

## Uttarakhand Landslide Mitigation and Management Center (ULMMC)

Under Department of Disaster Management & Rehabilitation (Government of Uttarakhand)

4 Subhash Road, Uttarakhand Secretariat, Dehradun - 248001, Uttarakhand

Email id: ulmmc.ddn@gmail.com



### EXPRESSION OF INTEREST


REFERENCE No. 129 / 27 /ULMMC/2023

DATE: 22/07/2023

NAME OF CLIENT: Uttarakhand Landslide Mitigation & Management Center

**Assignment Title:** Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation, and Slope stability assessment in Uttarakhand state.

The ULMMC invites eligible firms for the above assignment through Expression of interest (EOI) method. Details can be obtained from the website [www.uktenders.gov.in](http://www.uktenders.gov.in). Last date for submission of Proposal is 24<sup>th</sup> August, 2023. Proposals must be submitted online on the website [www.uktenders.gov.in](http://www.uktenders.gov.in). Further details may be obtained from the EOI document.

  
Dr. Ranjit Kumar Sinha  
Director General

Signature Not Verified

Digitally signed by SARTHAK  
CHAUDHARY  
Date: 2023.07.24 17:56:20 IST  
Location: Uttarakhand, UT

# **Request for Expression of Interest (EOI)**

## **Procurement of:**

Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and Slope stability assessment in Uttarakhand state.

**EOI No.:** 01/EOI/ULMMC/2023

**Services for:** Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation, and Slope stability assessment in Uttarakhand state.

**Client:** *Director General, Uttarakhand Landslide Mitigation & Management Center (ULMMC), Dehradun, Uttarakhand*

**Country:** *INDIA*

**Issued on:** *24<sup>th</sup> July , 2023*

## **DISCLAIMER**

1. Though adequate care has been taken while issuing this EOI offer Document, the firms should satisfy himself that the document is complete in all respects. Intimation of any discrepancy shall be given to this office (as mentioned below) immediately. If no intimation is received by this office within 3 days from the date of issue of the offer Document, then this office shall consider that the document received by the firms is complete in all respects and that the firms is satisfied that the offer Document is complete in all respect.
2. ULMMC reserves the right to change any or all of the provisions of this offer Document before date of submission. Such changes would be intimated to all parties procuring this offer Document before date of submission.
3. ULMMC reserves the right to reject any or the entire offer without assigning any reasons whatsoever. No correspondence will be entertained on this account.

**Director General**  
**ULMMC, Dehradun**

NIT No.:129/27/ULMMC/2023

Date:22.07.2023

## **INVITATION FOR FIRMS**

### **Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and slope stability assessment in Uttarakhand state.**

#### **1. INVITATION TO BID**

- 1.1.** This EOI Document is for short listing suitable qualified firms and empaneling of firms for conducting Engineering Geological investigation, Geophysical investigation, Geotechnical investigation & Slope stability assessment in Uttarakhand state. This will primarily involve: -
  - i. Engineering geological investigation.
  - ii. Geotechnical investigation & sub-soil exploration.
  - iii. Geophysical investigation.
  - iv. slope stability assessment.
- 1.2.** Interested agencies are advised to study this EOI document carefully before submitting their proposals in response to the EOI Notice. Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications. EOI Tender fee of Rs.5000.00 in original shall be submitted in the Office of Uttarakhand Landslide Mitigation and Management Center (ULMMC) office on all working days between 24<sup>th</sup> July,2023(10:00 AM) to 24<sup>th</sup> August,2023(05:00 PM) either by registered post/Speed post or by hand. Only those bids will be entertained whose EOI Tender fee is received before 24<sup>th</sup> August,2023(05:00 PM). ULMMC will not be held responsible for the postal delay, if any, in the delivery of the document or non-receipt of the same. The Bidder shall furnish EOI tender fee for the amount as mentioned above in form of Demand Draft on a Nationalized/Scheduled Bank in favor of ***"Additional Director General, ULMMC, Dehradun, Uttarakhand"*** payable at Dehradun.
- 1.3.** The complete Proposal should be submitted on or before the Proposal Due Date as specified in Proposal Data Sheet specified in the EOI document. ULMMC shall not be responsible for any delay in receiving the Proposal and reserves the right to reject any or all Proposals without assigning any reason thereof.
- 1.4.** Joint venture(JV) is not allowed for providing services in the project.
- 1.5.** The Empanelment will be for a term of **5 (Five) years** from the date of its notification and shall be renewed based on the satisfactory performance.
- 1.6.** Any subsequent corrigenda / clarifications will be made available in Pre-bid meeting on 31<sup>st</sup> August,2023 at 3:30PM (4<sup>th</sup> Floor DDPM tower, Haridwara By-pass road,



- Ajabpur Khurd).
- 1.7.** All communications including the submission of bid should be addressed to:  
Director,  
Uttarakhand Landslide Mitigation & Management center  
4th Floor, DDPM tower, Haridwar By-pass road,  
Ajabpur Khurd, Dehradun-248001,  
Uttarakhand Email: [ulmmc.ddn@gmail.com](mailto:ulmmc.ddn@gmail.com)
- 1.8.** The bidder shall also furnish a performance security (if awarded after empanelment) of 10% of the contract value valid upto 45 days beyond all the performance obligations in the favor of Additional Director General, ULMMC, Dehradun, Uttarakhand in form of bank Guarantee/FDR only.
- 1.9.** Request for Quotation(RFQ) of financial bids will be sent only to empaneled firms (after empanelment) for works by the client.

**Director General  
ULMMC, Dehradun**

**Uttarakhand Landslide Mitigation and Management Center (ULMMC)**  
**Under Disaster Management & Rehabilitation (Government of Uttarakhand)**  
4 Subhash Road, Uttarakhand Secretariat, Dehradun - 248001, Uttarakhand



NIT No.129/27/ULMMC/2023

Date: 22.07.2023

**2. SCHEDULE OF BIDDING PROCESS**

**Notice Inviting Tender**

**National Competitive Bidding**

**Tender Notice**

1.	Name of the Work	Empanelment of Firms for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment in Uttarakhand state
2.	Mode of submission of bids	Online Tender
3.	EOI Tender Fee & (In INR)	Cost of EOI Tender Document: Rs. 5,000/- (Rupees five Thousand only) (Nonrefundable)
4.	Date of publication of Tender online	24 <sup>th</sup> July,2023 at 12:00 Hrs.
5.	Date of Pre-Bid meeting & Address	31 <sup>st</sup> July,2023 at 15:30 Hrs. & 4 <sup>th</sup> floor DDPM Tower, Haridwar By-pass, near Ajabpur Khurd, Dehradun. Uttarakhand.
6.	Last Date/Time for submission of online bids	24 <sup>th</sup> August,2023 at 17:00 Hrs.
7.	Last Date of submission of Tender fees (Hard Copy)	24 <sup>th</sup> August,2023 at 17:00 Hrs.
8.	Date of technical Bid Opening	25 <sup>th</sup> August,2023 at 12:00 Hrs.
9.	Tender fee submission address	Uttarakhand Landslide Mitigation & Management center, 4th floor DDPM Tower, Haridwar By-pass road, near Ajabpur Khurd, Dehradun-248001, Uttarakhand
10.	Contact no.	+917897788842, +917500109404

**Note: Only e-tenders will be accepted.**

Further details are available on Uttarakhand Government e-procurement website

<http://uktenders.gov.in>

**Director General**  
**ULMMC, Dehradun**

### **3. INVITATION FOR PROPOSAL**

- 3.1.** This EOI Document is for short listing suitable qualified firms and empaneling of firms for conducting Engineering geological investigation, Geotechnical investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment in Uttarakhand state.
- 3.2.** Services covered under conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of firm are –
  - i. Engineering geological investigation.
  - ii. Geotechnical investigation and sub-soil exploration.
  - iii. Geophysical investigation.
  - iv. slope stability assessment.
- 3.3.** A “Single Stage” bidding process will be followed for determining the eligible applicants for empanelment, wherein the applicants would submit their proposal on/ before the Proposal Due Date, as mentioned in the Data Sheet. The applicants shall submit the detailed Proposal for the empanelment of firms for conducting Engineering geological investigation, Geotechnical investigation, Geophysical investigation & slope stability assessment work, as set out in this EOI document.
- 3.4.** This EOI document contains information about the Bidding process, selection process, proposal submission qualification and evaluation process.
- 3.5.** A level of service as specified in this EOI document would be maintained, during the empanelment period, by the empaneled Agencies.
- 3.6.** Interested applicants are required to submit their Proposal for empanelment as per format given in this EOI document. The Proposals will be examined for substantive compliance or responsiveness to the Proposal requirements. The ULMMC will evaluate the Proposals as per the evaluation criteria mentioned in this EOI Document.
- 3.7.** The selection would be based on the marks secured in the Proposal evaluation, and the firms shall be empaneled by the ULMMC subject to scoring a minimum of 70 marks in their proposal.
- 3.8.** The complete Proposals should be submitted on or before the Proposal Due Date as specified in Data Sheet specified in the EOI document. ULMMC shall not be responsible for any delay in receiving the Proposal and reserves the right to reject any or all Proposals without assigning any reason thereof.

