



## NOTICE

### Notice Inviting Tender

MIDC/EW/TECH/RRM/321/ 80

Dated Shillong, the 06<sup>th</sup> of September 2024

The Managing Director, Meghalaya Industrial Development Corporation Ltd., invites sealed bids for the **Selection of Agency for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project)**. Tender documents are available at the office of the Managing Director, KISMAT Upland Road, Laitumkrah, Shillong-793003, Meghalaya.

Details are as follows:

- **Tender Ref. No.:** MIDC/EW/TECH/RRM/321/ 86
- **Date of Issue of RFP:** 06.09.2024
- **Last Date and Time for Submission of Bids:** 27.09.2024 at 05:00 P.M.
- **Date and Time of Opening of Technical Bid:** 30.09.2024 at 11:00 A.M.
- **Place of Opening of Bids and Address for Communication:** Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkrah, Shillong-793003, Meghalaya. Phone No: (0364) 2223458, Email: midcltd@rediffmail.com
- **Tender Fee:** Rs. 10,000 (inclusive of 18% GST)

For any notice, amendment, or corrigendum related to the tender, please visit our website at <https://meghidc.com> and <https://midc.megindustry.gov.in>. The Corporation reserves the right to cancel any or all bids/annul the bidding process without assigning any reason. The decision of the Corporation will be final and binding.

Yours Faithfully,

(Shri. D.D. Nongmalieh)  
Managing Director

Memo No: MIDC/EW/TECH/RRM/321/

Dated Shillong, the 09th of September 2024

Copy to:

1. Secretary, Forests and Environment, Government of Meghalaya
2. Under Secretary, Mining and Geology, Government of Meghalaya
3. Senior Technical Director, NIC Shillong with a request to upload the tender in the Corporation website
4. Director, DIPR Meghalaya, with a request to get the NIT published in one issue of Local Newspaper (English and Khasi) having wide publicity in Meghalaya. The bill for publication may be send to the Managing Director, MIDC Ltd Shillong for payment.
5. Notice Board

Yours Faithfully,

(Shri. D.D. Nongmalieh)  
Managing Director



**Meghalaya Industrial Development Corporation Ltd.**  
A Government of Meghalaya Undertaking

Meghalaya Industrial Development Corporation Ltd  
(A Government of Meghalaya Undertaking)



Request For Proposal (RFP)  
for  
Selection of Agency for Input Data Collection on the  
Restoration of Mine-Affected Land in Meghalaya  
(Pilot Project)



**Meghalaya Industrial Development Corporation Ltd.**  
A Government of Meghalaya Undertaking

**Meghalaya Industrial Development Corporation**

KISMAT Upland Road, Laitumkrah, Shillong-793003, Meghalaya, India.

Phone No: 0364 - 2223458

Email: midcltd@rediffmail.com



**Invitation of Bids**  
**for**  
**Selection of Agency for Input Data Collection on the Restoration**  
**of Mine-Affected Land in Meghalaya**  
**(Pilot Project)**

**Tender Ref. No.** : MIDC/EW/TECH/RRM/321/ **86**

**Date of Issue of RFP** : 06.09.2024

**Last Date and Time for submission of Bids** : 27.09.2024 at 05.00 P.M.

**Date and time of opening of Technical Bid** : 30.09.2024 at 11.00 A.M.

**Place of opening of bids and Address for Communication** : **Meghalaya Industrial Development Corporation Ltd**  
KISMAT Upland Road, Laitumkhrah,  
Shillong-793003, Meghalaya, India.  
**Phone No:** (0364) 2223458  
**Email:** midcltd@rediffmail.com

**Tender Fee** : Rs. 10,000

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd  
Shillong

*It will be the responsibility of the bidders to check Meghalaya Industrial Development Corporation website <https://meghide.com> or <http://midc.megindia.org.in> for any notice, amendment or corrigendum in the tender document. In case of any amendment, bidders will have to incorporate the amendments in their bids accordingly.*



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Shillong



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**Meghalaya Industrial Development Corporation Ltd.**

**(A Government of Meghalaya Undertaking)**

**KISMAT Upland Road, Laitumkhrah**

**Shillong-793003, Meghalaya, India**

**Notice Inviting Tender**

Sealed Bids are invited from eligible bidders for the Selection of Agency for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project) at the MIDC Head Office in Laitumkhrah. Detailed terms and conditions may be downloaded from the website of MIDC at <https://midc.megindustry.gov.in/> or <https://meghidc.com/>. The tender Fee should be in the form of a Demand Draft for Rs. 10,000 and is non-refundable. The bids can be submitted up to 05:00 PM on 27.09.2024 and shall be opened on 30.09.2024 at 11.00 AM.

The details for any notice, amendment or corrigendum, in the tender document will be available on the Meghalaya Industrial Development Corporation Ltd websites <https://meghidc.com/> and <https://midc.megindustry.gov.in/>. The Corporation reserves the right to cancel any or all the bids/annul the bidding process without assigning any reason and decision of Corporation will be final and binding in this regard.

**MIDC/EW/TECH/RRM/321/**

**MANAGING DIRECTOR**

*Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong*



### IMPORTANT DATES

Sl. No.	Items	Description
1	Date of publication of Tender notice & availability of Tender Document	Date: September 06, 2024
2	Last Date for submission of Pre-bid Queries	September 16, 2024 by 05:00 PM only at following email ID: <a href="mailto:midcltd@rediffmail.com">midcltd@rediffmail.com</a>
3	Date and Venue for Pre-bid conference	September 19, 2024 at 02:00 PM at the Board Room of Meghalaya Industrial Development Corporation Ltd, KISMAT Upland Road, Laitumkrah, Shillong-793003, Meghalaya, India or via video conference
3	Last date and time for submission of bids (Technical & Financial both). Each bidder has to submit 1 (original) and 2 (two) copies of their technical and financial bids.	September 27, 2024 by 05:00 PM at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd
4	Bids opening date & time	September 30, 2024 by 11:00 AM at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd
5	Date and Time for presentation on Concept Note and Approach & Methodology	October 11, 2024 by 11:00 AM at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd
6	Financial Bid opening date & time (Only of technically qualified bidders)	October 11, 2024 by 02:00 PM at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd

