Uttarakhand Landslide Mitigation and Management Center (ULMMC)
Government of Uttarakhand
DDPM Tower 4th floor, Ajabpur khurd, Haridwar by pass Road, Dehradun – 248001
E-mail id – uklmmc@gmail.com
Govt. of Uttarakhand

Letter No. 344 / 08 / **ULMMC / 2023** **Dated** 18 **Jan, 2024**

सेवा में,

सम्पादक,
टाईम्स ऑफ इंडिया / हिन्दुस्तान,
देहरादून।

विषयः– उत्तराखण्ड भूस्खलन न्यूनीकरण एवं प्रबंधन केन्द्र, देहरादून के निविदा प्रकाशन के संबंध में।

महोदय,

कृपया आपको इस पत्र के साथ निविदा सूचना इस आशय के साथ संलग्न कर प्रेषित की जा रही है कि निविदा सूचना का प्रकाशन वृहद प्रचार एवं प्रसार हेतु समस्त राष्ट्रीय संस्करण में साईज 8X10 से.मी. (B/W) दिनांक 19 जनवरी, 2024 को DAVP (Directorate of Advertising and Visual Publicity) दरों पर प्रकाशित कराते हुए प्रकाशित की गयी विज्ञप्ति की प्रति बिल के साथ विभाग को भुगतान हेतु उपलब्ध कराने का कष्ट करें।

भवदीय

(डॉ0 शान्तनु सरकार)
निदेशक

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

NOTICE FOR REQUEST FOR BIDS

REFERENCE No. 344/08/INSTRUMENTS/ULMMC/2023 **DATE: 18** .01.2024

Uttarakhand Landslide Mitigation & management Center (ULMMC) intends to procure instruments for conducting Geological, Geotechnical, Geophysical & Topographic Survey. Hence Bids are invited for the following Packages and the bid documents of which, can be downloaded from the website **https://uktenders.gov.in**. A complete set of bidding documents in English may be downloaded by interested eligible bidders from the website **https://uktenders.gov.in** which will be available from **20/January/2024 to 20/February/2024.** Bids must be submitted online on the website **https://uktenders.gov.in** on or before **05:00 PM**, **20/February/2024.** Bids will be opened on **20/February/2024** at **5:30 PM**.

S. No.	Package No.	Name of Package
1	01/Instruments/ULMMC/2023-24	Procurement of Geological, Geo-technical, Geophysical & Topographic Survey Instruments

Note:-1. The corrigendum for the above packages will be uploaded on website ***www.uktenders.gov.in*** & ***www.ukdisasterrecovery.in***
2. Email id ulmmc.ddn@gmail.com may be contacted for any information related to the bids.

Dr. Ranjit Kumar Sinha
Director General

Signature Not Verified
Digitally signed by SHANTANU SARKAR
Date: 2024.01.19 15:56:46 IST
Location: Uttarakhand-UT

Request for Bids

Procurement of Geological, Geo-technical & Geophysical Instruments for Uttarakhand Landslide Mitigation & Management, Dehradun, UTTARAKHAND

Ref. No.: 01/Instruments/ULMMC/2023-24

Purchaser: Director General, ULMMC, Government of Uttarakhand.

Country: *India*

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Request for Bids

RFB Ref No.: 01/Instruments/ULMMC/2023-24 **RFB Date: 20 January 2024**

1. Uttarakhand Landslide Mitigation and Management Center, Government of Uttarakhand (Purchaser) invites Bids ***fo***r Procurement of Geological, Geo-technical & Geophysical Instruments for Uttarakhand Landslide Mitigation & Management, Dehradun, UTTARAKHAND
2. Bidders are advised to note the qualification criteria specified in bid document to qualify for award of the contracts. The Bidders are required to submit bids consisting of documents/information as specified in the bid document.
3. The bid document is available online and bids are to be submitted online through the e-procurement portal http://uktenders.gov.in only. Bids submitted in any other manner will not be accepted. Bidders are required to obtain Level III Digital signature from designated firms (available on e-proc. Portal and then register with the Government of Uttarakhand e-procurement platform and submit bids by using their user ID and Digital Signature.
4. Bidders must provide Bid Security as specified in the bid document and submit the bid processing fee as per requirement.
5. Bids along with necessary enclosures must be uploaded to the website http://uktenders.gov.in as per bid schedule mentioned in bid document and first cover of the bids will be opened at the specified venue on the stipulated date and time, in the presence of the bidders or their authorized representatives who wish to attend. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue. The bidders must submit technical parts of the bid in the technical envelop and financial parts (BOQ & Financial Bid Submission Form) in the Financial envelop on e-portal. If the bidder submits technical information in the financial envelop or vice versa, the bid shall be deemed non-responsive.
6. The commercial bids of the bidders who are responsive and technically qualified will be opened through e-procurement portal on a date to be notified later.
7. Other details can be seen in the bid documents.

Director General,
Uttarakhand Landslide Mitigation
and Management Center (ULMMC)

National Competitive Bidding

For

"Procurement of Geological, Geo-technical & Geophysical Instruments for Uttarakhand Landslide Mitigation & Management, Dehradun, UTTARAKHAND"

Time Schedule for the Bids:

Package No.	01/Instruments/ULMMC/2023-24
Date of commencement of downloading of bid document	20 January 2024, Time: 11:00 AM
Last date for seeking clarification if any	27 January 2024, Time: 03:00 PM
Bid Submission Start Date	10 February, 2024, Time: 11:00 AM
Last date for down loading of bid document from the E-procurement platform: http://uktenders.gov.in	20 February, 2024, Time: 11:00 AM
Last date and time for bid submission/uploading of bid in E-procurement platform	20 February, 2024, Time: 11:30 AM
Original documents as per bid document are to be submitted upto	20 February, 2024, Time: 05:00 PM
Time and date of opening of Technical bid of bids	20 February, 2024, Time: 05:30 PM
Date and time of opening of Commercial bids	Shall be informed after technical evaluation
Place of opening of bids and address for communication	Uttarakhand Landslide Mitigation and Management Center, 4th Floor, DDPM Tower, Haridwar Bypass Road, Dehradun, Uttarakhand

Note:

(1) In the event of the specified date of opening of bids being declared a holiday for the Purchaser, the bids shall be opened on the next working day at the same time and venue.

(2) Completed bids shall be uploaded on the e-procurement platform by the Bidders using their user ID and addressed to the DG, ULMMC in the manner described under the Bid Document on or before the stipulated last date & time.

Section I – Instruction to Bidders (ITB)

ITB Clause	A. General
ITB 1.1	The Purchaser is: **Director General, Uttarakhand Landslide Mitigation and Management Center (ULMMC)** 4th Floor, DDPM Tower, Haridwar Bypass Road, Dehradun – 248001
ITB 1.2	The name of the RFB is **Procurement of Geological, Geo-technical & Geophysical Instruments for Uttarakhand Landslide Mitigation & Management Center, Dehradun, UTTARAKHAND** The number and identification of package (contract) comprising this RFB is: 01/Instruments/ULMMC/2023-24
B. Contents of Bidding Documents	
ITB 2.1	For **Clarification of Bid purposes** only, the Purchaser's address is: Attention: **Director General, Uttarakhand Landslide Mitigation and Management Center** Address: 4th Floor, DDPM Tower, Haridwar Bypass Road, Dehradun, Uttarakhand ZIP Code: **248001** Country: **India** Telephone: 7897788842 Electronic mail address: ulmmc.ddn@gmail.com
ITB 2.2	**Pre-bid meeting:** Not Applicable

