants with all the information needed to prepare their Proposals.
- (h) **In Writing:** Communicated in written form (eg by mail, electronic mail, fax, telex) with proof of receipt.
- (i) **LOI (Section 1 of the RFP):** The Letter of Invitation being sent by the Procuring Agency to the shortlisted Consultants.
- (j) **Personnel:** Professional and support staff provided by the Consultant or by any Sub-Consultant and assigned to perform the Services or any part thereof; "Foreign Personnel" means such professional and support staff who at the time of being so provided have their domicile outside Bhutan; "Local Personnel" means such professional and support staff who at the time of being so provided have their domicile inside Bhutan.
- (k) **Procuring Agency:** RGoB agency with which the selected Consultant signs the Contract for the Services.
- (l) **Proposal:** The Technical Proposal and the Financial Proposal.
- (m) **RFP:** The Request for Proposal to be prepared by the Procuring Agency for the selection of Consultants, based on the SRFP.
- (n) **SRFP:** The Standard Request for Proposals, which must be used by the Procuring Agency as a guide for the preparation of the RFP.
- (o) **Services:** The work to be performed by the Consultant pursuant to the Contract.
- (p) **Sub-Consultant:** Any person or entity to whom/which the Consultant subcontracts any part of the Services.
- (q) **Terms of Reference (TOR):** The document included in the RFP as Section 5

which defines the objectives, goals, scope of work, activities, tasks, responsibilities of the Procuring Agency and the Consultant, required outputs and results of the assignment, as well as background information (including a list of existing relevant studies and basic data) to facilitate the Consultants' preparation of their proposals.

## **1 Introduction**

- 1.1 The Procuring Agency named in the Data Sheet will select a consulting firm/organisation (the Consultant) from those listed in the Letter of Invitation<sup>1</sup> in accordance with the method of selection specified in the Data Sheet.
- 1.2 The shortlisted Consultants are invited to submit a Technical Proposal and a Financial Proposal, or a Technical Proposal only, as specified in the Data Sheet, for Consulting Services required for the assignment named 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 Consultants should familiarize themselves with local conditions and take these into account in preparing their Proposals. To obtain first-hand information on the assignment and local conditions, Consultants are encouraged to attend a pre-proposal meeting if one is specified in the Data Sheet. Attending the pre-proposal meeting is optional. Consultants should contact the Procuring Agency's representative named in the Data Sheet to obtain additional information on the pre-proposal meeting. Consultants should ensure that this official is advised of the proposed attendance at the meeting in adequate time to allow them to make appropriate arrangements.
- 1.4 The Procuring Agency will provide in timely fashion and at no cost to the Consultant the inputs and facilities specified in the Data Sheet, assist the Consultant in obtaining licenses and permits needed to carry out the Services, and make available relevant project data and reports.
- 1.5 Consultants shall bear all costs associated with the preparation and submission of their proposals and contract negotiation. The Procuring Agency is not bound to accept any proposal, and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultants.

## **2 Conflict of Interest**

2.1 The Procuring Agency and the RGoB requires that Consultants provide professional, objective and impartial advice, and at all times hold the Procuring Agency's interests paramount, strictly avoid conflicts with other assignments or their own corporate interests, and act without any consideration for future work. Without limitation on the generality of the foregoing Consultants, and any of their affiliates, shall be considered to have a conflict of interest, and shall not be recruited, under any of the circumstances set forth below:

### **a) Conflicting Activities:**

A firm that has been engaged by the Procuring Agency to provide goods, works or services other than Consulting Services for a project, and any of its affiliates, shall be disqualified from providing Consulting Services related to those goods, works or services. A firm hired to provide Consulting Services for the preparation or implementation of a project, and any of its affiliates, shall be disqualified from subsequently providing goods or works or services resulting from or directly related to the firm's Consulting

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<sup>1</sup> Only if Expression of Interest has taken place.

Services for such preparation or implementation. For the purposes of this paragraph, services other than Consulting Services are defined as those leading to a measurable physical output, for example surveys, exploratory drilling, aerial photography, and satellite imagery.

(b) Conflicting Assignments:

A Consultant, including its Sub-Consultants, affiliates and the Personnel of any of the foregoing, shall not be hired for any assignment that, by its nature, may be in conflict with another assignment of the Consultant to be executed for the same or for another Procuring Agency. For example, a Consultant hired to prepare engineering design for an infrastructure project shall not be engaged to prepare an independent environmental assessment for the same project, and a Consultant assisting a Procuring Agency in the privatization of public assets shall not purchase, nor advise purchasers of, such assets. Similarly, a Consultant hired to prepare Terms of Reference for an assignment, or otherwise to provide any other services during the preparatory stages of the assignment or of the project of which the assignment forms a part, shall not be hired for the assignment in question

(c) Conflicting Relationships:

- (aa) A Consultant, including its Sub-Consultants, affiliates and the Personnel of any of the foregoing, that has a business relationship with a member of the Procuring Agency's staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the assignment, (ii) the selection process for such assignment, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to the Procuring Agency throughout the selection process and the execution of the Contract.
- (bb) A Consultant, including its Sub-Consultants, affiliates and the Personnel of any of the foregoing, that employs or otherwise engages a spouse, dependent or close relative of a public servant of the RGoB who either is employed by the Procuring Agency or has an authority over it also shall not be eligible to be awarded a Contract. For the purposes of this subparagraph, a close relative is defined as immediate family which includes father, mother, brother, sister, spouse and own children.

2.2 Consultants have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interests of the Procuring Agency, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.

2.3 When the Consultant nominates any present or previous government employee as Personnel in its Technical Proposal, such Personnel must have written certification from the Royal Civil Service Commission of Bhutan or their employer confirming that:

- (a) they are not current employees of the Procuring Agency, and
- (b) they are on leave without pay from their official position, and

- (c) they are allowed to work full-time outside of their previous official position.

Such certification(s) shall be provided to the Procuring Agency by the Consultant as part of its Technical Proposal.

2.4 When the Consultant nominates any former employee of the Procuring Agency as Personnel in its Technical Proposal it must ensure, and so certify in its Technical Proposal, that no conflict of interest exists in the scope of the former employee's inclusion within the Consultant's Personnel being proposed to provide the Services.

**3 Unfair Advantage**

3.1 If a Consultant could derive a competitive advantage from having provided Consulting Services related to the assignment in question, the Procuring Agency shall make available to all Consultants together with this RFP all information that would in that respect give such Consultant any competitive advantage over competing Consultants.

**4 Fraud and Corruption**

4.1 It is RGoB policy to require that Consultants, their Sub-Consultants and the Personnel of them both observe the highest standards of ethics during the procurement and execution of contracts.<sup>2</sup> In pursuance of this policy, the RGoB:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
- (i) "corrupt practice"<sup>3</sup> means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value<sup>4</sup> to influence improperly the actions of another party;
  - (ii) "fraudulent practice"<sup>5</sup> means any intentional act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
  - (iii) "collusive practice"<sup>6</sup> means an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
  - (iv) "coercive practice"<sup>7</sup> means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

<sup>2</sup> In this context, any action taken by a Consultant, Sub-Consultant or the Personnel of either of them to influence the procurement process or contract execution for undue advantage is improper.

<sup>3</sup> "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes staff and employees of any organizations (including any institutions providing finance for the Services) taking or reviewing procurement decisions.

<sup>4</sup> "anything of value" includes, but is not limited to, any gift, loan, fee, commission, valuable security or other asset or interest in an asset; any office, employment or contract; any payment, discharge or liquidation of any loan, obligation or other liability whatsoever, whether in whole or in part; any other services, favour or advantage, including protection from any penalty or disability incurred or apprehended or from any action or proceeding of a disciplinary or penal nature, whether or not already instituted and including the exercise or the forbearance from the exercise of any right or any official power or duty.

<sup>5</sup> a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

<sup>6</sup> "parties" refers to participants in the procurement process (including public officials) and an "improper purpose" includes attempting to establish proposal prices at artificial, non competitive levels.

<sup>7</sup> a "party" refers to a participant in the procurement process or contract execution.

- (v) "obstructive practice" means:
- (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order materially to impede any investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
  - (bb) acts intended materially to impede the exercise of the inspection and audit rights of the Procuring Agency or any organization or person appointed by the Procuring Agency and/or any relevant RGoB agency provided for under sub-paragraph (d) below of this paragraph 4.1.
- (b) will reject a proposal for award if it determines that the Consultant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;
- (c) will sanction a Consultant or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded an RGoB-financed contract if at any time it determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, an RGoB-financed contract;
- (d) will have the right to require that a provision be included in Requests for Proposals and in contracts financed by the RGoB, requiring Consultants and their Sub-Consultants to permit the Procuring Agency, any organisation or person appointed by the Procuring Agency and/or any relevant RGoB agency to inspect their accounts and records and other documents relating to their submission of proposals and contract performance, and to have them audited by auditors appointed by the Procuring Agency;
- (e) requires that Consultants, as a condition of admission to eligibility, execute and attach to their Proposals an Integrity Pact Statement in the form provided in Form TECH-10 of Section 3 as specified in ITC. Failure to provide a duly executed Integrity Pact Statement may result in disqualification of the Proposal; and
- (f) will report any case of corrupt, fraudulent, collusive, coercive or obstructive practice to the relevant RGoB agencies, including but not limited to the Anticorruption Commission (ACC) of Bhutan, for necessary action as per the statutes and provisions of the relevant agency.

4.2 Consultants, their Sub-Consultants, and their affiliates shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive, coercive or obstructive practices issued by the Procuring Agency in accordance with the above sub-paragraph (c) of this paragraph 4.1. Furthermore, Consultants shall be aware of the provisions on fraud and corruption stated in the specific clauses in the General Conditions of Contract.

4.3 Consultants shall furnish information on commissions and gratuities, if any, paid or to be paid to agents relating to this proposal and during execution of the assignment if the Consultant is awarded the Contract, as

requested in the Financial Proposal Submission Form (Section 4).

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|----------|---|-----|---|
| <b>5</b> | <b>Origin of Goods and Consulting Services</b>    | 5.1 | <p>Goods supplied and Consulting Services provided under the Contract may originate from any country except if:</p> <p>(a) as a matter of law or official regulation, RGoB prohibits commercial relations with that country; or</p> <p>(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Bhutan prohibits any imports of goods or services from that country or any payments to persons or entities in that country.</p>   |
| <b>6</b> | <b>Only one Proposal per Consultant</b>           | 6.2 | <p>A Consultant may only submit one proposal. If a Consultant submits or participates in more than one proposal, such proposals shall be disqualified. However, this does not limit the participation of the same Sub-Consultant, including individual experts, in more than one proposal.</p>  |
| <b>7</b> | <b>Proposal Validity</b>                          | 7.2 | <p>The Data Sheet indicates how long Consultants' Proposals must remain valid after the submission date. During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal. The Procuring Agency will make its best efforts to complete negotiations within this period. Should the need arise, however, the Procuring Agency may request Consultants in writing to extend the validity period of their proposals. Consultants who agree to such extension shall confirm in writing that they maintain the availability of the Professional staff nominated in the Proposal or, in their confirmation of extension of validity of the Proposal, Consultants could submit new staff in replacement who would be considered in the final evaluation for Contract award. Consultants who do not agree have the right to refuse to extend the validity of their Proposals.</p>  |
| <b>8</b> | <b>Eligibility of Sub-Consultants</b>             | 8.2 | <p>In case a shortlisted Consultant intends to associate with other Consultants who have not been shortlisted and/or individual expert(s), such other Consultants and/or individual expert(s) shall be subject to the same eligibility criteria as are stipulated for the Consultant.</p>   |
| <b>9</b> | <b>Exclusion of Consultant or Sub-Consultants</b> | 9.2 | <p>A Consultant and any Sub-consultant shall not be permitted to submit a proposal or to be awarded a Contract under any of the following circumstances:</p> <p>(a) it is insolvent or is in receivership or is a bankrupt or is in the process of being wound up, or has entered into an arrangement with creditors; or</p> <p>(b) its affairs are being administered by a court, judicial officer or by an appointed liquidator; or</p> <p>(c) it has suspended business, or is in any analogous situation arising from similar procedures under the laws and regulations of its country of establishment; or</p> <p>(d) it has been found guilty of professional misconduct by a recognized tribunal or professional body; or</p> <p>(e) it has not fulfilled its obligations with regard to the payment of taxes, social security or other payments due in accordance with the laws of the country in which it is established or of the Kingdom of Bhutan; or</p> |

- (f) it is or has been guilty of serious misrepresentation in supplying information in its tender or in the prior process leading to it being classified as a shortlisted Consultant; or
- (g) it has been convicted for fraud and/or corruption by a competent authority; or
- (h) it has not fulfilled any of its contractual obligations with the Procuring Agency in the past; or
- (i) he has been debarred from participation in public procurement by any competent authority as per law.

**10 Contents, Clarification and Amendment of the RFP Document**

- 10.2 The RFP document comprises:
- Section 1 - Letter of Invitation
  - Section 2 - Instructions to Consultants (including Data Sheet)
  - Section 3 - Technical Proposal - Standard Forms
  - Section 4 - Financial Proposal - Standard Forms
  - Section 5 - Terms of Reference
  - Section 6 - Standard Forms of Contract
- 10.3 Consultants may request a clarification of any part of the RFP document 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 to the Procuring Agency's address indicated in the Data Sheet. The Procuring Agency will respond in writing, and will send written copies of the response (including an explanation of the query but without identifying the source of the inquiry) to all Consultants. Should the Procuring Agency deem it necessary to amend the RFP as a result of a clarification, it shall do so following the procedure under paragraph 10.4 below;
- 10.4 A pre-proposal meeting will be conducted only if strictly necessary to clarify doubts and concerns of the shortlisted Consultants prior to submission of proposals. Minutes of the pre-proposal meeting shall be circulated to all shortlisted Consultants.
- 10.4 At any time before the submission of Proposals the Procuring Agency may amend the RFP by issuing an addendum in writing. The addendum shall be sent to all shortlisted Consultants and will be binding on them. Consultants shall acknowledge receipt of all addenda before the final date and time established for the submission of Proposals. To give Consultants reasonable time in which to take an addendum into account in their Proposals the Procuring Agency may, if the addendum is substantial, extend the deadline for the submission of Proposals.

**11 Preparation of Proposals**

- 11.2 The Proposal, as well as all related correspondence exchanged by the Consultant and the Procuring Agency, shall be written in the language specified in the Data Sheet.
- 11.3 In preparing their Proposals, Consultants are expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.
- 11.4 While preparing the Technical Proposal, Consultants must pay particular attention to the following:
- (a) If a shortlisted Consultant considers that it may enhance its expertise for the assignment by associating with other Consultants

in a joint venture/consortium/association or sub-consultancy it may associate with either (a) non-shortlisted Consultant(s), or (b) shortlisted Consultants, if so indicated in the Data Sheet. A shortlisted Consultant must first obtain the approval of the Procuring Agency if it wishes to enter into a joint venture/consortium/association with non-shortlisted or shortlisted Consultant(s). In the case of a joint venture/consortium/association with non-shortlisted Consultant(s), the shortlisted Consultant shall act as joint venture/consortium/association leader. In the case of a joint venture/consortium/association, all partners shall be jointly and severally liable and shall indicate who will act as the leader of the joint venture/consortium/association.

(b) The estimated number of Professional staff-months or the budget for executing the assignment shall be shown in the Data Sheet, but not both. However, the Proposal shall be based on the number of Professional staff-months or the budget estimated by the Consultant.

(c) For fixed-budget-based assignments, the available budget is given in the Data Sheet, and the Financial Proposal shall not exceed this budget, while the estimated number of Professional staff-months shall not be disclosed.

(d) Alternative professional staff shall not be proposed, and only one curriculum vita (CV) may be submitted for each position.

**12 Language** 12.2 Documents to be issued by the Consultant as part of this assignment must be in the language specified in the Data Sheet.

**13 Technical Proposal Format and Content** 13.1 Depending on the nature of the assignment, Consultants are required to submit a Full Technical Proposal (FTP), or a Simplified Technical Proposal (STP). The Data Sheet indicates the format of the Technical Proposal to be submitted. Submission of the wrong type of Technical Proposal will result in the Proposal being deemed non-responsive. The Technical Proposal shall provide the information indicated in the following paragraphs from (a) to (i) using the attached Standard Forms (Section 3). Paragraph (c) (ii) indicates the recommended number of pages for the description of the approach, methodology and work plan of the STP. A page is considered to be one printed side of A4 or letter size paper.

(a) (i) For the FTP only, a brief description of the Consultant's organization and an outline of the recent experience of the Consultant on assignments of a similar nature is required in Form TECH-2 of Section 3. In the case of a joint venture/consortium/association, this information should be provided for each partner. For each assignment, the outline should indicate the names of Sub-Consultants/Professional staff who participated, the duration of the assignment, the Contract amount, and the Consultant's involvement. Information should be provided only for those assignments for which the Consultant was legally contracted by the Procuring Agency as a corporation or as one of the major firms within a joint venture/consortium/association. Assignments completed by individual Professional staff working privately or through other consulting firms cannot be claimed as the experience of the Consultant, or that of the Consultant's associates, but can be claimed by the Professional staff themselves in their CVs. Consultants should be prepared to substantiate the claimed experience if so requested by the Procuring Agency .

(ii) For the STP, the above information is not required and Form TECH-2 of Section 3 shall not be used.

(b) (i) For the FTP only, comments and suggestions on the Terms of Reference including workable suggestions that could improve the quality/effectiveness of the assignment; and on requirements for counterpart staff and facilities including: administrative support, office space, local transportation, equipment, data, etc. to be provided by the Procuring Agency (Form TECH-3 of Section 3).

(ii) For the STP, Form TECH-3 of Section 3 shall not be used; the above comments and suggestions, if any, should be incorporated into the description of the approach and methodology (refer to following sub-paragraph 12.1 (c) (ii)).

(c) (i) For the FTP and STP, a description of the approach, methodology and work plan for performing the assignment and covering the following subjects: technical approach and methodology, work plan, and organization and staffing schedule. Guidance on the content of this section of the Technical Proposals is provided under Form TECH-4 of Section 3. The work plan should be consistent with the Work Schedule (Form TECH-8 of Section 3), which shall also be provided and which will show in the form of a bar chart the timing proposed for each activity.

(ii) For the STP only, the description of the approach, methodology and work plan should normally consist of 10 pages, including charts, diagrams, comments and suggestions, if any, on the Terms of Reference, counterpart staff and facilities.

(d) The list of the proposed Professional staff team by area of expertise, the position that would be assigned to each staff team member, and their tasks (Form TECH-5 of Section 3).

(e) Estimates of the staff input (staff-months of foreign and local professionals) needed to carry out the assignment (Form TECH-7 of Section 3). The staff-months input should be indicated separately for home office and field activities, and for foreign and local Professional staff.

(f) CVs of the Professional staff signed by the staff themselves or by the authorized representative of the Professional Staff (Form TECH-6 of Section 3). CVs shall be supported by at least two references from past client.

(g) For the FTP only, a detailed description of the proposed methodology and staffing for training, if the Data Sheet specifies training as a specific component of the assignment.

(h) Any drawings and/or specifications that form part of the Technical Proposal (FORM TECH-9 of Section 3).

(i) Duly executed Integrity Pact Statement (FORM TECH-10 of Section 3).

13.2 The Technical Proposal shall not include any financial information. A Technical Proposal containing financial information may be declared non-responsive.

**14 Financial Proposals**

14.2 The Financial Proposal shall be prepared using the attached Standard Forms (Section 4). It shall list all costs associated with the assignment, including (a) remuneration for staff (foreign and local, in the field and at the Consultant's home office), and (b) reimbursable expenses indicated in the Data Sheet. If appropriate, these costs should be broken down by activity and, if also

appropriate, into foreign and local expenditures. All activities and items described in the Technical Proposal must be priced separately; activities and items described in the Technical Proposal but not priced shall be assumed to be included in the prices of other activities or items.