  
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**FACT SHEET**

Details	Topic
Selection method	QCBS (80:20)
Tender Document Fee	Rs. 10,000/- (Rupees Ten thousand only) in the form of a Demand Draft in favour of The Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrach, Shillong-793003, Meghalaya, India.
Earnest Money Deposit	<p>Rs. 10,00,000/- (Rupees Ten lakhs only) in the form of a Demand Draft in favour of The Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrach, Shillong-793003, Meghalaya, India. This will be returned to the bidders after the completion the bidding process and the declaration of the successful bidder.</p> <p>Earnest money of unsuccessful bidders shall be returned within 15 days after the award of contract or expiry of bid validity whichever is earlier. Earnest money of successful bidder shall be returned within 15 days after receipt of Performance Security / e-PBG. If the bidder defaults in satisfying Techno-commercial criteria, full EMD will be forfeited.</p> <p>MSE bidders having valid MSME/Udyam Registration Certificate or startups as recognized by the Department of Industrial Policy and Promotion (DIPP) and will be exempted for making payment of EMD.</p>
PBG	Performance Bank Guarantee (PBG) of 3% of the contract value to be submitted by the successful bidder in the form of Bank Guarantee on or before the date of signing of the Agreement with the Client.
Contact details	<p><i>All queries should be received through email as per timeline mentioned in 'Important Dates'. The contact details are:</i></p> <p><i>Assistant General Manager (Finance)</i> <i>9366188964/ 9953432234</i> <i>Email: midcltd@rediffmail.com</i></p>

  
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Shillong



## INVITATION OF BIDS

This invitation for bids is for the Selection of Agency for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project).

1. Bidders are advised to carefully study the Tender Document. Submitting a bid against this Tender implies that the bidder has thoroughly reviewed and accepted the procedures, terms, and conditions of the Tender Document with full understanding of its implications.
2. The detailed terms and conditions of the Tender Document can be downloaded from the MIDC website at <https://midc.megindustry.gov.in/> or <https://meghidc.com/> . The tender fee, a non-refundable Demand Draft of Rs. 10,000, should accompany your bid. Bids must be submitted by 05:00 PM on 27.09.2024 and will be opened at 11:00 AM on 30.09.2024.
3. Bidders must submit the tender document cost & EMD as outlined above via Demand Draft in favor of "Managing Director, Meghalaya Industrial Development Corporation Ltd," payable at Shillong. A scanned copy of the Payment Proof must be attached with the bids.
4. Bidders are required to quote for all items in both the technical Bid and the price schedule/BOQ (Bill of Quantity) of the financial bid. Bids not quoting for all items in both technical and financial bids will be rejected.
5. Bids will be opened in the presence of bidders' representatives who wish to attend, at the specified date, time, and venue.
6. The agency selected for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project) must immediately commence the survey and digitization of boundaries upon project assignment. The duration of the work will depend on the work order/contract period.
7. If the bid opening date is declared a holiday for the MIDC office, the bids will be opened on the next working day at the scheduled time.
8. All required documents must be submitted by the bidder to the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd, Shillong, with clearly labeled document sections

  
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such as Fee details, Qualification details, Bid Form, Scope of Work, and Financial Bid, including Bid Form and Price Schedule/BOQ.

9. MIDC reserves the right to cancel any or all bids or to annul the bidding process without providing any reason. MIDC's decision will be final and binding on all bidders.

*Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong*



**SECTION-I**

**INSTRUCTION TO BIDDERS (ITB)**

**1. Cost of Bid Documents:**

- (a) The Bidder shall bear all costs associated with the preparation and submission of its Bid to the Meghalaya Industrial Development Corporation Ltd. (MIDC). Shillong hereinafter referred to as "Tendering Authority", will in no case be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- (b) The detailed terms and conditions of the Tender Document can be downloaded from the MIDC websites at <https://midc.megindustry.gov.in/> or <https://meghidc.com/> . The tender fee, a non-refundable Demand Draft of Rs. 10,000. should accompany your bid. The bidders shall have to pay Tender Fee through Demand Draft for collection of the Tender Document.

No exemption will be given to any Agency of MIDC in submitting Tender Document and Tender Fee for this tender. The Tender Fee is non-refundable.

**2. Clarification of Bid Documents and Scope of Work:**

Bidders need to send queries, through email at [midcltd@rediffmail.com](mailto:midcltd@rediffmail.com) in MS Excel format before scheduled date & time of Pre-Bid Conference. Queries received after scheduled date & time may not be considered.

**Format for Pre-Bid Queries:**

Sl. No	Page No/Para No/ Sr. No. of Tender Document	Clause as mentioned in the RFP	Bidder Query/ Amendment Requested if any along with Reason for request of Amendment

**3. Amendment of Bid Documents:**

- (a) At any time prior to the deadline for submission of Bid, MIDC may, for any reason whether at its own initiative or in response to a clarification requested by a prospective bidder, make amendments in the Bid documents and would be uploaded on Meghalaya Industrial Development Corporation Ltd websites <https://meghidc.com/> and <https://midc.megindustry.gov.in/> through notice, amendment or corrigendum.



The relevant clauses of the document shall be treated as amended accordingly.

- (b) It shall be the sole responsibility of the prospective bidders to check the website from time to time for any notice, amendment or corrigendum in the Tender document. In case of failure to get the amendments, if any, MIDC shall not be held responsible.
- (c) In order to allow prospective bidders a reasonable time to take the amendment into account in preparing their bids, MIDC, at its discretion, may extend the deadline for the submission of bids. Such extensions shall be posted / up-loaded by Corrigendum only on the Meghalaya Industrial Development Corporation Ltd websites <https://meghidc.com/> and <https://midc.megindustry.gov.in/>

#### **4. Language of Bid:**

The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder shall be written in English language only.

#### **5. Documents Constituting the Bid:**

##### **(a) Technical Bid:**

- i. Fee Details** – Includes copies of Tender Fee and EMD furnished in accordance with ITB Clause-8 of this document.
- ii. Qualification Details** – Includes copies of required documents as per Section-III of this document justifying that the Bidder is qualified to perform the contract if his / her Bid is accepted and that the bidder has technical and financial capability necessary to perform the contract and meets the criteria outlined in the Qualification Criteria and fulfil all the conditions of the Contract and that the services to be delivered by the bidder confirm to the Technical Bid document.
- iii. Bid Form** – Includes copy of filled in Bid Form as per Section-III(1 & II) of Tender document justifying that the bidder is complying with all the conditions of the Contract and Scope of Work of the Bid Document as no deviation will be acceptable by the Tendering Authority.
- iv. Scope of Work and their Acceptance** – includes copy of filled in Compliance with Scope of Work as per Section-IV of Tender document.
- vi. Non-Blacklisting Affidavit** - The bidder should submit a notarized affidavit on a non-judicial stamp paper of Rs. 100/- that the bidder's firm has not been blacklisted / debarred / prohibited by any State / Central Government Departments / Organizations as per Section-VIII of Tender Document. The notarized affidavit attached by bidder should be of latest date (not be more than a



month old from the date of publishing of the Bid).