	C. Preparation of Bids
ITB 3.1	The Bidder shall submit the following documents in its **Technical Bid**: 1. Name and address, contact, email of the bidder. 2. Letter of Technical Bid Form. 3. Copy of Certification of incorporation of the bidder. 4. Brochures and documents in support of goods/equipment to be provided. 5. Manufacturer's authorization for major items of supply (as per technical data sheet) under the contract that the Bidder does not manufacture or otherwise produce. 6. All requirements mentioned in technical data sheet of the bid document. 7. The PAN No. and IT return certificate from Income Tax Department. 8. Copy of supply order/ work order/ award of contract for demonstration of experience as required in the eligibility criteria of the bid document. 9. Detailed specifications of proposed items with catalogue and all other required documents as per the technical data sheet and eligibility criteria of the bid document. 10. Confirmation for validity of the bid for minimum 120 days from the last date of submission of bid. 11. The bidder shall disclose instance of previous past performance that may have resulted into adverse actions taken against the bidder during the last five years. (In case no adverse action taken against the bidder during the last five years, a self-declaration of the same on the letterhead of the firm to be submitted) The bidder must submit technical parts of the bid in the technical envelop and financial parts (BOQ & Financial Bid Submission Form) in the Financial envelop. If the bidder submits technical information in the financial envelop or vice versa, the bid shall be deemed non-responsive. The Financial Bid Submission Form must be completed and submitted /uploaded on the e-portal (www.uktenders.gov.in) in PDF form in the Financial Envelope along with the BOQ. The Financial Bid Submission Form shall be the part of Commercial Bid and if the bidder fails to submit Financial Bid Submission Form, the bid shall be deemed non-responsive
ITB 3.2	The following original documents shall be submitted through post/courier/person to the Purchaser (Address- ULMMC, 4th Floor, DDPM Tower, Haridwar Bypass Road, Dehradun, Uttarakhand, Country: India) for verification and scrutiny on or before 20th **February 2024** till **1700 HOURS:**

	(a) Notarized copy of Power of Attorney (On Rs.100/- Stamp Paper) of the person signing the bid. (b) Original Bid security in the form of Bank Guarantee/ FDR in favour of ADDITIONAL DIRECTOR GENERAL,ULMMC, Dehradun, Uttarakhand. The value of bid security (Earnest Money) is **INR 5,72,700/-**. (c) Original affidavit vouching for the correctness of the information furnished and documents uploaded (On Rs.100/- Stamp Paper). (d) Nonrefundable Tender Fee in the name of ADDITIONAL DIRECTOR GENERAL,ULMMC, Dehradun, Uttarakhand, inform of DD only (INR 5000/-). Tender Fee in any other form part from DD shall not be accepted. ***Note: In case of non-submission/late submission of original documents as mentioned above, the bid shall be considered as non-responsive.***
ITB 3.3	Alternative Bids **shall not** be considered.
ITB 3.4	The Financial Bid Submission Form must be completed and submitted /uploaded on the e-portal (www.uktenders.gov.in) in PDF form in the Financial Envelope along with the BOQ. The Financial Bid Submission Form shall be the part of Commercial Bid and if the bidder fails to submit Financial Bid Submission Form, the bid shall be deemed non-responsive.
ITB 3.5	Final destination (Project Site): USDMA Building, IT Park, Dehradun.
ITB 3.6	The prices quoted by the Bidder **shall not** be adjustable.
ITB 3.7	Period of time the Goods are expected to be functioning: Minimum **10 Years** and the delivery period of goods shall be 90 days after signing of contract.
ITB 3.8	Manufacturer's authorization is **required** as per Technical Data Sheet of bid document.
ITB 3.9	The bid validity period shall be 120 days from the last date of bid submission deadline. ***Note: The bids having bid validity less than 120 days shall be considered as non-responsive.***
ITB 3.10	The validity of the Bid Security shall be 45 days more than the validity of the bid i.e. 120+45 days from the last date of bid submission. ***Note: The bids having validity of bid security less than 120+45 days shall be considered as non-responsive.***
ITB 3.11	The bid security of **INR 5,72,700/-** shall be in the form of Bank guarantee or Fixed Deposit Receipt (FDR) from a scheduled national commercial bank, issued in favour of ADDITIONAL DIRECTOR GENERAL,ULMMC, Dehradun, Uttarakhand, 4th Floor DDPM Tower, Haridwar By-pass Road, Ajabpur Khurd-248001

ITB 3.12	The bidding under this contract is electronic bid submission through website http://uktenders.gov.in Detailed guidelines for viewing bids and submission of online bids are given on the website. The Invitation for Bids is published on this website. Any citizen or prospective bidder can log on to this website and view the Invitation for Bids and can view the details of Lots for which bids are invited. The perspective bidder can submit bids online; however, the bidder is required to have enrolment/registration in the website and should have valid Digital Signature Certificate (DSC), for signing and encryption issued by the same Certifying Authority, in the form of smart card/e-token. The DSC can be obtained from any authorized certifying agencies. The bidder should register in the web site http://uktenders.gov.in using the relevant option available. Then the Digital Signature registration has to be done with the e-token, after logging into the site. After this, the bidder can login to the site through the secured login by entering the password of the e-token & the user id/ password chosen during registration. After getting the bid schedules, the Bidder should go through them carefully and then submit the documents as asked, otherwise, the bid will be rejected. The completed bid comprising of documents, should be uploaded on the website given above through e-tendering along with scanned copies (clearly readable) of requisite certificates as are mentioned in different sections in the bidding document and scanned copy of bid security in case it is provided in the form of BG.
ITB 3.13	All the documents are required to be signed digitally by the bidder. After electronic online bid submission, the system generates a unique bid identification number which is time stamped. This shall be treated as acknowledgement of bid submission.
ITB 3.14	Bids from Joint Ventures are **not permitted**.
	D. Submission and Opening of Bids
ITB 4.1	The bid opening shall be: Date: 20th **February 2024** Time: **05:30 PM** Place: Office of Director General, 4th Floor DDPM Tower, Haridwar By-pass Road, Ajabpur Khurd-248001 Pin 248001 Country: India The purchaser inviting bids, or its authorized representatives shall open the bids online which could be viewed by the bidders also online. In the event of the specified date for the opening of bids being declared a holiday, the bids shall be opened at the appointed time on the next working day.

	E. Evaluation and Comparison of Bids
ITB 5.1	The bidder must quote for the complete requirement for goods and services specified in BOQ failing which bids shall be treated as non-responsive.
ITB 5.2	Evaluation will be done for all items together as one package. ***Note: Bidder should quote for the complete requirement for goods and services specified in BOQ of this bid failing which such bids will be treated as non-responsive.***
ITB 5.4	The evaluation will take into account cost of warranty as mentioned in the technical specifications of the equipment.
	F. Award of Contract
ITB 6.1	Please refer to the evaluation and award criteria on page Clause ITB 36.3

Section II – Eligibility Criteria

TECHNICAL PART

1. Qualification

1.1 Qualification Criteria

The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

i. **Financial Capability:** The bidder must have average annual Turnover of **INR 2.00 Crore** (Indexed to the price level of the financial year 2022-2023 at the rate of 5% per year) in any 3 years in last five years. Certificate regarding annual sales turnover in last 5 years issued by the chartered accountant with audited balance sheets of last 5 years to be submitted.

ii. **Experience and Technical Capacity:** The bidder must have supplied, erected, commissioned **similar Equipment** of minimum value **INR 2.00 Crore** in maximum 3 single orders in the past 5 Years. *(Experience certificate or commencement report/ material acceptance report/ supply order/ GeM CRAC with payment detail issued by the purchaser mentioning contract award date, quantity, amount, items detail and completion date in support of the satisfactory operation of the goods as specified above to be furnished to authenticate the same)*.

iii. **Manufacturer's authorization:** Bidder must submit manufacturers' legally enforceable authorizations for those equipment which are not manufactured by the bidder in the prescribed form assuring full guarantee and warranty obligations.

iv. Details of Service Centers and information on service support facilities that would be provided after the warranty period.