- 14.3 In case of Foreign Consultants (as individual or as a firm), the consultant may express the price of their services in a maximum of three freely convertible foreign currencies, singly or in combination. The Procuring Agency may require Consultants to state the portion of their price representing local costs in Ngultrum (BTN) if so indicated in the Data Sheet.
- 14.4 Commissions and gratuities, if any, paid or to be paid by Consultants and related to the assignment will be listed in the Financial Proposal Form FIN-1 of Section 4.
- 15 Taxes**
- 15.2 The Consultant may be subject to local taxes (such as value added or sales tax, social charges or income taxes on non-resident Foreign Personnel, duties, fees, levies, etc) on amounts payable by the Procuring Agency under the Contract. The Procuring Agency will state in the Data Sheet if the Consultant is subject to payment of any local taxes. Any such amounts shall not be included in the Financial Proposal as they will not be evaluated, but they will be discussed at contract negotiations, and applicable amounts will be included in the Contract.
- 16 Sealing & Submission of Proposals**
- 16.1 The original proposal (Technical Proposal and, if required, Financial Proposal) shall contain no interlineations or overwriting, except as necessary to correct errors made by the Consultant itself. The person who signed the Proposal must initial such corrections. Submission letters for the Technical and Financial Proposals shall respectively be in the format of TECH-1 of Section 3, and FIN-1 of Section 4.
- 16.2 An authorized representative of the Consultant 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 or in any other form demonstrating that the representative has been duly authorized to sign. The signed Technical and Financial Proposals shall be marked "ORIGINAL".
- 16.3 The Technical Proposal shall be marked "ORIGINAL" or "COPY" as appropriate. The Technical Proposals shall be sent to the addresses referred to in paragraph 16.8 and in the number of copies indicated in the Data Sheet. All required copies of the Technical Proposal are to be made from the original. If there are discrepancies between the original and the copies of the Technical Proposal, the original shall govern.
- 16.4 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "TECHNICAL PROPOSAL" Similarly, the original Financial Proposal (if required under the selection method indicated in the Data Sheet) shall be placed in a sealed envelope clearly marked "FINANCIAL PROPOSAL" followed by the reference number and name of the assignment, and with a warning "**DO NOT OPEN WITH THE TECHNICAL PROPOSAL.**" The envelopes containing the Technical and Financial Proposals shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address, reference number and title of the assignment, and be clearly marked "**CONFIDENTIAL – Do NOT OPEN, EXCEPT IN THE PRESENCE OF THE APPOINTED OPENING OFFICIAL(S), BEFORE [insert the time and date of the submission deadline indicated in the Data Sheet]**". The Procuring Agency shall not be responsible for misplacement,

loss or premature opening if the outer envelope is not sealed and/or marked as stipulated. This circumstance may be case for Proposal rejection. If the Financial Proposal is not submitted in a separate sealed envelope duly marked as indicated above, this will constitute grounds for declaring the Proposal non-responsive.

16.5 All inner envelopes shall:

- (a) be signed across their seals by the person authorized to sign the Proposal on behalf of the Consultant; and
- (b) be marked "ORIGINAL" or "COPIES"; and
- (c) indicate the name and address of the Consultant to enable the Proposal to be returned unopened in case it is declared late pursuant to paragraph 16.8 hereunder.

16.6 All inner and outer envelopes shall be sealed with adhesive or other sealant which will prevent re-opening.

16.7 The Proposals shall be delivered by hand or by registered post in sealed envelopes to the address/addresses indicated in the Data Sheet and received by the Procuring Agency no later than the time and the date indicated in the Data Sheet, or any extension to this date in accordance with paragraph 10.4. Any proposal received by the Procuring Agency after the deadline for submission shall be returned unopened.

## 17 Withdrawal and Substitution of Proposals

17.1 A Consultant may withdraw or substitute its Proposal after it has been submitted by sending a written notice in accordance with paragraph 16, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with paragraph 16.2. Any substitution of a Proposal must accompany the respective written substitution notice. All notices must be:

- (a) submitted in accordance with paragraph 16 above (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL" or "SUBSTITUTION" and
- (b) received by the Procuring Agency prior to the deadline prescribed for submission of Proposals, in accordance with paragraph 16.7.

17.2 Proposals requested to be withdrawn in accordance with paragraph 17.1 shall be returned unopened to the Consultants.

17.3 No Proposal may be withdrawn or substituted in the interval between the deadline for submission of Proposals and the expiry of the period of Proposal validity specified by the Consultant in its Proposal or any extension thereof. Any such withdrawal shall result in the debarment by competent authority as per law.

## 18 Opening of Proposals

18.2 Immediately after the closing date and time for submission of Proposals any envelopes marked "Withdrawal" and accompanied by a properly authorized withdrawal notice shall be put aside, and stored safely and securely ready for return to the Consultant.

18.3 The Procuring Agency then shall open all remaining Technical Proposals, including any substitutions accompanied by a properly authorized substitution notice. The Financial Proposals shall remain sealed and securely stored.

- 19 Evaluation to be Confidential**
- 19.2 From the time the Proposals are opened to the time the Contract is awarded, the Consultant shall not contact the Procuring Agency on any matter related to its Technical and/or Financial Proposal. Any effort by any Consultant to influence the Procuring Agency in the examination, evaluation, ranking of Proposals, and recommendation for Award of Contract may result in the rejection of the Consultant's Proposal.
- 19.3 After the opening of Proposals, information concerning the Proposal documents or any part of the contents thereof shall not be released to any person or party that is not a member of the Proposal Evaluation Committee.
- 19.4 The evaluation proceedings shall be kept confidential at all times until the award of Contract is announced.
- 19.5 Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.
- 20 Evaluation of Technical Proposals**
- 20.1 The Evaluation Committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria and points system specified in the Data Sheet. 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 RFP, particularly the Terms of Reference, or if it fails to achieve the minimum technical score indicated in the Data Sheet.
- 20.2 Following the ranking of Technical Proposals, when selection is based on quality only (QBS), the first ranked Consultant shall be invited to negotiate its proposal and the Contract in accordance with the instructions given under paragraphs 23 to 26 of these Instructions.
- 21 Public Opening and Evaluation of Financial Proposals (only for QCBS, FBS, and LCS)**
- 21.2 After the technical evaluation is completed, the Procuring Agency shall inform the Consultants who have submitted proposals the technical scores obtained by their Technical Proposals, and shall notify those Consultants whose Proposals did not meet the minimum qualifying mark, or were considered non responsive to the RFP and TOR, that their Financial Proposals will be returned unopened after completing the selection process. The Procuring Agency shall simultaneously notify in writing those Consultants that have secured the minimum qualifying mark, the date, time and location for opening the Financial Proposals. The opening date shall allow Consultants sufficient time to make arrangements for attending the opening. Consultants' attendance at the opening of Financial Proposals is optional.
- 21.3 Financial Proposals shall be opened publicly in the presence of the Consultants' representatives who choose to attend. The names of the Consultants and their technical scores shall be read aloud. The Financial Proposals of the Consultants who met the minimum qualifying mark will then be inspected to confirm that they have remained sealed and unopened. These Financial Proposals shall be then opened, and the following information read out and recorded:
- (a) name of the Consultant;
- (b) points awarded to the Technical Proposal; and

- (c) total price of the Financial Proposal.

The prices also shall be written on a notice board for the public to copy.

21.3 The Procuring Agency shall prepare a record of the opening of the Financial Proposals, which shall include the information disclosed to those present in accordance with paragraph 21.2 above. The minutes shall include, as a minimum:

- (a) the assignment title and reference number;
- (b) the date, time and place of opening of the Financial Proposals;
- (c) the prices offered by the Consultants;
- (d) the name and nationality of each Consultant;
- (e) the names of attendees at the opening of the Financial Proposals, and of the Consultants they represent;
- (f) details of any complaints or other comments made by Consultants' representatives attending the opening of the Financial Proposals, including the names and signatures of the representatives making the complaint(s) and/or comment(s); and
- (g) the names, designations and signatures of the members of the Proposal Opening Committee.

The Consultants' representatives who are present shall be requested to sign the record. The omission of a representative's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Consultants who submitted Proposals.

21.4 The Evaluation Committee will correct any computational errors. When correcting computational errors, in case of any discrepancy between a partial amount and the total amount, or between words and figures, the formers shall prevail. In addition to the above corrections, as indicated under paragraph 14.1, activities and items described in the Technical Proposal but not priced shall be assumed to be included in the prices of other activities or items. In case an activity or line item is quantified in the Financial Proposal differently from the Technical Proposal:

- (a) if the Time-Based form of Contract has been included in the RFP, the Evaluation Committee shall correct the quantification indicated in the Financial Proposal so as to make it consistent with that indicated in the Technical Proposal, apply the relevant unit price included in the Financial Proposal to the corrected quantity and correct the total Proposal cost, and
- (b) if the Lump-Sum form of Contract has been included in the RFP, no corrections are applied to the Financial Proposal in this respect.

Prices shall be converted to a single currency using the selling rates of exchange, source and date indicated in the Data Sheet.

21.5 In the case of QCBS, the lowest evaluated Financial Proposal (Fm) will be given the maximum 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 firm achieving the highest combined technical and financial score will be invited for negotiations.

21.6 In the case of Fixed-Budget Selection, the Procuring Agency will select the firm that submitted the highest ranked Technical Proposal within the budget. Proposals that exceed the indicated budget will be rejected. In the case of Least-Cost Selection, the Procuring Agency will select the lowest proposal among those that passed the minimum technical score. In both cases the evaluated proposal price according to paragraph 21.5 shall be considered, and the selected firm invited for negotiations.

## **22 Negotiations**

22.1 Negotiations will be held at the date and address indicated in the Data Sheet. The invited Consultant will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Failure to satisfy this requirement may result in the Procuring Agency proceeding to negotiate with the next-ranked Consultant. Representatives conducting negotiations on behalf of the Consultant must have written authority to negotiate and conclude a Contract.

## **23 Technical Negotiations**

23.1 Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, organization and staffing, any suggestions made by the Consultant to improve the Terms of Reference, and the Special Conditions of Contract. The Procuring Agency and the Consultant will finalize the Terms of Reference, staffing schedule, work schedule, logistics and reporting. These documents will then be incorporated into the Contract as "Description of Services". Special attention will be paid to defining clearly the inputs and facilities required from the Procuring Agency in order to ensure satisfactory implementation of the assignment. The Procuring Agency shall prepare minutes of the negotiations, which shall be signed by the Procuring Agency and the Consultant. The negotiations shall not substantially alter the original Terms of Reference or the terms of the Contract.

## **24 Financial Negotiations**

24.1 If applicable, it is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the local tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the Consultant's tax liability in Bhutan, and the manner in which it will be reflected in the Contract; and will reflect the agreed technical modifications in the cost of the services.

24.2 In the cases of QCBS, Fixed-Budget Selection and the Least-Cost Selection methods involving time based Contracts, unless there are exceptional reasons the financial negotiations will involve neither the remuneration rates for staff nor other proposed unit rates. For other methods, Consultants will provide the Procuring Agency with the information on remuneration rates described in the Appendix attached to Section 4 - Financial Proposal - Standard Forms of this RFP.

24.3 In the case of a Lump Sum Contract where price is a factor of selection, the price shall not be negotiated.

24.4 Reimbursable costs are payable on an actual expenses incurred basis, and thus shall not be subject to financial negotiation.

## **25 Availability of Professional Staff/Experts**

25.1 Having selected the Consultant on the basis of, among other things, an evaluation of proposed Professional staff, the Procuring Agency expects to negotiate a Contract on the basis of the Professional staff named in the

Proposal. Before contract negotiations, the Procuring Agency will require assurances that the Professional staff will actually be available. The Procuring Agency will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or for reasons such as death or medical incapacity. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, the Consultant may be disqualified. Any proposed substitute shall have equivalent or better qualifications and experience than the original candidate and be submitted by the Consultant within the period of time specified in the letter of invitation to negotiate.

**26 Conclusion of the Negotiations**

26.1 Negotiations will conclude with a review of the draft Contract. To complete negotiations the Procuring Agency and the Consultant will initial the agreed Contract. If negotiations fail, the Procuring Agency shall inform the Consultant in writing of the reasons for termination of the negotiations and then shall invite the Consultant whose Proposal received the second highest combined technical and financial score to negotiate a Contract. Once negotiations commence with the second ranked Consultant the Procuring Agency shall not reopen the earlier negotiations.

**27 Procuring Agency's Right to Accept Any Proposal and to Reject Any or All Proposals**

27.1 The Procuring Agency reserves the right to accept or reject any Proposal, and to annul the Request for Proposals process and reject all Proposals at any time prior to Contract award, without thereby incurring any liability to Consultants.

**28 Letter of Intent to Award / Award of Contract**

28.1 The Procuring Agency shall notify the concerned Consultant whose proposal has been selected in writing (in the format in Section 4-hereafter called the Letter of Intent to award) that the Procuring Agency has intention to accept its proposal and the information regarding the name, address and amount of selected consultant shall be given to all other consultants who submitted the proposal. Such notification should be communicated in writing, including by cable, facsimile, telex or electronic mail to all the Consultants on the same day of dispatch. The Employer shall ensure that the same information is uploaded on their website on the same day of dispatch.

28.2 If no consultants submits an application pursuant to ITB 30 within a period of ten(10) days of the notice provided under ITB 28.1, after completing negotiations the Procuring Agency shall award the Contract to the selected Consultant, and:

- (a) as soon as possible notify unsuccessful Consultants, and
- (b) publish a notification of award on the Procuring Agency's website.

28.3 The notifications to all unsuccessful Consultants, and the notification on the Procuring Agency's website, shall include the following information:

- (a) the assignment reference number;
- (b) the name of the winning Consultant and the Financial Proposal total price it offered; and
- (c) the date of the award decision.

28.4 The time taken to notify unsuccessful Consultants and publish the notification of award on the Procuring Agency's website may in no circumstances exceed 15 days from the date of the decision to award the Contract to the successful Consultant.

28.5 Following the decision to award the Contract to the selected

Consultant, the parties shall enter into a written Contract binding on both parties. The Contract shall be compatible with the Applicable Laws of Bhutan. The Contract shall be signed by the duly authorized representatives of the parties and shall bear the date of signature.

28.6 Where both the parties do not sign the Contract simultaneously,

(a) The Procuring Agency shall send to the selected Consultant two original copies of (1) the full agreed Contract and (2) the letter of acceptance (notification of award), each signed by the its duly authorized representative together with the date of signature;

(b) The letter of acceptance shall indicate the deadline by which it must be accepted, which shall normally be not more than 15 days from the date of its receipt by the Consultant;

(c) The Consultant, if he agrees to conclude the Contract, shall sign and date all original copies of the Contract and the letter of acceptance and return one copy of each to the Procuring Agency before the expiry of the deadline indicated in the letter of acceptance;

(d) In case the selected Consultant fails to sign the Contract agreement within the deadline specified in the letter of acceptance the Contract shall be awarded to the next lowest evaluated Consultant. Such a failure shall be considered as withdrawal and the provisions of Clause 17.3 shall apply.

28.7 The Consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.

## **29 Confidentiality**

29.1 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 publication of the award of Contract. The undue use by any Consultant of confidential information related to the process may result in the rejection of its Proposal and may be subject to the provisions of the RGoB's antifraud and corruption policy.

## **30.Complaintand Review**

301. Any consultant has right to complain if it has or is likely to suffer, loss or injury due to breach of a duty imposed on the Procuring Entity by the provisions of this document. The Complaint shall be submitted in writing to the Employer within ten (10) days from the date of intention to award. In the first instance, the consultant who submits Proposal shall submit the complaint to the Employer.

30.2 The consultant may appeal to the Independent Review Body only if the Employer has not delivered the decision within the specified time, or the complainant is not satisfied with the decision of the Employer.

## Instructions to Consultants

### DATA SHEET

*[Comments in brackets provide guidance for the preparation of the Data Sheet; they should not appear on the final RFP to be delivered to the shortlisted Consultants]*

ITC Paragraph Reference	Details
1.1	<p>Name of the Procuring Agency: <b>Phuentsholing Thromde, Phuentsholing, Bhutan.</b></p> <p>Method of selection: <b>Quality and Cost Based Selection Method.</b></p>
1.2	<p>Financial Proposal to be submitted together with Technical Proposal: <b>Yes, in two separate envelopes.</b></p> <p>The name of the assignment is: <b>Geotechnical Investigation and Slope Stability Assessment for Kabraytar and Dhamdara.</b></p> <p>The scope of the assignment:</p> <ol style="list-style-type: none"> <li>1. <i>To assess the geological stability / geotechnical feasibility of the area identified for the implementation of development plan and map different levels of hazard,</i></li> <li>2. <i>To assess the potential adverse impacts of the development project on the geological stability/geotechnical conditions and</i></li> <li>3. <i>To provide appropriate recommendations and mitigation measures to be adopted.</i></li> </ol> <p style="text-align: center;"><b><u>Refer Section-5,TOR for details</u></b></p> <p>Expected time of completion: <b>Hundred Fifty (150) days from the date of award of contract.</b></p>
1.3	<p>A pre-proposal conference will be held: <b>No</b></p> <p>The Procuring Agency 's representative is: <b>Executive Secretary</b> Address: <b>Phuentsholing Thromde.</b></p> <p>Telephone: <b>00 975 2 254312 / 252168-Ext. 124</b> Facsimile: -</p> <p>E-mail: <a href="mailto:wthayey@pcc.bt">wthayey@pcc.bt</a></p>
1.4	<p>The Procuring Agency will provide the following inputs and facilities: <b><u>As stated in the Terms and Reference(TOR),Subsection-8.0</u></b></p>
2.1 (a)	The Procuring Agency envisages the need for continuity for downstream work: <b>No</b>
4.1 (e)	The bidders shall submit a signed Integrity Pact: <b>Yes</b>
7.2	Proposals must remain valid <b>60 days after the submission date</b> , i.e. until: <b>11<sup>th</sup> March, 2019.</b>

10.3	<p>Clarifications may be requested not later than <b>7 days</b> before the submission date.</p> <p>The address for requesting clarifications is: <b>Mr. Govinda Sharma, Chief Urban Planner, Urban Planning Division, Phuentsholing Thromde.</b></p> <p>Facsimile: <b>00 975 5 251100</b>  E-mail: <a href="mailto:gsharma@pcc.bt">gsharma@pcc.bt</a></p>
10.4	A pre-proposal meeting will <b>not</b> be conducted.
11.4 (a)	<p><del>Shortlisted Consultants may associate with other shortlisted Consultants:</del>  <b>Yes _____ No _____</b></p> <p><b><u>This clause is modified</u></b> as follow:</p> <p>The consultancy firms <b>Shall Not</b> be allowed to form Joint Venture / Consortium / Association with Local, Regional or International Firms.</p>
11.4 (b)	The estimated number of professional staff-months required for the assignment is: <b>The firms shall submit estimated man-months required to complete the assignment as specified in the TOR.</b>
12.2	The Proposals, and all other related Correspondences shall be in <b>English</b> .
13.1	The format of the Technical Proposal to be submitted is: <b>Full Technical Proposal (FTP).</b>
13.1 (g)	Training is a specific component of this assignment: <b>No</b>
14.2(b)	<p><i>List the applicable Reimbursable expenses in foreign and in local currency.</i></p> <p><b>There shall be no reimbursable expenses payment. All costs associated to expenditures such as per diem allowance, transport, office space, field verification and data collection, communications, printing plus stationeries, etc. should be included within the fee for consultancy under remunerations and overhead charges.</b></p>
14.3	Consultant to state local cost in Ngultrum: <b>Yes</b>
15.2	<p>Amounts payable by the Procuring Agency to the Consultant under the Contract to be subject to local taxation: <b>Yes</b></p> <p>If affirmative, the Procuring Agency will:</p> <p><b>(i) The Consultant will pay local taxes without reimbursement by the Client.</b></p>
16.3	The Consultant must submit the <b>original</b> and <b>1 identical</b> copy of the Technical Proposal, and the <b>original</b> of the Financial Proposal.
16.7	<p>The Proposal submission address is:</p> <p><b>The Executive Secretary, Phuentsholing Thromde.</b></p> <p>Proposals must be submitted no later than the following date and time:  <b>10<sup>th</sup> January, 2019 at 02.00 PM (BST).</b></p>
20.1	Criteria, sub-criteria and the points system for the evaluation of Technical Proposals are:

	<b>Points</b>
	<p>(i) Specific experience of the Consultancy Firm relevant to the assignment: ----- [ <b>05</b> ]</p> <p>(ii) Adequacy of the proposed methodology and work plan in responding to the Terms of Reference:</p> <p>a) Technical approach and methodology ----- [ <b>15</b> ]</p> <p>b) Work plan ----- [ <b>05</b> ]</p> <p>c) Organization and staffing ----- [ <b>05</b> ]</p> <p style="text-align: right;">Total points for criterion (ii): [ <b>25</b> ]</p> <p>(iii) Key professional staff qualifications and competence for the assignment:</p> <p>a) Team Leader (Geotechnical Engineer / Engg. Geologist) ----- [ <b>25</b> ]</p> <p>b) Geotechnical / Material Engineer ----- [ <b>17</b> ]</p> <p>c) Civil / Structural Engineer ----- [ <b>16</b> ]</p> <p style="text-align: right;">Total points for criterion (iii) : [ <b>58</b> ]</p> <p>The number of points to be assigned to each of the above positions or disciplines shall be determined considering the following three sub-criteria and relevant percentage weights:</p> <p>1) General qualifications ----- [ <b>30%</b> ]</p> <p>2) Adequacy for the assignment ----- [ <b>55%</b> ]</p> <p>3) Experience in region and language ----- [ <b>15%</b> ]</p> <p style="text-align: right;">Total weight: <b>100%</b></p> <p>(iv) Equipments required for this assignment:</p> <p>(a) Penetration Test Equipment- SPT / PPT. ----- [ <b>02</b> ]</p> <p>(b) Seismograph, 24 Channel with all required devices (Set). ----- [ <b>02</b> ]</p> <p>(c) Rotary Core Drilling Machine with all required equipments (Set).---- [ <b>02</b> ]</p> <p style="text-align: right;">Total points for criterion (iv) : [ <b>06</b> ]</p> <p>(v) Suitability of the transfer of knowledge (training) program:  <i>[Normally not to exceed 10 points, although when transfer of knowledge is a particularly important component of the assignment more than 10 points may be allocated; the following sub-criteria may be provided]</i></p> <p>a) Relevance of training program [ <b>0</b> ]</p> <p>b) Training approach and methodology [ <b>0</b> ]</p> <p>c) Qualifications of experts and trainers [ <b>0</b> ]</p> <p style="text-align: right;">Total points for criterion (v): [ <b>0</b> ]</p> <p>(vi) Participation by nationals among proposed key staff -----[ <b>06</b> ]  <i>(not to exceed 10 points) [Sub-criteria shall not be provided]</i></p> <p style="text-align: right;">Total points for the six criteria: <b>100</b></p> <p>The minimum technical score St required to pass is: <b>70 Points</b></p>
<b>21.4</b>	<p>The single currency for price conversions is Bhutanese Ngultrum (BTN).</p> <p>The source of official selling rates is the Royal Monetary Authority of Bhutan.</p> <p>The date of exchange rates is: <b>Bid Submission Date</b></p>
<b>21.5</b>	<p>The formula for determining the financial scores is the following:  <i>[Insert either the following formula]</i></p>

	<p><math>S_f = 100 \times F_m/F</math>, in which <math>S_f</math> is the financial score, <math>F_m</math> is the lowest price and <math>F</math> the price of the proposal under consideration.</p> <p>[or insert another inversely proportional formula]</p> <p>The weights given to the Technical and Financial Proposals are:</p> <p style="text-align: center;"><b>T = 0.8</b></p> <p style="text-align: center;"><b>P = 0.2</b></p>
<b>22.1</b>	Expected date and address for contract negotiations: <b>29<sup>th</sup> January, 2019 in Phuentsholing Thromde.</b>
<b>28.7</b>	Expected date for commencement of consulting services: <b>5<sup>th</sup> February, 2019.</b>

<b>29.0 Break-up of Evaluation Criteria</b>			
	Criteria	Points Allocated	Maximum Score
<b>A.</b>	<b>Specific Experience of the Consultancy Firm relevant to the assignment:</b>		<b>5</b>
(i)	<b>Number of geotechnical and similar works undertaken by the firm after CDB registration</b>		<b>5</b>
•	0 work	0	
•	Only 1 work	1	
•	Up to 2 works	2	
•	Up to 3 works	3	
•	Up to 4 works	4	
•	Above 5 works	5	
<b>B.</b>	<b>Adequacy of the proposed methodology and work plan responding to the Terms and Reference:</b>		<b>25</b>
(i)	<b>Technical approach and methodology</b>		<b>15</b>
✓	Poor	6	
✓	Satisfactory	9	
✓	Good	12	
✓	Very Good	15	
(ii)	<b>Work Plan</b>		<b>5</b>
✓	Satisfactory	2	
✓	Good	3.5	
✓	Very Good	5	
(iii)	<b>Organization and staffing</b>		<b>5</b>
✓	Satisfactory	2	
✓	Good	3.5	
✓	Very Good	5	

<b>C.</b>	<b>Key professional staff qualifications and competence for the assignment:</b>	<b>58</b>
<b>I</b>	<b><i>Team Leader: Masters Degree OR Bachelor Degree in Geotechnical Engineering / Engineering Geology</i></b>	<b>25</b>
<b>I.a</b>	<b><i>General Qualification (30% of 25)</i></b>	<b>7.5</b>
✓	Masters / Bachelor degree in the field of:	
•	Others (Civil / Geology / Mining) with <b><i>no formal training</i></b> in Geotechnical Engg. <b><i>or</i></b> Engg. Geology	0
•	Others (Civil / Geology / Mining) with <b><i>formal training</i></b> in Geotechnical Engg. <b><i>or</i></b> Engg. Geology	3.75
•	Geotechnical Engg. <b><i>or</i></b> Engg. Geology	7.5
<b>I.b</b>	<b><i>Adequacy for the assignment (55% of 25)</i></b>	<b>13.75</b>
»	Masters degree with relevant experience:	
✓	No. of Geotechnical / similar work done	
•	0 work	0
•	1 - 2 work	6.5
•	3 - 4 work	10.5
•	5 work & Above	13.75
	<b>OR</b>	
»	Bachelor degree with relevant experience:	
✓	No. of Geotechnical / similar work done	
•	0 work	0
•	Only 1 work	2.75
•	2 - 3 work	5.5
•	4 - 5 work	8.25
•	6 - 7 work	11
•	8 work & Above	13.75
<b>I.c</b>	<b><i>Experience in region and language (15% of 25)</i></b>	<b>3.75</b>
✓	<b><i>Experience in Region</i></b>	<b>1.875</b>
•	No work experience in Bhutan and similar topographical region.	0
•	Work experience in Bhutan and similar topographical region.	1.875
✓	<b><i>Language Competency</i></b>	<b>1.875</b>
•	Knows only English.	0.625
•	Knows Dzongkha and English.	1.25
•	Knows Dzongkha and English including <u>local dialect</u> of the region(s) where project site(s) is/are located.	1.875

<b>II</b>	<b><i>Geotechnical / Material Engineer: Bachelor Degree OR Diploma in Civil/Geotechnical/ Environmental Engineering/Geology/Mining</i></b>	<b>17</b>
<b>II.a</b>	<b><i>General Qualification (30% of 17)</i></b>	<b>5.1</b>
✓	Bachelor degree / Diploma in the field of:	
•	Others	0
•	Civil / Geotechnical / Environmental Engg./ Geology / Mining	5.1
<b>II.b</b>	<b><i>Adequacy for the assignment (55% of 17)</i></b>	<b>9.35</b>
»	Bachelor degree with relevant experience:	
✓	No. of Geotechnical / similar work done	
•	<b>0</b> work	0
•	<b>1 - 2</b> work	3.5
•	<b>3 - 4</b> work	6.5
•	<b>5</b> work & Above	9.35
<b>OR</b>		
»	Diploma with relevant experience:	
✓	No. of Geotechnical / similar work done	
•	<b>0</b> work	0
•	Only <b>1</b> work	1.87
•	<b>2 - 3</b> work	3.74
•	<b>4 - 5</b> work	5.61
•	<b>6 - 7</b> work	7.48
•	<b>8</b> work & Above	9.35
<b>II.c</b>	<b><i>Experience in region and language (15% of 17)</i></b>	<b>2.55</b>
✓	<b><i>Experience in Region</i></b>	<b>1.275</b>
•	No work experience in Bhutan and similar topographical region.	0
•	Work experience in Bhutan and similar topographical region.	1.275
✓	<b><i>Language Competency</i></b>	<b>1.275</b>
•	Knows only English.	0.425
•	Knows Dzongkha and English.	0.85
•	Knows Dzongkha and English including <u>local dialect</u> of the region(s) where project site(s) is/are located.	1.275

<b>III</b>	<b><i>Civil / Structure Engineer: Bachelor Degree OR Diploma in Civil Engineering</i></b>	<b>16</b>
<b>III.a</b>	<b><i>General Qualification (30% of 16)</i></b>	<b>4.8</b>

III.b	✓	Bachelor degree / Diploma in the field of:	
	•	Others	0
	•	Civil Engineering	4.8
		<b>Adequacy for the assignment (55% of 16)</b>	<b>8.8</b>
	»	Bachelor degree with relevant experience:	
	✓	No. of Civil Engg.works- Structural analysis and designs & drawings of retaining structures / similar work done	
	•	0 work	0
	•	1 - 2 work	3.5
	•	3 - 4 work	6.5
	•	5 work & Above	8.8
<b>OR</b>			
»	Diploma with relevant experience:		
✓	No. of Civil Engg.works- Structural analysis and designs & drawings of retaining structures / similar work done		
•	0 work	0	
•	Only 1 work	1.76	
•	2 - 3 work	3.52	
•	4 - 5 work	5.28	
•	6 - 7 work	7.04	
•	8 work & Above	8.8	
III.c		<b>Experience in region and language (15% of 16)</b>	<b>2.4</b>
✓	<b>Experience in Region</b>	<b>1.2</b>	
•	No work experience in Bhutan and similar topographical region.	0	
•	Work experience in Bhutan and similar topographical region.	1.2	
✓	<b>Language Competency</b>	<b>1.2</b>	
•	Knows only English.	0.4	
•	Knows Dzongkha and English.	0.8	
•	Knows Dzongkha and English including local dialect of the region(s) where project site(s) is/are located.	1.2	

<b>D.</b>	<b>Equipments required for this assignment:</b>	<b>6</b>
✓	Penetration Test Equipment:- SPT / PPT.	2
✓	Seismograph, 24 Channel with all other required devices in set.	2
✓	Rotary Core Drilling Machine with all other required equipments in set.	2

<b>E.</b>	<b>Participation by nationals among proposed key staff:</b>		<b>6</b>
✓	Team Leader	2	
✓	Geotechnical / Material Engineer	2	
✓	Civil / Structural Engineer	2	

The **definitions** of **Sub-criteria** under "*Adequacy of the proposed methodology and work plan*" are stated below:

**a) Technical Approach and Methodology:**

- **Poor:** The technical approach and / or the methodology are inappropriate or very poorly presented, indicating that the consultant has misunderstood important aspects of the scope of work. The list of contents of the Quality Plan (required in the TOR) is missing.
- **Satisfactory:** The way to carry out the different activities of the TOR is discussed generically. The approach is standard and not specifically tailored to the assignment. The list of contents of the Quality Plan (required in the TOR) is provided, but it is generic and does not reflect the specific features of the assignment.
- **Good:** The proposed approach is discussed in full details, and the methodology is specifically tailored to the characteristics of the assignment and flexible enough to allow its adaptation to changes that may occur during execution of the services. The list of contents of the Quality Plan (required in the TOR) is tailored to the specific characteristics of the assignment.
- **Very Good:** In addition to the requirements listed above under “Good,” important issues are approached in an innovative and efficient way, indicating that the consultants have understood the main issues of the assignment and have outstanding knowledge of new solutions. The proposal details ways to improve the results and the quality of the assignment by using state-of-the-art approaches, methodologies, and knowledge. A detailed description of the Quality Plan is provided in addition to its lists of contents.

**b) Work Plan:**

- **Satisfactory:** The activity schedule omits important task; the timing of activities and correlation among them is inconsistent with the approach and/ or methodology proposed. There is lack of clarity and logic in the sequencing.
- **Good:** All key activities are included in the activity schedule, but they are not detailed. There are minor inconsistencies between timing, assignment outputs, and proposed approach.
- **Very Good:** The work plan fits the TOR well; all important activities are indicated in the activity schedule and their timing is appropriate and consistent with the assignment outputs; and the interrelation between the various activities is realistic and consistent with the proposed approach.

**c) Organization and Staffing:**

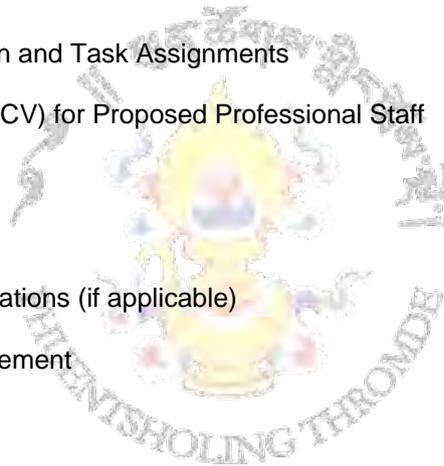
- **Satisfactory:** The organization chart is sketchy, the staffing plan is weak in important areas, and the staffing schedule is inconsistent with timing of the most important outputs of the assignment. There is no clarity in allocation of tasks and responsibilities. The proposed experts have never worked together as a team.
- **Good:** The organization chart is complete and detailed, the technical level and composition of the staffing arrangements are adequate, and staffing is consistent with both timing and assignment outputs.
- **Very Good:** In addition to the definition above in “Good,” staff is very well balanced, that is, they show good coordination, clear and detailed definition of duties and responsibilities, not too many short-term experts, not too many generalists, precise matching of staff skills and needs, and efficient logistic support.



### Section 3: Technical Proposal - Standard Forms

Refer to Reference paragraph 13.1 of the Data Sheet for format of Technical Proposal to be submitted, and paragraph 13.1 of Section 2 of the RFP for Standard Forms required and number of pages recommended.

- TECH-1 Technical Proposal Submission Form
- TECH-2 Consultant's Organization and Experience
  - A. Consultant's Organization
  - B. Consultant's Experience
- TECH-3 Comments or Suggestions on the Terms of Reference and on Counterpart Staff and Facilities to be provided by the Procuring Agency
  - A. On the Terms of Reference
  - B. On the Counterpart Staff and Facilities
- TECH-4 Description of the Approach, Methodology and Work Plan for Performing the Assignment
- TECH-5 Team Composition and Task Assignments
- TECH-6 Curriculum Vitae (CV) for Proposed Professional Staff
- TECH-7 Staffing Schedule
- TECH-8 Work Schedule
- TECH-9 Drawings/Specifications (if applicable)
- TECH-10 Integrity Pact Statement



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## FORM TECH-1: TECHNICAL PROPOSAL SUBMISSION FORM

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[Location, Date]

To: [Name and address of Procuring Agency]

Dear Sirs:

We, the undersigned, offer to provide the Consulting Services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed in a separate envelope<sup>8</sup>.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification. In this regard you may contact any of our previous Employers or the previous Employers of any of our sub-consultants or any of the employees thereof for further information.

If negotiations are held during the period of validity of the Proposal, i.e., before the date indicated in ITC Reference 7.1 of the Data Sheet, 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 undertake, if our Proposal is accepted, to initiate the Consulting Services related to the assignment not later than the date indicated in ITC Reference 28.6 of the Data Sheet and to comply with all the provisions of the Contract.

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

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

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<sup>8</sup> [In case paragraph Reference 13.1 of the Data Sheet requires submission of a Technical Proposal only, replace this sentence with: "We are hereby submitting our Proposal, which includes this Technical Proposal only."]

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## FORM TECH-2: CONSULTANT'S ORGANIZATION AND EXPERIENCE

### A - Consultant's Organization

*[Provide here a brief (two pages) description of the background and organization of your firm/entity and each associate for this assignment.]*

### B - Consultant's Experience

*[Using the format below, provide information on each assignment for which your firm, and each associate for this assignment, was legally contracted either individually as a corporate entity or as one of the major companies within an association, for carrying out consulting services similar to the ones requested under this assignment. Use 20 pages maximum, listing in the order of most recent first.]*

Assignment name:	Approx. value of the contract (in BTN):
Procuring Agency :	Duration of assignment (months):
Address:	Total number of staff months of the assignment:
	Approximate value of the services provided by your firm under the contract (BTN):
Start date (month/year):	N <sup>o</sup> of professional staff-months provided by associated Consultants:
Completion date (month/year):	
Name of associated Consultants, if any:	Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader):
Narrative description of Project:	
Description of actual services provided by your staff within the assignment:	

Firm's Name: \_\_\_\_\_

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**FORM TECH-3: COMMENTS OR SUGGESTIONS ON THE TERMS OF REFERENCE AND ON COUNTERPART STAFF AND FACILITIES TO BE PROVIDED BY THE PROCURING AGENCY**

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**A - On the Terms of Reference**

*[Present and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the assignment (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point, and incorporated in your Proposal.]*

**B - On Counterpart Staff and Facilities**

*[Comment here on counterpart staff and facilities to be provided by the Procuring Agency according to paragraph Reference 1.4 of the Data Sheet including: administrative support, office space, local transportation, equipment, data, etc.]*

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**FORM TECH-4: DESCRIPTION OF THE APPROACH, METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT**

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(For small or very simple assignments the Procuring Agency should omit the following text in Italic)

*[Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal (40 pages, inclusive of charts and diagrams) divided into the following three chapters:*

- a) Technical Approach and Methodology,*
- b) Work Plan, and*
- c) Organization and Staffing,*

**a) Technical Approach and Methodology.** *In this chapter you should explain your understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.*

**b) Work Plan.** *In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Procuring Agency), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8.*

**c) Organization and Staffing.** *In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff.]*



**FORM TECH-6: CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF**

---

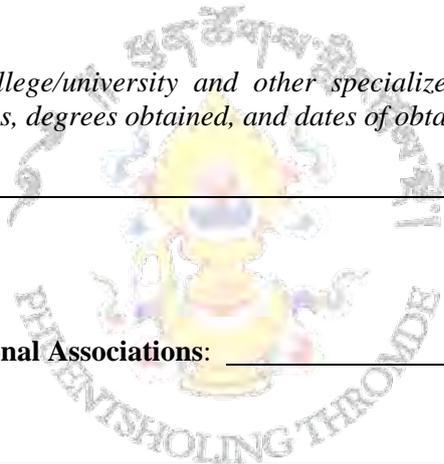
1. **Proposed Position** [*only one candidate shall be nominated for each position*]: \_\_\_\_\_

2. **Name of Firm** [*Insert name of firm proposing the staff*]: \_\_\_\_\_  
\_\_\_\_\_

3. **Name of Staff** [*Insert full name*]: \_\_\_\_\_

4. **Date of Birth:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_

5. **Education** [*Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment*]: \_\_\_\_\_  
\_\_\_\_\_



6. **Membership of Professional Associations:** \_\_\_\_\_  
\_\_\_\_\_

7. **Other Training** [*Indicate significant training since degrees under 5 - Education were obtained*]: \_\_\_\_\_

8. **Countries of Work Experience:** [*List countries where staff has worked in the last ten years*]: \_\_\_\_\_  
\_\_\_\_\_

9. **Languages** [*For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing*]: \_\_\_\_\_  
\_\_\_\_\_

**10. Employment Record** *[Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format herebelow): dates of employment, name of employing organization, positions held.]*

From [Year]: \_\_\_\_\_ To [Year]: \_\_\_\_\_

Employer: \_\_\_\_\_

Positions held: \_\_\_\_\_

<p><b>11. Detailed Tasks Assigned</b></p> <p><i>[List all tasks to be performed under this assignment]</i></p>	<p><b>12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</b></p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.]</i></p> <p>Name of assignment or project: _____</p> <p>Year: _____</p> <p>Location: _____</p> <p>Procuring Agency or Client: _____</p> <p>Main project features: _____</p> <p>Positions held: _____</p> <p>Activities performed: _____</p>
--	--

**13. Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications and my experience. I understand that any willful misstatement herein may lead to my disqualification or dismissal, if engaged.

\_\_\_\_\_  
*[Signature of staff member or authorized representative of the staff]* Date: \_\_\_\_\_  
 \_\_\_\_\_  
*Day/Month/Year*

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

**FORM TECH-7: STAFFING SCHEDULE<sup>1</sup>**

N°	Name of Staff	Staff input (in the form of a bar chart) <sup>2</sup>													Total staff-month input			
		1	2	3	4	5	6	7	8	9	10	11	12	n	Home	Field <sup>3</sup>	Total	
<b>Foreign</b>																		
1		[Home]																
		[Field]																
2																		
N																		
													<b>Subtotal</b>					
<b>Local</b>																		
1		[Home]																
		[Field]																
2																		
N																		
													<b>Subtotal</b>					
													<b>Total</b>					

- 1 For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).
- 2 Months are counted from the start of the assignment. For each staff indicate separately staff input for home and field work.
- 3 Field work means work carried out at a place other than the Consultant's home office.