**vii. Valid Security Amount Proof** - The bidder should submit a valid proof of EMD (DD/BANK GUARANTEE) as per Clause-8-Bid Security/EMD of SECTION-I (Instructions to Bidders of Tender document stating that the bidder has submitted the security amount in the favour MIDC).

**(b) Financial Bid:**

**i Bid Form**– includes copy of filled in Bid Form as per Section-IV(1) of Tender document.

**ii Price Schedule/BoQ** - includes Price Schedule as per Section-IV(2) of Tender document in approved format.

**6. Bid Price:**

**(a)** The Bidder shall quote price of the work for Price Schedule/BoQ in the specified places for all the services.

**(b)** Bid price quoted for each item shall include all the cost (excluding CGST and SGST) till successful completion of the work specified in Section-III(3) (Scope of work and their acceptance).

**(c)** Prices quoted for each item shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. Any Bid submitted with an adjustable price quotation unless asked for shall be treated as non-responsive and will be rejected.

**7. Bid Currencies:** Prices shall be quoted in Indian Rupees only.

**8. Bid Security/EMD:**

**(a)** The security amount submitted by Agency Companies in MIDC shall be treated as Bid Security. If submitted in Bank Guarantee the bidders must have submitted Security amount valid 180 days. The Bid security is required to protect MIDC against the risk of Bidder's conduct which would warrant the security's forfeiture. The bidders must ensure that if security furnished by them is for a lesser validity period, then the same has to be extended till project lifecycle.

**(b)** The bid security may be forfeited:

If a Bidder:

**(i)** withdraws his/her bid during the interval between the deadline/ last date for submission of its Bid and the expiration of period of Bid validity; or

**(ii)** does not accept the correction of errors pursuant to ITB Clause-3 of Section-I; or

**(iii)** In case of a successful bidder, if the Bidder fails to sign the Contract with Tendering Authority in



accordance with the scope of work and conditions of contract of this Tender. If any of the above three cases happen then the bidders will be treated as in default and hence liable for forfeiture of their bid security for this Bid i.e. security as submitted by them for their empanelment.

**9. Period of Validity of bids:**

- (a) Each Bid shall remain valid for 150 days after the date of opening of Bid prescribed by Tendering Authority, pursuant to ITB Clause-15. Any Bid valid for a shorter period shall be rejected by Tendering Authority as non-responsive.
- (b) In exceptional circumstances, Tendering Authority may solicit the Bidder's consent to an extension of the period of Bid validity. The request and the response thereto shall be made in writing. The Bid security provided under ITB Clause-8 shall also be suitably extended or submitted afresh. A Bidder may refuse the request without forfeiting its Bid security. A Bidder granting the request will not be required nor permitted to modify its Bid.

**10. Format and Signing of Bid:**

(a) Two-Bid System: Bidders must submit their offers in two parts: the Technical Bid and the Price Bid. Each part should be placed in separate sealed envelopes, clearly marked as "TECHNICAL BID FOR SELECTION OF AGENCY FOR INPUT DATA COLLECTION ON THE RESTORATION OF MINE-AFFECTED LAND IN MEGHALAYA (PILOT PROJECT)." and "FINANCIAL BID FOR SELECTION OF AGENCY FOR INPUT DATA COLLECTION ON THE RESTORATION OF MINE-AFFECTED LAND IN MEGHALAYA (PILOT PROJECT)," respectively. Both envelopes should then be enclosed in a larger sealed envelope, labeled "SELECTION OF AGENCY FOR INPUT DATA COLLECTION ON THE RESTORATION OF MINE-AFFECTED LAND IN MEGHALAYA (PILOT PROJECT)." Tenders must be submitted to the office of the Managing Director, Meghalaya industrial Development Corporation Ltd (MIDC) in Shillong.

(b) The Bid documents shall be signed, at the time of submission, by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The later authorization shall be indicated by a certified copy of written power-of-attorney accompanying the Bid. All the pages/ documents of the Bid that are to be submitted shall be signed by the person authorized to sign the Bid.

**11. Submission of bids:**

The Bid Submission shall be done to the office of the Managing Director, MIDC, Kismat Upland Road, Laitumkhrah, Shillong. Bid submission can be done only from the bid submission start date and time till

  
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the Bid Submission end date and time given in the Bid. Bidders should start the Bid Submission process well in advance so that they can submit their bids in time. Once the Bid submission date and time is over, the bidders cannot submit their bids. For delay in submission of bids due to any reasons, the bidders shall only be held responsible.

**12. Deadline for Submission of bids:**

(a) Bids must be submitted by the bidders at the office of the Managing Director, MIDC, Kismat Upland Road, Laitumkhrah, Shillong not later than the schedule mentioned above.

(b) MIDC may, at its discretion, extend this deadline for submission of bids by amending the

documents in accordance with ITB Clause-3, in which case all rights and obligations of MIDC and Bidders previously subject to the deadline will thereafter be subjected to the deadline as extended.

**13. Late bids:**

Once the Bid submission date and time is over, the bidder cannot submit his/ her bid. Bidder has to start the Bid Submission well in advance so that the submission process passes off smoothly. The bidder will only be held responsible if his/ her Bid is not submitted in time due to any of his/ her problems during Bid submission process.

**14. Withdrawal and Resubmission of bids:**

(a) At any point of time, before the final submission date and time of the Bid, the bidder can withdraw his/ her Bid

(b) No Bid may be withdrawn in the interval between the deadline/last date for submission of Bid and the expiration of period of Bid validity. Withdrawal of a Bid during this interval may result in the Bidder's forfeiture of his/ her bid security/EMD, pursuant to ITB Clause-8(b).

(c) The bidder can resubmit his/ her bid as and when required till the Bid submission end date and time. The Bid submitted earlier will be replaced by the new one on the written undertaking by the bidder. The payment made by the bidder earlier will be used for revised Bid and the new Bid submission documents will be considered for evaluation purposes.