### **4. EXPRESSION OF INTEREST**

#### **4.1. Duration of the Empanelment**

The Empanelment will be for a term of **5 (Five) years** from the date of its notification. Firms on the panel will be appointed to specific assignments on the basis of a financial proposal, against a defined scope of work.

#### **4.2. Validity of Proposal**

The Proposal shall be valid for a period of not less than 180 days from the Proposal Due Date, or any extensions thereof as specified by the ULMMC from time to time.

#### **4.3. Brief Description of the proposal**

The ULMMC has adopted a single stage selection process in evaluating the Proposals. Evaluation of those applicants fulfilling the basic criteria as firms for conducting Engineering geological investigation, Geotechnical investigation, Geophysical investigation & slope stability assessment shall be shortlisted.

### **5. General Scope of Work**

#### **5.1. Geological Investigation:**

- i. Assessing the correlation between the instabilities and slope forming materials (i.e., rock type, soil and deposits), topography of the slope, geomorphology, land use and hydrology (including rainfall, seepage, ground water and water springs).
- ii. The Consultant will have to prepare Engineering Geological maps, including all the contents related to slope stability assessment such as Rock Mass rating (RMR), Geological Strength Index (GSI), RQD etc.

#### **5.2. Geo-technical Investigations and Sub-Soil Exploration:**

**Detailed geotechnical investigations and collection of data shall be performed by the Consultant's team of engineers. The lab tests for geotechnical investigation will be conducted at NABL accredited lab/Government recognized lab. The Consultant must take prior approval from the employer for any third-party field investigations and availing laboratory facilities, where testing of samples is proposed to be carried out by any entity. All the soil samples for laboratory testing are to be taken in the presence of field staff designated by ULMMC.**

The geotechnical i.e. sub-soil investigations shall broadly consist of two stages, preliminary Investigation and Detailed investigation. In general, the investigation procedures and collection of data shall follow the guidelines provided in Indian standard codes.

The sub-soil i.e. geotechnical investigations shall be performed to know the nature of the soil and rock strata and obtain the necessary engineering properties of the soil/rock of the proposed Landslide location area. The geotechnical investigation includes surface and subsurface investigations. Subsurface investigations usually require field tests (SPT, DCPT, SCPT, Vane Shear Tests, and PMT etc.), soil sampling and laboratory tests. In contrast, surface exploration can include geologic mapping, and photogrammetric techniques.

The subsurface investigations shall broadly consist of two stages, preliminary Investigation and Detailed investigation.

**The scope of subsurface investigations, in brief, is as below: -**

#### **Preliminary Investigation:**

The preliminary investigation shall include the study of existing geological information, previous site reports, geological maps etc., and surface geological examination. These will help to locate the most desirable location for detailed sub-surface investigation.

S.No	Details of activities	Description	Outcome
1	Preliminary Investigation	Collection of available secondary data: such as site plan, importance of the site, previous geological/geotechnical studies of nearby areas if done any by GSI, State governments or any other institutions, topographical maps, aerial photographs, satellite images, geological maps, and hydrological information etc.	1. Give overall idea specific to the site which will help in planning and successful execution of further activities

### **Detailed Investigation:**

- i. Determination of borehole locations with the tentative arrangement of mitigation measure as approved by the competent authority in charge of the works the borehole location for collection of sub-soil sample shall be decided. The boring for collection of the sample shall be done at the proposed location of the mitigation measure location. One boring at each proposed location of mitigation measure shall be done and the engineering properties of the sub-soil at the location shall be worked out.
- ii. The exploration shall cover the entire length of the landslide affected. Generally, the sub-surface investigations should extend to a depth below the anticipated foundation level equal to about one and a half times the width of the foundation. However, where such investigations end in unsuitable or questionable foundation material, the exploration shall be extended to a sufficient depth into firm and stable soils or rock.
- iii. The scope of the detailed investigations shall be fixed as mentioned in (i) and (ii). However, as a general guide, it shall be comprehensive enough to enable the designer to estimate or determine the following: -
  - a) Assessing engineering properties of the soil/rock by conducting all relevant laboratory and field tests on soil and rock samples.
  - b) Location and extent of weak layers and cavities, if any, below hard founding strata
  - c) The sub-surface geological condition, such as type of rock, the structure of rock, i.e., folds faults, fissures, shears, fractures, joints, dykes, and subsidence due to mining or the presence of cavities
  - d) Groundwater level
  - e) Artesian conditions, if any;
  - f) Depth and extent of water seepage.
  - g) Suitable foundation/Mitigation level.
  - h) Safe bearing capacity of foundation/Mitigation stratum
  - i) Probable settlement.
  - j) Likely sinking or driving effort; and



- k) Likely construction difficulties.
- iv. The consultant shall prepare the scheme for the boring locations according to overall length of the Landslide affected zone.
  - v. However, where a study of geo-technical reports and information available from adjacent crossings over the same landslide location indicates that if the subsurface variability is such that boring at the suggested spacing is insufficient to define the conditions for design purposes adequately, the Consultants shall review and finalize the borehole locations in consultation with the ULMMC officers.
  - vi. Geotechnical Investigations and Sub Soil Exploration shall be carried out to determine the nature and properties of existing strata and approaches with trial pits and borehole sections showing the levels, nature and properties of various strata to a sufficient depth below the level suitable for foundations, safe intensity of pressure on the foundation strata, the proneness of the site to artesian conditions, seismic shocks and other engineering properties of soil, etc. Geotechnical investigation and Sub-Soil Exploration will be done as per IRC 78.
  - vii. Boreholes, field tests and laboratory tests should be carried out through the Geotechnical Consultants empaneled by MORT&H/PWD/NDMA to ascertain the properties of underlying soil/rock strata. The soil testing reports shall be in the format prescribed in relevant IRC Codes.
  - viii. The size of the bores shall be predetermined so that undisturbed samples as required for the various types of tests are obtained. The method of taking samples shall be as given in IS: 1892 and IS: 2132. The tests on soil samples shall be conducted as per relevant part of IS: 2720.
  - ix. Sample obtained from the boreholes drilled to a 4m-5m deep inside hard rock strata or as specified by client. As far as possible, the locations of the boreholes shall be as per the India standard guidelines for boring done at site (IS-1892). Generally, the following tests as listed in **Table 2** are performed to assess the engineering properties of soil properties:

**Table 2 Details of tests and minimum no. of tests to be performed**

S. No.	Type of test	Frequency
1	Undisturbed Soil sampling	At least 1 at every meter in each borehole location
2	Standard Penetration Test	As required but interval not less than 1.5 m
3	Grain Size analysis	At least 1 at every meter in each borehole location
4	Hydrometer analysis	At least 1 at every meter in each borehole location
5	Moisture content	At least 1 at every meter in each borehole location
6	Bulk and dry density	At least 1 at every meter in each borehole location

7	Unconfined compression test	At least 1 at every meter in each borehole location
8	Consolidation test	At least 1 at every meter in each borehole location
9	Direct shear test	At least 1 at every meter in each borehole location

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

### Detailed field investigation

S. No	Details of activities	Description	Outcome
1	Field observations	<p>Detailed field investigations from the crown to toe of the landslide site and as well in the adjacent area to better understand the site</p> <p>Note down the specific visual observations of the site which are helpful to quantify the actual condition of the site.</p> <p>Type of landslide and triggering factors of landslide occurrence (whether earthquake, heavy rain, land subsidence, geotechnical failure etc.)</p>	1. Actual problem identification i.e., causative and triggering factors
2	Field photographs	Capture the sufficient number of field photographs specific to the site as these photographs are useful in illustrating site conditions or specific features	2. To substantiate the identified problem
3	Topographical survey	Collect as many as elevation points (i.e., GPS points) from the site. The purpose of a topographic survey is to generate the contour map of the site. These contour maps are helpful in drawing cross-sectional profile.	3. Contour map and cross sectional profile
4	Geological investigations	<p>Understand the local geology; identify the soil and rock type, hydrology, and discontinuities.</p> <p>Landslide morphology (i.e., its dimension, scarp area, crown, Toe, accumulation zone etc.)</p>	<p>4. Geological/structural map</p> <p>5. Geological cross sections</p> <p>6. Rock type classification</p> <p>7. Joint details (dip and strike/dip direction), and</p>

			number of joint sets.
5	Geophysical Investigations (If applicable)	Electrical resistivity, Seismic survey, and Ground Penetrating Radar(GPR) survey etc to understand the subsurface strata	8. Subsurface profile 9. Identification of any anomaly or disturbed zone etc.
6	Geotechnical Investigations	<p>Understand the material type and classify the soil type based on visual observations.</p> <p>Study of different parameters required for RMR and GSI systems to classify the rock mass.</p> <p>Identifying location of Boreholes or trenches to be drilled.</p> <p>Physical observation of the site especially at crown and toe area of the site to record ground truth like tensional cracks at crown and toe erosion etc.</p>	<p>10. Soil type</p> <p>11. Rock mass classification Rating</p> <p>12. To substantiate the tensional crack with slip surface obtained from stability analysis</p>