 Full time input  
 Part time input



**FORM TECH-9: DRAWINGS/SPECIFICATIONS (IF APPLICABLE)**

---

*[Provide here a list of drawings and specifications (if any) contained within the Technical Proposal, and annex these hereto.]*



**FORM TCH-10: INTEGRITY PACT****INTEGRITY PACT****1 General:**

Whereas **Mr. Wangchuk Thayey, Executive Secretary** representing the **Phuentsholing Thromde**, Royal Government of Bhutan, hereinafter referred to as the **“Employer”** on one part, and *(Name of bidder or his/her*

*authorized representative, with power of attorney)*.....

representing M/s. *(Name of firm)*.....

hereinafter referred to as the **“Bidder”** on the other part hereby execute this agreement as follows:

This agreement shall be a part of the standard bidding document, which shall be signed by both the parties at the time of purchase of bidding documents and submitted along with the tender document. This IP is applicable only to **“large”** scale works, goods and services, the threshold of which will be announced by the government from time to time. The signing of the IP shall not apply to framework contracting such as annual office supplies etc.

**2 Objectives:**

Whereas, the Employer and the Bidder agree to enter into this agreement, hereinafter referred to as IP, to avoid all forms of corruption or deceptive practice by following a system that is fair, transparent and free from any influence/unprejudiced dealings in the **bidding process**<sup>8</sup> and **contract administration**<sup>9</sup>, with a view to:

- 2.1 Enabling the Employer to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works or goods or services; and
- 2.2 Enabling bidders to abstain from bribing or any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also refrain from bribing and other corrupt practices.

**3. Scope:**

The validity of this IP shall cover the bidding process and contract administration period.

**4. Commitments of the Employer:**

The Employer Commits itself to the following:-

- 4.1 The Employer hereby undertakes that no officials of the Employer, connected directly or indirectly with the contract, will demand, take a promise for or accept,

<sup>8</sup> Bidding process, for the purpose of this IP, shall mean the procedures covering tendering process starting from bid preparation, bid submission, bid processing, and bid evaluation.

<sup>9</sup> Contract administration, for the purpose of this IP, shall mean contract award, contract implementation, unauthorized sub-contracting and contract handing/taking over.

**Name of Work:** *Geotechnical Investigation and Slope Stability Assessment for Kabraytar and Dhamdara, Phuentsholing Thromde*

directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process and contract administration.

- 4.2 The Employer further confirms that its officials shall not favor any prospective bidder in any form that could afford an undue advantage to that particular bidder in the bidding process and contract administration and will treat all Bidders alike.
- 4.3 Officials of the Employer, who may have observed or noticed or have reasonable suspicion shall report to the head of the employing agency or an appropriate government office any violation or attempted violation of clauses 4.1 and 4.2.
- 4.4 Following report on violation of clauses 4.1 and 4.2 by official (s), through any source, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the Employer and such a person shall be debarred from further dealings related to the bidding process and contract administration.

## 5. Commitments of Bidders

The Bidder commits himself/herself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of the bidding process and contract administration in order to secure the contract or in furtherance to secure it and in particular commits himself/herself to the following:-

- 5.1 The Bidder shall not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Employer, connected directly or indirectly with the bidding process and contract administration, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding process and contract administration.
- 5.2 The Bidder shall not collude with other parties interested in the contract to manipulate in whatsoever form or manner, the bidding process and contract administration.
- 5.3 If the bidder(s) have observed or noticed or have reasonable suspicion that the provisions of the IP have been violated by the procuring agency or other bidders, the bidder shall report such violations to the head of the procuring agency.

## 6. Sanctions for Violation:

The breach of any of the aforesaid provisions shall result in administrative charges or penal actions as per the relevant rules and laws.

- 6.1 The breach of the IP or commission of any offence (forgery, providing false information, mis-representation, providing false/fake documents, bid rigging, bid



steering or coercion) by the Bidder, or any one employed by him, or acting on his/her behalf (whether with or without the knowledge of the Bidder), shall be dealt with as per the terms and conditions of the contract and other provisions of the relevant laws, including De-barment Rules.

6.2 The breach of the IP or commission of any offence by the officials of the procuring agency shall be dealt with as per the rules and laws of the land in vogue.

**7. Monitoring and Administration:**

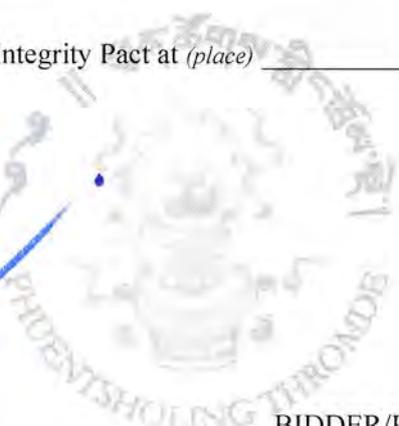
7.1 The respective procuring agency shall be responsible for administration and monitoring of the IP as per the relevant laws.

7.2 The bidder shall have the right to appeal as per the arbitration mechanism contained in the relevant rules.

We, hereby declare that we have read and understood the clauses of this agreement and shall abide by it.

The parties hereby sign this Integrity Pact at (place) \_\_\_\_\_ on (date) \_\_\_\_\_

  
EMPLOYER



Affix  
Legal  
Stamp

BIDDER/REPRESENTATIVE

CID : 

1	0	7	0	9	0	0	0	2	0	5
---	---	---	---	---	---	---	---	---	---	---

CID : 

--	--	--	--	--	--	--	--	--	--	--

Witness: 

Witness: \_\_\_\_\_

Name: Govinda Sharma

Name: \_\_\_\_\_

CID : 

1	1	2	1	4	0	0	0	7	2	7
---	---	---	---	---	---	---	---	---	---	---

CID : 

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**Name of Work:** *Geotechnical Investigation and Slope Stability Assessment for Kabraytar and Dhamdara, Phuentsholing Thromde*

## Section 4: Financial Proposal - Standard Forms

*[Comments in brackets [ ] provide guidance to the Consultants for the preparation of their Financial Proposals; they should not appear on the Financial Proposals to be submitted.]*

Financial Proposal Standard Forms shall be used for the preparation of the Financial Proposal according to the instructions provided under paragraph 14 of Section 2. Such Forms are to be used whichever is the selection method indicated in the fourth paragraph of the Letter of Invitation.

*[The Appendix “Financial Negotiations - Breakdown of Remuneration Rates” is only to be used for financial negotiations when Quality-Based Selection, Selection Based on Qualifications, or the Single-Source Selection method is adopted, according to the indications provided under paragraph 24 of Section 2.]*

FIN-1 Financial Proposal Submission Form

FIN-2 Summary of Costs

FIN-3 Breakdown of Costs by Activity

FIN-4 Breakdown of Remuneration

~~FIN-5 Breakdown of Reimbursable Expenses~~

Appendix: Financial Negotiations - Breakdown of Remuneration Rates



**FORM FIN-1: FINANCIAL PROPOSAL SUBMISSION FORM**

[Location, Date]

To: [Name and address of Procuring Agency ]

Dear Sirs:

We, the undersigned, offer to provide the Consulting Services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal. Our attached Financial Proposal is for the sum of [Insert amount(s) in words and figures<sup>11</sup>]. This amount is inclusive of local taxes.

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. before the date indicated in paragraph Reference 7.1 of the Data Sheet.

Commissions and gratuities paid or to be paid by us to agents relating to this Proposal and Contract execution, if we are awarded the Contract, are listed below<sup>12</sup>:

Name and Address of Agent	Amount and Currency	Purpose of Commission or Gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

<sup>11</sup> Amounts must coincide with the ones indicated under Total Cost of Financial Proposal in Form FIN-2.

<sup>12</sup> If applicable, replace this paragraph with: "No commissions or gratuities have been or are to be paid by us to agents relating to this Proposal and Contract execution."

---

**FORM FIN-2: SUMMARY OF COSTS**


---

<b>Item</b>	<b>Costs in Ngultrum</b>
Total Costs of Financial Proposal <sup>16</sup>	




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<sup>16</sup> Indicate the total costs, net or inclusive of local taxes (as maybe the case), to be paid by the Procuring Agency in each currency. Such total costs must coincide with the sum of the relevant Subtotals indicated in all Forms FIN-3 provided with the Proposal.

**FORM FIN-3 : BREAKDOWN OF COSTS BY ACTIVITY**

<b>Group of Activities (Phase)</b> <sup>17</sup> _____ _____	<b>Description</b> <sup>18</sup> _____ _____
<b>Cost Component</b>	<b>Costs in Ngultrum</b>
Remuneration	
<b>Subtotals</b>	



<sup>17</sup> Form FIN-3 shall be filled in at least for the whole assignment. In case some of the activities require different modes of billing and payment (e.g.: the assignment is phased, and each phase has a different payment schedule), the Consultant shall fill in a separate Form FIN-3 for each group of activities. For each currency, the sum of the relevant Subtotals of all Forms FIN-3 provided must coincide with the Total Costs of Financial Proposal indicated in Form FIN-2.

<sup>18</sup> Names of activities (phase) should be the same as, or correspond to, the ones indicated in the second column of Form TECH-8.

## 2 FORM FIN-4: BREAKDOWN of Remuneration

(This Form FIN-4 shall only be used when the Lump-Sum Form of Contract has been included in the RFP. Information to be provided in this Form shall only be used to establish payments to the Consultant for possible additional services requested by the Procuring Agency)

Name <sup>32</sup>	Position	Staff-month Rate <sup>34</sup>
<b>Foreign Staff</b>		
		[Home]
		[Field]
<b>Local Staff</b>		
		[Home]
		[Field]

<sup>32</sup> Professional Staff should be indicated individually; Support Staff should be indicated per category (e.g.: draftsmen, clerical staff).

<sup>34</sup> Indicate separately staff-month rate and currency for home and field work.

## Appendix

### **Financial Negotiations - Breakdown of Remuneration Rates** (Not to be used when cost is a factor in the evaluation of Proposals)

#### **1. Review of Remuneration Rates**

- 1.1 The remuneration rates for staff are made up of salary, social costs, overheads, fee (ie profit), and any premium or allowance paid for assignments away from headquarters. To assist the Consultant in preparing financial negotiations, a Sample Form giving a breakdown of rates is attached (no financial information should be included in the Technical Proposal). Agreed breakdown sheets shall form part of the negotiated Contract.
- 1.2 The Procuring Agency is charged with the custody of government funds and is expected to exercise prudence in the expenditure of these funds. The Procuring Agency is, therefore, concerned with the reasonableness of the Consultant's Financial Proposal, and during negotiations it expects to be able to review audited financial statements backing up the Consultant's remuneration rates, certified by an independent auditor. The Consultant shall be prepared to disclose such audited financial statements up to the last three years, to substantiate its rates, and to accept that its proposed rates and other financial matters are subject to scrutiny. Rate details are discussed below.
- (i) **Salary**  
This is the gross regular cash salary paid to the individual in the Consultant's home office. It shall not contain any premium for work away from headquarters or bonus (except where these are included by law or Royal Government of Bhutan regulations).
  - (ii) **Bonus**  
Bonuses are normally paid out of profits. Because the Procuring Agency does not wish to make double payments for the same item, staff bonuses shall not normally be included in the rates. Where the Consultant's accounting system is such that the percentages of social costs and overheads are based on total revenue, including bonuses, those percentages shall be adjusted downward accordingly. Where national policy requires that 13 months' pay be given for 12 months' work, the profit element need not be adjusted downward. Any discussions on bonuses shall be supported by audited documentation, which shall be treated as confidential.
  - (iii) **Social Costs**  
Social costs are the costs to the Consultant of staff's non-monetary benefits. These items include, *inter alia*, social security including pension, medical and life insurance costs, and the cost of a staff member being sick or on vacation. In this regard, the cost of leave for public holidays is not an acceptable social cost nor is the cost of leave taken during an assignment if no additional staff replacement has been provided. Additional leave taken at the end of an assignment in accordance with the Consultant's leave policy is acceptable as a social cost.
  - (iv) **Cost of Leave**  
The principles of calculating the cost of total days leave per annum as a percentage of basic salary shall normally be as follows:

$$\text{Leave cost as percentage of salary}^{40} = \frac{\text{total days leave} \times 100}{[365 - w - ph - v - s]}$$

It is important to note that leave can be considered a social cost only if the Procuring Agency is not charged for the leave taken.

(v) Overheads

Overhead expenses are the Consultant's business costs that are not directly related to the execution of the assignment and shall not be reimbursed as separate items under the Contract. Typical items are home office costs (partner's time, non-billable time, time of senior staff monitoring the project, rent, support staff, research, staff training, marketing, etc.), the cost of staff not currently employed on revenue-earning projects, taxes on business activities and business promotion costs. During negotiations, audited financial statements, certified as correct by an independent auditor and supporting the last three years' overheads, shall be available for discussion, together with detailed lists of items making up the overheads and the percentage by which each relates to basic salary. The Procuring Agency does not accept an add-on margin for social charges, overhead expenses, etc., for staff who are not permanent employees of the Consultant. In such case, the Consultant shall be entitled only to administrative costs and fee on the monthly payments charged for subcontracted staff.

(vi) Fee or Profit

The fee or profit shall be based on the sum of the salary, social costs, and overhead. If any bonuses paid on a regular basis are listed, a corresponding reduction in the profit element shall be expected. Fee or profit shall not be allowed on travel or other reimbursable expenses, unless in the latter case an unusually large amount of procurement of equipment is required. The Consultant shall note that payments shall be made against an agreed estimated payment schedule as described in the draft form of the Contract.

(vii) Away from Headquarters Allowance or Premium

Some Consultants pay allowances to staff working away from headquarters. Such allowances are calculated as a percentage of salary and shall not draw overheads or profit. Sometimes, by law, such allowances may draw social costs. In this case, the amount of this social cost shall still be shown under social costs, with the net allowance shown separately. For concerned staff, this allowance, where paid, shall cover home education, etc.; these and similar items shall not be considered as reimbursable costs.

(viii) Subsistence Allowances

Subsistence allowances are not included in the rates, but are paid separately and in local currency. No additional subsistence is payable for dependents—the subsistence rate shall be the same for married and single team members.

UNDP standard rates for Bhutan may be used as reference to determine subsistence allowances.

<sup>40</sup> Where  $w$  = weekends,  $ph$  = public holidays,  $v$  = vacation and  $s$  = sick leave.

**2. Reimbursable expenses**

- 2.1 The financial negotiations shall further focus on such items as out-of-pocket expenses and other reimbursable expenses. These costs may include, but are not restricted to, cost of surveys, equipment, office rent, supplies, international and local travel, computer rental, mobilization and demobilization, insurance and printing. These costs may be either unit rates or reimbursable on the presentation of invoices, in foreign or local currency.

**3. Bank Guarantee**

- 3.1 Payments to the Consultant, including payment of any advance based on cash flow projections covered by a bank guarantee, shall be made according to an agreed estimated schedule ensuring the Consultant regular payments in local and foreign currency, as long as the Services proceed as planned.



## Sample Form

Consulting Firm:

Assignment:

Date:

### Consultant's Representations Regarding Costs and Charges

We hereby confirm that:

- (a) the basic salaries indicated in the attached table are taken from the firm's payroll records and reflect the current salaries of the staff members listed which have not been raised other than within the normal annual salary increase policy as applied to all the firm's staff;
- (b) attached are true copies of the latest salary slips of the staff members listed;
- (c) the away from headquarters allowances indicated below are those that the Consultant has agreed to pay for this assignment to the staff members listed;
- (d) the factors listed in the attached table for social charges and overhead are based on the firm's average cost experiences for the latest three years as represented by the firm's financial statements; and
- (e) said factors for overhead and social charges do not include any bonuses or other means of profit-sharing.

\_\_\_\_\_  
*[Name of Consulting Firm]*

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Date

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**Standard Form: Letter of Intent**  
*(Letterhead paper of the Employer)*

**Notes on standard form of letter of Intent**

*This issuance of Letter of Intent is the information of the selection of the Proposal of the successful Consultant by the Employer and for providing information to other unsuccessful Consultants who participated in the Proposal as regards the outcome of the procurement process*

*The Employer shall allow 10 days as described in ITC 28.2 between this letter of intent and letter of acceptance to allow aggrieved Consultants to challenge your decision if they feel they have treated unfairly.*

*(Insert date)*

To:-----[Name and address of the Consultant]

This is to notify you that, it is our intention to award the contract for your proposal dated [Insert date] for provision of (modify as appropriate)-----  
-----[Insert name of the contract and identification number, as given in the Datasheet] for the Contract Price of-----[Insert name of currency] as corrected and modified[if any corrections] in accordance with the Instructions to Consultant.

Authorized Signature: -----

Name and Title of Signatory:-----

Name of Agency: -----

CC:

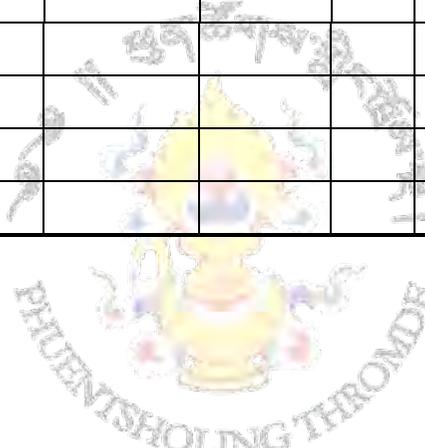
[Insert name and address of all other Consultants who submitted the Proposals]

### Consultant’s Representations Regarding Costs and Charges

(Expressed in Ngultrum)

Personnel		1	2	3	4	5	6	7	8
Name	Position	Basic Salary per Working Month/Day/Year	Social Charges <sup>1</sup>	Overhead <sup>1</sup>	Subtotal	Fee <sup>2</sup>	Away from HQ Allowance	Proposed Fixed Rate per Working Month/Day/Hour	Proposed Fixed Rate per Working Month/Day/Hour <sup>1</sup>
Home Office									
Field									

1. Expressed as percentage of 1
2. Expressed as percentage of 4



## Section 5: Terms of Reference (TOR)

### 1. Background:

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#### Phuentsholing Thromde:

Phuentsholing Thromde is strategically located on the Indo-Bhutan border adjoining the Indian state of West Bengal. Phuentsholing, a vibrant city and an important Thromde of Chhukha Dzongkhag is a gateway to the country. Due to its nearness to the Indian border it has created a strong economic base and attracts people from various parts of the country and from across the border for trading purpose. People from the surrounding villages are dependent on Phuentsholing for their daily needs and livelihood. With higher industrial growth in Pasakha, proposal for a reclamation township project on the Ammo Chhu and increasing level of commercial activities, Phuentsholing is considered as one of the most important growth centers of Bhutan.

Phuentsholing enjoys a warm, sub-tropical to temperate climate with an average annual rainfall varying between 500-1000 mm. The average daily winter temperature varies between 5-18°C and the average daily temperature during summer varies between 20-38°C. It experiences all four seasons with a heavy monsoon rain for about three months starting from June. During the summer the weather is much warmer and wetter. Therefore, infrastructure development is always a challenge due to the erratic nature of rain fall in summer.

The entire area of Phuentsholing comes under Tertiary Himalayan geology. It is located in southern Bhutan at latitude 26° 51' N and 89° 23' E and the altitude of 160 m above mean sea level. Phuentsholing occupies the river terraces of the Om Chhu, which are defined by the steeply rising foothills of the Himalayas, to the North and East, and by the Ammo Chhu to the west. The urban center slopes gently (1-4% slope) towards the Om Chhu and Ammo Chhu rivers. The hill slopes are prone to slips and landslides in the relatively weak zone. The landslide-affected areas are Hatidunga, Rinchending, pockets along Thimphu Highway, Ammo Chhu bed, Dhamdara and Kabraytar.

Phuentsholing Thromde has an area of about 20 sq.km including the area identified for Amochu Land Development & Township Project. Further the structure plan has been divided into eleven (11) Local Area Plans (LAPs). Toorsatar on the west and Pasakha in the east. With the finalization of all the Local Area Plans, Thromde is in the process of implementing all of them. However, during the recent preliminary field survey with the MoWHS officials, it was found that major part of the LAPs in Thromde has slope instability owing to steep topography with fragile geologic conditions associated with other destabilizing factors such as prolong weathering, faulting, folding, deforestation, human activities, intense rain fall, and slope under cutting. Intense and prolonged rainfall not only contributes to rapid erosion and weathering of the rock mass, but also increases the ground water table that leads to reduction in the stability of the natural slopes.