(d) No Bid can be resubmitted subsequently after the deadline for submission of bids.

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong



**15. Opening of Technical bids by MIDC:**

(a) Tendering Authority will open all Technical bids, in the presence of Bidders' representatives who choose to attend on prescribed schedule at Meghalaya Industrial Development Corporation Ltd, KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India. The Bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of Technical bids opening being declared a holiday for Tendering Authority, the Technical bids shall be opened at the appointed time and location on the next working day.

(b) The technical evaluation will be done as per evaluation criteria given in ITB Clause-17 and requirements as given in Section-III(4). The bidders' names and the presence or absence of requisite bid security and such other details as Tendering Authority at its discretion may consider appropriate, will be announced at the time of opening. No Technical Bid shall be rejected at the time of its opening.

(c) Tendering Authority will prepare minutes of the opening of Technical Bid.

**16. Clarification of Technical bids:**

During evaluation of Technical Bid, the Tendering Authority may, at its discretion, ask the Bidders for a clarification /submission of additional documents pertaining to clarification of their Technical bids. The request for clarification and the response shall be in writing or in the meeting by Tendering Authority.

**17. Evaluation of Technical bids:**

The evaluation of Technical bids shall be done as per conditions mentioned in "SECTION-III(4)-Minimum Qualification Requirements" of this Tender document.

**18. Opening of Financial bids:**

(a) After evaluation of Technical bids, all technically qualified bidders will be informed about date and time for opening of Financial bids by letter/ e-mail/ phone.

(b) The Financial bids of technically qualified bidders shall be opened on the date informed separately by MIDC at Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrah, Shilong in the presence of Bidders who choose to attend. In the event of the specified date of Financial bids opening being declared a holiday for Tendering Authority, the Financial bids shall be opened at the appointed time and location on the next working day. The names of Bidders, Price quoted etc will be

  
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announced at the time of opening.

**19. Evaluation of Financial bids:**

- (a) MIDC will evaluate and compare the financial price quoted in the Price Schedule/BoQ of bids of those bidders whose Financial bids are found responsive to the Scope of Work given in Section-III of Tender document.
- (b) The selection of bidder will be done on the basis of Quality cum Cost Based Selection (QCBS) as per formula given below:

$$\text{Financial Score (FS)} = (\text{Financial Quote of LI} / \text{Financial Quote of the Bidder}) \times 100$$

For determination of the successful bidder, the following weightage shall be given for the technical

and financial scores of the bidders in QCBS methodology:

Technical Score (TS): 80%

Financial Score (FS): 20%

For every Bidder the Final Score will be calculated using the formula

$$\text{Final Score} = 0.80 \times \text{TS} + 0.20 \times \text{FS}$$

The bidder with the highest value of Final Score shall be selected as the successful bidder

- (c) If there is a discrepancy in total value, then the total coming after summing the individual values of the items shall prevail. Similarly, if there is a discrepancy with respect to the calculation of unit rate and quantity of any item, then the corrected value of this calculation shall prevail.
- (d) If there is a discrepancy in total value written in figures and words then the total value written in words shall prevail.
- (e) If the Bidder does not accept the correction of errors if any, its Bid shall be rejected and its bid security/EMD may be forfeited.
- (f) If all Items required to be quoted in Section-VII -Price Schedule/BoQ are not quoted, then Financial Bid of those bidders shall be rejected.
- (g) Conditional Bid would be summarily rejected.
- (h) The price of work order released to selected bidder based on the quoted rates will include all taxes and levies and shall be in Indian Rupees.

**20. Contacting the Tendering Authority:**

- (a) No Bidder shall contact MIDC on any matter relating to their bid, from the time of the Bid opening

  
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to the time till the Contract is awarded. If the bidder wishes to bring additional information to the notice of MIDC or wants to have clarification, bidder can do so in writing.

(b) Any effort by a Bidder to influence MIDC in its decisions on Bid evaluation, Bid comparison or contract award may result in rejection of the Bidder's bid.

**21. Award Criteria:**

(a) The Tendering Authority will determine to its satisfaction whether the successful bidder meets the criteria specified in ITB Clauses 17 and 19 and is qualified to perform the contract satisfactorily.

(b) Tendering Authority will award the contract to the successful Bidder whose Financial Bid has been determined to be responsive to all the conditions of the contract and meeting the qualification requirement of the Bidding Document.

**22. Tendering Authority's right to accept / reject any or all bids:**

MIDC reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids at any time, without thereby incurring any liability to the affected Bidder or bidders.

**23. Notification of Award:**

(a) Prior to the expiration of the period of Bid validity, MIDC will make every effort to open the Financial Bid and notify the successful bidder in writing by letter/e-mail/fax/phone about award of contract.

(b) The notification will make the bidder eligible for signing of contract for the work for which the bidder has quoted the price.

**24. Signing of Contract (Agreement):**

(a) At the same time as MIDC notifies the successful bidder that its Bid has been accepted, MIDC will send the bidder, the Draft Contract (Agreement) Form incorporating all terms and conditions between the parties i.e., MIDC and successful bidder as per Conditions of Contract given in Section-II of Tender document. Besides this, additional conditions may be added in the Draft Contract (Agreement) with mutual consent in the benefit of successful implementation and operation of the given projects.

(b) Within 15 days of receipt of the Contract Form, the successful bidders shall sign and date the Contract and return it to the Tendering Authority.

**25. Rights of Tendering Authority:**

Tendering Authority has rights to relax any criteria of qualification required to fulfill the tender

  
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condition in the interest of work of the Department. Tendering Authority has right to ask the bidder to submit any document required in support of qualification for its satisfaction/confirmation at any stage

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**SECTION- II**

**CONDITIONS OF CONTRACT**

**1. Definitions :**

In this Contract, the following terms shall be interpreted:

- (a) "The Tendering Authority" means the organization purchasing the Services, being a Procurement/ Executing Agency and the Tendering Authority is Meghalaya Industrial Development Corporation KISMAT Upland Road, Laitumkhrach, Shillong-793003, Meghalaya, India.
- (b) The Selected " Agency" means the Company/ firm selected for providing the Services under this Contract.
- (c) "The Contract" means the Agreement entered into between MIDC and the selected Service Provider, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (d) "The Contract Price" means the prices of various items payable to the selected Agency under the Contract for the full and proper performance of its contractual obligations;
- (e) "Services" means services that have been covered under the Scope of Work of the project as given in this Tender.
- (f) "Day" means calendar day.