### Detailed Site Exploration

S.No	Details of activities	Description	Outcome
1	Bore hole drilling	<p>The purpose of drilling of borehole is for detailed exploration subsurface lithology i.e., soil and rock types up to the over burden soil depth as per IS: 1892</p> <p>Maintain the log book for each borehole and ensure that the following data maintained properly-</p> <p>Type of drilling, borehole location, depth, and spacing , details of the soils encountered, type of sampling tests adopted, and Presence of water table if met with is recorded</p>	<ul style="list-style-type: none"> <li>• Bore log</li> <li>• SPT test data</li> <li>• SPT sample</li> <li>• Un disturbed sample</li> <li>• Core box with recovered sample</li> </ul>
2	SPT	<p>Conduct the soil Standard Penetration Test (SPT) as per IS 2131</p> <p>The soil samples are properly labelled and sent to laboratory for evaluation of their physical and engineering properties.</p>	<ul style="list-style-type: none"> <li>• SPT test results</li> </ul>

3	Trenches	<p>Samples need to be collected from the scarp area of the landslide site and these samples to be tested for index properties to confirm the physical properties.</p> <p>If SPT samples are not obtained, samples should be collected carefully from the trenches to classify and characterize the samples</p>	<ul style="list-style-type: none"> <li>Disturbed sample for lab testing</li> </ul>
4	Core cutter	Conduct the core cutter method and obtain the core cutter samples from couple of locations	<ul style="list-style-type: none"> <li>Field density and natural moisture content</li> </ul>

### 5.3. Geophysical investigation:

The consultant must be able to plan and carry out Geophysical investigations and its analysis and interpretation through GPR survey, Seismic Survey and Electrical Resistivity Tomography (ERT) in order to know the subsurface strata, soil rock interface, seepage zone etc.

Prior to the performance of geophysical survey activities, a ground survey will be performed by the consultant to establish the general areas subject to the geophysical survey. Once the survey limits (area) have been established to the extent possible (based on accessibility considerations) the geophysical survey will be performed using either one two or all the three mentioned methods i.e. GPR survey, Seismic Survey and Electrical Resistivity Tomography (ERT) on the basis of the requirement and in consultation with ULMMC. The result will be submitted in the form of report and raw data too.

The ERT survey is a well-established non-invasive technique of measurement of the resistance of sub-surface strata to the flow of electric current in it. It is used to determine the distribution of water saturated zones and different sub-surface layers. During the performance of ERT geophysical survey, two components will be recorded: 1) electromagnetic (EM) conductivity values that respond to metallic and non-metallic sources of elevated conductivity and 2) EM in-phase values that respond primarily to metallic objects. The Ground penetrating radar (GPR) survey is done in order to capture images below the surface of the ground and to mark soil rock interface or any anomalies lying below the ground. The antennas for the particular frequencies will be chosen on the basis of ground conditions and on the desired applications to detect changes in ground strata, Geological features and rock obstructions, Air pockets or voids, Excavated and back-filled areas, Groundwater tables and Bedrock. Since the GPR has its own limitation (radar wave penetration up to certain depth, based on ground conditions) so Seismic survey may be carried out after consultation with ULMMC. MASW is a seismic exploration technique that first measures seismic surface waves generated from various types of seismic sources—such as sledgehammer—analyzes the propagation velocities of those surface waves, and then finally deduces shear-wave velocity ( $V_s$ ) variations below the surveyed area that is

most responsible for the analyzed propagation velocity pattern of surface waves. Shear-wave velocity ( $V_s$ ) is one of the elastic constants and closely related to Young's and shear moduli and is a direct indicator of the ground strength (stiffness) and therefore commonly used to derive load-bearing capacity.

#### **5.4. Slope stability analysis:**

Stability analysis of soil and rock slopes should be carried out as follows: -

- i. Analyzing slope with configuration of soil/rock strata including basic geology (e.g., strike, dips and discontinuities)
- ii. Analyzing slope under different loading conditions (i.e., dry and saturated with and without seismic loading).
- iii. Analyze the stability of rock/soil slopes to assess the type of failure (i.e. circular, planar, wedge and toppling) that is likely to occur in the slope.
- iv. Studying slope failures are self-generated or imposed.
- v. Determining FOS (Factor of Safety), shear stress distribution along different under different condition along various slope sections.
- vi. Demarcating the high-risk locations/zones in the study area based on the stability analysis to define potential engineering solutions.
- vii. Determining the requirements for engineering structures and then proposing best possible control measures along with design methodology. The design methodology should include design criteria/detailed design calculations in support of each engineering structure. The proposed design of Slope Stabilization Works should be in accordance to the standard codes of practices and specifications.

### **6. Schedule of Selection Process & communication.**

The ULMMC would endeavor to adhere to the schedule as mentioned in the Data Sheet.

#### **6.1. Communications**

The Proposal and clarifications required if any from ULMMC should be addressed to the **“Director, ULMMC, 4<sup>th</sup> Floor, DDPM Tower, Haridwar By-pass road, Ajabpur khurd”**. The relevant information and documents related to the Project like EOI, notices regarding selection process, etc. shall be uploaded on the website.

### **7. GENERAL CONDITIONS AND CONDITION FOR EVALUATION**

Firms failing to meet these criteria or not submitting requisite supporting proof as specified in this EOI document may be liable to be rejected during the Proposal Evaluation at sole discretion of the ULMMC.

#### **7.1. Applicant/Firm**

The applicant/firm can be a single entity. Joint venture for this work will not be applicable.

#### **7.2. Cost of Proposal**

The Applicant/firm shall be responsible for all of the costs associated with the preparation of their Proposals and their participation in the selection process. The



ULMMC will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the selection process.

**7.3. Tender Fee/ EOI Document Fee**

Interested agencies are advised to study this EOI document carefully before submitting their proposals in response to the EOI Notice. Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications. **EOI Tender fee of Rs.5000.00 in original shall be submitted in the Office of Uttarakhand Landslide Mitigation and Management Center (ULMMC) office (4<sup>th</sup> Floor, DDPM Tower, Haridwar Bypass road, Ajbpur khurd)** on all working days between 24<sup>th</sup> July,2023(12:00 Hrs.) to 24<sup>th</sup> August,2023(17:00 Hrs.) either by registered post/Speed post or by hand. Only those bids will be entertained whose EOI Tender fee is received before 24<sup>th</sup> August,2023(17:00 Hrs.). ULMMC will not be held responsible for the postal delay, if any, in the delivery of the document or non-receipt of the same. The Bidder shall furnish EOI tender fee for the amount as mentioned above in form of Demand Draft on a Nationalized/Scheduled Bank in favor of **“Additional Director General, ULMMC, Dehradun, Uttarakhand” payable at Dehradun.**

**Acknowledgement by Applicants**

It shall be deemed that by submitting the Proposal, the Applicants has:

- a) Made a complete and careful examination of the EOI document;
- b) Received all relevant information requested from the ULMMC;
- c) Acknowledged and accepted the risk of inadequacy, error or mistake in the information provided in the EOI document or furnished by or on behalf of the ULMMC or relating to any of the matters referred above;
- d) Satisfied itself about all matters, things and information, including matters referred herein above, necessary and required for submitting an informed Application and performance of all of its obligations there under;
- e) Acknowledged that it does not have a Conflict of Interest; and
- f) Agreed to be bound by the undertaking provided by it under and in terms hereof.

The ULMMC shall not be liable for any omission, mistake or error on the part of the Applicants in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the EOI document or the Selection Process, including any error or mistake therein or in any information or data given by the ULMMC.

**7.4. Right to reject any or all Proposals**

Notwithstanding anything contained in this EOI document, the ULMMC reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

a. The ULMMC reserves the right to reject any Proposal if:

- i. At any time, a material misrepresentation made by the Applicants is uncovered or comes to the knowledge of the ULMMC.

Or

- ii. The Applicants does not provide, the supplemental information sought by the

ULMMC, within the specified time for evaluation of the Proposal.

- a. Such misrepresentation/ improper response may lead to the disqualification of Applicants. If such disqualification/ rejection occurs after the Proposals have been opened then the ULMMC reserves the right to take any other measure as may be deemed fit, including annulment of the Selection Process.

**7.5. Amendment of EOI document**

- a. At any time prior to the deadline for submission of Proposal, the ULMMC may, for any reason, at its own initiative, modify the EOI document by the issuance of Addendum/ Amendment.
- b. All such addenda/amendments will be posted on the website along with the amendments and will be binding on all Applicants they will form part of the EOI.
- c. In order to afford the Applicants a reasonable time for taking an amendment into account, or for any other reason, the ULMMC may, in its sole discretion, extend the Proposal Due Date (PDD). Any extension of PDD shall be published only on the websites “www.uktenders.gov.in”, no separate correspondence will be made by this office.

**7.6. Conflict of Interest**

- a. The Authority requires that the firm provides professional, objective, and impartial advice and at all times hold the Authority's interest's paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The firm shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of the Authority.
- b. An Applicant shall not have a conflict of interest that may affect the Selection Process of firm (the "Conflict of Interest"). Any Applicant found to have a Conflict of Interest shall be disqualified.

**7.7. Language**

- a. The Proposal and all related correspondence and documents shall be written in English language. If any supporting document attached to the Proposal is in any other language, the same will be supported by an English translation (duly authenticated/ attested by the Authorized Signatory of the Applicant).