The DGM report of 2010 also states that, the area is an active tectonically uplifted compounded with fragile geologic conditions and geomorphologic processes.

Based on the fact stated above, it has become necessary for Thromde to carry out detailed geotechnical investigation prior to implementation of development plans. It aims to ascertain the feasibility for development in the planned area, and have appropriate mitigation measures in place for the development to happen in a safer manner. As the developable land within the Thromde is limited and housing has been always an issue,

Thromde would also like to look into the possibilities of regaining some more developable land wherever possible within the permissible range of the development guidelines.

Currently, the Thromde has indentified **Kabraytar** and **Dhamdara** Local Area Plans (LAPs) to carryout detailed **geotechnical investigation and stability assessment**. The **size of the study area** is about **410.20 acres (1.66 sq.km)**.

Refer **Annex-I: Study Area** in the attachment.

*It is to be noted that, the findings of this study must contain factual information. All the technical aspects, mitigations and recommendation of the report must be well covered. This report will be treated as a key document for the implementation of local area plans (LAPs).*

## **2. Objective:**

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The objectives of this study are:

1. To assess the geological stability/geotechnical feasibility of the area identified for the implementation of development plan and map different level of hazards,
2. To assess the potential adverse impacts of the development project on the geological stability/geotechnical conditions and
3. To provide appropriate recommendations and mitigation measures to be adopted.

The assignment will involve thorough field investigations, stability assessment and analysis, and data collection encompassing geology, topography, hydrology, flood, land-use and any other geotechnical aspects that impose risk to developmental activity and environment. It should also develop risk mitigation action plan to minimize the adverse effects of above factors to developmental activity and environment. The findings and recommendations of this study will be used to implement the plans, and carryout revisions if required.

## **3. Scope of Work:**

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Identification and assessment of potential geotechnical/geological and other hazards and impacts on environment. This should be based on desk study, field study, field and laboratory tests and data collected from field covering land-use, topography, geology, hydrogeology, flood, hydrology (but not limited to these factors) in the study area. The field survey should be supplemented with various baseline data (maps, satellite imagery, scientific literature etc.) and study should be conducted within the study area.

The scope of work for the entire study area to be investigated includes, but not limited to the following:

- a) Undertake field trips to the identified area and carry out detailed field work to confirm desk study interpretation and gather supplementary data.
- b) Identify, assess and prepare instability inventory maps (landslides, erosion, debris flow, scouring, toe erosion, creep, subsidence, land degradation, rock fall, planner failure, wedge failure, toppling etc.) within the study area and indicate the level of hazard posed by the instabilities.
- c) Identify and assess slope of the study area indicating the slope classification and level of hazards posed by the topography.
- d) Study and analyze the different types of hazards from different sources.
- e) Identify and assess geomorphology of study area and map instabilities.
- f) Identify, assess and mark on map all water bodies (springs, creek, stream both seasonal and perennial, seepages, rivers etc.) that have impacts on the study area.
- g) Identify and assess the strength of geological materials by conducting necessary field and laboratory tests and analysis. **All the required laboratory tests** shall be conducted for the samples collected from the sites to determine the geotechnical properties.

**\* The tests shall be carried out as per relevant Indian Standard Codes.**

- h) Perform slope stability analysis (both soil and rock slopes) and correlate the instabilities with geology (rock type, soil and deposits), topography (slopes), land-use, flood, hydrology (rainfall, seepages, and ground water) and determine the most significant factors that are responsible for causing the instabilities.
- i) Inspect high risk locations to define potential engineering solutions.
- j) Determine requirements for engineering structures such as retaining walls, Landscaping and complementary bioengineering applications.
- k) Preparation of final multi-hazard map for the project area. This map shall cover not only hazard from geological facet, but also from all levels of other hazards. While deriving the different levels of hazards, each hazard should be properly analyzed and justified. Applicable measures should be suggested to mitigate such hazards.

### **3.1: Field Investigations:**

Geotechnical investigations shall be performed to obtain data on physical characteristics of soil/rock of the identified project site. The investigations shall be conducted using invasive techniques, and shall cover the following:

- PPT/SPT.
- Pit Excavations / Trial Pits.
- Geophysical Test-Seismic Refraction Survey.
- Rotary Core Drilling.
- Permeability Test.

The tests procedures shall be carried out in accordance with the specified international standard (e.g., ASTM Standard, British Standard and Internal Society of Rock Mechanics (ISRM) and Indian Standard.

Skilled Drilling Crew-Technicians or Foreman shall be deployed, and all the field tests shall be directed, supervised and monitored by the Geotechnical Expert(s)-Team Leader.

All boreholes and trail pits shall be sealed after completion by backfilling and proper compaction.

All the test locations shall be recorded using high-end GPS coordinates (Easting, Northing and Elevation with Soil / Lithology Descriptions). All investigation logs (test pits, boring and PPT logs) and field findings including GPS records shall be compiled and input into GIS database (ESRI shape file/geodatabase formats) for future use.

The consultancy firm shall perform all field work in accordance with its Site-Specific Health and Safety Plan. The firm is responsible for ensuring safety of an environment and its personnel. The procuring agency is not liable in case of any injury /accident occurred during the fieldwork.

The specifications of each field test in this exploration phase are described below.

**a) Portable Penetration Test (PPT):**

The Portable Penetration Test shall be performed to measure the strength of in-situ soil, thickness and location of subsurface soil layers. It is essential to determine the soil density and properties at that level, and to estimate approximate shear strength parameters.

Minimum Requirements	
Number of PPT	Details
20 + 5 Additional= <b>25 Tests</b>	<ul style="list-style-type: none"> <li>• Minimum <b>Depth</b> shall be <b>2.5m</b> from the natural ground level.</li> <li>• Shall maintain records of Soil Type, Ground Conditions, Test No./ Location ID, Name of Location, GPS Coordinates and Date of Test carried out.</li> </ul>

**b) Pit Excavations / Trial Pits:**

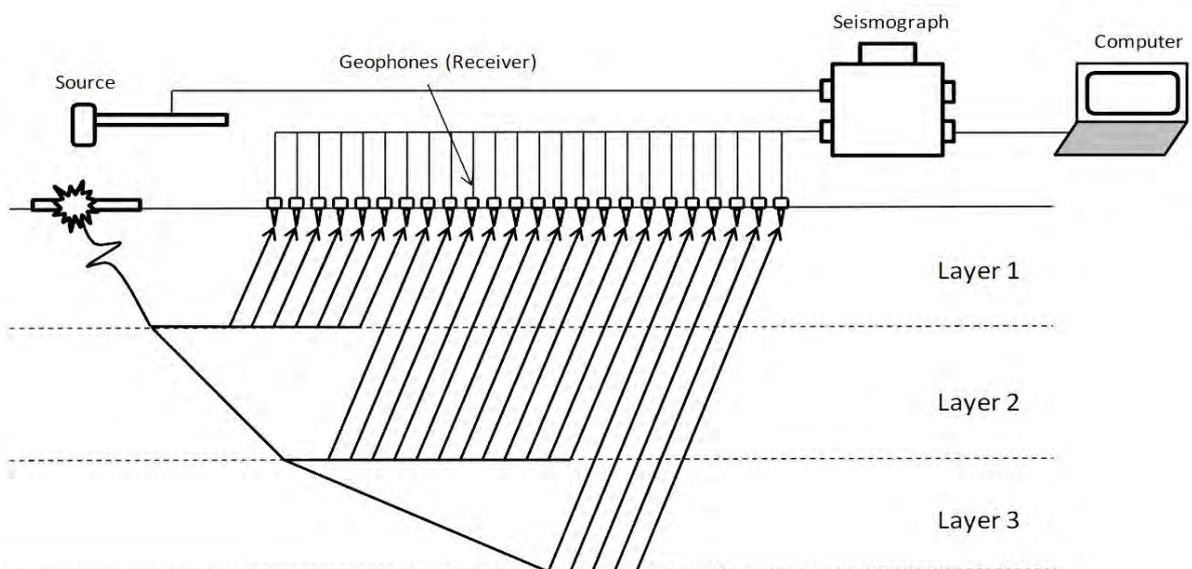
Pit Excavations or Trial Pit investigation shall be carried out for obtaining information on the subsurface soil conditions, detailed visual examination of the strata, to understand the near surface soil composition, and to collect undisturbed samples for laboratory test.

Minimum Requirements	
Number of Pit Excavations/Trial Pits	Details
<b>20 Pits</b>	<ul style="list-style-type: none"> <li>• <b>Pit size</b> shall be 1.5m x 1.5mx <b>3.0m depth</b> from the natural ground level.</li> <li>• Shall carryout visual and tactile examination of test pits, recording / logging soil types, compositions and classifications.</li> <li>• Shall maintain photographic record of soil profile.</li> </ul>

	<ul style="list-style-type: none"> <li>• Describe Soil Type, Ground Conditions and Test No./ Location ID.</li> <li>• Shall collect Samples from the bottom of pits for laboratory tests to determine stiffness and other properties.</li> <li>• Describe Name of Location, GPS Coordinates and Date of Excavations.</li> </ul>
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**c) Geophysical Test-Seismic Refraction Survey:**

The objective of this test is to determine the potential weak zone of the slope within the study area. The test shall be conducted in *three (3) active landslide* locations and *other unstable areas*. It shall be carried out to identify the instability, obtain subsurface profile and location of weak zone such as fractures, fault and information of all overlying layers including soil thickness, bedrock profile, rock quality & depth, topography of ground water / water table. This survey shall be performed to furnish insight in to the slope stratigraphy, as well as the dimensions of sliding area, depths of slope failure surfaces and the lateral extent of landslides. It also includes identifying sliding surface geometry, water effect on slope, landslide material physical properties and mass movement. **Intercept-Time, General Reciprocal Method (GRM) and Refraction Tomography** methods shall be used to interpret seismic refraction data. Refraction data shall be analyzed using recognized software package to obtain seismic velocity profile distribution. Field observations, trial pits and drill-hole data shall be used to verify the accuracy of seismic refraction data. The seismic refraction data shall be used to produce two-dimensional (2D) images of subsurface of all unstable and landside areas. The results of seismic investigation shall be integrated with other subsurface data for slope stability analysis.



**Diagrammatical Representation of Seismic Refraction Survey and the Refracted Wave**

<b>Minimum Requirements</b>	
<b>Number of Tests</b>	<b>Details</b>
<ul style="list-style-type: none"> <li>▪ <b>6 Profile Lines</b> in the <b>3</b> active landslide locations.</li> <li>▪ <b>2 Profile line</b> in each landslide as described below: Profile Length of <b>115m</b> along the landslide slope, and <b>115m</b> across landslide slope. <b>Seismic profile</b> length in each landslide is <b>230m</b>.</li> <li>▪ <b>Lump sum</b> profile length of <b>300m</b> in other suspected <b>unstable areas</b> within the study area.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>The seismic refraction survey</b> shall be performed using Seismograph of signal enhancement type fully digital, 24 channel along with all other accessories- High frequency Geophones, Spread cable (water proof joints) with 24 take-outs, 8-10 kg Sledgehammer, Striker Plate, Controller (Laptop), and appropriate data processing software, preferably a product from Geometrics Inc.</li> <li>• Prior to collecting seismic data, field reconnaissance shall be carried out to determine most suitable locations of seismic lines.</li> <li>• The procedure for carrying out the test, recording and analysis of results and their presentation shall conform to International Standard.</li> <li>• A high-resolution seismic refraction method shall be used in all targeted areas to collect refraction data within a minimum accuracy of 5% of actual depths.</li> <li>• The <b>spacing</b> of geophones shall be <b>5m</b>.</li> <li>• Shot points (signal generation locations) shall be conducted along the lines at the ends, midpoint, and intermediate points between the ends and the midpoint.</li> <li>• Both General Reciprocal Method (GRM) &amp; Refraction Tomography methods shall be used to interpret seismic refraction data.</li> <li>• Use of <b>explosives</b> is not recommended.</li> <li>• All these tests shall be undertaken by a suitably qualified and experienced geotechnical expert(s) <b>or</b> trained skilled geotech technician(s) under the guidance of geotechnical expert(s) / Team Leader.</li> <li>• Proper care during testing shall be taken to avoid disturbance caused due to the movement of vehicle or other working operations around the test location.</li> <li>• Shall maintain record of Location Name, GPS Coordinates and Date of tests carried out.</li> </ul>

**d) Rotary Core Drilling:**

The purpose of this test is determine the ground (soil and rock) properties and characteristics ( physical, chemical etc.) for the active landslide areas. Exploratory drilling provides visual insight of geological and geotechnical profile of the explored site. The most important result of the exploratory drilling is the drilling core that represents the depth profile of the investigation site. Boreholes shall be used for sampling materials from greater depths which is not possible with trial pits and other methods. The Standard Penetration Test for soil and Rock Quality Designation (RQD) for rock types shall be included in this borehole test. Therefore, the consulting firm shall determine SPT N-value, collect SPT samples, both disturbed and un-disturbed samples for laboratory test.

Disturbed samples shall be collected for soil type verification. Undisturbed sample shall be tested for moisture content, bulk density and unconsolidated undrained triaxial compression strength test and mechanical analysis for all the boreholes. For the rock, the consultant shall determine the depth of disintegration zone (RDZ) for each boring, and also determined the percent recovery and rock quality designation (RQD) for each core run.

After core extraction from the exploration borehole, the firm shall examine and describe the **borehole profile**. The borehole profile includes depth tags, ground types, layer changes, extensive description of the types and characteristics of individual layers and standard markings. In addition, the data on drilling tests and lab tests shall be included in the profile. Such results will provide accurate insight into the sequence and properties of layers at different ground depths.

Minimum Requirements	
Number of Borehole	Details
<p><b>6 Boreholes</b></p> <p>2 Boreholes in <b>each</b> active landslide location. Currently, there are 3 active landslides in the study area.</p>	<ul style="list-style-type: none"> <li>• <b>Depth</b> of Borehole shall be <b>30m</b> from the natural ground level.</li> <li>• Appropriate <b>casing types</b> and <b>sizes</b> shall be used to obtain best core samples.</li> <li>• <b>SPT</b> shall be carried out in the boreholes at regular interval of <b>5m depth</b>, and recover the samples for laboratory tests.</li> <li>• Collect undisturbed Soil Samples, if cohesive soil strata is met.</li> <li>• Shall collect at-least <b>6 samples</b> from each borehole for laboratory test, out of which <b>3 samples</b> shall be <b>rock core</b>, <b>3</b> for <b>soil core</b> for laboratory testing.</li> <li>• Shall observe and maintain record of ground water table.</li> <li>• Shall carryout visual and tactile examination of each samples, describe material type (soil/rock) and maintain record of <b>Depth</b> from the surface, elevation details. and photographic records of each sample shall also be maintained.</li> <li>• Borehole log shall be as per relevant IS Code.</li> <li>• Describe Borehole Test No. / Location ID, Name of Location, GPS Coordinates and Date of Borehole tests.</li> </ul>

**e) In-situ Permeability Test:**

The field permeability test shall be carried out in the boreholes to determine permeability of subsurface soil/rock strata as well as to ascertain overall permeability of strata.

The permeability of rock is an important property that is used for the classification of rock and in the design of structures in, on, or with rock. Permeability property controls the movement of and storage of fluids in rocks, and represents an important characteristic of materials. On the basis of known permeability, possible solutions of engineering constructions shall be recommended.

Permeability and porosity also have impact on rock weathering. When there is a certain degree of strong weathered and weak interlayer in the slope due to water softening effect of weak interlayer, the slopes are more prone to instability.

The borehole and permeability data shall be used for slope stability analysis.

Minimum Requirements	
Number of Permeability Test	Details
<p><b>18 tests for Soil Core, and 18 tests for Rock Core;</b> in the entire Borehole drillings.</p>	<ul style="list-style-type: none"> <li><b>6 tests</b> in each Borehole.</li> <li><b>3 tests for Rock permeability,</b> and</li> <li><b>3 tests for Soil permeability</b></li> <li>Permeability for Soil Core shall be tested by Constant Head method, and Packer Test for Rock Core.</li> <li><b>These tests</b> shall be performed in the landslide areas to determine the permeability of soil and rock strata in the subsurface.</li> <li>Ensure a proper record of rock properties such water tightness, fractures etc.</li> <li>The results obtained shall be documented properly and interpolated along with the results of core drilling.</li> <li>The observations shall be suitably recorded in appropriate format and analyzed.</li> <li>Maintain Test No. / ID, Name of Location, GPS Coordinates and Date of test carried out.</li> </ul>

**3.2: Slope Stability Assessment:**

The exhaustive assessments on **slope stability** shall be carried out in the study area. The stability of these slopes should be assessed in greater detail to determine the potential risk of failure. It shall include inspections/observations of the existing slope conditions, and to identify any potential areas of concern observed on the slope from a geotechnical perspective. The subsurface explorations shall carried out in all suspected instabilities.

Based on the results of stability assessments and analysis, slope protections or remedial measures shall be recommended on the identified critical areas and all other unstable areas. The recommendations shall include development setbacks from the slopes if the slopes in the subject area are feasible for carrying out developmental activities.

The Slope Stability Assessment shall cover the following:

- ***Assessment of Landslide and other Instabilities, and***
- ***Slope Stability Analysis.***

**a) Assessment of Landslide and other Instabilities:**

Thorough assessment and identification of potentials landslides and other unstable areas shall be carried out. It shall include evaluation of geotechnical properties of soil/rock in the affected area and investigate the main causes, triggering factors for the occurrences of landslides and instabilities. The assessment shall also involve indentifying different causes of slope failure such as erosion, debris flow, scouring, toe erosion, creep, subsidence, land degradation, rock fall, planner failure, wedge failure, toppling, rainfall-induced, seismic activity, hydro-geological conditions, external loading and any other geological features. Delineate all instabilities and develop GIS-based data inventory with detailed descriptions such as extents, type of instability etc. including GPS locations. Finally, the results of assessment shall be depicted in a form **Slope Instability Zonation Map** along with detailed **Report** indicating the level of hazard posed by these instabilities.

**b) Slope Stability Analysis:**

The evaluation of slope stability and assessing failure shall be determined based on ***slope stability analysis***. Its main objectives are to evaluate how safe a slope is, and to calculate the factor of safety for a slope before its failure; and to recommend/propose appropriate methods for enhancing stability of unstable slopes by possible remedial measures. The stability analysis should be carried out using ***internationally recognized industrial software conforming to international standard***. The analysis results should be demonstrated in either 2D or 3D slope stability models.

**Slope Stability Analysis** shall be performed in **three (3) active landslide locations** and all **other unstable areas**.

Slope stability analysis of soil and rock slopes must include:

- ✓ Depth and configuration of the failures.
- ✓ Soil/rock classification, strength and density of soil/rock materials and the configuration of soil/rock strata, including basic geological indicators (strike/dip) and other features such as fissures, faults, discontinuities etc.).
- ✓ Groundwater table and surface/subsurface soil moisture conditions.
- ✓ Analyze the stability of rock/soil slopes, and determine if the excavated rock/soil faces are likely to fail (planar sliding along a discontinuity, wedge failure, or toppling failure).

The ***material type*** and ***strength properties*** shall be adopted for the stability analyses based on slope behavior, ground conditions revealed from the boreholes investigations, Pit excavations, PIT, Seismic refraction test. The parameters shall embrace grain size, specific gravity, permeability, shear strength (cohesion, angle of internal friction and unit weight of soil), thickness of sliding mass, size of slide (length, depth and width) etc. Soil and rock parameters should be based on the results of a complete geotechnical investigation, which includes in-situ field-testing and/or a laboratory-testing program, used separately or in combination. While

selecting parameters, the consulting firm should determine very appropriate and critical parameters which will give precise results or within an acceptable level of accuracy.

The analysis shall include the following data in the stability model.

Parameter	Input Data
Soil Profile	From detailed assessment of Soil Stratigraphy
Slope Geometry	Shall derive from Topo, Survey Data or DEM
Soil Shear Strength	From Laboratory and In-Situ/Field Tests

The geometries of the cross sections shall be considered as described below.

Location	Cross Section	Slope Height (m)	Overall Inclination from Horizontal (degrees)
	e.g, A-A		

#### Analyses Methods:

The consulting firm should choose the best method (s) suited for stability analyses such as Limit Equilibrium (LE), Finite Element Method (FEM), Numerical Method of Modeling (NMM) etc. depending on in-situ condition and slope properties. The analyses method(s) shall have capable of modeling all conditions including seepage, high water table, cracks, liquefaction potential, seismic forces etc.