**2. Application :**

These Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

**3. Standards :**

The Services supplied under this Contract shall conform to the standards mentioned in the Technical Specifications or the higher, and, when no applicable standards are mentioned, the authoritative standards appropriate to the delivery of Services shall be applicable.

**4. Performance Security:**

- (a) Within 15 days of issuing Lol (Letter of Intent)/Work Order, the successful bidder shall provide Performance Security in the Form of DD/PBG @ 5% of the quoted cost valid for 01 year and 6

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
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months.

(b) The T.D.S. and any other taxes shall be deductible from the above payments as per prevailing tax rules at the time of payment.

## 5. Patent Rights

The Selected Agency shall indemnify the Tendering Authority against all third-party claims of infringement of patent, trademark or rights arising for use of the Software provided/developed by them.

## 6. Deliverables, Time Schedule and Payment Terms for Job Completion:

The deliverables are working solution and services as given in Section-III(3) and Time Schedule shall be as given in Section-III(2). All payments in Indian Rupees, subject to applicable taxes.

### 6.1. Payment Terms:

(a) Payment shall be made by the MIDC to the Selected Agency on against specific milestones or deliverables as defined in the Scope of Work (Section-III(3)).

(b) Payment to the Agency shall be made in Indian Rupees as per followings:

- i. After satisfactory completion of Phase wise deliverable/milestone as described in Section-III(3)-Scope of Work.
- ii. The T.D.S. and any other taxes shall be deductible from the above payments as per prevailing tax rules at the time of payment.

## 7. Prices :

Unit Prices for different types of resource services payable to the Service Provider as stated in the Contract shall remain fixed during the performance of the contract. However, in the event of any increase/decrease in Government taxes/duties as applicable at the time of delivery, the prices shall be adjusted at the time of payment on submission of their proof by the selected Service Provider to the MIDC. In case of discrepancy in the price quoted in words and in figures, price quoted in words shall prevail.

**Payment shall be done to Selected Agency as quoted by them for works performed as per Scope of Work.**



**9. Contract Amendments:**

Either party may propose amendments to this contract. Proposals for amendments must be submitted in writing and include a detailed description of the proposed changes, along with the rationale. Both parties will review proposed amendments within 30 days of submission. Amendments will become effective only upon signing by authorized representatives of both parties.

**10. Assignment:**

The Selected Agency shall not assign, in whole or in parts its obligations to perform under the Contract to any other firm except with MIDC's prior written consent.

**11. Delay in the Bidder's Performance for Job Completion:**

- (a) If at any time during execution of the Contract, the selected Agency should encounters conditions impeding timely delivery of the Services, the selected Agency shall promptly notify MIDC in writing of the fact of the delay, it's likely duration and its cause(s). As soon as practicable after receipt of the Agency, MIDC shall evaluate the situation and may, at its discretion after consultation with the Department of Land Records and Survey, Government of Meghalaya, extend the selected Agency time for execution with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Work order.
- (b) Except as provided under conditions of contract Clause-14 of Section-II, a delay by the selected Agency in the execution of its delivery obligations shall render the selected Agency liable to the imposition of liquidated damages pursuant to conditions of Contract unless an extension of time is agreed upon pursuant to conditions of Contract without the application of liquidated damages.

**12. Liquidated Damages :**

The selected Agency will have to meet the deadline for completing the work else 'LATE PENALTY' will be imposed on the Agency. If the selected Agency fails to deliver the services within the period(s) specified in scope of work of the Bid, MIDC shall, without prejudice to its other remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.5% of the Contract Value for each week or part thereof delay until actual delivery, up to a maximum deduction of 10%. Once the maximum penalty is reached, MIDC may consider termination of the Contract/Work order and forfeit the security amount in full.



### **13. Termination for Default:**

The MIDC may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the selected Agency terminate the Contract in whole or part:

- (i) If the selected Agency fails to deliver any or all of the Services within the period(s) specified in the Contract, or within any extension thereof granted by the MIDC;
- (ii) If the selected Agency fails to perform any other obligation(s) under the Contract. In such a case, the performance security i.e. security submitted at the time of empanelment or any extension thereto by the Agency may be forfeited and its contract for the services will be cancelled.

### **14. Force Majeure:**

For Purposes of this clause, "Force Majeure" means an event beyond the control of the selected Agency and not involving the selected Agency fault or negligence and not foreseeable. Such events may include but are not restricted to acts of the Agency either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, pandemics, quarantine restrictions and freight embargoes (Earthquake, Natural Disasters, Riots). Force Majeure shall not include any events caused due to acts/omissions of such selected Agency or result from a breach/contravention of any of the terms of the Contract, Bid and/ or the Techno-commercial Offer. It shall also not include any default on the part of a selected Agency due to its negligence or failure to implement the stipulated/proposed precautions, as were required to be taken under the Contract.

In case of a Force Majeure, all Parties, that is, the selected Agency and the MIDC will endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of selected Agency and to minimize any adverse consequences of Force Majeure. For clarity, Force Majeure events do not include financial hardships, market fluctuations, or inability to secure financing. The Agency is expected to take reasonable precautions to prevent and mitigate the effects of such non-includable events.

### **15. Termination for Insolvency:**

MIDC may at any time terminate the Contract by giving written notice to Agency, if the Agency becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Agency, provided that such termination will not prejudice or affect any right of action or



remedy which has accrued or will accrue thereafter to MIDC. The Agency must notify MIDC at the earliest sign of any financial condition that could jeopardize its ability to fulfill contractual obligations. Upon receipt of such notification, MIDC reserves the right to take preventative measures, including but not limited to, contract restructuring or seeking alternative service providers.

#### **16. Termination for Convenience:**

MIDC, by written notice sent to the Agency may terminate the Contract, in whole or in part, at any time for its convenience. Such notice shall be served at least 30 days prior to termination of contract. The notice of termination shall specify that termination is for MIDC's convenience, the extent to which performance of the Agency under the Contract is terminated, and the date upon which such termination becomes effective. In such a situation, the payments will be made for the period solution/services are provided by the Agency as per terms & conditions of the Contract.