**7.8. Format and Signing of Proposal**

- a. The interested Applicants shall provide all the information sought under this EOI document. The ULMMC would evaluate only those Proposals that are received in the specified forms and are complete in all respects. All pages of the proposal should be serially numbered and cross referencing wherever necessary should have been done in Annexure also. The Proposal should also contain the Table of Contents.
- b. The interested Applicants shall prepare the Proposal together with Documents required to be submitted along therewith pursuant to this EOI. The Proposal shall be typed or written in indelible ink and signed by the authorized signatory of the Applicants who shall initial each page, in blue ink. In case of printed and published Documents, only the cover shall be signed. All the alterations, omissions, additions, or any other amendments made to the Proposal shall be initialed by the

person(s) signing the Proposal. The Proposals must be properly signed by a duly authorized person holding the Power of Attorney with Board Resolution as per statutory provisions. A copy of the Power of Attorney certified under the hands of a notary public on the specified form, shall accompany the Proposal.

- c. Applicants should note the Proposal Due Date, as specified in Proposal Data Sheet, for submission of Proposals. Applicants are reminded that no supplementary material will be entertained by the ULMMC, and that evaluation will be carried out only on the basis of Documents received by the closing time of Proposal Due Date as specified in Proposal Data Sheet unless it is invited by the ULMMC.

#### **7.9. Proposal**

- a. Applicants shall submit the Proposal in the formats provided in the Appendix (the “Formats”)
- b. The ULMMC reserves the right to verify all statements, information and documents, submitted by the Applicants in response to the EOI document. Failure of the ULMMC to undertake such verification shall not relieve the Applicants of its obligations or liabilities hereunder nor will it affect any rights of the ULMMC thereunder.
- c. In case it is found during the evaluation or after empanelment that an Applicant has made a material misrepresentation or has given any materially incorrect or false information, the Applicants shall be disqualified forthwith, be liable for its removal from the Panel of Technical Agency, by a communication in writing by the ULMMC without being liable in any manner, whatsoever, to the Applicants/ Empaneled Technical Agency(s), as the case may be.

#### **7.10. Submission of Proposal**

- a. Bid must be submitted online at e-procurement portal of Uttarakhand([www.ukktenders.gov.in](http://www.ukktenders.gov.in)). The Applicants shall submit the proposal (Proof of Eligibility and Technical Proposal) comprising the documents to meet the requirements of ‘Proof of Eligibility’ and ‘Technical Proposal’ along with bid document.

#### **7.11. Preparation of Proposal**

The proposals would be evaluated by ULMMC. A single-stage procedure will be adopted in evaluating the proposal which will be divided in two parts namely “First (Part I)” and “Second (Part II)”.

The proposal must be prepared as follows,

**Part 1: Essential Qualifications (Proof of eligibility) – Pre Qualification Criteria**

**Part 2: Criteria for Evaluation (Technical Proposal)**

##### **Evaluation Part 1 – Proof of Eligibility**

In the first part - Proof of Eligibility, it will be examined as per following tools of evaluation:

1. Annexure 1 – Covering Letter
2. Annexure 2 – Format for Minimum Technical Proposal
3. Annexure 3 – Format for CA Certificate for Minimum Financial Eligibility Criteria (DIN number to be mentioned in all CA certified documents)

#### 4. Annexure 4 - Details of Applicant

An Applicant satisfying the minimum Eligibility Criteria shall be considered “responsive” in Proof of Eligibility and the Technical Proposals of only those Applicants shall be evaluated further whose applications are responsive in evaluation process Part 1.

#### **Part 2: Technical Evaluation –**

In the second part the Technical proposal shall include Appendix listed below with proper reference indexing:

1. Annexure 5 – Experience in Similar Projects with approval from competent authority.
2. Annexure 6 – Financial turnover with CA certificate (DIN number to be mentioned in all CA certified documents)
3. Annexure 7–Description of Approach, Methodology and Work Plan on the basis of Site Appreciation.
4. Annexure 8 – Minimum Equipment required

#### **7.12. Proposal Due Date**

- a. Proposal should be submitted on or before the Proposal Due Date specified in the Data Sheet at the address provided in Data Sheet in the manner and form as detailed in this EOI document.
- b. The ULMMC may, in its sole discretion, extend the Proposal Due Date by issuing an Addendum in accordance with provisions of this EOI through ([www.uktenders.gov.in](http://www.uktenders.gov.in)) website only.

#### **7.13. Late Proposals**

- a. Any Proposal received after the Proposal Due Date will not be accepted. ULMMC is not responsible for any Postal delays. Applicant shall ensure the receipt of their Bid. Any queries in this regard please contact over mail [ulmmc.ddn@gmail.com](mailto:ulmmc.ddn@gmail.com) or on mobile number 07897788842.

### **8. EVALUATION PROCESS**

#### **8.1. Evaluation of Proposals**

- a. The ULMMC would subsequently examine and evaluate Proposals in accordance with the Selection Process specified in this EOI and the criteria set out in this EOI.
- b. Proposals, for which a notice of withdrawal has been submitted in accordance with the provisions of the EOI document, will not be opened.
- c. Prior to evaluation of Proposals, ULMMC will determine whether each Proposal is responsive to the requirements of the EOI. A Proposal shall be considered responsive only if:
  - i. It is received as per the detailed set out.
  - ii. It is received by the Proposal Due Date including any extension.
  - iii. It is signed, sealed, bound and marked.

- iv. It contains all the information (complete in all respects) as requested in the EOI document;
  - v. It does not contain any condition or qualification;
  - vi. It is not non-responsive in terms hereof;
  - vii. Meets the Empanelment criteria
- d. The ULMMC reserves the right to reject any Proposal which is non responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the ULMMC in respect of such Proposals.
  - e. After the evaluation, the ULMMC would prepare a list of Empanelment Applicants and shall be empaneled by the Uttarakhand Landslide Mitigation and management center (ULMMC), Dehradun as firms for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment in Uttarakhand state.
  - f. Any information contained in the Proposal shall not in any way be construed as binding on the ULMMC, its agents, successors or assigns, but shall be binding against the firms/ Agencies if the empanelment is subsequently awarded to it.

## **8.2. Confidentiality**

- a. Information relating to the examination, clarification, evaluation and recommendation for the Empanelment Bidders shall not be disclosed to any person not officially concerned with the process. ULMMC will treat all information submitted as part of all Proposals in confidence and will insist that all who have access to such material treat it in confidence. ULMMC will not divulge any such information unless it is ordered to do so by any Government authority that has the power under law to require its disclosure or due to statutory compliances.

## **8.3. Clarification**

- a. To facilitate evaluation of Proposals, the ULMMC may, at its sole discretion, seek clarifications from any Applicant(s) regarding its Proposal. Such clarification(s) shall be provided within the time specified by the ULMMC for this purpose. Any request for clarification(s) and all clarification(s) in response there to shall be in writing. Clarification /request submitted by the Applicants without the request of the ULMMC shall not be entertained.
- b. If an Applicant does not provide clarifications within the specified time, its Proposal shall be liable to be rejected. In case the Proposal is not rejected, the ULMMC may proceed to evaluate the Proposal by construing the particulars requiring clarification to the best of its understanding, and the Applicant shall be barred from subsequently questioning such interpretation of the ULMMC.

## **8.4. Empanelment Letter**

- a. After selection, an Empanelment Letter shall be issued, in duplicate, by the Uttarakhand Landslide Mitigation and Management center(ULMMC), Dehradun to the Selected Applicants. Selected Applicants shall within 7 (seven) days, sign and return the copy of the Letter in acknowledgement thereof. In the event the copy of the Award Letter duly signed by the any of the Applicant(s) is not received by ULMMC within stipulated date, it will be considered cancelled unless the selected applicant consents extension of time for submission.



## 9. MINIMUM ELIGIBILITY CRITERIA

### 9.1. Technical capabilities:

**9.1.1.** Firm must have done similar work for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment work must be completed and approved by competent authority in all respects.

*Similar Nature: - conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment survey.*

**9.1.2.** Firm must be registered and operational in India since last 5 years from the date of publish of this EOI and must remain operational thereafter.

**9.1.3.** Shall have adequate expertise, manpower to execute the project within the desired timeline.

**9.1.4.** Shall not be blacklisted/debarred by any State/Central Department or PSU or Autonomous bodies. The applicant must submit a duly notarized affidavit to this effect. Applications received without this declaration shall stand automatically rejected.

### 9.2. Financial capabilities:

**9.2.1.** Firm should have minimum average annual turnover of Rs.5 Lakh in any one in the last three financial years from the date of publication of the EOI (Last 3 (three) financial years read as 2019-20, 2020-21, 2021-22).

**9.2.2.** Firm should have a positive net worth in last three years from the date of publication of the EOI.

**9.2.3.** Shall submit a copy of PAN Card and GST Registration details.

**9.2.4.** Shall submit balance sheet, profit & loss account statement for the last three financial years certified by Charter Accountant.