The slope stability analysis shall include both **static** and **dynamic** loading (earthquake) conditions for deriving factor of safety of slopes.

For simple rock or rock sliding slopes, Empirical Methods, Kinematic Methods, Limit Equilibrium Techniques **or** combinations of these methods shall be applied. However, in case of complex rock slopes, hybrid numerical methods are recommended to better understand the behavior of rock slope.

#### 4. Mitigation Plan:

Based on the findings of the study, appropriate mitigation plan / engineering solutions shall be prepared. The mitigation plan shall describe in detail mitigation measures needed to be adopted. Descriptions and technical details shall be presented for each suggested mitigation measures. Site specific engineering solutions shall be proposed in landslide prone areas, steep slopes, fragile geologic conditions and all other unstable ground. It shall include ground improvement techniques, engineering countermeasures for reducing landslides, use of slope stabilization methods such as benching, improvement of subsurface drainage, construction of retaining structures, reinforcement of slopes etc.

#### 5. Reporting and timing of the assignment:

The Duration of this consultancy work is **Hundred Fifty (150) days**, and all the activities shall be completed within this timeframe. It includes **Eighty (80) days *fieldwork*** and **Seventy (70) days** to review the study as stipulated in the scope of work **or** as felt relevant by the consultant. The consulting firm shall work closely with Thromde officials.

- (i) **Inception Report:** The Inception Report (**2 color hard copies** and **1 softcopy**) should be submitted to Thromde within **Twenty-One (21) days** from the date of award of contract. The Inception Report shall fully describe the work plan, study methodologies, role and responsibility of key experts and other supporting staff who are engaged in this project, and their assigned tasks. It shall also include the current progress status and other pertinent information.
- (ii) **Interim Progress Report:** The Interim Progress Report (**2 color hard copies** and **softcopy**) should be submitted within **Seventy-Five (75) days** from the date of award of contract. It should highlight the completed tasks or the achievement during the reporting period, progress status (in %), remaining tasks/activities, and the final submission plan. Any issues (related to public clearance, subordinates/staff management, breakdown of field equipments **or** any other) during the investigation, shall be mentioned in this report.
- (iii) **Draft Report & Datasets:** **5 color hard copies** and **a softcopy report** and **datasets** should be submitted within **Hundred Thirty-Five (135) days** from the date of award of contract.
- The consultant shall conduct a daylong seminar/workshop/discussion to present the *findings* and *recommendations* to the Thromde officials for comments. The comments from Thromde and other relevant stakeholders shall be incorporated in the final report.
- (iv) **Final Deliverables:** Final Report (**5 color hard copies** and **1 softcopy**) with all other deliverables shall be submitted to Thromde within **Five (5) days** after the receipt of the final comments from Client and other stakeholders.

## 6. Submittal of Report:

Detailed Report shall be submitted in both **hard and soft copy**. It shall include the executive summary, technical details and recommendations supplemented with relevant maps, mitigation diagrams, drilling/geophysical cross-sections/profiles, analysis diagrams and other annexure / Appendices as described below. The **softcopy maps** shall be in the form of **GIS formats** (Shape / Coverage / Geodatabase) with well structured and defined datasets. The softcopy report, maps and datasets shall be submitted in CD/DVD media.

### 6.1. Contents of the Report

#### a) Executive Summary:

The executive summary shall include a precise non-technical description of significant findings of the study and the summary sheet describing the instabilities at various locations and corresponding mitigation plan/recommendations.

#### b) Technical Descriptions:

The technical component of the report shall include the following sections:

- **Project Description:** At a minimum the project description shall include the following information:
  - ✓ Background information about the proposed site.

- **Baseline Information:**

This section shall contain a description of the existing geological/geotechnical situation based on field work and desk study including literature review, satellite imagery, geological report etc.

- ✓ **Desk Study:** Shall explain detailed method of Investigation with the help of Flow Chart Diagram. Describe the type of data/information gathered as part of preliminary investigation phase. Need to list and describe the relevant published and unpublished literature pertinent to the geotechnical aspects of the area identified for this study. Citations/References should be given in case of referring some contents from the already published or carried out similar studies in the past. The methodology part should also include the preparatory work carried out from the available resources before field investigation.
- ✓ **Fieldwork:** Describe the fieldwork methodology and detailed Investigations.

Field investigation shall consist of:

- **Surface Explorations / Stability Assessment-** include Walkover Survey to identify and assess landslides, erosion, debris flow, scouring, toe erosion, creep, subsidence, land degradation, rock fall, planner failure, wedge failure, toppling etc. within the study area and indicate the level of hazard posed by the instabilities. The **reports** should address the stability of slopes that may affect the site or that the proposed development may affect. Stability should be analyzed along all critical cross-sections where development includes or is adjacent to slopes with a gradient steeper than 20°. Stability analyses are also necessary for slopes that have a 20° gradient or flatter if the slope includes a geologic/geotechnical hazard such as a landslide. The critical cross-section shall be defined as the slope with the most adverse combination of conditions, such as the steepest gradient, highest slope, most adverse geologic conditions, groundwater conditions, weakest soils and bedrock, etc. More than one cross-section may need to be evaluated on a geotechnically more complex site. Subsurface geologic and groundwater conditions should be sufficiently evaluated and illustrated on geologic cross-sections. The subsurface geologic and groundwater data should be utilized for the slope stability analyses. Reports for sites between 20-45° need to address the potential for surficial instability, debris/mudflow, rockfalls, and soil creep on all slopes that may affect the proposed development or be affected by the proposed development.
- **Subsurface investigation-** In-situ testing as stated above in Section 2.1 and describe all the findings including visual observations. It shall describe the earth materials and subsurface conditions. References shall be made to the pits, trenches, excavations and other subsurface explorations utilized to characterize the soil data, soil properties, and subsurface conditions. Descriptions of the subsurface conditions should be clear and consistent with the subsurface exploration and soil/rock data collected. It shall contain information of all subsurface exploration including subsurface soil profile, interpretation and analysis of the subsurface data.

- ***Logs of Exploratory Excavations-*** Present logs for all exploratory excavations and a legend for all symbols used in the logs. Subsurface excavations for geotechnical exploratory are an integral part of an invasive investigations for direct observation, testing and sampling. Logs should be provided for all subsurface exploratory excavations that are part of an investigation. Detailed bore logs and subsoil sections, showing variations of each of the soil properties with depths in each bore hole. A true cross section of all individual bore holes with reduced levels and coordinates (with respect to common datum) showing the classification and thickness of individual stratum, position of ground water table, various in-situ tests conducted and samples collected at different depths and the rock stratum, if met with. Also, the logs of all subsurface explorations data should be included within or appended to the report annexure.
  - ***Bedrock Units-*** Discuss the relative age of geologic units and correlation to known formations. Describe the physical characteristics and distribution of the units and relationship to other geologic units on site. Also describe the bedrock unit's response to geologic processes and engineering characteristics.
  - ***Geologic Structure-*** Describe the bedding, folds, fractures, joint, faults, etc. of the bedrock units. The description should include the attitude and other quantitative attributes of the structures. Discuss the relationship of the geologic structure to potential impact on the proposed project. Indicate if the geologic structure is favorable or adverse with respect to slope stability, proposed excavations, grading, or retaining structures.
  - ***Surficial Deposits-*** Surficial deposits include artificial fill, topsoil, alluvium, colluvium, beach sands and gravels, landslide debris, and other types of earth materials mantling bedrock or occurring on or near the surface. The general type, distribution, occurrence, and relative age of the deposits should be described. In addition, physical characteristics and response to surface processes and engineering characteristics should be described.
  - ***Surface Water and Groundwater-*** The occurrence of streams, ponds, springs, and seeps on the site must be identified and described in relationships to site topography and geology. The sources, variation, and permanence of the surface water and groundwater conditions must be discussed.
- ✓ **Field Mappings:** Describe the type of field mappings carried-out in the field explorations for hazard assessments and while identifying the type of mitigation works.
- ✓ **Laboratory Test and Analysis:** Describe the analysis carried-out and the interpretation of both field and laboratory test results, and Correlations. Also, laboratory and field test results shall be described both in tabular as well as in graphical form.

✓ **Slope Stability Analysis and Results.**

It is recommended that the documentation of the stability analysis should include the items listed below. Essential content should includes:

- **Introduction**
  - *Scope.* A brief description of the objectives of the analysis.
  - *Description* of the project and any major issues or concerns that influence the analysis.
  - *References* to analysis procedures and guidance used in the analysis.
- **Site geology and subsurface explorations.**
  - *Present* detailed site geology including exploration, drilling, and sampling activities.
  - *Present* geologic cross sections, in sufficient number and detail, to show clearly those features of the site that influence slope stability.
- **Field and laboratory test results of the target site.** Discuss field and laboratory test results along with graphs and tables used for computation.
- **Material properties.**
  - *Present* the material type and properties for all the materials in the stability cross sections.
- **Groundwater and seepage conditions.**
- **Slope Stability Analyses**
  - *State* the method used to perform the slope stability analysis.
  - Describe safety of factor results.
  - Summarize results in tabular format along detailed models.
  - Recommendations on remedial measures to stabilize the slopes with detailed diagrams and drawings.

**All the analysis results, and conclusions should be described clearly with supported data.**

c) **Maps & Diagrams:** The following maps and mitigation diagrams are required to support the detailed report. The contents of each map shall be thoroughly discussed in the report.

- **Hazard Zonation Map-** It shall be multi-level hazards derived from different sources of hazards viz. natural slope, flood, water course (river, streams), water bodies(lakes, ponds etc.), marshy area, / seepage sinking area, gully, gorge, slide/slip/erosion etc. and geologic hazard such as unstable slopes, faults, ground subsidence and collapse, regional seismicity etc. Risk rated shall be Low, Medium and High.
- **Other Hazard Maps-** Depending on the site condition, different hazard maps from different sources shall be individually mapped.
- **Geological Map-** Show detail geological features with distinct classified rock units or geological strata. Bedding planes and structural features such as faults, folds, foliations, and lineation shall be shown with strike and dip orientations. It shall also contain general information of soil.
- **Engineering Geological Map-** This map shall contain detailed information of the different geological units based on their mechanical properties. It shall also consists of material types, superficial deposits and thickness of deposits.

- **Slope Map-** Slope shall be generated from topographic contour of 1m interval and shall validate through ground verifications. The slope map shall contain slope values(both in degree & percent) in the attribute table. The size (in sq.km) of each slope class shall also be shown in the attribute. Range of slope classes shall be clearly defined with standard color coding.
- **Geomorphological Map:** This map shall contain spatial information on landforms, processes that act on landforms, morphography/ morphometry, hydrography, lithology, genesis, age etc. Marshy, seepage, sinking area, land slide/slip/erosion, scars and any other factors causing slope failures shall be shown here.
- **Slope Instability Zonation Map:** This map shall embrace all the instability areas induced by different factors such as erosion, debris flow, scouring, toe erosion, creep, landslide, subsidence, land degradation, rock fall, planner failure, wedge failure, toppling, rainfall-induced, seismic activity, hydro-geological conditions and any other geological features. Clearly delineate with defined boundaries of these instabilities and put them into zoning categories. GIS-based data inventory shall be developed for the same.
- **Field Exploration Location Map:** All the locations of field investigation shall be captured using precise GPS device, and mapped in Drukref projection system. The type of explorations shall be clearly described in abbreviating symbols and legends. The GPS data shall be in GIS shape/geodatabase format.
- **Mitigation Map:** All the mitigation proposals/types and locations shall be concisely presented in this Mitigation Map.
- **Mitigation Diagrams:** Critical mitigation works shall be illustrated with pertinent diagrams such as walls, subsoil drains, barriers, bioengineering etc.

**d) Assessment of Impacts:**

This section shall describe and assess significant potential geotechnical impacts as stipulated in the scopes of work.

**e) Mitigation Plan:**

This section shall present **detailed mitigation plan** and **recommendations** based on the impact assessment.

**f) Conclusion and Recommendations:**

The conclusions and recommendations presented in the report must be fully supported by the data and must be based on the most logical analysis. Conclusion regarding the suitability of the site for the intended use should be provided. Summarize all hazardous or damaging geologic or geotechnical conditions potentially impacting the proposed development. Conclusions and opinions should be substantiated by factual information and/or experience. Where a conclusion is based on experience or judgment, the rationale used should be clearly discussed.

Recommendations shall be given area wise duly considering the type of soil/rock, structure, foundation type and ground water table, instabilities, high angle slopes etc. in the study area. Provide full recommendations to mitigate or avoid hazards. The firm should indicate if additional exploration, testing, or analyses are recommended to address the proposed project.

**g) Appendices:**

Test results and analysis of both field and laboratory samples for rock/soil, Soil and Rock Exposures readings, Field Logs, Maps, Borehole Profile/Cross Sections and Subsurface Models, Geophysical Test Results including Cross Sections/Subsurface Models, Slope Stability Analysis Models and Mitigation Diagrams shall be attached in the report as appendices.

- ✓ All test results shall be attached and fully referenced to the text.
- ✓ All data provided diagrammatically shall also be provided as a data table to ensure legibility.

**7. Breakdown of Activities by Quantity:**

The following break-up activities would guide the consulting firms for offering their financial proposals. All the activities must be carried out as per the technical specifications described above in the scope of work. *The identifications and finalization of all exploration sites shall be done in consultation with the Procuring Agency.*

Sl. No.	Description of Activities	Unit	Qty	Remarks
<b>A</b>	<b>FIELD TESTS:</b>			
1	Portable Penetration Tests (PPTs).	No's	25	As per Technical Descriptions
2	Pit Excavations / Trial Pits.	No's	20	
3	Geophysical Test: -Seismic Refraction Survey.	mtr.	990	Required each profile length of 115m. 2-Profiles in each Landslide. Total requirement in 3 Landslide sites = 690m. Required additional Lump-sum profile length of 300m in other unstable areas.
4	Rotary Core Drilling & Backfilling the hole with Grout /Concrete.	mtr.	180	2-Boreholes of 30m each at 3-Landslide locations. Total 6 Boreholes.
5	SPT in Boreholes.	No's	36	1-STP for every 5m of Drilling
6	Constant Head Test (CHT) in Boreholes for testing Soil Permeability.	No's	18	3-Tests in each Borehole
7	Packer Test in Borehole for testing Rock Permeability.	No's	18	3-Tests in each Borehole
<b>B</b>	<b>LABORATORY TESTS:</b>			
8	Geotechnical Lab Test for Soil Core Samples (Sieve Analysis, Bulk Density, Specific Gravity, Plastic & Liquid Limit, Consolidation & Direct Shear, and Proctor Compaction Test).	No's	18	3-Samples from each Borehole

9	Geotechnical Lab Test for <b>Rock Core Sample</b> - Unconfined Compression Tests (UCS)	No's	18	<b>3-Samples</b> from each <b>Borehole</b>
10	Geotechnical Lab Test for <b>Trial Pit Samples</b> (Sieve Analysis, Bulk Density, Specific Gravity, Plastic & Liquid Limit, Consolidation & Direct Shear, and Proctor Compaction Test).	No's	20	For <b>20</b> Pit Excavations/ Trial Pits Samples.
11	Any <b>other additional tests</b> that, consultants feel important for geotechnical analysis.	No's	-	Name the <b>Test(s)</b> and mention the <b>Quantity</b> required.
<b>C FIELD STUDY:</b>				
12	<b>Workover Survey / Stability and Hazard Assessments</b> in the <b>entire study area</b> , including site identification for field tests, site data collection/recording observed information, field mappings such as geology, engineering geology, geomorphology, identifying landslides, fault zone, weak geology, water body, ground subsidence, erosions, validation of slope etc.	Lump-sum		
<b>D DESK WORK:</b>				
13	Preparation of <b>Report(s)</b> ; including data interpretation and analysis, GIS data processing and maps generation, printing documents, submission of all deliverables, presentation etc.	Lump-sum		

### **8. Support services to be provided by the client:**

The following services and facilities will be provided by the Procuring Agency:

- 1) **The maps- topographic datasets (digital copy)** of the study area.
- 2) Assist the consultants to avail themselves the available resources from other organizations viz. geotechnical related studies, reports, data etc. upon a written request from the consultant.

- 3) Assist the consulting firm to process for work & special route permit for foreign nationals.
- 4) In order to conduct the study smoothly, the Procuring Agency will facilitate in obtaining public/land owner's clearance to avoid any obstruction that impedes the field works.
- 5) The counterpart staff of the Procuring Agency will monitor the quality and progress of work from time to time, verify the invoices, conducting meetings, discussions, arrangement of final presentation etc.

The consultant shall work closely with Client's Officials. The client may also, at its discretion, consider fielding of its representative to accompany the consultant's study team during fieldwork upon receipt of written request from the consultant. However, the responsibility of completing the assignment successfully will lie solely with the consultant.

## **9. Qualification & Experience:**

### **Key Experts:**

All the experts who have a crucial role in implementing the contract are referred to as key experts. The role and responsibilities of the experts required for this assignment are described below. Therefore, the Consulting Firm must have a suitably qualified team to carry out the detailed studies.

The firm shall appoint a Geotechnical Team Leader who shall be responsible for management and co-ordination of all project activities. The following key personnel are considered to be essential for the proper execution of the assignment:

<b>Sl. No.</b>	<b>Experts</b>	<b>Qualifications / Experiences</b>	<b>Tasks / Responsibilities</b>
1	<b>Geotechnical Engineer/ Team Leader</b>	<ul style="list-style-type: none"> <li>▪ Masters Degree in Geotechnical Engineering or Engineering Geology with a minimum 5 years of professional experience in the relevant field (geotechnical investigations, testing etc.).</li> <li style="text-align: center;"><b>OR</b></li> <li>▪ Bachelor Degree in Geotechnical Engineering or Engineering Geology with a minimum 8 years of professional experience in the relevant field (geotechnical investigations, testing etc.).</li> <li>▪ Must be thoroughly familiar with all the standard laboratory and field testing procedures adopted in case of landslide and flood studies, particularly followed for the construction of retaining and drainage structures.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Will function as the Team Leader.</li> <li>▪ Will be responsible for the implementation of all activities including timely completion.</li> <li>▪ Shall guide, supervise, coordinate and monitor the works of other experts.</li> <li>▪ Provide protocols for material testing; assist with test formats, procedures of quality control tests required by the project.</li> <li>▪ Provide geo-technical backstopping on designs, technical standards and specifications.</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Should have practical experience in carrying out geotechnical and hazard assessment with a proven record of supervising, organizing, managing project preparation and executing geotechnical studies of towns / settlements.</li> <li>▪ Should be familiar with Resistivity and IP Inversion Software either 2D &amp; 3D (RES2DINV / RES3DINV) and Slope Stability Analysis Software of recognized commercial products.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Undertake all geotechnical investigation works.</li> <li>▪ Coordinate the input of other experts</li> <li>▪ Review and compile draft reports produced by consultants.</li> <li>▪ Prepare a final report and present to a forum of stakeholders.</li> </ul>
2	<b>Geotechnical / Material Engineer</b>	<ul style="list-style-type: none"> <li>▪ Bachelor Degree in Civil / Geotechnical / Environmental Engineering / Geology / Mining with the minimum 5 years work experience in geotechnical and material testing, preferably in the region.</li> </ul> <p style="text-align: center;"><b>OR</b></p> <ul style="list-style-type: none"> <li>▪ Diploma in Civil / Geotechnical / Environmental Engineering / Geology / Mining with the minimum 8 years work experience in geotechnical and material testing, preferably in the region.</li> <li>▪ Should be fully familiar with the acceptable study methods, flood studies, engineering best practices and must have experience of successfully using various methods of studies in different situations.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Collect, review, and confirm information/data about geology, geo-hydrology and meteorology of the study area.</li> <li>▪ Provide protocols for material testing; assist with test formats, procedures of quality control tests required for the study area.</li> <li>▪ Determine the requirements of mitigation structure including drainages.</li> <li>▪ Prepare mitigation inventory and proposed structural drawings.</li> <li>▪ Work closely with the civil engineer to design the mitigation structures.</li> </ul>
3	<b>Civil / Structural Engineer</b>	<ul style="list-style-type: none"> <li>▪ Bachelor Degree in Civil Engineering with at least 5 years of professional experience</li> </ul> <p style="text-align: center;"><b>OR</b></p> <ul style="list-style-type: none"> <li>▪ Diploma in Civil Engineering with 8 years of professional experience.</li> <li>▪ Should have sufficient experience in structural analysis and design of retaining structures.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Review the existing relevant documents, reports, designs, information / data, etc.</li> <li>▪ Advise the Team leader to carry out necessary surveys and investigations required to prepare the detailed engineering designs of the proposed mitigation structures.</li> <li>▪ Prepare and finalize design</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Should be familiar with specifications for geotechnical, road and bridge contracts.</li> </ul>	<p>concepts and design criteria in close consultation with the Team Leader.</p> <ul style="list-style-type: none"> <li>▪ Prepare detailed engineering designs for the proposed mitigation measures using AutoCAD software.</li> <li>▪ Prepare Bill of Quantities and Cost Estimate.</li> </ul>
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Besides above key experts, **skilled Drilling Operator(s)** and **Geophysical Technician(s)** must be **deployed**. They must have sufficient experiences in conducting drilling activities and seismic refraction survey including writing field reports and gathering data from field tests and observations. The **evidences** of their experiences must be **submitted**. In addition, If there are any other inputs or backstopping required from other supporting staff, the consulting firm shall identify and incorporate in the financial proposal.