#### **17. Settlement of Disputes:**

- 17.1 If any dispute or difference of any kind whatsoever shall arise between MIDC and the Agency in connection with or arising out of the Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 17.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either MIDC or the Agency may give notice to other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 17.3 Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Services under the Contract.
- 17.4 In case of dispute or difference arising between MIDC and the Agency relating to any matter arising out of or connected with this agreement, such dispute or difference shall be settled in accordance with the Arbitration and Conciliation Act 1996. The Arbitral Tribunal shall consist of a sole Arbitrator and the same shall be appointed by the MIDC.
- 17.6 Arbitration proceedings shall be held at Shillong, Meghalaya and the language of the arbitration proceedings and that of all documents and communications between the parties



shall be in English only.

**17.7** The decision of the arbitrator shall be final and binding upon both parties. The cost and expenses of arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.

**17.8** Notwithstanding any reference to arbitration herein.

- (i) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- (ii) MIDC shall pay the Agency any monies due to the Agency.

**18. Limitation of Liability:**

Except in cases of criminal negligence or willful misconduct,

- (a) The Agency shall not be liable to MIDC, whether in contract tort, or otherwise, for any indirect or consequential loss of damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Agency to pay liquidated damages to MIDC; and
- (b) The aggregate liability of the Agency to MIDC, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price.

**19. Governing Language:**

The Contract shall be written in English language. English language of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

**20. Applicable Law:**

The Contract shall be interpreted in accordance with the laws of the Union of India.





**21. Notices:**

Any notice given by one party to the other pursuant to this Contract shall be sent to other party in writing or by email and confirmed in writing to the other Party's address. For the purpose of all notices, the following shall be the address of MIDC and Selected Agency.

Tendering Authority : Meghalaya Industrial Development Corporation Ltd, KISMAT  
Upland Road, Laitumkhrah, Shillong-793003, Meghalaya,  
India  
email: [midcltd@rediffmail.com](mailto:midcltd@rediffmail.com)

Selected Agency : (To be filled in at the time of Contract  
execution)

.....

A notice shall be effective when delivered or on the notice's effective date whichever is later.

**22. Taxes and Duties:**

Bidders shall be entirely responsible for all Government taxes applicable.

**23. Confidentiality:**

The officials deployed for providing services by the Agency shall treat as confidential all data pertaining to records and any other information, obtained during the execution of their responsibilities and thereafter, in strict confidence and shall not reveal such information to any other party. The officials to be deployed at client office for execution of the work shall not be allowed to take away the backup of data on any type of storage media or transmission mode as the same is strictly confidential in nature.

**24. Indemnity:**

The Selected Agency agrees to indemnify and hold the MIDC harmless against all claims, liabilities, and expenses (including legal fees) arising from any breach of intellectual property rights in addition to bodily injury, death, or tangible property damage. This includes direct infringements by the Agency as well as third-party claims.

**25. Contract Period:**

This contract will be initially valid for six months and would be extended further as per requirement of the project.

  
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Meghalaya Industrial  
Development Corporation Ltd,  
Shillong



## **26. Exit Management Schedule:**

### **i. Purpose**

- a) This Schedule sets out the provisions, which will apply on expiry or termination of the agreement/Contract, the Project Implementation, Operation and Management.
- b) In the case of termination of the Project Implementation and/or Operation and Management, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.
- c) The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.

### **ii. Cooperation and Provision of Information**

During the exit management period:

- a) The Agency will allow MIDC or its nominated agency access to information reasonably required to define the current mode of operation associated with the provision of the services to enable MIDC to assess the existing services being delivered.
- b) Promptly on reasonable request by MIDC, the Agency shall provide access to and copies of all information held or controlled by them which they have prepared or maintained in accordance with this agreement/Contract relating to any material aspect of the services provided by the Agency. MIDC shall be entitled to copy of all such information. Such information shall include details pertaining to the services rendered and other performance data. The Agency shall permit MIDC or its nominated agencies to have reasonable access to its employees and facilities as reasonably required to understand the methods of delivery of the services employed by the Agency and to assist appropriate knowledge transfer.

### **iii. Confidential Information, Security and Data**

- a) The Agency will promptly on the commencement of the exit management period, supply to MIDC or its nominated agency the following:
  - Information relating to the current services rendered and customer and performance data relating to the performance of the services;



- All current and updated data as is reasonably required for purposes of MIDC or its nominated agencies transitioning the services to its Replacement Agency in a readily available format;
- All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable MIDC or its nominated agencies, or its Replacement Agency to carry out due diligence in order to transition the provision of the Services to MIDC or its nominated agencies, or its Replacement Agency (as the case may be).

**b)** Before the expiry of the exit management period, the Agency shall deliver to MIDC or its nominated agency all new or up-dated materials from the categories set out in Schedule above and shall not retain any copies thereof, except that the Agency shall be permitted to retain one copy of such materials for archival purposes only.

**c)** Before the expiry of the exit management period, unless otherwise provided, the MIDC or its nominated agency shall deliver to the Agency, all forms of bidder confidential information, which is in the possession or control of MIDC or its nominated agency.

#### **iv. General Obligations of the bidder**

**a)** The Agency shall provide all such information as may reasonably be necessary to effect as seamless a handover as practicable in the circumstances to MIDC or its nominated agency or its Replacement Agency and which the Agency has in its possession or control at any time during the exit management period.

**b)** For the purposes of this Schedule, anything in the possession or control of Agency, associated entity is deemed to be in the possession or control of the Agency.

**c)** The Agency shall commit adequate resources to comply with its obligations under this Exit Management Schedule.

#### **v. Exit Management Plan**

**a)** The Agency shall provide MIDC or its nominated agency with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the Agreement/Contract as a whole and in relation to the Project Implementation, and the Operation and Management phase

**I.** A detailed program of the transfer process that could be used in conjunction with a Replacement Agency including details of the means to be used to ensure continuing provision of the services



throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer;

II. Plans for the communication with such of the bidder's staff, customers and any related third party as are necessary to avoid any material detrimental impact on MIDC's operations as a result of undertaking the transfer.

III. If applicable, proposed arrangements for the segregation of the Agency networks from the networks employed by MIDC and identification of specific security tasks necessary at termination;

IV. Plans for provision of contingent support to MIDC and Replacement Agency for a reasonable period after transfer.

b) In the event of termination or expiry of Agreement/Contract, and Project Implementation, each Party shall comply with the Exit Management Plan.

c) During the exit management period, the Agency shall use its best efforts to deliver the services.

d) Payments during the Exit Management period shall be made in accordance with the Terms of Payment Schedule.