***NOTE:** Firms which do not qualify the minimum eligibility criteria will be considered non-responsive and further evaluation of their offer will not be done*

## 10. EVALUATION OF THE OFFER

**10.1. The offers submitted will be evaluated using the following criteria:**

S. No.	Evaluation Criteria	Maximum Marks	Qualifying Marks
1	Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same for conducting Engineering geological investigation,	25	70

	Geophysical investigation, Geotechnical investigation & slope stability assessment work must be completed and approved by competent authority in all respects.		
2	Firm should have average annual turnover in the last three financial years from the date of publication of the EOI (Last 3 (three) financial years read as 2019-20, 2020-21, 2021-22) (DIN number to be mentioned in all CA certified documents)	25	
3.	Submission of Approach, Methodology and Work plan	25	
4.	Equipment's required (owned/Leased)	25	
	<b>Total Points -</b>	100	70

**10.2.** The number of points to be given under each evaluation sub-criteria for firm's similar work experience in the field of assignment and proposed approach, work plan and methodology are:

**10.3. Experience Criteria**

S. No.	Evaluation Parameter	Marks
1	Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment work must be completed and approved by competent authority in all respects.	25 marks
1.1.	Up to 5 relevant projects of similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area of similar nature in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23).	05 Marks for each project with maximum up to 25 Marks
	<b>Total Marks</b>	<b>25 Marks</b>

**10.4. Financial Capabilities: -**

S. No.	Criteria	Maximum Marks
1	<p>Firm should have average annual turnover in the last three financial years from the date of publication of the EOI (Last 3 (three) financial years read as 2019-20, 2020-21, 2021-22) will be given marks mentioned below (DIN number to be mentioned in all CA certified documents)</p> <p><b>INR 05 Lakhs-10 Lakhs                      Marks-05</b>  <b>INR 10 Lakhs – 20 Lakhs                      Marks-10</b>  <b>INR 20 Lakhs – 30 Lakhs                      Marks-15</b>  <b>INR 30 Lakhs – 40 Lakhs                      Marks-20</b>  <b>INR 40 Lakhs – 50 Lakhs                      Marks-25</b></p>	25 marks
	<b>Total Marks -</b>	<b>25 marks</b>

**10.5. Description of Approach, Methodology and Work Plan on the basis of Site Appreciation**

S. No.	Criteria	Maximum Marks
1	<b><u>Technical Approach and Methodology:</u></b> In this chapter please 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.	15 marks
2	<b><u>Work Plan on the basis of site appreciation:</u></b> In this chapter please propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the Work/ Project Site and also the TOR and ability to translate them into a feasible working plan.	10 marks
	<b>Total Marks -</b>	<b>25 Marks</b>

### 10.6. Equipment's required

S.No.	Items	Minimum quantity	Ownership/ Lease	Documents to be submitted	Marks
1.	Instruments for Geotechnical and Geophysical Studies				
A. Instruments for Geotechnical Investigations					
a	Apparatus for basic Soil Engineering Properties (Water Content determination. Density-Void ratio determination, OMC Atterberg Limits, Particle Size Distribution. Specific Gravity of soil solids, Proctor Compaction Permeability) and strength characteristics through UCS, Direct Shear and Tri-axial machines	1	Own /Lease	i. Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	05
b	Apparatus for Rock Geotechnical Properties (Index properties, Point load, UCS, Shear test, Tri-axial test for Elastic Constants)	1	Own /Lease	i. Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	05
c	Geotechnical Field Instruments (equipment's to determine/done Soil bearing capacity, RQD, SPT, Drilling, )	1	Own /Lease	i. Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	04
d	Software's for Slope stability/Kinematic analysis				04
B. Instruments for Geo Physical Investigations					
e	Seismic Survey /MASW	1	Own /Lease	i. Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful	04

				and complete implementation of the Project along with invoice copy of the owner.	
f	<b>Ground Penetrating Radar</b>	1	Own/Lease	i Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	02
g	<b>Electrical Resistivity Tomography</b>	1	Own/Lease	i) Invoice copy  ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	01

**10.7 Manpower: Kindly share an organogram of the organization for better understanding of the employer.**

*NOTE: Evaluation of offer will not be done on basis of manpower.*

## 11. Payment Terms

The fee structure will be on the basis of relevant work mentioned below.

Sr. No.	Activities	Payment Schedule Breakup (in % of the Project Cost)
1	Submission and approval of Engineering Geological investigation reports.	20%
2	Submission and approval of Geotechnical investigation reports.	30%
3	Submission and approval of Geophysical investigation reports.	30%
4	Submission and approval of Slope stability assessment reports.	20%
	<b>Total</b>	<b>100%</b>

## 12. DATA SHEET

S.No.	Key Information	Details
1.	Assignment	Empanelment of Firms for conducting Engineering geological investigation, Geotechnical investigation,



		Geophysical investigation & slope stability assessment in Uttarakhand
2.	Proposal Validity	180 days from the Proposal Due Date (PDD) or any extension thereof, sought by Andhra Pradesh MSME Development Corporation
3.	Proposal Evaluation	<p><b>Envelope 1 – Pre- Qualification Criteria</b></p> <ol style="list-style-type: none"> <li>1. Annexure 1 – Covering Letter of Firm.</li> <li>2. Annexure 2 – Minimum technical eligibility as per clause 9.1</li> <li>3. Annexure 3 – Minimum financial eligibility as per clause 9.2 (DIN number to be mentioned in all CA certified documents)</li> <li>4. Annexure 4 – Details of Applicant/firm.</li> </ol> <p><b>Envelope 2 – Technical Proposals</b>  Technical proposals of the firms that meet the Eligibility Criteria (Experience and Financial) will only be evaluated further. Minimum score required for technical qualification of the proposal is 70 marks (max. marks = 100)</p> <ol style="list-style-type: none"> <li>1. Annexure 5 – Experience in Similar Projects with approval from competent authority as per clause 10.3.</li> <li>2. Annexure 6 – Financial turnover with CA certificate as per clause 10.4 (DIN number to be mentioned in all CA certified documents)</li> <li>3. Annexure 7 – Description of Approach, Methodology and Work Plan on the basis of Site Appreciation as per clause 10.5.</li> <li>4. Annexure 8 – Minimum Equipment's required clause 10.6</li> </ol>
4.	Criteria for selection of firm	The sole criterion for selection of firm is on the technical qualification.
5.	Submission of Proposal	The applicants shall be required to submit their proposals as per annexures provided in the EOI duly filled, signed and stamped on e-procurement website of Uttarakhand government site. ( <a href="http://www.uktenders.gov.in">www.uktenders.gov.in</a> )

### 13. INTRODUCTIONS TO BIDDERS

- The entire proposal shall be strictly as per the format specified in this EOI. Bids with deviation from this format shall be summarily rejected and the decision of the tendering authority in this regard will be final and binding on all.
- The bidders are required to submit the Technical bid, as per the instruction given in this EOI.

- c. Any deficiency or deviation in the documentation may result in the rejection of the bid.
- d. The Applicant shall be responsible for all of the costs associated with the preparation of their Proposals and their participation in the selection process. The ULMMC will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the selection process.

#### **14. BID RESPONSE**

- a. Bidders are advised to study all instructions, forms, terms, requirements and other information in the EOI documents carefully. Submission of bid shall be deemed to be done after careful study and examination of the EOI document with full understanding of its implications.
- b. The response to this EOI should be full and complete in all respects. Failure to furnish all information required by the EOI documents or submission of a proposal not substantially responsive to the EOI documents in every respect will be at the bidder's risk and may result in rejection of its proposal.

## **ANNEXURES**

## ANNEXURE – 1

### COVERING LETTER

**Date:**

To,

Director,  
Uttarakhand Landslide Mitigation & Management center,  
4<sup>th</sup> Floor DDPM tower, Haridwar by-pass road, Ajabpur khurd  
Dehradun-248001.

**Subject:** Empanelment of Firms for conducting Engineering geological investigation, Geotechnical investigation, Geophysical investigation & slope stability assessment in Uttarakhand state.

Dear Sir/Madam,

With reference to the EOI Document for the captioned Project, I/we, having examined all relevant documents and understood their contents, hereby submit our Proposal for selection as firm for conducting Engineering geological investigation, Geotechnical investigation, Geophysical investigation & slope stability assessment work in Uttarakhand state. The Proposal is unconditional and unqualified.

1. I/we confirm that I/we have examined the terms and conditions published in the EOI and accordingly submitting the Application. The proposal is unconditional and unqualified.
2. All information provided in the Proposal is true and correct and all documents accompanying such Proposal are true copies of their respective originals.
3. This statement is made for the express purpose of appointment as the firm on the empanelment of Uttarakhand Landslide Mitigation & Management center, Dehradun-248001.
4. I/We shall make available to ULMMC any additional information it may deem necessary or require for supplementing or authenticating the Proposal.
5. I/We acknowledge the right of the ULMMC to reject our application without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
6. I/We certify that in the last three years, I/we have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial Court or a judicial pronouncement or arbitration award against us, nor have been expelled from any project or contract nor have had any contract terminated for breach on our part.
7. I/We declare that:
  - a) I/We have examined and have no reservations to the EOI Documents, including any Addendum thereto, issued by the ULMMC;
  - b) I/We do not have any conflict of interest in accordance with provisions of the EOI Document;
  - c) I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in the EOI document, in respect of any tender or request