The task and responsibilities specified above are generic in nature and the experts will have to undertake all the activities required for them to complete the project as defined in the detail scope of work. Preference shall be given to experts having experiences in the Himalayan regions.

## 10. Technical Proposal Requirements

It is intended that the interested firms furnish all information requested in this document in a brief and concise manner. Unless specifically requested, promotional literature and needlessly lengthy document with extraneous materials are not required and will not be considered to meet any of the requirements.

The evaluation/selection process is designed to identify the best value technical proposal with 80% weightage. In addition to the key components of the technical proposal stated under **FORM TECH-4**, the *technical expertise of the key staff, relevant experience* (both key staff & firm), *qualifications* and *availability of equipments* are also given equal *importance* for this assignment.

Therefore, the firms must submit a very clear and precise technical proposal in response to the *Scope of Work* and other requirement prescribed under *Terms of References*.

## 11. Field Equipments Required:

Apart from other basic field equipments, a firm must have the following list of primary equipments which are essential for field exploration works:

- 1) **Penetration Test Equipment:** Portable Penetration Test (PPT) / Standard Penetration Test (SPT).
- 2) **Geophysical Test Equipment:** Seismograph, 24 Channel with all other required devices in set.
- 3) **Rotary Core Drilling Machine** with all other required equipments in set.

## **12. Documents required for the evaluation of Technical Proposals**

- (i) **RFP Document:** Must submit a copy of RFP document after signing on every page of the document to, prove that it is agreed to the terms and condition prescribed in this RFP document. Signature/initial must be on the firm's seal.
- (ii) **Academic & Training Certificates:** Since this geotechnical investigation requires GIS based mapping, spatial (GPS) data collection and data interpretation and analysis, at least one of the above key experts shall have sound knowledge in GIS Analysis and Mappings skills **OR** firms can propose separate GIS expert(s). However, supporting document, particularly the GIS professional training certificate(s) from one of the reputed training institutions must be submitted along with CV in the **FORM TECH-6**. Similarly, the academic qualification and related training certificates in English of all the key staff must be submitted to support the CV in the **FORM TECH-6**. Attested translations in English must be submitted along with the copy of original if the certificates are not in English.

**Failure** to attach these **certificates** shall result in **reduction of score** during the evaluation of technical proposals as described below:

- a) **0 (Zero) Point** for ***non submission of academic certificates against general qualification.***
- b) **25%** of the point will be **reduced** against the **general qualification** from any of the **three key staff for non submission of GIS training certificate**. Any key staff having a minimum allotted point in the general qualification shall be taken for point reduction. However, **no point(s)** will be **deducted** if the firm proposes **separate GIS expert/staff**. Professional / training certificates must be submitted for the proposed GIS expert/staff.

(iii) **Experience Certificates (Reference Letters / Work Completion Certificates):**

In order to prove the experience of the firms **or** individual key staff, work completion certificates must be submitted to reinforce information provided in the CV. Similarly, all the key staff proposed by the firm(s) must submit reference/recommendation letters from the referees/previous employer(s) stating:- the type/number/name of work completed successfully under their respective firms/organizations. It is also required to mention the name of the client(s) for the project(s) undertaken. The work/project undertaken must be relevant to this assignment **only**.

**Non submission of such reference/work completion certificates shall result in reduction of point identified under the experience criteria.**

(iv) **Commitment letter / undertaking letter:**

As notified in the **letter of invitation**, proposal of joint-venture/consortium/association with national/regional/international firms shall not be allowed. However, it is permitted to hire individuals/experts as employee(s) if there's need of special inputs that are not available in the local market.

**Commitment letter(s)/ undertaking (original) from expert(s)** must be submitted in case of National firm(s) hiring individual(s) from **outside Bhutan**. **Non Submission** of such letter(s)/undertaking shall result in **reduction** of **50% point** against the **key staff**.

(v) **Stock ledger/ Inventory List for the Field Equipments:**

Duly signed copy of **stock ledger or inventory list** of the primary equipments described above under TOR Subsection-11, must be submitted. Similarly, if firms intend to hire / borrow from other organization / agency / business entity, a **borrowing agreement** duly signed by both the parties shall be submitted. **Failure to submit such documents shall result in zero (0) score/point against each equipment during the evaluation of technical proposal.**

**13. Rejection of Proposal:**

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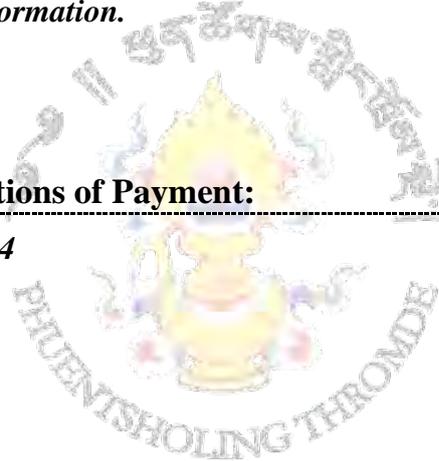
During the process of technical evaluation, a proposal shall be rejected for:-

- a) *Non-submission of Integrity Pact with the proposals.*
- b) *Proposals of Joint Venture / Consortium / Association with Local, Regional or International Firms.*
- c) *Fraudulent, false, fake information: - reference letters, work completion certificate or any other wrong information.*

**14. Terms and Conditions of Payment:**

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*As per SC Clause- 6.4*



## Section 6: Standard Forms of Contract

The attached Form of Contract shall be used.



## **ANNEX II. Consulting Services: Lump-Sum Contract**



# STANDARD FORM OF CONTRACT

## Consulting Services Lump-Sum



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## Preface

1. This standard Contract for Consulting Services has been prepared in line with the RGoB 2009 Procurement Rules and Regulations and is to be used by implementing agencies (referred to hereafter as Procuring Agencies) when they hire a consulting firm (referred to hereinafter as the Consultant) to provide services paid for on a lump-sum basis.
2. The Contract includes four parts:
  - Form of Contract
  - General Conditions of Contract
  - Special Conditions of Contract
  - Appendices
3. The Procuring Agency using this standard Contract should not alter the General Conditions. Any adjustment to meet project features should be made only in the Special Conditions.
4. Lump-sum Contracts are normally used when definition of the tasks to be performed is clear and unambiguous, when the commercial risks taken by the Consultant are relatively low, and when therefore such Consultant is prepared to perform the assignment for an agreed predetermined lump-sum price. Such price is arrived at on the basis of inputs - including rates - provided by the Consultant. The Procuring Agency agrees to pay the Consultant according to a schedule of payments linked to the delivery of certain outputs, for example reports. A major advantage of the lump-sum Contract is the simplicity of its administration, the Procuring Agency having only to be satisfied with the outputs without monitoring the staff inputs. Studies are usually carried out on a lump-sum basis; for example, surveys, master plans, economic, sector, simple feasibility and engineering studies.

## CONTRACT FOR CONSULTING SERVICES

### Lump-Sum

between

[name of the Procuring Agency]



[name of the Consultant]

Dated:

## I. Form of Contract

### LUMP-SUM

(Text in brackets [ ] is optional; all notes should be deleted in final text)

This CONTRACT (hereinafter called the “Contract”) is made the [day] day of the month of [month], [year], between, on the one hand, [name of Procuring Agency] (hereinafter called the “Procuring Agency”) and, on the other hand, [name of Consultant] (hereinafter called the “Consultant”).

[*Note: If the Consultant consist of more than one entity, the above should be partially amended to read as follows: “...(hereinafter called the “Procuring Agency”) and, on the other hand, a joint venture/consortium/association consisting of the following entities, each of which will be jointly and severally liable to the Procuring Agency for all the Consultant’s obligations under this Contract, namely, [name of Consultant] and [name of Consultant] (hereinafter called the “Consultant”).*]

#### WHEREAS

- (a) the Procuring Agency has requested the Consultant to provide certain consulting services as defined in this Contract (hereinafter called the “Services”);
- (b) the Consultant, having represented to the Procuring Agency that it has the required professional skills, personnel and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
  - II. The General Conditions of Contract;
  - III. The Special Conditions of Contract;
  - IV. The following Appendices: [*Note: If any of these Appendices are not used, the words “Not Used” should be inserted below next to the title of the Appendix*]
 

Appendix A: Description of Services	___ Not used
Appendix B: Reporting Requirements	___ Not used
Appendix C: Key Personnel and Sub-Consultants	___ Not used
Appendix D: Breakdown of Contract Price in Foreign Currency	___ Not used
Appendix E: Breakdown of Contract Price in Local Currency	___ Not used
Appendix F: Services and Facilities Provided by the Procuring Agency	___ Not used
Appendix G: Form of Advance Payment Guarantee	___ Not used
2. The mutual rights and obligations of the Procuring Agency and the Consultant shall be as set forth in the Contract, in particular:
  - (a) the Consultant shall carry out the Services in accordance with the provisions of the Contract; and
  - (b) the Procuring Agency shall make payments to the Consultant in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of *[name of Procuring Agency]*

\_\_\_\_\_  
*[Authorized Representative]*

For and on behalf of *[name of Consultant]*

\_\_\_\_\_  
*[Authorized Representative]*

**[Note:** *If the Consultant consists of more than one entity, all these entities should appear as signatories, e.g., in the following manner:]*

For and on behalf of each of the Members of the Consultant

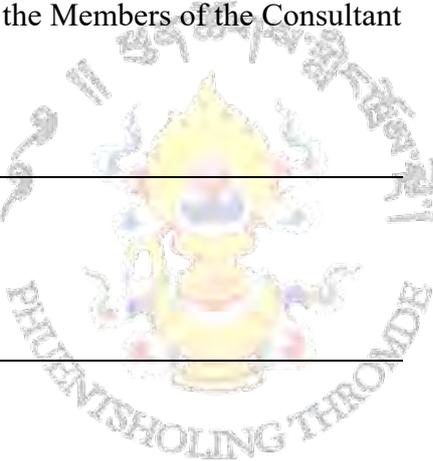
*[name of member]*

\_\_\_\_\_  
*[Authorized Representative]*

*[name of member]*

\_\_\_\_\_  
*[Authorized Representative]*

etc.



## II. General Conditions of Contract

### 1. GENERAL PROVISIONS

#### 1.1 Definitions

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

**(a) Applicable Laws of Bhutan:** The laws and any other instruments having the force of law in Bhutan

**(b) Consultant:** An individual or a legal entity entering into a Contract to provide the Services to the Procuring Agency under the Contract.

**(c) Consulting Services:** Expert services of a professional and/or intellectual nature, provided by the Consultant based on specialized expertise and skills, in areas including, but not limited to, preparing and implementing projects, conducting training, providing technical assistance, conducting research and analysis, preparing designs, supervising the execution of construction and other works, undertaking studies, advising Procuring Agencies, building capacity, preparing tender documents, supervising procurement, and others.

**(d) Contract:** The formal agreement in writing, including the General Conditions (GC), the Special Conditions (SC), and the Appendices, entered into between the Procuring Agency and the Consultant, on acceptable terms and conditions and which are in compliance with all the relevant provisions of the laws of the Kingdom of Bhutan, for the provision of the required Consulting Services.

**(e) Contract Price:** The price to be paid for the performance of the Services, in accordance with Clause 6;

**(f) Day:** A calendar day.

**(g) Effective Date:** The date on which this Contract comes into force and effect pursuant to Clause GC 2.1.

**(h) Foreign Currency:** Any currency other than Bhutanese Ngultrum (BTN).

**(i) GC:** These General Conditions of Contract.

**(j) Government:** The Royal Government of Bhutan (RGoB).

**(k) In writing:** Communicated in written form (eg. by mail, electronic mail, fax, telex) with proof of receipt.

**(l) Local Currency:** Bhutanese Ngultrum (BTN).

**(m) Member:** Any of the entities that make up the joint venture/consortium/association; and “Members” means all these entities.

**(n) Party:** The Procuring Agency or the Consultant, as the case may be, and “Parties” means both of them.

(o) **Personnel:** Professional and support staff provided by the Consultant or by any Sub-Consultant and assigned to perform the Services or any part thereof; “Foreign Personnel” means such professional and support staff who at the time of being so provided have their domicile outside Bhutan; “Local Personnel” means such professional and support staff who at the time of being so provided have their domicile in Bhutan; and “Key Personnel” means the Personnel referred to in Clause GC 4.2(a).

(p) **Procuring Agency:** RGoB agency with which the selected Consultant signs the Contract for Services.

(q) **Reimbursable Expenses:** All assignment-related costs other than Consultant’s remuneration.

(r) **SC:** The Special Conditions of Contract by which the GC may be amended or supplemented.

(s) **Services:** The work to be performed by the Consultant pursuant to this Contract, as described in Appendix A hereto.

(t) **Sub-Consultant:** Any person or entity to whom/which the Consultant subcontracts any part of the Services.

(u) **Third Party:** Any person or entity other than the Government, the Procuring Agency, the Consultant or a Sub-Consultant.

## 1.2 Law Governing Contract

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

## 1.3 Language

This Contract has been executed in the language specified in the SC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.

## 1.4 Notices

### 1.4.1

Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SC.

### 1.4.2

A Party may change its address for notice hereunder by giving the other Party notice in writing of such change to the address specified in the SC.

## 1.5 Location

The Services shall be performed at such locations as are specified in Appendix A hereto and, where the location of a particular task is not so specified, at such locations, whether in Bhutan or elsewhere, as the Procuring Agency may approve.

## 1.6 Authority of Member in

In case the Consultant consists of a joint venture/consortium/association of more than one entity, the Members hereby authorize

- Charge** the entity specified in the SC to act on their behalf in exercising all the Consultant's rights and obligations towards the Procuring Agency under this Contract, including without limitation the receiving of instructions and payments from the Procuring Agency.
- 1.7 Authorized Representatives** Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Procuring Agency or the Consultant may be taken or executed by the officials specified in the SC.



## 1.8 Taxes and Duties

The Consultant, Sub-Consultants, and the Personnel of both of them shall pay such indirect taxes, duties, fees and other impositions levied under the Applicable Laws of Bhutan as are specified in the SC, the amount of which is deemed to have been included in the Contract Price.

## 1.9 Fraud and Corruption

### 1.9.1 Definitions

It is RGoB policy to require that Consultants, their Sub-Consultants and the Personnel of both of them observe the highest standards of ethics during the execution of the Contract.<sup>50</sup> In pursuance of this policy, the RGoB:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

- (i) “corrupt practice”<sup>51</sup> means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value<sup>52</sup> to influence improperly the actions of another party;
- (ii) “fraudulent practice”<sup>53</sup> means any intentional act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- (iii) “collusive practice”<sup>54</sup> means an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- (iv) “coercive practice”<sup>55</sup> means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- (v) "obstructive practice" means:
  - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation

<sup>50</sup> In this context, any action taken by a Consultant, Sub-Consultant or the Personnel of either of them to influence the process of contract execution for undue advantage is improper.

<sup>51</sup> “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes staff and employees of any organizations (including any institutions providing finance for the Services) taking or reviewing procurement decisions.

<sup>52</sup> “anything of value” includes, but is not limited to, any gift, loan, fee, commission, valuable security or other asset or interest in an asset; any office, employment or contract; any payment, discharge or liquidation of any loan, obligation or other liability whatsoever, whether in whole or in part; any other services, favour or advantage, including protection from any penalty or disability incurred or apprehended or from any action or proceeding of a disciplinary or penal nature, whether or not already instituted and including the exercise or the forbearance from the exercise of any right or any official power or duty.

<sup>53</sup> a “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

<sup>54</sup> “parties” refers to participants in the procurement process (including public officials) and an “improper purpose” includes attempting to establish proposal prices at artificial, non competitive levels.

<sup>55</sup> a “party” refers to a participant in the procurement process or contract execution.

or making false statements to investigators in order materially to impede any investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended materially to impede the exercise of the inspection and audit rights of the Procuring Agency or any organization or person appointed by the Procuring Agency and/or any relevant RGoB agency provided for under Clause GC 3.8 (b).

**1.9.2 Measures to be Taken**

(b) will cancel the Contract if it at any time determines that representatives of the Consultant, any Sub-Consultant, the personnel of either of them, or any other participant in the procurement and Contract execution process, were engaged in corrupt, fraudulent, collusive, coercive or obstructive practices during the procurement and selection process or the execution of the Contract;

(c) will sanction a Consultant, Sub-Consultant or the personnel of either of them, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded an RGoB-financed contract if at any time it determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, an RGoB-financed contract;

(d) will report the case of corrupt, fraudulent, collusive, coercive or obstructive practice to the relevant RGoB agencies, including but not limited to the Anticorruption Commission (ACC) of Bhutan, for necessary action in accordance with the statutes and provisions of the relevant agency.

**1.9.3 Commissions and Fees**

(e) will require the successful Consultant to disclose any commissions or fees that may have been paid or are to be paid to agents, representatives or commission agents with respect to the selection process or execution of the Contract. The information disclosed must include at least the name and address of the agent, representative or commission agent, the amount and currency, and the purpose of the commission or fee.

**2. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT**

**2.1 Effectiveness of Contract**

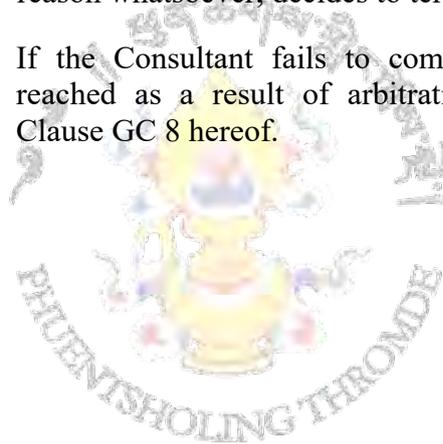
This Contract shall come into force and effect on the date (the "Effective Date") of the Procuring Agency's notice to the Consultant

instructing the Consultant to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SC have been met.

- 2.2 Commencement of Services** The Consultant shall begin carrying out the Services not later than the number of days after the Effective Date specified in the SC.
- 2.3 Expiration of Contract** Unless terminated earlier pursuant to Clause GC 2.6 hereof, this Contract shall expire at the end of such time period after the Effective Date as is specified in the SC.
- 2.4 Modifications or Variations** Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
- 2.5 Force Majeure**
- 2.5.1 Definition** For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.
- 2.5.2 No Breach of Contract** The failure of a Party to fulfill any of its obligations under the Contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.
- 2.5.3 Extension of Time** Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- 2.5.4 Payments** During the period of its inability to perform the Services as a result of an event of Force Majeure, the Consultant shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by it during such period for the purposes of the Services and in reactivating the Service after the end of such period.
- 2.6 Termination**
- 2.6.1 By the Procuring Agency** The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause GC 2.6.1. In such an occurrence the Procuring Agency shall give not less than thirty (30) days written notice of

termination to the Consultant, or sixty (60) days in the case of the event referred to in paragraph (e) of this Clause GC 2.6.1.

- (a) If the Consultant does not remedy a failure in the performance of its obligations under the Contract within thirty (30) days after being notified or within any further period as the Procuring Agency may have subsequently approved in writing.
- (b) If the Consultant becomes insolvent or bankrupt.
- (c) If the Consultant, in the judgment of the Procuring Agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- (d) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (e) If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.
- (f) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof.