This contract may be terminated under the following conditions: non-performance, insolvency, mutual agreement, or Force Majeure. Upon such termination, the Exit Management Plan as outlined in this section shall be activated to ensure a smooth transition of services and responsibilities.

#### **vi. Transfer of Data**

The Agency shall deliver and certify in writing that it has delivered to the MIDC, a full, accurate and up to date data.

#### **vii. Transfer of Source Code**

The Agency shall deliver, a full, accurate and up to date versions and latest release of source code, but not limited to:

- a. Complete Source Code (with source tree) and associated documentation
- b. Application architecture documentation and diagrams
- c. Release documentation for functional, technical and interface specifications
- d. Source Code and supporting documentation for testing framework tool and performance tool
- e. Full back up of database & application



## **27 Roles and Responsibilities:**

In the event of a disagreement regarding the interpretation of roles and responsibilities, the Agency and MIDC will seek to resolve the dispute amicably through a joint discussion. If unresolved within 30 days, the dispute shall be escalated to senior management. A structured mediation process may be initiated before resorting to legal proceedings.

### **A) Agency**

- a) The Agency is responsible for providing solution as mentioned in this RFP and to comply with all necessary standards and regulations.
- b) Responsible for day-to-day operation of the Application including reporting, issue resolution etc.
- c) The Agency will create and take a sign-off on the documents required at various stages of the survey.
- d) Conduct training to help stakeholders so as to generate maximum benefit out of the project initiative.
- e) Will undertake all the tasks related to hosting, deployment and operation for smooth functioning of Application and project.
- f) The Agency will be responsible for procuring all the necessary software licenses for deployment and running of Application.
- g) Provide periodic backup of the database, software and other related configurations of Application. Backup disks would be provided by the Agency. The Agency shall submit these backup copies to MIDC on fortnightly basis.
- h) All other responsibilities as described in this RFP.
- i) All other works as directed by MIDC as and when required for project operations.

### **B) MIDC**

- a. Review of functional specifications, test documents, acceptance plan, project plans, architecture related to Application.
- b. Project evaluation and monitoring during the term of the Agreement/ Contract.
- c. Assessment, finalization & approval of deliverables as per Table of clause 1.11 of Section-III(3)- Scope of Work in consultation with Agency at the time of release of work order and further during the execution of the project.
- d. Evaluate for Change Requests raised by the bidder and ensuring timely approval of the same.
- e. Continuous monitoring of the project and evaluate the performance of the same on regular



intervals.

f. MIDC will assign its Single Point of Contact for this project.

g. Resolving issues / disputes to the extent reasonable.

h. Payment for invoices raised by the bidder and other obligations as per conditions of the RFP.

i. All other responsibilities as described in this RFP.



**SECTION-III:**

**(1) TECHNICAL BID**

Technical Bid Form

Reference No.: MIDC/EW/TECH/PMC/MAL/

Date: .....

To,  
The Managing Director,  
Meghalaya Industrial Development Corporation Ltd.,  
KISMAT Upland Road, Laitumkhrah,  
Shillong-793003, Meghalaya, India

Dear Sir,

Having examined the Technical Bid Documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide..... (Description of Services) in conformity with the said Bid Documents and made part of this bid, and hereby undertake that we accept all the conditions of the Contract of the Bid document and will deliver the services as per the Schedule of Execution Section-III(2) and Scope of Work and their Acceptance Section-III(3) of the Bid documents. We further undertake that we fulfill the Qualification Requirements as per Section-III(4) and for this purpose we enclose the details. In addition to this, the particulars of our organization such as legal status, details of experience and past performance and the proof for required bid security are furnished with this Bid form.


We further undertake, if our Bid is accepted, to deliver the Services in accordance with the delivery schedule specified in the Schedule of Execution and Scope of Work and their Acceptance Section-III(3).

We further undertake, if our Bid is accepted, to take payment against delivering the Services in according to payment terms given in condition of contract (Section-II).

Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

All the terms and conditions of the Tender Document are acceptable to us.

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 1998".

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.



We understand that you are not bound to accept the any Bid you may receive. Dated this ..... day  
of ..... 20.....

**(Signature)**

**(in the capacity of)**

**Date:**

**Duly authorized to sign Bid for and on behalf of**

---

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong





SECTION-III

....Continued

(2) SCHEDULE OF EXECUTION

Projects/Schedules

As mentioned in Clause 1.11. of Section-III (3)-Scope of Work.

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong



## SECTION-IV

### SCOPE OF WORK

#### 1.1 BACKGROUND

The Meghalaya Industrial Development Corporation Ltd (MIDC), as the Project Implementing Agency (PIA), is spearheading the Selection of Agency for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project). This pivotal project aims to utilize cutting-edge Aerial Lidar (Light Detection and Ranging) and airborne photogrammetry technologies for the digitization of land boundaries within the state. The initiative is set to redefine the approach to border mapping and surveillance, ensuring unparalleled precision, efficiency, and safety through the adoption of the latest advancements in airborne survey methodologies.

The deployment of these sophisticated technologies is expected to deliver multiple advantages:

- **Increased Accuracy:** By harnessing high-resolution aerial imagery and detailed elevation data, the project will offer unprecedented clarity and insight into the ground and terrain conditions, facilitating more precise boundary delineation.
- **Speed and Efficiency:** The project promises to significantly expedite the mapping process across extensive areas, marking a substantial improvement over conventional surveying techniques.
- **Digital Data Analysis:** It enables an in-depth computational analysis, allowing for the detection of changes and identification of patterns without the necessity of physical site visits.
- **Terrain Accessibility:** The technology ensures the accurate mapping of inaccessible areas, smoothly navigating through challenging terrains that are otherwise difficult to survey.
- **Enhanced Safety:** By reducing the reliance on ground-based survey efforts in potentially hazardous locations, the project significantly lowers the risk to personnel involved.
- **Labor Reduction:** The approach streamlines the surveying process, minimizing the human resources required, thereby reducing the potential for errors and boosting operational efficiency.