Section III – Technical Data Sheet (Specifications)

GEOTECHNICAL FIELD/ LAB BASIC TOOLS

S.No.	Name of Instrument with Technical Specification	Quantity Required
1.	**DIGITAL CONE PENETROMETER** **REF. STANDARDS IS 4968-1976** It is use to determine of liquid limit of soil sample. **Specification:** ❖ The unit should have a stainless-steel penetration test cone 35 mm long with smooth polished surface with an angle of 60°. ❖ Should have facility exists for adjusting cone height in relation to the specimen. ❖ Should have provision of recording & displaying temperature & humidity. ❖ System having analog 16-bit resolution and LED display ❖ Inbuilt real-time clock ❖ Provision for automatic taring of initial penetration reading ❖ automatic data storing for every test with storage facility of at least 2000 readings. Facility for data download either in text, or csv format. ❖ Dual mode operation: automatic & manual ❖ Displacement range 0 to 40 mm ❖ Least count of penetration measurement 0.01mm ❖ Suitable for operation on 220 v, 50 Hz, single-phase, ac supply. ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**01**
2.	**POINT LOAD MACHINE WITH DIGITAL LOAD GAUGE MANUAL / HAND OPERATED** **REF. STANDARDS IS:8764 (1998)** It is used for determining the Indirect UCS (uniaxial compressive strength) of rock specimen. **Specifications:** ❖ Digital indicator with sensor up to 100 KN capacity with a least count of 0.01KN. ❖ Conical loading platens. ❖ Loading frame fitted with hydraulic jack. ❖ The apparatus is light and portable can be used both in the laboratory as well as in the field. ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**01**
3.	**SIEVE SHAKER WITH SIEVES** **REF. STANDARDS IS: 460-1985 (PART I)** For carrying out the grain size analysis of soil. **Specification:** **SIEVE SHAKER:** ❖ The sieve shaker can carry up to 8 sieves of 20cm dia.	**01**

<table>
<tr><th>S.No.</th><th>Name of Instrument with Technical Specification</th><th>Quantity Required</th></tr>
<tr><td></td><td>
❖ Sieve shaker motorized, with time adjustment, for 200mm & 300mm dia.
❖ This shaker provides 278 oscillations with a horizontal circular motion and 150 taps per minute with a vertical tapping motion to produce an effective sieving action.
❖ Power connection: 1-phase, 150-220 volts 50/60hz clamping devices: supporting clamps & rods, standard", "comfort", for dry sieving
❖ Measuring: 20 µm – 300mm suitable for sieving: dry
❖ Vibrating frequency: 1400 R/min (minimum) vibrating amplitude: 1-4mm
❖ Motor: speed regulator
❖ Motor power: 120 W (minimum) and 0.25 HP (minimum)
SIEVE:
❖ Sieve size diameter: 200 mm & 300mm
❖ Sieve holding capacity: minimum 8 sieves.
❖ Sieves, GI frame of 45 cm diameter
❖ Sieves, GI frame of 30 cm diameter
❖ Sieves, brass frame of 20 cm diameter
❖ Warranty period (minimum 1 year).
❖ Calibration certification approved by NABL lab.

<u>PERFORATED PLATE GI FRAME SIEVES</u>
<table>
<tr><th>APERTURE SIZE, MM (45 CM & 30 CM DIA)</th></tr>
<tr><td>80</td></tr>
<tr><td>63</td></tr>
<tr><td>45</td></tr>
<tr><td>31.5</td></tr>
<tr><td>22.4</td></tr>
<tr><td>11.2</td></tr>
<tr><td>4.75</td></tr>
<tr><td>PAN</td></tr>
</table>
<u>BRASS WIRE CLOTH SIEVES</u>
<table>
<tr><th>APERTURE SIZE (20 CM DIA)</th></tr>
<tr><td>4.75</td></tr>
<tr><td>2.36</td></tr>
<tr><td>1.18</td></tr>
<tr><td>0.6</td></tr>
<tr><td>0.425</td></tr>
<tr><td>0.3</td></tr>
<tr><td>0.15</td></tr>
<tr><td>0.075</td></tr>
<tr><td>PAN</td></tr>
</table>
</td><td></td></tr>
<tr><td>4.</td><td>
SOIL PERMEABILITY APPARATUS
(Constant head and Falling head)
REF. STANDARDS IS:2720 PART-XVII-1993
It is use to determine the Permeability of soil.

Specifications:
the equipment comprises one each:
❖ Gun metal mould, 100 mm ID, x 127.3 mm high x 1000 ml volume.
❖ Gun metal mould extension collar, 100 mm diameter x 60 mm high for the above mould.
</td><td>02</td></tr>
</table>

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ Gun metal drainage base plate with a recess for a porous stone and with an outlet valve. ❖ Metallic clamping ring. ❖ Gun metal drainage cap top plate with a recess for a porous stone and fitted with an inlet valve and an air release valve). ❖ porous stone for drainage cap. ❖ porous stone for base plate. ❖ set of glass stand pipes approximately mounted on a wooden board for measuring the change in water head. ❖ To read water head 2 no's meter scales are fixed between the tubes. ❖ A length of 3-meter-long rubber tubing with pinch cock is also supplied. ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	
5.	**DIGITAL WEIGHING BALANCE (measure up to 10KG and 500 gm** It is used to weight soil/rock sample. **Specification:** ❖ Weight balance with Capacity 10 kg with 0.1 gm least count ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year). ❖ Weight balance with 500 gm with .01gm least count ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**02**
6.	**HOT AIR OVEN** It is used for drying soil sample. **Specifications:** ❖ Capacity 125 liters. ❖ Temp range: +5ºc to 200ºc. ❖ Power ratings in watts: -2500 ❖ Control accuracy: ±0.5ºc. ❖ Uniformity: ± 2.0 at 100.0ºc ❖ Minimum 3 no. of shelves with height adjustable in 25mm steps. ❖ Glass window in-built into the door for easy viewing of samples, if available. ❖ Automatic cut off of heater & blower when door opened. ❖ Aero dynamic internal design for achieving horizontal air circulation. ❖ Solid and plain bottom without electricals. ❖ Outer body made of G.I epoxy coated ❖ Inner body made of stainless steel with clear bottom ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**02**
7.	**PROCTOR TEST APPARATUS** **REF. STANDARDS IS:2720 PART VII & VIII – 1983** It is used to determine Optimum Moisture Content and Maximum Dry Density Soil Sample **Specification:** ❖ Cylindrical metal mould, having an internal diameter of 100 mm and 150 mm ❖ Rammer, weighing (2.6 kg & 4.9kg) & having fall of (31cm & 45cm), with a flat circular face of 50MM diameter. ❖ Sensitive balance, sensitivity ranging from 0.01 gm to 1 gram.	**02**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ Steel straight edge. ❖ Moisture containers. ❖ Sieve no. 4.75-mm, 19-mm and. 37.5 mm is sieves conforming to IS: 460 (part 1)-1978. ❖ Tray & scoop. ❖ Graduated cylinder makes Corning or Borosil. ❖ Mixing tools. (Spoon, trowel, spatula). ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	
8.	**RAPID MOISTURE METER** **REF. STANDARDS IS:12175-1987** It is used to determine moisture content at site of soil sample. **Specification:** ❖ The unit consists of a pressure vessel with clamp for sealing cap, capacity is 6 gms. ❖ Rubber sealing gasket, pressure gauge calibrated in percentage moisture content on the wet weight basis, a counter poised balance for weighing sample, a scoop for measuring carbide reagent, a bottle of reagent, one cleaning brush and a set of 4 steel balls for thorough mixing. complete in highly polished wooden carrying case with handle. pressure gauge calibrated 0-50% x0.50%, ❖ Calcium carbide powder (absorbent), standard scoop (for measuring absorbent). ❖ Water content determination generally takes 16 to 24 hours by oven drying method). ❖ Strong wooden case – apparatus is packed in easy to carry and store strong wooden case. ❖ Free calcium carbide – 1 box of calcium carbide powder extra free with the existing 1 box (i.e., total 2 calcium carbide boxes). ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**02**
9.	**CASAGRANDE APPARATUS (LIQUID LIMIT DEVICE) HAND OPERATED** **REF. STANDARDS IS: 2720 (PART-V) BS 1377-2, ASTM D 4318** It is use for determining Liquid Limit of Soil. **Specification:** ❖ Complete with one Casagrande-grooving tool, one ASTM grooving tools and a height gauge block. Hand ❖ Provision for automated fall counter with reset. ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**02**
10.	**DESICCATOR** **REF. STANDARDS IS:6128-1971** It is used to cooling/storage heated soil sample. **Specification:** ❖ Borosilicate 250 mm diameter with plate and lid. ❖ Warranty period (minimum 1 year).	**02**
11.	**PYCNOMETER** **REF. STANDARDS IS: 2720 PART III (1980)** It is use to determine specific gravity of clays, sand and gravel of size smaller than 10 mm.	