- 2.6.2 By the Consultant** The Consultant may terminate this Contract, by not less than thirty (30) days written notice to the Procuring Agency, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (c) of this Clause GC 2.6.2:
- (a) If the Procuring Agency fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clause GC 8 hereof within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue.
  - (b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
  - (c) If the Procuring Agency fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.
- 2.6.3 Payment upon Termination** Upon termination of this Contract pursuant to Clauses GC 2.6.1 or GC 2.6.2, the Procuring Agency shall make the following payments to the Consultant:
- (a) payment pursuant to Clause GC 6 for Services satisfactorily performed prior to the effective date of termination;
  - (b) except in the case of termination pursuant to paragraphs (a) through (c) and (f) of Clause GC 2.6.1, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract, including the cost of the return travel of the Personnel and their eligible dependents.

### 3. OBLIGATIONS OF THE CONSULTANT

#### 3.1 General

- 3.1.1 Standard of Performance** The Consultant shall perform the Services and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with Sub-Consultants or third Parties.

- 3.2 Conflict of Interests** The Consultant shall hold the Procuring Agency's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or its own corporate interests.
- 3.2.1 Consultant Not to Benefit from Commissions, Discounts, etc.** The payment of the Consultant pursuant to Clause GC 6 shall constitute the Consultant's only payment in connection with this Contract or the Services, and the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of its obligations under the Contract, and the Consultant shall use its best efforts to ensure that the Personnel, any Sub-Consultants, and agents of either of them similarly shall not receive any such additional payment.
- 3.2.2 Consultant and Affiliates Not to be Otherwise Interested in Project** The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-Consultants and any entity affiliated with such Sub-Consultants, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Consultant's Services for the preparation or implementation of the project.
- 3.2.3 Prohibition of Conflicting Activities** The Consultant shall not engage, and shall cause its Personnel as well as its Sub-Consultants and their Personnel not to engage, either directly or indirectly, in any business or professional activities which would conflict with the activities assigned to them under this Contract.
- 3.3 Confidentiality** Except with the prior written consent of the Procuring Agency, the Consultant and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Personnel make public the recommendations formulated in the course of, or as a result of, the Services.
- 3.4 Insurance to be Taken Out by the Consultant** The Consultant (a) shall take out and maintain, and shall cause any Sub-Consultants to take out and maintain, at their (or the Sub-Consultants', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage, as shall be specified in the SC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums have been paid.

- 3.5 Consultant's Actions Requiring Procuring Agency's Prior Approval** The Consultant shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:
- (a) entering into a subcontract for the performance of any part of the Services,
  - (b) appointing such members of the Personnel not listed by name in Appendix C, and
  - (c) any other action that may be specified in the SC.
- 3.6 Reporting Obligations**
- (a) The Consultant shall submit to the Procuring Agency the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.
  - (b) Final reports shall be delivered on CD ROM in addition to the hard copies specified in the said Appendix.
- 3.7 Documents Prepared by the Consultant to be the Property of the Procuring Agency**
- (a) All plans, drawings, specifications, designs, reports, other documents and software submitted by the Consultant under this Contract shall become and remain the property of the Procuring Agency, and the Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Procuring Agency, together with a detailed inventory thereof.
  - (b) The Consultant may retain a copy of such documents and software. Restrictions about the future use of these documents, if any, shall be specified in the SC.
- 3.8 Accounting, Inspection and Auditing** The Consultant:
- (a) shall keep accurate and systematic accounts and records in respect of the Services hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time charges and costs, and the bases thereof, and
  - (b) shall periodically permit the Procuring Agency or its designated representative, for a period of up to five years from the expiration or termination of this Contract, to inspect the same and make copies thereof as well as to have them audited by auditors, if so required by the Procuring Agency.

#### **4. CONSULTANT'S PERSONNEL**

- 4.1 Description of Personnel** The Consultant shall employ and provide such qualified and experienced Personnel and Sub-Consultants as are required to carry out the Services. The titles, agreed job descriptions, minimum qualifications and estimated periods of engagement in

the carrying out of the Services of the Consultant's Key Personnel are described in Appendix C. The Key Personnel and Sub-Consultants listed by title as well as by name in Appendix C are hereby approved by the Procuring Agency.

- 4.2 Removal and/or Replacement of Personnel**
- (a) Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultant, such as retirement, death, medical incapacity, among others, it becomes necessary to replace any of the Key Personnel, the Consultant shall provide as a replacement a person of equivalent or better qualifications.
  - (b) If the Procuring Agency (i) finds that any of the Personnel have committed serious misconduct or have been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultant shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.
  - (c) The Consultant shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.
- 4.3 Resident Project Manager** If required by the SC, the Consultant shall ensure that at all times during the Consultant's performance of the Services in Bhutan a resident project manager, acceptable to the Procuring Agency, shall take charge of the performance of the Services.
- 5. OBLIGATIONS OF THE PROCURING AGENCY**
- 5.1 Assistance and Exemptions** The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Consultant such assistance and exemptions as are specified in the SC.
- 5.2 Change in the Applicable Laws of Bhutan Related to Taxes and Duties** If, after the date of this Contract, there is any change in the Applicable Laws of Bhutan with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred to in Clauses GC 6.2 (a) or (b), as the case may be.
- 5.3 Services,** (a) The Procuring Agency shall make available free of charge to

**Facilities and Property** the Consultant the services, facilities and property listed in Appendix F at the times and in the manner specified in the said Appendix F.

(b) In case such services, facilities and property are not made available to the Consultant as and when specified in Appendix F, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultant for the performance of the Services, (ii) the manner in which the Consultant shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultant as a result thereof pursuant to Clause GC 6.1 hereinafter.

## 6. PAYMENTS TO THE CONSULTANT

- 6.1 Lump-Sum Payment** The total payment due to the Consultant shall not exceed the Contract Price which is an all inclusive fixed lump-sum covering all costs required to carry out the Services described in Appendix A. Except as provided in Clauses 5.2 and 5.3 (b), the Contract Price may only be increased above the amounts stated in Clause 6.2 if the Parties have agreed to additional payments in accordance with Clause 2.4.
- 6.2 Contract Price** (a) The price payable in foreign currency/currencies is set forth in the SC.  
(b) The price payable in local currency is set forth in the SC.
- 6.3 Payment for Additional Services** For the purpose of determining the remuneration due for additional services as may be agreed under Clause 2.4, a breakdown of the lump-sum price is provided in Appendices D and E.
- 6.4 Terms and Conditions of Payment** Payments will be made to the account(s) of the Consultant and according to the payment schedule stated in the SC. Unless otherwise stated in the SC, the first payment shall be made against the provision by the Consultant of an advance payment guarantee for the same amount, and shall be valid for the period stated in the SC. Such guarantee shall be in the form set forth in Appendix G hereto, or in such other form as the Procuring Agency shall have approved in writing. Any other payment shall be made after the conditions listed in the SC for such payment have been met, and the Consultant has submitted an invoice to the Procuring Agency specifying the amount due.
- 6.5 Interest on Delayed Payments** If the Procuring Agency has delayed payments beyond fifteen (15) days after the due date stated in the Clause SC 6.4, interest shall be paid to the Consultant for each day of delay at the rate stated in the SC.

## 7. GOOD FAITH

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

## 8. SETTLEMENT OF DISPUTES

- 8.1 Amicable Settlement** The Parties agree that the avoidance or early resolution of disputes is crucial for a smooth execution of the Contract and the success of the assignment. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 8.2 Dispute Resolution** Any dispute between the Parties as to matters arising pursuant to this Contract that cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be submitted by either Party for settlement in accordance with the provisions specified in the SC.



### III. Special Conditions of Contract

(Clauses in brackets { } are optional; all notes should be deleted in final text)

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.3	The language is <b>English</b> .
1.4	<p>The addresses are:</p> <p>Procuring Agency: <b>Phuentsholing Thromde, Phuentsholing, Bhutan.</b></p> <p>Attention: <b>Executive Secretary.</b></p> <p>Facsimile: <b>00 975 5 254312</b></p> <p>E-mail: <a href="mailto:wthayey@pcc.bt">wthayey@pcc.bt</a></p> <p>Consultant: _____</p> <p>Attention: _____</p> <p>Facsimile: _____</p> <p>E-mail: _____</p>

1.6	<p><del>{The Member in Charge is [insert name of member]}</del></p> <p><i>Note: If the Consultant consists of a joint venture/consortium/association of more than one entity, the name of the entity whose address is specified in Clause SC 1.4 should be inserted here. If the Consultant consists only of one entity, this Clause SC 1.6 should be deleted from the SC.</i></p>
1.7	<p>The Authorized Representatives are:</p> <p>For the Procuring Agency: <b>Mr. Wangchuk Thayey, Executive Secretary, Phuentsholing Thromde.</b></p> <p>For the Consultant: _____</p>
1.8	<p><i>Note: Generally Bhutanese duties and indirect taxes are not to be reimbursed. It is left to the Procuring Agency to decide whether the Consultant (i) should be exempted from any such levies, or (ii) should be reimbursed by the Procuring Agency for any such levies it might have to pay (or that the Procuring Agency would pay such levies on behalf of the Consultant and the Personnel).</i></p> <p><b>a) Amount payable by the Procuring Agency to the Consulting firm shall be subject to deduction of local taxes as applicable.</b></p> <p><b>b) Any taxes/fees/duties payable for import of equipments for this consulting service shall be borne by the consulting firm.</b></p>
2.1	<p>The contract shall come in to effect from the <b><u>date of award of contract.</u></b></p>
2.2	<p>The work shall commence within <b>Ten (10) days</b> from the <b>date of award of contract.</b></p>
2.3	<p>The time period shall be <b>Five Months (150 days).</b></p> <p>a) If the <b>firm fails</b> to complete the whole of the work/services, <b>or</b> any part thereof within the time agreed upon for completion <b>or</b> on the expiry of contract, the <b>client</b> shall have the right to levy liquidated damages equivalent to <b>0.1 percent</b> of the contract price <b>for every day</b> delay subject to a <b>maximum of 10%</b> of the total contract price.</p> <p>b) Once the <b>maximum limit</b> is reached, the client reserves the right to terminate the contract and debar the firm from participation in any tender for consultancy services in Phuentsholing Thromde.</p>

<b>3.4</b>	<b>The client shall not be responsible for any insurance coverage.</b>
<b>3.5 (a)</b>	The consultancy firm <i>shall not be permitted to sub-contract</i> any of the consultancy services to the <i>Sub-consultant / Sub-consulting firm</i> under this contract.
<b>3.7 (b)</b>	The Consultant shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the Procuring Agency.
<b>5.1</b>	<b>Not Applicable</b>
<b>6.2(a)</b>	<b>Not Applicable</b>
<b>6.2(b)</b>	The amount in Ngultrum is <b>Contract Amount</b> .



6.4	<p><b>Payment Schedule:</b></p> <p>Payments shall be made according to the following schedule:</p> <p>(a) Twenty Five percent (25%) of the contract amount shall be paid upon submission of <i>inception report</i>.</p> <p>(b) Twenty Five (25%) of the contract amount shall be paid upon submission of <i>interim progress report</i>, and on acceptance the same by the client.</p> <p>(c) Fifty percent (50%) of the contract amount shall be paid upon <i>successful completion</i>, and on <i>final deliverable</i> accepted by the client. The final deliverable includes:- handing over of final reports (both hard and softcopy ) and datasets(softcopy in CDs &amp; DVDs).</p> <p>(d) Bank charges involved in the preparation of drafts and other paying instruments shall not be borne by the Procuring Agency. The consultant shall make their own arrangement if such transfer is required.</p> <p>(e) <i>All payments</i> to the Consultant shall be made in <i>Ngultrum</i>.</p>
6.5	The interest rate is: <b>as applicable in Bhutan.</b>
8.2	<p><del>Disputes shall be settled by arbitration in accordance with the following provisions:</del></p> <p>1. <del>Selection of Arbitrators. Each dispute submitted by a Party to arbitration shall be heard by a sole arbitrator or an arbitration panel composed of three arbitrators, in accordance with the following provisions:</del></p> <p>(a) <del>Where the Parties agree that the dispute concerns a technical matter, they may agree to appoint a sole arbitrator or, failing agreement on the identity of such sole arbitrator within thirty (30) days after receipt by the other Party of the proposal of a name for such an appointment by the Party who initiated the proceedings, either Party may apply to FIDIC for a list of not fewer than five nominees. Upon receipt of such list, the Parties shall alternately strike names therefrom, and the last remaining nominee on the list shall be the sole arbitrator for the matter in dispute. If the last remaining nominee has not been determined in this manner within sixty (60) days of the date of the list, FIDIC shall appoint, upon the request of either Party and from such list or otherwise, a sole arbitrator for the matter in dispute.</del></p> <p>(b) <del>Where the Parties do not agree that the dispute concerns a technical matter, the Procuring Agency and the Consultant shall each appoint one arbitrator, and these two arbitrators shall jointly</del></p>

	<p><del>appoint a third arbitrator, who shall chair the arbitration panel. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty (30) days after the latter of the two arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by the International Chamber of Commerce, Paris.</del></p>
	<p><del>(c) If, in a dispute subject to Clause SC 8.2 1.(b), one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party which has named an arbitrator may apply to International Chamber of Commerce, Paris to appoint a sole arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the sole arbitrator for that dispute.</del></p> <p><del>2. <u>Rules of Procedure.</u> Except as stated herein, arbitration proceedings shall be conducted in accordance with the rules of procedure for arbitration of the United Nations Commission on International Trade Law (UNCITRAL) as in force on the date of this Contract.</del></p> <p><del>3. <u>Substitute Arbitrators.</u> If for any reason an arbitrator is unable to perform his function, a substitute shall be appointed in the same manner as the original arbitrator.</del></p> <p><del>4. <u>Nationality and Qualifications of Arbitrators.</u> The sole arbitrator or the third arbitrator appointed pursuant to paragraphs (a) through (c) of Clause SC 8.2 1 hereof shall be an internationally recognized legal or technical expert with extensive experience in relation to the matter in dispute and shall not be a national of the Consultant's home country [<i>Note: If the Consultant consists of more than one entity, add: or of the home country of any of their Members or Parties</i>] or of Bhutan. For the purposes of this Clause, "home country" means any of:</del></p> <p><del>(a) the country of incorporation of the Consultant; or</del></p> <p><del>(b) the country in which the Consultant's principal place of business is located; or</del></p> <p><del>(c) the country of nationality of a majority of the Consultant's shareholders; or</del></p> <p><del>(d) the country of nationality of the Sub-Consultants concerned, where the dispute involves a subcontract.</del></p>
	<p><del>5. <u>Miscellaneous.</u> In any arbitration proceeding hereunder:</del></p> <p><del>(a) proceedings shall, unless otherwise agreed by the Parties, be held in [<i>select a country which is neither Bhutan nor the Consultant's country</i>];</del></p>

- ~~(b) the English language shall be the official language for all purposes; and~~
- ~~(e) the decision of the sole arbitrator or of a majority of the arbitrators (or of the third arbitrator if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.~~

**For Contracts with Bhutanese Consultants**

**Construction Development Board (CDB) or other Independent Agency:**

GCC Sub-Clause 8.2—All disputes arising in connection with the present Contract shall be finally resolved by arbitration in accordance with the rules and procedures of the CDB or any other independent agency that has been appropriately mandated at the time of submission of the dispute through its National Arbitration Committee. The arbitration award shall be final on the parties who shall be deemed to have accepted to carry out the resulting award without delay and to have waived their right to any form of appeal insofar as such waiver can validly be made.



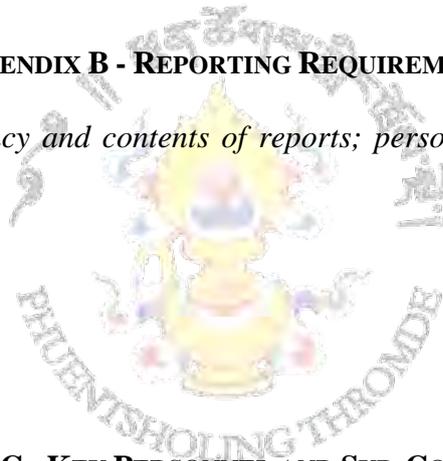
## IV. Appendices

### APPENDIX A – DESCRIPTION OF SERVICES

*Note: Give detailed descriptions of the Services to be provided, dates for completion of various tasks, place of performance for different tasks, specific tasks to be approved by the Procuring Agency, etc.*

### APPENDIX B - REPORTING REQUIREMENTS

*Note: List format, frequency and contents of reports; persons to receive them; dates of submission; etc.*



### APPENDIX C - KEY PERSONNEL AND SUB-CONSULTANTS

*Note: List under:*

- C-1 *Titles [and names, if already available], detailed job descriptions and minimum qualifications of Key Foreign Personnel to be assigned to work in Bhutan, and estimated staff-months for each.*
- C-2 *Same as C-1 for Key Foreign Personnel to be assigned to work outside Bhutan.*
- C-3 *List of approved Sub-Consultants (if already available); same information with respect to their Personnel as in C-1 or C-2.*
- C-4 *Same information as C-1 for Key local Personnel.*

**~~APPENDIX D - BREAKDOWN OF CONTRACT PRICE IN FOREIGN CURRENCY~~**

~~*Note: List here the elements of cost used to arrive at the breakdown of the lump-sum price - foreign currency portion:*~~

- ~~1. Monthly rates for Personnel (Key Personnel and other Personnel).~~
- ~~2. Reimbursable expenses.~~

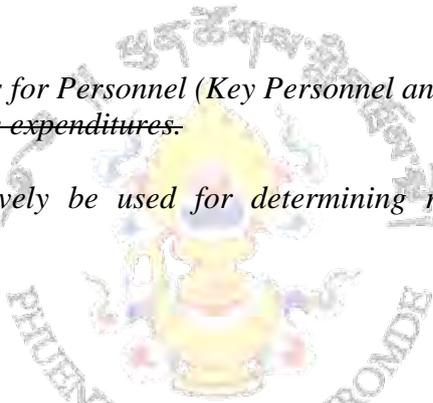
~~*This appendix will exclusively be used for determining remuneration for additional services.*~~

**APPENDIX E - BREAKDOWN OF CONTRACT PRICE IN LOCAL CURRENCY**

*Note: List here the elements of cost used to arrive at the breakdown of the lump-sum price - local currency portion:*

1. Monthly rates for Personnel (Key Personnel and other Personnel).
2. Reimbursable expenditures.

*This appendix will exclusively be used for determining remuneration for additional services.*

**APPENDIX F - SERVICES AND FACILITIES PROVIDED BY THE PROCURING AGENCY**

*Note: List here the services and facilities to be made available to the Consultant by the Procuring Agency.*

**APPENDIX G - FORM OF ADVANCE PAYMENTS GUARANTEE**

*Note: See Clause GC 6.4 and Clause SC 6.4.*

### Bank Guarantee for Advance Payment

\_\_\_\_\_ [Bank's Name, and Address of Issuing Branch or Office]

**Beneficiary:** \_\_\_\_\_ [Name and Address of Procuring Agency]

**Date:** \_\_\_\_\_

**ADVANCE PAYMENT GUARANTEE No.:** \_\_\_\_\_

We have been informed that [name of Consultant] (hereinafter called "the Consultant") has entered into Contract No. [reference number of the Contract] dated [insert date] with you, for the provision of [brief description of Services] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of [amount in figures] ([amount in words]) is to be made against an advance payment guarantee.

At the request of the Consultant, we [name of Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [amount in figures] ([amount in words])<sup>56</sup> upon receipt by us of your first demand in writing accompanied by a written statement stating that the Consultant is in breach of its obligation under the Contract because the Consultant has used the advance payment for purposes other than toward providing the Services under the Contract.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Consultant in its account number \_\_\_\_\_ at [name and address of Bank].

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Consultant as indicated in copies of certified payment statements which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of the payment certificate indicating that the Consultant has made full repayment of the amount of the advance payment, or on the \_\_\_ day of \_\_\_\_\_, 2\_\_\_,<sup>57</sup> whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Procuring Agency's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

<sup>56</sup> The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency or currencies of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Procuring Agency.

<sup>57</sup> Insert the expected expiration date. In the event of an extension of the time for completion of the Contract, the Procuring Agency would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

\_\_\_\_\_  
*[signature(s)]*

*Note: All italicized text is for indicative purposes only to assist in preparing this form and shall be deleted from the final product.*



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**End of RFP Document**

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## **PHUENTSHOLING THROMDE**

Municipality building a better tomorrow

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