- for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State; and
- d) I/We hereby certify that we have taken steps to ensure that in conformity with the provisions of this EOI, no person acting for us or on our behalf will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.
8. I / We understand that you may cancel the Selection Process at any time and that ULMMC is neither bound to accept any Proposal that you may receive nor to select the Consultant, without incurring any liability to the Applicants in accordance with the EOI document.
9. I / We certify that in regard to matters other than security and integrity of the country, we or any of our Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast a doubt on our ability to undertake the work for the Project or which relates to a grave offence that outrages the moral sense of the community.
10. I / We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law for any offence committed by us or by any of our Associates.
11. I / We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority (and/ or the Government of India) in connection with the selection of work or in connection with the Selection Process itself in respect of the above mentioned Project.
12. I / We agree and understand that the proposal is subject to the provisions of the EOI document. In no case, shall I/we have any claim or right of whatsoever nature if the work for the Project is not awarded to me/us or our proposal is not opened or rejected.
13. I / We agree to keep this offer valid for 180 (One Hundred and Eighty) days from the Publication Date specified in the EOI.
14. In the event of my/our firm being selected for work, I/we agree and undertake to provide the services of the work in accordance with the provisions of the EOI and that the Team Leader shall be responsible for providing the agreed services himself and not through any other person or Associate.
15. I/We have studied EOI and all other documents carefully. We understand that we shall have no claim, right or title arising out of any documents or information provided to us by the Authority or in respect of any matter arising out of or concerning or relating to the Selection Process including the award of Empanelment.
16. The Pre-Qualification and Technical Proposals are being submitted in separate Envelopes. The contents provided in Envelopes 1 & 2 shall constitute the Application which shall be binding on us.
17. I/We agree and undertake to abide by all the terms and conditions of the EOI Document. In witness thereof, I/we submit this Proposal under and in accordance with the terms of the EOI Document.

**Yours faithfully,**

**(Signature, name and designation of the authorized signatory)**

## **ANNEXURE – 2**

### **Minimum Technical Capabilities**

The firm's experience of the last 5 years in the field of assignment (Please also enclosed the supporting documents)

<b>S. No.</b>	<b>Name of the Project</b>	<b>Nature of the project</b>	<b>Name of the Department</b>	<b>Total Cost of the Project</b>	<b>Date of commencement of the Project</b>	<b>Status of the Project</b>	<b>Remarks about the completion of the project by the concerned Department</b>
1	2	3	4	5	6	7	8

**(SIGNATURE OF AUTHORIZED SIGNATORY AND SEAL)**

**ANNEXURE – 3**

**Minimum Financial Capabilities**

**FORMAT FOR CA CERTIFICATE (DIN number to be mentioned in all CA certified documents)**

We hereby certify that average revenue from advisory services to state/ central government / Multilateral Organizations in the last three financial years (2020-21, 2021-22, and 2022-23) is as is specified below.

<b>S.No.</b>	<b>Financial year</b>	<b>Turnover (in Lakhs)</b>
1.		
2.		
3.		
	<b>TOTAL</b>	

**Yours faithfully,**  
**For .....**  
**Chartered Accountants**

**Membership Number**  
**Date-**  
**Place-**

## **ANNEXURE – 4**

### **DETAILS OF APPLICANT FIRM**

1.	Name of bidder	
2 (a)	Address of bidder	
(b)	Phone no:	
(c)	Fax no.	
(d)	E mail	
(e)	Website	
3	Legal status of bidder (Attach copies of original document defining the legal status).  The applicant is:  a) An individual  b) A proprietary Firm	
4	Name of authorized signatory to bid	
(a)	Designation	
(b)	Phone (Landline) Phone (Mobile)	
(c)	Fax	
(d)	Email	
5	NAME, address, Tel No. Fax, email at which communication to be sent in respect of bid	
6	Names of the present Proprietors/ Partners/Board of Directors	

**(SIGNATURE OF AUTHORIZED SIGNATORY AND SEAL)**



**ANNEXURE – 5**

**EXPERIENCE IN SIMILAR PROJECTS**

<b>S.No.</b>	<b>Name of Project</b>	<b>Project Details (such as Client, Location, Area etc.,)</b>	<b>Extent of the Project Site</b>	<b>Services Undertaken</b>	<b>Relevant Document Enclosed as Proof of Experience*</b>

\* The claimed experience shall be supported by documentary evidence i.e. work order/Agreement/completion certificates, etc.

**(Signature, name and designation of the authorized signatory)**

**(Name and seal of the Applicant)**

**ANNEXURE – 6**

**FORMAT FOR CA CERTIFICATE (DIN number to be mentioned in all CA certified documents)**

We hereby certify that average revenue from advisory services to state/ central government / Multilateral Organizations in the last three financial years (2020-21, 2021-22, and 2022-23) is as is specified below.

<b>S.No.</b>	<b>Financial year</b>	<b>Turnover (in Lakhs)</b>
1.		
2.		
3.		
	<b>TOTAL</b>	

**Yours faithfully,  
For .....  
Chartered Accountants**

**Membership Number  
Date-  
Place-**

**ANNEXURE – 7**

**Submission of Approach, Methodology and Work plan**

<b>S.No.</b>	<b>Criteria</b>	<b>Methodology</b>
1.	Technical Approach and Methodology	
2.	Work Plan on the basis of site appreciation	

**(Signature, name and designation of the authorized signatory)**

**(Name and seal of the Applicant)**

**ANNEXURE – 8**

**Minimum Equipment's required**

**Details of Resources Sheet - Equipment & Software's owned by the Agency and likely to be used in carrying out the Work**

<b>Sr. No.</b>	<b>Name of Equipment's/software's owned by firm/contractor or to be proposed in the project</b>	<b>Status –Available/ Not Available</b>

**(SIGNATURE OF AUTHORIZED SIGNATORY AND SEAL)**



**Uttarakhand Landslide Mitigation and Management Center  
(ULMMC)**

**Government of Uttarakhand**

**4 Subhash Road, Uttarakhand Secretariat, Dehradun - 248001, Uttarakhand**



Letter No. **163 / 27 / ULMMC / 2023**

Dated **14 / 09 / 2023**

**Corrigendum – 3**

**NAME OF PROJECT:** Uttarakhand Landslide Mitigation & Management Center

**EOI No.:** 01/EOI/ULMMC/2023

**NIT No.:** 129/27/ULMMC/2023

Bids were invited for empanelment of firms “For conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and slope stability assessment in Uttarakhand” through [www.uktenders.gov.in](http://www.uktenders.gov.in) dated 24/07/2023 of this office. Now due to unavoidable reasons, the following amendments are being made in the following EOI:

S.No.	Project Title	As per corrigendum-1	As per corrigendum-2
1.	2.	3.	4.
1.	<b>Procurement of:</b> Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and Slope stability assessment in Uttarakhand state.	1. Last Date/Time for submission of online bids:18 <sup>th</sup> , September,2023 at 12:00 Hrs. 2. Last Date of submission of Tender fees (Hard Copy):18 <sup>th</sup> , September,2023 at 12:00 Hrs. 3. Date of technical Bid Opening:18 <sup>th</sup> ,September,2023 at 15:00 Hrs.	1. Last Date/Time for submission of online bids:06 <sup>th</sup> ,October,2023 at 12:00 Hrs. 2. Last Date of submission of Tender fees (Hard Copy):06 <sup>th</sup> , October,2023 at 12:00 Hrs. 3. Date of technical Bid Opening:06 <sup>th</sup> , October,2023 at 15:00 Hrs.

**Note:-** All other conditions in the bid documents shall remain same.

*Wakkar*

**Director,  
ULMMC,  
Dehradun.**

# Uttarakhand Landslide Mitigation and Management Center (ULMMC)

Government of Uttarakhand

4 Subhash Road, Uttarakhand Secretariat, Dehradun - 248001, Uttarakhand



Govt. of Uttarakhand

Letter No. 167 / 27 / ULMMC / 2023

Dated 19 / 09 / 2023

## Corrigendum-4

**NAME OF PROJECT:** "Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and Slope stability assessment in Uttarakhand state".

**EOI No.:** 01/EOI/ULMMC/2023

**NIT No.:** 129/27/ULMMC/2023

S. No.	Clause No.	As Existing	As Amended
1	2	3	4
1.	"Invitation for Firms"  1. "Invitation to Bid" Point no.1.4., Pg.No.03	Joint venture(JV) is not allowed for providing services in the project.	a) Proposal from <b>Joint venture(JV)</b> are acceptable. b) Maximum number of member in joint venture = 2 c) In case of Joint venture(JV), a joint consent of all the JV firms shall be submitted with the proposal.