S.No.	Name of Instrument with Technical Specification	Quantity Required
	Specifications: ❖ A gas jar of 1 liter capacity fitted with air rubber bug. ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**02 (Set)**
12.	**DIRECT SHEAR APPARATUS (COMPUTERIZED) WITH ANAYSIS SOFTWARE REF. STANDARDS IS 2720 (PART-13) 1986** **Specification:** ❖ Shear box assembly: comprising direct shear box in two halves for a square specimen size 60 x 60 x 25 mm one pair of plain gripper plates, 2 pair of perforated gripper plates,2 pair of porous stones, one top loading pad. ❖ Shear box housing accommodates the direct shear box assembly, complete with two ball roller strips. ❖ Specimen cutter 1 No. for cutting 60 x 60 x 25 mm specimen from larger samples. ❖ Set of weights:0.05 Kg/cm2-4Nos, 0.1 Kg/cm2-1Nos, 0.2 Kg/cm2 -1Nos, 0.5 Kg/cm2 -2Nos, 1.0 Kg/cm2 -1Nos. ❖ 2kN Compression providing Ring ❖ Operation motorized ❖ Rates of Strain: 1.25, 0.625, 0.25, 0.125, 0.05, 0.025 (mm/min) 0.01, 0.005, 0.002, 0.001, 0.0004, 0.0002 ❖ Shear Box Assembly with Halves of the Shear Box: 2 Nos., Plane Gripper Plate: 2 Nos, Perforated gripper plate: 2Nos, Porous Stone :2 Nos., Top Loading Pad :1 No., Base Plate :1 No. ❖ Shear Box Housing with 2 linear bearing case with steel ball :1 No. ❖ Software's should plot graphs between Horizontal Displacement vs Vertical Displacement, Height vs Sq. root of time graph, Shear stress vs Horizontal Displacement, c & Ø (phi) value ❖ Calibration certification approved by NABL lab. ❖ Installation of instrument with satisfactory of employer. Warranty period (minimum 1 year).	**01**

GEOLOGICAL FIELD/ LAB BASIC TOOLS

S.No.	Name of Instrument with Technical Specification	Quantity Required
13.	**N & L type ROCK SCHMIDT HAMMER (SWISS MAKE, original)** **Specification:** ❖ Digital rebound hammer with case ❖ Type N: Standard impact energy 2.207 Nm and can be use on outcrop and on cores that should be at least moderate to high strength (> 50 MPa), weight <1200gms ❖ Type L: Low impact energy, 0.735 Nm, standard for testing outcrop and cores of low strength and above of at least NX size (≥ 54 mm). <1000gms ❖ Include battery charger with micro-USB ❖ Max. impacts per series 99 ❖ Memory capacity dependent on length of test series	**02 (Type-N, Type-L)**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ Digital Display (backlit) 100 x 100 pixels, graphic ❖ Battery lifetime > 5000 impacts between charges ❖ Warranty period (minimum 1 year).	
14.	**BRUNTON COMPASS** **Specification:** The body made of composite materials, transit compass, light weight, waterproof and should satisfy the following minimum specification. ❖ Single NDFEB magnet for resisting demagnetization and for increased reliability ❖ Waterproof housing. ❖ Dual axis bubble level. ❖ Precision aligned mirror with see through window. ❖ Low center of gravity needle. ❖ Buck horn style azimuth and vertical angle sight. ❖ Horizontal and vertical axis bubble. ❖ Magnetic declination. ❖ Anodized aluminum construction ❖ Vertical angle measurements to +/-90° or 100% grades. ❖ A percent grade sale with increments of 5%. ❖ Induction dampened needle for quick, accurate readings. ❖ Magnetic declination adjustments for east or west declination settings to +/-180°. ❖ Precision aligned mirror with convenient "see-through" sighting capability. ❖ Leather case. ❖ Overall dimensions: 3.2"x2.8"x1.3" or less. ❖ Weight: <250gm ❖ Calibration certification approved by NABL lab. ❖ Warranty period (minimum 1 year).	**03**
15.	**GEOLOGICAL HAMMER** **Specification:** ❖ Hammer of 2–2.5 lb (0.91–1.13 kg), 30cm long metal handle with rubber grip. ❖ Warranty period (minimum 1 year).	**03**
16.	**PROFILOMETER (BARTON COMB)** **Specification:** Used for measurement of the roughness profile of rock samples. ❖ Length: 300-400 mm ❖ Height: 100-150 mm ❖ Metal body. ❖ Warranty period (minimum 1 year).	**01**
17.	**HANDHELD G.P.S.** **Specification:** ❖ 2.2" sunlight-readable display ❖ Display resolution with 240 x 320 pixels ❖ Support GPS and GLONASS satellites for faster positioning ❖ 3-axis compass and barometric altimeter ❖ Preloaded with topo Active maps	**02**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ Paperless geocaching ❖ >500 Waypoints/ Locations ❖ >24-hour battery life with 2 AA batteries ❖ Track Log: 10,000 points, >50 saved tracks ❖ 8 GB of internal memory plus a micro-SD™ card slot ❖ Extra Rechargeable batteries ❖ Calibration certification. ❖ Warranty period (minimum 1 year).	
18.	**ERT (Electrical Resistivity Tomography) Survey** **Specification:** ❖ Resistivity System Should Comprise of: - compact and lightweight with LCD display and 80 to 120 multi-electrodes. ❖ Display Type: - LCD with Back light facility (daylight & nightlight visible) ❖ Data Measurement: - Direct 2-D & 3-D resistivity imaging. Direct measurement of SP and IP. Roll along for both 2D and 3D. ❖ Number of Channel: - in between 4 Channel to 10 Channel or better ❖ Output Current: - >2000 mA ❖ Output Voltage: - Min + 600V and 1200V or better peak-to-peak ❖ Output Power: - 250W or better. ❖ Isolation: - All channels are Galvanically separated. ❖ Power Source: - Internal rechargeable battery source with compatible charger and external source for complete resistivity imaging field survey ❖ Current Measurement Precision: - 0.5% or better ❖ Voltage Measurement Precision: - 0.5% or better ❖ Voltage Measuring Resolution: - 1 Mirco Volt with 100% or 50% duty Cycle ❖ Resistivity Accuracy: - 0.5% or better ❖ Input Impedance: - max 600V ❖ Measurement Methods: - Software controlled Roll Along/ Move Sequence facilities. Standard data formats, such as ASCII/CSV/DAT format and portable to Excel sheet ❖ Noise Reduction: - Continuous digital stacking. Noise should be monitored before injection of current. ❖ Automatic Ranging: - Should be Microprocessor Controlled. ❖ Protection System: - System must be Weatherproof, Humidity Proof & Shock Proof. ❖ Operating Temperature: -10 to +60 degree Centigrade. ❖ Interface:- Communication to Desktop/Laptop through Wi-Fi/ Ethernet/ USB cables or mobile app. Standard data formats, such as ASCII/CSV/DAT format and can be portable to Excel sheet and be analysed in standard software, such as Res2DInv/Res3DInv or other standard software. ❖ SP Compensation:- Through automatic Linear Drift Correction ❖ Induced Polarisation: - Measured over pre-defined windows. ❖ SP Measurement: - SP should be measured for each quadrupole measurement. & It should have facility to measure the natural SP also. ❖ Data Processing Methodology: - Should comprises with elimination noise, topography correction, blocking high and unwanted data, viewing pseudo sections of Rho and IP etc. The processed data should be portable to Excel Sheet. ❖ Survey designing Software: - Graphical user interface to create 2-D and 3-D survey protocols for all standard and customised type arrays including Wenner, Schlumberger, Dipole-Dipole, Pole-Dipole, Pole-Pole and Multigradient. Facility for	**01**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	2-D and 3-D visualisation of protocols along with its orientation and position of Quadri poles and standard processing software. ❖ Modeling and Inversion Software: - 1D, 2D and 3D inversion with smooth and few layered models, also performing forward modelling. Software and firmware updates should be easily available and performed by the user. ❖ Data Transfer: - Data transfer from Resistivity Imaging System to PC/Laptop through Wi- Fi/ Ethernet/ USB cables or Real Time Data monitoring facility. Standard data format such as ASCII/CSV/DAT format and can be portable to Excel sheet. ❖ Cable Design: - Roll Along data acquisition should also be possible to be carried-out. ❖ Electrode type: - Stainless steel electrodes or Galvanized electrodes ❖ Storage: - Up to 32 GB ❖ Transportation Case: - System must be portable supplied with Rugged Transportation case ❖ Cable With 10m Spacing: - Suitable configuration of cable with 10 meters spacing ❖ GPS: - Should have GPS (Internal/ External) ❖ Self-test functions: - Instrument must have Inbuild Self-Test Functions as Battery Tester, Electrode Tester, Security Pack, Test Box, Pro Tester. If Instruments does not have these inbuilt function, separate tools for mentioned should be provided	
19.	**G.P.R. (Ground Penetrating Radar)** **<u>Specification</u>** Data Logger & control unit should work in conjunction for data collection & processing ❖ Data Logger & control unit should work in conjunction for data collection & processing Data Logger and its software shall be able to: ❖ allows the setup of main GPR parameters ❖ permanently store the raw GPR data (i.e., without any processing) ❖ process and real-time display of radar scans ❖ link the GPR data with GPS position (if connected to a GPS receiver) Data Logger hardware characteristics ❖ Minimum requirements for the Data Logger hardware are as follows: ❖ Processor: Intel Core™ i5 /m5 Processor or higher, RAM: 8GB or higher, Display: 10.1" sunlight-viewable transflective plus WUXGA Active Matrix (TFT) colour LCD with circular polarizer (800cd/m² transmissive) ❖ GPR Control Unit characteristics has to fulfil the following requirements: ❖ No of channels capability per controller unit: 4 or More ❖ Controller: should allow utilisation of single /multiple antennas up to 8 channels, of any antenna from 25MHz to 2.6 GHz and. System should be based on open architecture. ❖ Sample size: 16 bits or better ❖ No of Stacking: min 1 to 32000 or better with auto stacking ❖ Ethernet or WiFI or USB ❖ Power supply: 12V DC Li-ion battery ❖ Working temperature range: -10°C – +50°C ❖ Environmental: IP65 ❖ The GPR control unit should be capable of future upgrade ❖ The GPR system has to be equipped with 2 very low frequency antenna for deep investigation, including: 1) Antenna no 1: Very low frequency sensor: unshielded antenna with a 25 MHz to 40 MHz frequency - (center frequency) 2) Antenna no 2: Additionally, 100MHz to 120 MHz centre frequency antenna should be provided. ❖ 3) Antenna no 3: Additional High frequency antenna: shielded antenna centred at 250 MHz to 300 MHz	**01**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ The equipment should be capable of data acquition in Time, distance and continuos mode. Survey distance measurement kit for the same should be offered. ❖ Data processing and analysis software ❖ The data processing software should have capability to process both with single GPR sections and with sets of homogeneously acquired single or multi-channel profile data. Data processing software must include disturbance and noise reduction filters, gain equalisation, tomography view and estimation of propagation parameters. ❖ Data collection Software characteristics ❖ The GPR shall be supplied with data acquisition /operational software with user friendly interface preferable in a US or British or Indian English. The operational software should capable of: ❖ 2D visualization and storage of data from all the channels of the antenna or array of antennas. ❖ Automatic radar gain calibration for an easy and quick start-up ❖ Capability to mark targets and pipes on radar map directly on site during the acquisition ❖ Visualization of the detected utilities ❖ Displaying GPS status and signal quality ❖ Displaying GPR status and battery level ❖ Setting of system positioning with respect a predefined acquisition grid ❖ Setting of GPS parameters ❖ Selection of Metric or Imperial Units ❖ The software shall have the capability to show in real time, during the acquisition, the radar tomography (time slices) setting the time (depth) range. ❖ The software shall allow to import cartographic maps (from files or from the web, for example from Google maps) with or without the use of a GPS system. ❖ The software shall include tool for automatic export of all marked targets to AutoCAD, dxf and shp formats. ❖ The data collection software should fulfil the following requirements: ❖ Setup of GPR control unit main parameters ❖ Number of samples per scan: min. 128, max 16384 ❖ Stacking factor (min. 1, max 32768) ❖ Data Processing Software characteristics (2D &3D Software) ❖ both 2D and 3D imaging of data acquired with advanced filtering, flexible data handling & visualisation ❖ automatic target recognition ❖ automatic CAD rendering ❖ 3D Cube representation, enhanced interpretation tools, spatial data representation and processing. ❖ Overlay of GPS Data should be possible if NMEA based GPS is utilised. System should have capability to allow import of google maps / street maps based on GPS (GPS-Internal/External). ❖ data processing Software should possess the following characteristics ❖ Operating system: Windows 10 or higher ❖ Single or Batch processing of GPR data according to pre-defined and user-defined macros ❖ Display of raw and processed radargrams ❖ Display of time slices ❖ Utility for picking signals generated by pipes and extracting position information ❖ Utility for evaluating the propagation velocity of GPR signals ❖ Screen should show transversal, longitudinal and time slicing simultaneously to allow data processing based on 3D view. ❖ Essential Accessories required for proper functioning of the equipment ❖ Survey wheel kits, required for survey distance operations for antennas to be offered.	

S.No.	Name of Instrument with Technical Specification	Quantity Required
	❖ Batteries and battery chargers -02 set ❖ Cables: 1 x 1m antenna cable to be provided-02 set ❖ Cables: 1 x 3m antenna cable to be provided-02 Cables: 1 x 15m antenna cable for bistatic operation-02 set.	
	TOPOGRAPHICAL SURVEY INSTRUMENT	
20.	**SEMI MOTORISED ELECTRONIC TOTAL STATION** **Specification:** **ANGLE MEASUREMENT** Accuracy: <1 sec Least Count: 0.1 to 0.5 sec **TELESCOPE** Magnification: >30X Image Erect Minimum Focus: <1.75 meter **DISTANCE MEASUREMENT RANGE** Measuring Time: 1.5sec With Single Prism:4000 to 5500 meter or more Distance accuracy with Prism>1mm+2ppmXD Without Prism Measurement on 90% reflective Surface/ Target 1200 to 1500 Meter. Distance accuracy without Prism: 4mm+2ppmXD or better ATR (Auto Track Range) :600 to700m Distance Least count: 0.1mm Rotating Speed Minimum 100 degree/sec or better **PLUMMET**: Optical / Laser **FEATURE**: Surveying, Layout, Height measurement, missing distance measurement, Resection, Area Calculation, Sub Area division, reference Line, COGO, Projection Systems, select Geoids, Grid to Ground, select Coordinate in order NEZ & ENZ, settings (units, precision, parameters, etc.) graphical display of Survey Data with Zoom in Zoom Out, Pan facility, polygon, line Joining, Import Background Image & DWG file etc. Auto Rotating, Locking & Target Tracking, target Monitoring with user define time interval & its direct report. Direct background maps. **ROBOTIC CONTROL UNIT** with Field Bracket 5-inch Color, illuminated TFT, daylight readable touch screen and navigation, instrument control keys. Detachable from TS with radio. **INTEGRATED SURVEYING** Should have facility to Integrated with GNSS with Motorized Total Station. **OPERATING SYSTEMS** Platform Window / Android or latest	**01**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	COMPENSATOR: Dual Axis or more Compensator range + 4' or more MEMORY for RTS Internal Memory: 1 GB or more External Memory: 16 GB Pen drive or more. DRIVES Operation: 3 Servo Endless drives (Object focusing, Horizontal &Vertical) GUIDE LIGHT /LUMI GUIDE Inbuilt COMMUNICATION Memory Stick (Pen drive) & RS232 /USB Cable. **POWER SUPPLY:** Operating Time Internal Battery Minimum 6-7 hrs. (Li-ion)/- each Battery single charge. INTERFACE-RS232, USB, Bluetooth, WLAN, Radio External Power Port External power port required. ENVIRONMENTAL CONDITION **Operating Temp (Instruments)** -20deg C to +50 deg C Dust and water protection (Instruments) IP65 or more DATA DOWN LOADING (Instruments) Should Be Capable of Downloading/Uploading though Pen drive in Field. DATA Output Format Direct Export Survey Data in AutoCAD, DXF, CSV& TXT format, SHP., KML /KMZ etc. ALLACCESSORIES, Main EQUIPMENTS Should be Same OEM Make. 1.Semi Motorized Total Station Instruments - 1no 2.360 deg. Prism for back sighting -1no. 3.Single Prism with holder- 2nos. 4.2.0m Pole with bubble 2nos. 5.Wooden tripod – 1no. 6.Hard Plastic carrying case for RTS -1nos. 7.Battery -2nos 8.Dual slot Charger set -1nos. 9.Carrying case -1nos. 10. Software processing-1 license to process 11. Background maps or on-base controller.	
21.	**MULTI FREQUENCY RTK-12 DGPS** **(Differential Global Positioning System) SYSTEMS (BASE & ROVER) GNSS ANTENNA WITH LAPTOP** **Specification:** Fully Integrated Multi Frequency GNSS Antenna satellites tracking systems communication though Cable, Bluetooth. **NO. OF CHANNELS** 500 Equal or more **SATELLITE SIGNALS** GPS: L1C/A, L2C, L2L, L5 GLONASS: L1C/A, L1P, L2C/A, L2P, L3 SBAS: L1C/A, L5 Galileo: E1, E5A, E5B, E5 ALTBOC, E6 BEIDOU: B1, B2, B3	**01**