S. No.	Clause No.	As Existing	As Amended
1	2	3	4
2.	<p>"Invitation for Firms"</p> <p>1. "Invitation to Bid"</p> <p>Point no.1.1., Pg.No.03</p>	<p>This EOI Document is for short listing suitable qualified firms and empaneling of firms for conducting Engineering Geological investigation, Geophysical investigation, Geotechnical investigation &amp; Slope stability assessment in Uttarakhand state. This will primarily involve:-</p> <p>i. Engineering geological investigation.</p> <p>ii. Geotechnical investigation &amp; sub-soil exploration.</p> <p>iii. Geophysical investigation.</p> <p>iv. slope stability assessment.</p>	<p>This EOI Document is for short listing suitable qualified firms and empaneling of firms for conducting all or in part of the following works:-</p> <p>i. Topographic survey</p> <p>ii. Engineering geological investigation</p> <p>iii. Geo-physical investigation</p> <p>iv. Geotechnical investigation</p> <p>v. Hydrological investigation.</p> <p>vi. Slope Stability Analysis</p> <p>vii. Environmental, Ecological &amp; Social impact assessment.</p> <p>viii. Proposing the required mitigation measures required at affected zone</p> <p>ix. Detailed designs, drawings, cost estimates and bidding documents for planning and implementation of the project.</p>
3.	9.	<p>Firm must have done similar work for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation &amp; slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same Engineering geological investigation, Geophysical investigation, Geotechnical investigation &amp; slope stability assessment work must be completed and approved by competent authority in all respects.</p> <p><i>Similar Nature:- conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation &amp; slope stability assessment survey.</i></p>	<p>Firm have done [at least 2] Detailed Project Report(DPR)/Detailed Design &amp; Drawing of "Slope stabilization works" in last five years (2017-18, 2018-19, 2019-20, 2020-21, 2021-22) and the same must be approved by competent authority in all respects. Copy of work order &amp; completion certificates issued by the client to be furnished.</p> <p><b>Note:</b> 1. Firms having experience less than "MINIMUM ELIGIBILITY CRITERIA" will be considered non-responsive and no further evaluation will be done.</p>



S. No.	Clause No.	As Existing				As Amended		
1	2	3				4		
4.	9. "MINIMUM ELIGIBILITY CRITERIA",  9.2. "Financial capabilities", Point no.9.2.1 Pg.No.19	Firm should have minimum average annual turnover of Rs.5 Lakh in any one in the last three financial years from the date of publication of the EOI (Last 3 (three) financial years read as 2019-20, 2020-21, 2021-22).				<b><u>DELETED</u></b>		
5.	10."EVALUATION OF THE OFFER"  10.1. "The offers submitted will be evaluated using the following criteria", Pg.No.19-20	S. No.	Evaluation Criteria	Maximum Marks	Qualifying Marks	S.	Evaluation Criteria	Maximum Marks
		1	Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23)	25	70	1.	<b>MINIMUM ELIGIBILITY CRITERIA</b>  "Technical capabilities" as per clause 9.1.1. of the Expression of Interest(EOI)  To be submitted in annexure-2	(30 Marks)  • <b>2 Projects - 10 Marks</b>  (5 Marks will be awarded for each additional Hill project)  (2.5 Marks will be awarded for each additional Non-Hill project)  <b>Note:</b> However Maximum marks awarded will be 30



S. No.	Clause No.	As Existing				As Amended							
1	2	3				4							
			Total Points -	100	70		B. Instruments for GeoPhysical Investigations						
						1	Seismic Survey /MASW	1	Own /Lease	i. Invoice copy	4	3	
						2	Ground Penetrating Radar	1	Own /Lease	ii. Lease agreement	4	3	
						3	Electrical Resistivity Tomography	1	Own /Lease	showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	5	4	
						To be submitted in annexure-8							








S. No.	Clause No.	As Existing	As Amended
1	2	3	4
<div> <div>3. Key Experts' qualifications and competence for the Assignment:</div> <div> <div>Notes: 1. Each position number corresponds to the same for the Key Experts to be prepared by the Consultant.</div> <div>2. The format for CV to be submitted is attached as annexure-3.</div> </div> <div> <div>Maximum Marks</div> <div> <div>a) Position K-1: Geological Expert [08]</div> <div>b) Position K-2: Geotechnical Engineer [08]</div> <div>c) Position K-3: Structural Engineer [08]</div> <div>d) Position K-4: AUTO CAD expert [08]</div> <div>e) Position K-5: Geo-physicist [08]</div> </div> <div> <div>The number of points to be assigned to each of the above positions shall be determined considering the following three sub-criteria and relevant percentage weights:</div> <div>1) General qualifications (general education, Membership in professional bodies): 20 %</div> <div>2) Adequacy for the Assignment (Total Experience &amp; relevant experience in the sector/similar assignments) : 70%</div> <div>3): Relevant experience in the region (working level fluency in</div> </div> </div> </div>			

(40 Marks)

S. No.	Clause No.	As Existing	As Amended															
1	2	3	4															
			<div>local language(s)/knowledge of local culture or administrative system, government organization, etc.): 10 %</div> <div>Total weight: 100%</div> <div><div>• Relevant Qualification &amp; Experience has been mentioned below in the table: -</div><table><tr><th>S. No.</th><th>Key Position</th><th>No. of Persons</th><th>Qualification and Total Experience</th><th>Relevant Experience</th></tr><tr><td>1</td><td>Geological Expert</td><td>1</td><td><div>Minimum Essential Qualification: Post Graduate degree in Geology/Applied Geology/Engineering Geology</div><div>Minimum Total Experience: 7 years</div></td><td><div>Minimum 5 years of experience in conducting &amp; preparation of Geological investigation reports.</div></td></tr><tr><td>2</td><td>Geotechnical Engineer</td><td>1</td><td><div>Minimum Essential Qualification: Post Graduate degree in Geotechnical Engineering</div><div>Minimum Total Experience: 7 years</div></td><td><div>Minimum 5 years of experience in conducting &amp; preparation of Geotechnical investigation reports. Leading at least 2 Landslide mitigation measure as Geotechnical Engineer for 4 year.</div></td></tr></table></div>	S. No.	Key Position	No. of Persons	Qualification and Total Experience	Relevant Experience	1	Geological Expert	1	<div>Minimum Essential Qualification: Post Graduate degree in Geology/Applied Geology/Engineering Geology</div> <div>Minimum Total Experience: 7 years</div>	<div>Minimum 5 years of experience in conducting &amp; preparation of Geological investigation reports.</div>	2	Geotechnical Engineer	1	<div>Minimum Essential Qualification: Post Graduate degree in Geotechnical Engineering</div> <div>Minimum Total Experience: 7 years</div>	<div>Minimum 5 years of experience in conducting &amp; preparation of Geotechnical investigation reports. Leading at least 2 Landslide mitigation measure as Geotechnical Engineer for 4 year.</div>
S. No.	Key Position	No. of Persons	Qualification and Total Experience	Relevant Experience														
1	Geological Expert	1	<div>Minimum Essential Qualification: Post Graduate degree in Geology/Applied Geology/Engineering Geology</div> <div>Minimum Total Experience: 7 years</div>	<div>Minimum 5 years of experience in conducting &amp; preparation of Geological investigation reports.</div>														
2	Geotechnical Engineer	1	<div>Minimum Essential Qualification: Post Graduate degree in Geotechnical Engineering</div> <div>Minimum Total Experience: 7 years</div>	<div>Minimum 5 years of experience in conducting &amp; preparation of Geotechnical investigation reports. Leading at least 2 Landslide mitigation measure as Geotechnical Engineer for 4 year.</div>														



San #100  
 10/11/2011  
 W. W. W. W.

Minimum Qualifying Marks: 75 Marks

S. No.	Clause No.	As Existing	As Amended															
1	2	3	4															
			<table><tr><td>3</td><td>Structural Engineer</td><td>1</td><td>Qualification: Post-Graduate degree in Structural Engineering Minimum Total Experience: 7 years</td><td>Minimum 5 years of experience of designing structures required for mitigation measures</td></tr><tr><td>4</td><td>AUTO CAD Expert</td><td>1</td><td>Qualification: Graduate in Civil Engineering Minimum Total Experience: 7 years</td><td>Minimum 5 years of experience in preparation of AUTO CAD drawings.</td></tr><tr><td>5</td><td>Geo-physicist</td><td>1</td><td>Qualification: M.Sc./M.Sc Tech/M.Tech in Geophysics Minimum Total Experience: 5 years</td><td>Minimum 5 years of experience in conducting &amp; preparation of Geophysical investigation reports.</td></tr></table> <p><b>NOTE: 1.</b> Any three of the above experts must be on pay roll of the firm for atleast 2 years. Evidence of employment to be submitted in form of offer letter along with declaration mentioning minimum 2 years of employment of expert with the firm or salary slips of the experts.</p>	3	Structural Engineer	1	Qualification: Post-Graduate degree in Structural Engineering Minimum Total Experience: 7 years	Minimum 5 years of experience of designing structures required for mitigation measures	4	AUTO CAD Expert	1	Qualification: Graduate in Civil Engineering Minimum Total Experience: 7 years	Minimum 5 years of experience in preparation of AUTO CAD drawings.	5	Geo-physicist	1	Qualification: M.Sc./M.Sc Tech/M.Tech in Geophysics Minimum Total Experience: 5 years	Minimum 5 years of experience in conducting & preparation of Geophysical investigation reports.
3	Structural Engineer	1	Qualification: Post-Graduate degree in Structural Engineering Minimum Total Experience: 7 years	Minimum 5 years of experience of designing structures required for mitigation measures														
4	AUTO CAD Expert	1	Qualification: Graduate in Civil Engineering Minimum Total Experience: 7 years	Minimum 5 years of experience in preparation of AUTO CAD drawings.														
5	Geo-physicist	1	Qualification: M.Sc./M.Sc Tech/M.Tech in Geophysics Minimum Total Experience: 5 years	Minimum 5 years of experience in conducting & preparation of Geophysical investigation reports.														
			Total Points -															
			100															