S.No.	Name of Instrument with Technical Specification	Quantity Required
	NAVIC (IRNSS): L5 SBAS WAAS, EGNOS, GAGAN, MSAS **POSITION RATE** 20 Hz or more **INTERNAL MEMORY** 4 GB or more Static Accuracy H: 3mm+0.1ppm, V: 3.5mm+0.4ppm RTK Accuracy H: 8mm+1ppm, V: 15mm+1ppm Network RTK H: 8mm+0.5ppm, V: 15mm+0.5ppm Differential code H: 25cm, V: 50cm **RTK Communication** 1. Fully Integrated GSM/GPRS Modem &Integrated Radio modem for receiveand transmit to cover distance 4-5km radius. **INITIALIZATIONTIME** ≤5 Seconds **ENVIRONMENTAL** Temperature Operating –40 °C to +65 °C, Storage –40 °C to +75 °C Humidity Condensing 90% or more MIL STD MIL-STD-810 G/810F IP IP67 Drop 2 m onto hard surface. **Status Indicator** Data logging, RTK, Battery, Rx/Tx transmission etc. **COMMUNICATION** 1 Serial & Power, 1 Radio Modem Port, Integrated Bluetooth& Wi-fi etc. **POWER SUPPLY** Rechargeable Battery (backup >6 hrs)/removable/ Li-ion each, External battery 9 V to 18 V with 30hrs **INBUILT TILT COMPENSATION** GNSS-Receivers should have Tilt compensation. a. Measure accurate points without leveling the pole, making surveying in areassuch as, tree, building corner accurate, fast and easy. b. Pole tilting -GNSS-Receiver should have 10°-30° tilting feature on either side of pole. **CONTROLLER SPECIFICATION** Keyboard with Display, InternalMemory & Communication Full Alphanumeric Hard QWERTY with Numeric keyboard for numbering & function short keys. Minimum 5" Touch screen LCD/HD display with 5MP Camera with Flash inbuilt GPS for Reconnaissance Survey, Cellular modem, Battery status. Processor 1Ghz or better, RAM 1GB or more, Memory 4/ 8GB for Storage or better, external memory 16GB orbetter Bluetooth, Wi-fi, USB etc. Operating temp -20 deg C to 60 deg C MIL STD MIL-STD-810H/810F OS Windows/ Android Battery backup 14 hrs./Li-ion each, in case single battery could not support 14 hours	

S.No.	Name of Instrument with Technical Specification	Quantity Required
	continuous operation, additional internal batteries and Dual Slot battery chargers or multiple chargers should be provided. **ONBOARD CONTROLLERFEATURE** The software should be able to log data for all the signals tracked & Static, Fast Static, RTK. Graphical Stake Automatic survey (by distance, by time Satellite view status (quality, position, skyview, satellites list, PDOP, HDOP, Line, polygon, area calculation, National grids, System settings (units, precision, parameters, COGO Functionality. Accept Background maps of JPEG/TIFF, DXF/DWG. Import / Export: to industry standard formats like CSV, DXF, Export CSV, DXF & KML etc. Data formats input and outputs CMR: CMR+, CMRX, NTRIP, input and outputs, Network RTK corrections from VRS, FKP and MAC/IMAX solution through NTRIP protocol RTCM: RTCM2, RTCM 3.0 RTCM 3.2 **POST PROCESSING & DRAWING SOFTWARE** ❖ The software should be a combined software capable of handling the GPS, TPS data ❖ Post processing: Processing of raw data of all signals like GPS GLONASS, GLONASS, and BEIDOUETC and combined. ❖ Import & Export to RINEX Formats, ❖ Export to industry standard formats Like DXF, CSV & KML etc. ❖ Should be able to handle RTK data and be able to Process RTK data. ❖ Inbuilt CAD Platform Calculate distance & Angle between points, Line Joining, polygon, text,circle, etc. ❖ Automatic Survey Rep Ort Generation. ❖ Automatic contour generation, 3D visualization L-X section, Grid Plan, Traverse Adjustment, Area & volume calculation etc. **FOLLWING ACCESSORIES to be SUPPLIED (1 Base + 2 Rover)** ❖ GNSS Receiver 3nos. ❖ Minimum Li-ion Battery 6nos. ❖ Charger 3nos (D u a l Slot or 2 no Charger with each Unit/ Receiver) ❖ Controller with battery & charger - 2nos. ❖ Controller Software 2 License. ❖ Data communication cable 3nos ❖ Tripod, Tribrach and Adaptor 3nos. ❖ Wooden tripod - 3nos ❖ Range Pole 2.5 Carbon Fiber 4nos. ❖ Bipod for carbon fiber pole -2nos. ❖ Hard Plastic carrying case 3nos. ❖ External Power Cable with 12v battery with cable -1nos. GNSS DATA Post Processing & DWG Software perpetual License **LAPTOP:** One number branded laptop with Scanner with 16 GB RAM or higher and 1 TB SSD hard disk Intel core i7 processor or higher. Suitable for scanner DATA acquisition and processing work having windows 10 or above OS (Pre loader with CD or DVD,) 15 inch or bigger screen, 8 GB NVDIA or higher graphics card, internal/external USB port, USDMI Port, Lan Port, Mouse, WI-FI accessibility, battery for 4 hours or more Backup, Charger, bag.	

S.No.	Name of Instrument with Technical Specification	Quantity Required
22.	**3D LASER SCANNER / SCANNING STATION** Technical Specification For 3D Laser Scanner/Scanning Station Specification **Laser Class** The instrument must be of Class I Laser with eye safe. **Scanning Range,** the range of Instrument is required to be 500-100 mtr or more (with 90 % reflectivity) **Field of View** Vertical 180° Horizontal 360° **Data Capturing Rate** the Instrument should have a measurement speed of 10,000 points per second or more (standard measurement). **3D Scanning Accuracy** ≤ 10mm. **Internal Camera M**ultiple Internal Cameras with 5 MP each or better. **Compensation type** Dual Axis or better **Compensator Range** +/-5' **Power Supply** Through maintenance free Internal rechargeable Battery (from OEM resource) having sufficient capacity of continuous scanning operation for 2-3 hours/each & with External Power > 8hrs or more, should be Supply or more. **Environmental temp.** –20 °C to 50 °C **Protection Class** Should confirm IP 55 or more with dust & water proof integration provision. **Integration** Provision to Integrate Survey Grade Differential GPS for enhanced Accuracy. **Instruments Controller / Display** identical 5 to 10 inchWVGA (800 X 480 pixel), colour and touch onboard display and keyboard available on both face (I&II) and instrument can be connected to external tablet of 7 inch (1280x800) of TFT/LED colour display. It should have also necessary touch keyboard for configuring the instrument on user defined mode and viewing the data in the field itself. **Data Storage (Internal/ Controller)** a) RAM 1GB or more (internal), 4GB(External) or more. b) Internal Memory of 2GB (instrument) extended up to 32GB or more via SD/ microSD and 64 GB (external tablet) extended up to 256 GB or more via external device like microSD. c) External memory through Pen drive. d) Camera 8Mpx or more **SURVEY PROGRAM** Should be 3D Data Visualization, Station Setup, Quick orientation, Set Angle, back sight, Resection, Traverse Check & Adjust Field, tilt	01

S.No.	Name of Instrument with Technical Specification	Quantity Required
	Graphical display, Scan area definition, full Area Scan Polygon scanning, Graphical display of cloud with zoom facility with visualization, line joining, COGO, area Calculation, photo Capturing, Auto Rotating. **PROCESIING SOFTWARE** Should be Create CAD Points from Scan Points ❖ Should be CAD and COGO Tools ❖ Should be Automatic Scan Registration ❖ Should be Automatic Region Classification. ❖ Should be 3D Data Visualization. ❖ Should be Google Earth Tools. ❖ Should be CAD to PDF ❖ Should be Import Raster and Vector PDF Data,Georeference Vector Should be PDF Data ❖ Preparation of Digital Terrain Model (DTM) ❖ Generation of contours as per user selectable interval. ❖ Mesh modelling, Area calculation, Volume Calculationsthrough DTM to DTM or by X section by user. ❖ Cut & fill volume measurement. ❖ Data visualisation in 2D or 3D, in true colour. ❖ Should be Create Scan Station ❖ Should be Georeference Point Clouds ❖ Should be Image Georeferencing Tools ❖ Should be Panorama and Image Deliverables ❖ Should be Point Cloud Management Tools ❖ Should be Projected and Vertical Surfaces ❖ Data registration of the scan data into Local coordinatessystems. **Technical Training.** One-week training on installation, data execution and data processing will be carried at Site **Warranty/Guaranty** One-year full warranty from the date installation. **<u>Accessories Supplied with Each Instruments: -</u>** Target/Prism with 2.0m Pole with bubble for setting of thesystem x2, Wooden tripod x1 Tribrach X1, Controller with Software x1, instruments Battery setx2, Charger set x1, carrying case x1, Data Processing Software Perpetual license x1, carrying case for hardware & laptop Charger for battery. External Power cable with Battery x 1. **(Instruments, Controller, Software & Accessories Should besame OEM make.)**	

Section IV – Bidding Forms

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission*]

NCB No.: *[insert number of bidding process]*

Page _____ of_____ pages

1. Bidder's Legal Name [*insert Bidder's legal name]*
2. Bidder's actual or intended Country of Registration: *[insert actual or intended Country of Registration]*
3. Bidder's Year of Registration: *[insert Bidder's year of registration]*
4. Bidder's Legal Address in Country of Registration: *[insert Bidder's legal address in country of registration]*
5. Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
6. Attached are copies of original documents of: *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.1 and 4.2. ☐ In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law and not dependent agency of borrower or sub-borrower or purchaser, in accordance with ITB Sub-Clause 4.5.

Note: To be completed and submitted /uploaded as a part of the Technical bid.

Technical Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda];*

(b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services];*

(c) Our bid shall be valid for the period of time specified in ITB Sub-Clause 20.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 24.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(d) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 44 and GCC Clause 17 for the due performance of the Contract.

(e) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries.

(f) We have no conflict of interest in accordance with ITB Sub-Clause 4.3.

(g) Our firm, its affiliates, or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser's country laws or official regulations, in accordance with ITB Sub-Clause 4.6.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Technical Bid Submission Form]*

Name: *[insert complete name of person signing the Technical Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Note: To be completed and submitted /uploaded as a part of Technical Bid

Financial Bid Submission Form

(To be submitted in only with Commercial Bid)

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

(a) The total price of our Bid, excluding any discounts offered in item (d) below, is: *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies];*

Price Schedule	Amount (in INR)
Total cost of equipment with warranty (as per technical specifications) excluding GST	
Total Excluding GST	
Amount of GST	
Total Amount including GST	

(b) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

(c) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

(d) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

(e) We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely, "Prevention of Corruption Act 1988."

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Financial Bid Submission Form]*

Name: *[insert complete name of person signing the Financial Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

***Important*: To be completed and submitted /uploaded on the e-portal (www.uktenders.gov.in) in PDF form in the Financial Envelope along with the BOQ. This Form shall be the part of Commercial Bid and if the bidder fails to submit this Form, the bid shall be deemed non-responsive.**

Price Schedule Forms

(To be submitted in Commercial Bid)

The Price Schedule Form (in Excel Format) documented separately and can be downloaded from e-procurement portal http://uktenders.gov.in along with the bid document.

Important: The Financial Bid Submission Form must be completed and submitted /uploaded on the e-portal (www.uktenders.gov.in) in PDF form in the Financial Envelope along with the BOQ. The Financial Bid Submission Form shall be the part of Commercial Bid and if the bidder fails to submit Financial Bid Submission Form, the bid shall be deemed non-responsive.

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. Thisletter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.The Bidder shall include it in its Bid, if so indicated in the ***BDS.****]*

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.:

To:*[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer],* who are official manufacturers of*[insert type of goods manufactured],* having factories at [insert full address of Manufacturer's factories], do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods],* and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

No company or firm or individual other than M/s. _____ are authorized to bid, and conclude the contract for the above goods manufactured by us against this specific RFB. *[This para should be deleted for simple items where manufacturers normally sell the product through different stockists]*.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

[*Note – Modify this format suitably in cases where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited. If the supply consists of number of items, indicate the specific item (s) for which alone the above authorization is required.]*

ANNEX 1: Contract Forms

Contract Agreement

THIS AGREEMENT made the *[insert: **number**]* day of *[insert: **month**]*, *[insert: **year**]*.

BETWEEN

(1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of …. of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called "the Purchaser"), of the one part, and

(2) *[insert name of Bidder]*, a corporation incorporated under the laws of *[insert: country of Bidder]* and having its principal place of business at *[insert: address of Bidder]* (hereinafter called "the Bidder"), of the other part :

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, *[insert brief description of Goods and Services]* and has accepted a bid by the Bidder for the supply of those Goods and Services

The Purchaser and the Bidder agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.

   (a) Letter of Award of Contract

   (b) Technical Bid of the Bidder

   (c) Conditions of Contract

   (d) Purchaser's Requirements (including Schedule of Requirements and Technical Specifications)

   (e) The completed Schedules (including Price Schedules)

   (f) Any other document listed as forming part of the Contract

3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Related Services if applicable and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services if applicable and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[the Purchaser's country, unless agreed otherwise]* on the day, month and year indicated above.

For and on behalf of the Purchaser:

Signed: *[insert signature]*

in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert identification of official witness]*

For and on behalf of the Bidder:

Signed: *[insert signature of authorized representative(s) of the Bidder]*

in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert identification of official witness]*

Conditions of Contract

1. **Definitions**	1.1 The following words and expressions shall have the meanings hereby assigned to them: (a) "CC" means the Conditions of Contract. (b) "Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein. (c) "Contract Documents" means the documents listed in the Contract Agreement, including any amendments thereto. (d) "Contract Price" means the price payable to the Supplier as specified in CC 8.1, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract. (e) "Day" means calendar day. (f) "Completion" means the fulfillment of the Related Services, as applicable, by the Supplier in accordance with the terms and conditions set forth in the Contract. (g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract. (h) "Party" means the Purchaser or the Contractor, as the context requires, and "Parties" means both of them. (i) "Purchaser" means the entity purchasing the Goods and Related Services as applicable, as specified in CC 2. (j) "Purchaser's Country" is the country specified in the CC 2. (k) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract, as applicable. (l) "Subcontractor" means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the