Minimum Qualifying Marks: 75 Marks

S. No.	Clause No.	As Existing	As Amended									
1	2	3	4									
6.	10. "EVALUATION OF THE OFFER".  10.3. "Experience Criteria", Pg.No.20	<table><tr><th>S. No.</th><th>Evaluation Parameter</th><th>Marks</th></tr><tr><td>1</td><td>Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation &amp; slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation &amp; slope stability assessment work must be completed and approved by competent authority in all respects.</td><td>25 marks</td></tr><tr><td>1.1.</td><td>Up to 5 relevant projects of similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation,</td><td>05 Marks for each project with</td></tr></table>	S. No.	Evaluation Parameter	Marks	1	Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment work must be completed and approved by competent authority in all respects.	25 marks	1.1.	Up to 5 relevant projects of similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation,	05 Marks for each project with	<u>DELETED</u>
S. No.	Evaluation Parameter	Marks										
1	Firm must have done at least 05 (five) similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment of an area in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23) and the same for conducting Engineering geological investigation, Geophysical investigation, Geotechnical investigation & slope stability assessment work must be completed and approved by competent authority in all respects.	25 marks										
1.1.	Up to 5 relevant projects of similar work of project cost Rs.20 Lakh or more for conducting Engineering geological investigation, Geophysical investigation,	05 Marks for each project with										



S. No.	Clause No.	As Existing	As Amended																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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7.	9. "EVALUATION OF THE OFFER". 9.2. "Financial Capability of the Contractor"; Pg.No.21	<table><tr><td></td><td>Geotechnical investigation &amp; slope stability assessment of an area of similar nature to 25 in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23).</td><td>Total Marks 25</td></tr></table>		Geotechnical investigation & slope stability assessment of an area of similar nature to 25 in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23).	Total Marks 25	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td>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	Geotechnical investigation & slope stability assessment of an area of similar nature to 25 in last 5(five) years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23).	Total Marks 25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

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S. No.	Clause No.	As Existing		As Amended
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8.	10. "EVALUATION OF THE OFFER".  10.5. "Description of Approach, Methodology and Work Plan on the basis of Site Appreciation"  Pg.No.21	S. No.	Criteria	Maximum Marks
		1	<b>Technical Approach and Methodology:</b> In this chapter please 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.	15 marks
		2	<b>Work Plan on the basis of site appreciation:</b> In this chapter please propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the Work/ Project Site and also the TOR and ability to translate them into a feasible working plan.	10 marks
			<b>Total Marks -</b>	<b>25 Marks</b>
				<b><u>DELETED</u></b>

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S. No.	Clause No.	As Existing	As Amended
1	2	3	4
9.	10."EVALUATION OF THE OFFER". 10.6."Equipment's required": Pg.No.22	<div> <div> <div>S. No.</div> <div>Items</div> </div> <div> <div>1.</div> <div>Instruments for Geotechnical and Geophysical Studies</div> </div> <div> <div>A. Instruments for Geotechnical Investigations</div> <div> <div> <div>Documents to be submitted</div> <div>Ownership/Lease</div> <div>Minimum quantity</div> </div> <div> <div>05</div> <div>05</div> <div>05</div> </div> </div> </div> </div>	<div> <div>DELETED</div> </div>

a	<div> <div>Apparatus for basic Soil Engineering Properties (Water Content determination, Density-Void ratio determination, OMC, Atterberg Limits, Particle Size Distribution, Specific Gravity of soil solids, Proctor Compaction Permeability) and strength characteristics through UCS, Direct Shear and Tri-axial machines</div> </div>	<div> <div>Apparatus for Rock Geotechnical Properties (Index properties, Point load, UCS, Shear test, Tri-axial test for Elastic Constants)</div> </div>
i. Invoice copy	i. Invoice copy	i. Invoice copy
Own/Lease	Own/Lease	Own/Lease
<div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> </div> </div> </div>	<div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> </div> </div> </div>	<div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> <div> <div> <div>affirmed showing agreement</div> <div>availability of the equipment for the</div> </div> </div> </div> </div>
05	05	05

S. No.	Clause No.	As Existing						As Amended
1	2	3						4
						successful and complete implementation of the Project along with invoice copy of the owner.		
		c	Geotechnical Field Instruments (equipment's to determine/done Soil bearing capacity, RQD, SPT, Drilling,)	1	Own /Lease	i. Invoice copy ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	04	
		d	Software's for Slope stability/Kinematic analysis				04	
		B. Instruments for Geo Physical Investigations						
		e	Seismic Survey /MASW	1	Own /Lease	i. Invoice copy ii. Lease agreement showing	04	



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S. No.	Clause No.	As Existing	As Amended
1	2	4	
		3	
		4	

S. No.	Clause No.	As Existing						As Amended
1	2	3						4
		g	Electrical Resistivity Tomography	1	Own/ Lease	i) Invoice copy ii. Lease agreement showing affirmed availability of the equipment for the successful and complete implementation of the Project along with invoice copy of the owner.	01	
10.	11.PAYMENT TERMS. Pg.No.23	Sr. No.	Activities	Payment Schedule Breakup (in % of the Project Cost)		Payment schedule breakup will be shared at the time of issuance of Request for quotation/bid document.		
		1	Submission and approval of Engineering Geological investigation	20%				

S.  
No.

Clause No.

As Existing

As Amended

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11.

"ANNEXURE  
-3"  
Minimum  
Financial  
CapabilitiesFORMAT FOR CA CERTIFICATE (DIN  
number to be mentioned in all CA certified  
documents)We hereby certify that average revenue from  
advisory services to state/ central government /

	reports.				
2	Submission and approval of Geotechnical investigation reports.	30%			
3	Submission and approval of Geophysical investigation reports.	30%			
4	Submission and approval of Slope stability assessment reports.	20%			
Total		100%			

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S. No.	Clause No.	As Existing	As Amended
1	2	3	4
	Pg.No.30	Multilateral Organizations in the last three financial years (2020-21, 2021-22, and 2022-23).	
12.	<p><u>"ANNEXURE - 6"</u></p> <p>Financial turnover capabilities</p> <p>Pg.No.33</p>	<p><b>FORMAT FOR CA CERTIFICATE (DIN number to be mentioned in all CA certified documents)</b></p> <p>We hereby certify that average revenue from advisory services to state/ central government / Multilateral Organizations in the last three financial years (2020-21, 2021-22, and 2022-23).</p> <p><i>Handwritten signature: AAD Wama</i></p>	<b><u>DELETED</u></b>

*San* *Handwritten signature*

S. No.	Clause No.	As Existing	As Amended
1	2		4
13.	9.	<p><b>"MINIMUM ELIGIBILITY CRITERIA",</b></p> <p>9.1. "Technical capabilities", Point no.9.1.2., Pg.No.19</p> <p>Firm must be registered and operational in India since last 5 years from the date of publish of this EOI and must remain operational thereafter</p>	<p>Firm must be registered and operational in India since last 3 years from the date of publish of this EOI and must remain operational thereafter</p>

**\*Note: Rest of the Terms & Conditions of the Bid Document of EOI shall remain same.**

  
**(Dr. Ranjit Kumar Sinha)**  
 Director General  
 ULMMC




## ANNEXURE-3

### CURRICULUM VITAE (CV)

<b>Position Title and No.</b>	{e.g., K-1, TEAM LEADER}
<b>Name of Expert:</b>	{Insert full name}
<b>Date of Birth:</b>	{day/month/year}
<b>Country of Citizenship/Residence</b>	

**Education:** {List college/university or other specialized education, giving names of educational institutions, dates attended, degree(s)/diploma(s) obtained}

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**Employment record relevant to the assignment:** {Starting with present position, list in reverse order. Please provide dates, name of employing organization, titles of positions held, types of activities performed and location of the assignment, and contact information of previous clients and employing organization(s) who can be contacted for references. Past employment that is not relevant to the assignment does not need to be included.}

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
[e.g., May 2005-present]	[e.g., Ministry of ....., advisor/consultant to...  For references: Tel...../e-mail.....; Mr. Hbbbbb, deputy minister]		


Membership in Professional Associations and Publications: \_\_\_\_\_

Language Skills (Indicate only languages in which you can work): \_\_\_\_\_

Adequacy for the Assignment:

<p>Detailed Tasks Assigned on Consultant's Team of Experts:</p>	<p>{List all deliverables/tasks as in TECH- 5 in which the Expert will be involved)</p>	
<p>Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks</p>		

Expert's contact information: (e-mail ....., phone.....)

**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available, as and when necessary, to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client.

{day/month/year}

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Name of Expert

Signature

Date

{day/month/year}

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Name of authorized

Signature

Date

Representative of the Consultant

(the same who signs the Proposal)





Uttarakhand  
Tenders

## eProcurement System Government of Uttarakhand

### Published Corrigendum Details

Date : 17-Jul-2025 12:21 PM

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<b>Organisation Chain :</b>	DG - Uttarakhand Landslide Mitigation and Management Center (ULMMC) Dehradun  Addl. Director General  Design Engineer  Assistant Engineer-1
<b>Tender ID :</b>	2023_ULMC1_61265_1
<b>Tender Ref No :</b>	129/27/ULMMC/2023
<b>Tender Title :</b>	Empanelment of Firms for conducting Engineering Geological investigation, Geophysical Investigation, Geotechnical Investigation and Slope stability assessment in Uttarakhand state
<b>Corrigendum Type :</b>	Technical Bid

### Corrigendum Document Details

Corr.No.	Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
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