	Related Services is subcontracted by the Supplier. (m) "Supplier" means the person, private or government entity, or a combination of the above, whose Quotation to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement. (n) "The Project Site," where applicable, means the place named in theCC.
2. **Purchaser, Purchaser's Country, Project Site/Final Destination**	2.1 The Purchaser is: **The Director General, ULMMC, Government of Uttarakhand, India** ULMMC, 4th Floor,DDPM Tower,Haridwar By-pass road,Ajabpur Khurd,Pin 248001, India 2.2 The Purchaser's Country is: India 2.3 The Project Site(s)/Final Destination(s) is/are: office of ULMMC,Dehradun.
3. **Notices and Addresses for notices**	3.1 Any notice given by one Party to the other pursuant to the Contractshall be in writing to the address hereafter using the quickest available method such as electronic mail with proof of receipt. **<u>Address for notices to the Purchaser</u>:** **The Director General, ULMMC, Government of Uttarakhand, India** ULMMC, 4th Floor,DDPM Tower,Haridwar By-pass road,Ajabpur Khurd,Pin 248001, India Email: _____ **<u>Address for notices to the Supplier</u>:** *[insert the name of officer authorized to receive notices]* *[title/position]* *[department/work unit]* *[address]* ***[Electronic mail address]***
4. **Governing Law**	4.1 The Contract shall be governed by and interpreted in accordance with the laws of Republic of India.
5. **Settlement of Disputes**	5.1 (a) Contracts with Supplier national of the Purchaser's Country: In the case of a dispute between the Purchaser and a Supplier who is a national of the Purchaser's Country, the

	dispute shall be referred to adjudication or arbitration in accordance with the laws of the Purchaser's Country.
6. **Shipping and other documents to be provided**	[MODIFY AS APPROPRIATE 6.1 The Delivery of the Goods and Completion of the Related Services as applicable shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. Details of Shipping and other Documents to be furnished by the Supplier are: Upon delivery of the goods to the transporter/consignee, the supplier shall notify the purchaser and mail the following documents to the Purchaser : (i) Three Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount; (ii) Delivery note, Railway receipt, or Road consignment note or equivalent transport document or acknowledgement of receipt of goods from the Consignee; (iii) Three Copies of packing list identifying contents of each package; (iv) Insurance certificate; (v) Manufacturer's/Supplier's warranty certificate; (vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and (vii) Certificate or origin. The above documents shall be received by the Purchaser: (i) before arrival of the Goods, if the mode of payment is through letter of credit if so specified in CC 9. If the documents are not received before arrival of the Goods, the Supplier will be responsible for any consequent expenses; or otherwise; (ii) on shipment.
7. **Contract Price**	7.1 The Contract Price is specified in Price Schedule 4. 7.2 The unit prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier and accepted by the Purchaser.
8. **Terms of payment**	8.1 Payment shall be made in Indian Rupees, as follows:

	(i) Advance Payment (on demand/optional): Ten (10) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract against a simple receipt and a bank guarantee for the equivalent amount valid until the goods are delivered, and in the form provided in the bidding document or another form acceptable to the Purchaser. This advance payment shall be adjusted from the payment on delivery. (ii) On Delivery: Eighty (80) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC/ SCC. (iii) On Final Acceptance: Twenty (20) percent of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser's representative
9. **Taxes and Duties**	9.1 For Goods Manufactured within the Purchaser's Country, the Supplier shall be entirely responsible for all taxes (GST), duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser. 9.2 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
10. **Performance Security**	10.1 Performance Security "The Supplier shall, within 10 days of the notification of contract award, provide a performance security for the performance of the Contract The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract. The amount of the Performance Security shall be: *10% of Contract Price*, denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser. The Performance Security shall be in the form of the attached Demand Guarantee. The Performance Security shall be discharged by the Purchaser

	and returned to the Supplier not later than fourteen (14) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise."]
11. **Subcontractors**	11.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Quotation. Such notification, in the original Quotation or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.
12. **Specifications and Standards**	12.1 The Goods and Related Services if applicable supplied under this Contract shall conform to the technical specifications and standards mentioned in the Technical Specifications and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.
13. **Packing, marking and documentation**	13.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit. 13.2 The packing, marking and documentation within and outside the packages shall be: [insertthe type of packing required, the markings in the packing and all documentation required; **or refer to the Technical Specifications**]
14. **Delivery Date and Completion Date**	14.1 The Delivery Date of the Goods/Services shall be: _____[Insert the Delivery Date]. If phased delivery is allowed specify the acceptable delivery schedule]. 14.2 **[if applicable]** The Completion Date of Related Services shall be: ____[Insert the Completion Date if there are related services; otherwise delete this entry].
15. **Liquidated damages and bonuses**	15.1 The liquidated damage shall be *0.5%*of the price of the delayed Goods or unperformed Servicesfor each week or part thereof of delay until actual delivery or performance. The maximum amount of liquidated damages shall be *10%*of the Contract Price. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to CC 26.
16. **Warranty**	16.1 The Supplier warrants that all the Goods are new, unused, and

	of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract. 16.2 The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination. 16.3 The warranty shall remain valid for [insert number] months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination**,** or for [insert number] months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier. 16.4 The period for repair or replacement after being notified of the defect by the Purchaser shall be *10 days*. 16.5 If having been notified, the Supplier fails to remedy the defect within the period specified in CC 20.4, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract. 16.6 For purposes of the warranty, the place(s) of final destination(s) shall be: *[specify where appropriate]*
17. **Copyright**	17.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
18. **Force Majeure**	18.1 The Supplier shall not be liable for forfeiture of its Performance Security (if required), liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. 18.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires,

	floods, and freight embargoes. 18.3If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. 18.4If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the currency of the Contract, the Parties will attempt to develop a mutually satisfactory solution, failing which either Party may terminate the Contract by giving a notice to the other Party.
19. **Termination**	19.1Termination for Default The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part: (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser; (ii) if the Supplier fails to perform any other obligation under the Contract; or (iii) if the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, in competing for or in executing the Contract. In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services if applicable similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services if applicable. However, the Supplier shall continue performance of the Contract to the extent not terminated. 19.2Termination for Convenience (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's

	convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective. (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect: (i) to have any portion completed and delivered at the Contract terms and prices; and/or (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services if applicable and for materials and parts previously procured by the Supplier.
Additional Clauses	[*insert any additional clauses as necessary, otherwise delete this row*]

Performance Security

(Bank Guarantee)

[The bank, as requested by the Supplier, shall fill in this form in accordance with the instructions indicated]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Purchaser]*

Date:*[Insert date of issue]*

Performance Guarantee No.:*[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

Contract No.: *[insert Purchaser's reference for the specific Contract]*

We have been informed that _ *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into a Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of _ *[insert name of contract and brief description of Goods and Related Services]*(hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* ()*[insert amount in words]*,[1] such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the …. Day of ……, 2…[2], and any demand for payment under it must be received by us at this office indicated above on or before that date.

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[1] The Guarantor shall insert an amount representing the percentage of the contract Amount denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

[2] Insert the date twenty-eight days after the expected completion date as described in CC 11. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Purchaser might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

_____
[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

Sample Letter of Award of Contract

[modify as appropriate]

[use letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: ***Notification of Award of Contract No.*** . . . .

In reference to the RFB [*insert reference number and date*], your Bid [*insert reference number and date*] has been accepted.

Please find inclosed herewith the Contract. You are requested to sign the contract within *[insert no of days]*.

[Insert the following only if Performance Security is required:]"You are also requested to furnish a Performance Security within [*insert no of days*] in accordance with the Conditions of the Contract, using for that purpose one of the Performance Security Form*s* attached to the Contract.
Authorized Signature: _____
Name and Title of Signatory: _____
Name of Agency: _____

Attachment: Contract

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

Govt. of Uttarakhand

TENDER CANCELLATION NOTICE

REFERENCE No. 144/ 08 /ULMMC/2023 **DATE:** 29.06.2024

NAME OF CLIENT: Uttarakhand Landslide Mitigation & Management Center

Assignment Title: Procurement of Geological, Geo-technical & Geophysical Instruments for Uttarakhand Landslide Mitigation & Management, Dehradun, UTTARAKHAND.

NIT NO. 01/Instruments/ULMMC/2023-24 **Dated: 20.01.2024.**

Request for Bid (RFB) was issued vide reference no. **01**/Instruments/ULMMC/2023-24, Dated:20.01.2024. Due to receiving very high price by the participating firms during proposal evaluation; as per procurement guidelines of state and administrative decisions, the bidding process stand annulled and will be initiated again afresh.

Dr. Ranjit Kumar Sinha
Director General