## 2. OBJECTIVE

### Mining Data, Geological, Geophysical and Geospatial Survey:

- Plan To Show the boundary of the Pilot Project for which final Mine closure is to be prepared in National Grid.
- Surface Plan showing the surface features like Shaft/Pits/Inclines/Box Cuts, Road, Nala, buildings of historical importance and other important surface features which is required to be protected in National Grid.
- Layout Plan/working plan showing the pillars and galleries within the Pilot Project Area and their extent of development and depillaring.
- Details of the mining parameters:
  - ✓ Dimension of Shaft/ Incline/ Pit/ Box Cut
- X-section of Incline (Height x width) and length of incline
  - ✓ Dimension of Pillars & Galleries
  - ✓ Pillar size (Length x Width)
  - ✓ Gallery size (Width x Height)
- Degree of gassiness (if available)
- Year of opening of the mine / project & year of discontinuance of mine / project
- Seam thickness range & quality of coal
- Lithology of strata in the pilot project area
- Any history of subsidence in pilot project area or around it

#### I. Plan to Show the Boundary of the Pilot Project

**Objective:** To clearly define and illustrate the boundary of the project area for which the final mine closure plan is being prepared.

- **Format:** Map or CAD drawing in National Grid coordinates.
- **Details to Include:**
  - **Boundary Lines:** Clearly marked boundaries of the pilot project area.
  - **Coordinate System:** Use a National Grid coordinate system for accurate location referencing.
  - **Legend:** Include a legend to explain symbols and boundary lines.
  - **Scale:** Ensure the map is to scale for accuracy.

**Deliverable:** Digital and printed copies of the boundary plan in National Grid coordinates.

#### II. Surface Plan Showing Surface Features

**Objective:** To document and protect important surface features within the project area.

- **Format:** Map or CAD drawing in National Grid coordinates.
- **Details to Include:**



- **Shafts/Pits/Inclines/Box Cuts:** Location and dimensions.
- **Roads and Access Routes:** Existing roads and any planned changes.
- **Nala (Streams/Rivers):** Location and impact assessment.
- **Buildings of Historical Importance:** Location and preservation status.
- **Other Important Surface Features:** Any other features requiring protection.
- **Scale:** Ensure the map is to scale with clear annotations.

**Deliverable:** Digital and printed copies of the surface plan, including all relevant surface features.

### III. Layout Plan/Working Plan

**Objective:** To provide an overview of underground workings, including pillars and galleries.

- **Format:** Map or CAD drawing in National Grid coordinates.
- **Details to Include:**
  - **Pillars and Galleries:** Location, extent, and development status.
  - **Extent of Development and Depillaring:** Status of mining activities.
  - **Cross-Sectional Views:** If necessary, provide cross-sectional views showing the layout of pillars and galleries.
- **Scale:** Ensure the map is to scale with clear annotations.

**Deliverable:** Digital and printed copies of the layout plan, showing all pillars and galleries.

### IV. Details of Mining Parameters

**Objective:** To provide essential details about the mining operations and conditions.

- **Dimension of Shaft/Incline/Pit/Box Cut:**
  - **Shaft/Incline/Pit/Box Cut Dimensions:** Provide width, height, and depth measurements.
  - **X-Section of Incline:** Provide cross-sectional dimensions (Height x Width) and the length of the incline.
- **Dimension of Pillars & Galleries:**
  - **Pillar Size:** Length x Width.
  - **Gallery Size:** Width x Height.
- **Degree of Gassiness:**
  - **Data Availability:** Provide details if available, including any historical gassiness records.
- **Year of Opening and Discontinuance:**
  - **Year of Opening:** When the mine or project commenced operations.
  - **Year of Discontinuance:** When mining activities ceased.



- **Seam Thickness Range & Quality of Coal:**
  - **Seam Thickness:** Range of coal seam thicknesses.
  - **Quality of Coal:** Describe coal quality attributes (e.g., grade, calorific value).
- **Lithology of Strata:**
  - **Stratigraphy:** Details on the geological layers present in the pilot project area.
- **History of Subsidence:**
  - **Subsidence History:** Any recorded instances of subsidence in the pilot project area or nearby.

**Deliverable:** Detailed documentation in text format, supplemented with diagrams and cross-sectional views where necessary.

### Summary of Deliverables

#### 1. **Boundary Plan:**

- Format: Map/CAD drawing in National Grid coordinates.
- Deliverable: Digital and printed copies.

#### 2. **Surface Plan:**

- Format: Map/CAD drawing showing surface features.
- Deliverable: Digital and printed copies.

#### 3. **Layout/Working Plan:**

- Format: Map/CAD drawing of underground workings.
- Deliverable: Digital and printed copies.

#### 4. **Mining Parameters:**

- Format: Detailed text document with diagrams and cross-sections.
- Deliverable: Digital document.

### 2.1. REQUIREMENTS TO BE FOLLOWED

- a. Adherence to established guidelines and regulatory requirements for mine restoration.
- b. Compliance with best practices in geospatial data collection and management.
- c. Mandatory use of National Grid coordinates for all documentation to ensure accuracy.
- d. Alignment with safety regulations and environmental protection mandates for responsible and sustainable project execution.



## 2.2. ASSURANCE OF QUALITY

- a. Implementation of quality assurance processes to ensure integrity and accuracy of all data and maps.
- b. Conducting regular audits and reviews to verify adherence to project specifications and standards.
- c. Engagement of qualified professionals and utilization of state-of-the-art equipment for data collection and analysis.
- d. Establishment of rigorous checks and balances to monitor progress and quality of deliverables at every stage.

## 3. EXPECTED OUTCOMES

The project aims to achieve the following outcomes:

- a. Delivery of a comprehensive set of detailed and accurate maps and documents for mine closure and restoration.
- b. Provision of robust data to enable decision-makers to accurately assess and strategize mine closure procedures.
- c. Mitigation of environmental impacts and enhancement of safety and stability in mine-affected areas.
- d. Contribution to regional ecological restoration initiatives by providing a model for similar efforts.



#### 4. SCOPE OF WORK:

##### A. Topographical Survey and Mapping Using Aerial Technology for Coal and Non-Coal Mining Areas

Objective: To conduct a topographical survey and create detailed maps of four designated locations affected by coal and non-coal mining in Meghalaya using aerial technology. The survey will support land reclamation efforts by providing accurate topographical data.

##### 1. Survey Requirements: Aerial Technology and Methods

- **Aerial Survey Technology:** Specify the aerial technology to be used, such as:
  - Drones (Unmanned Aerial Vehicles, UAVs): Equipped with high-resolution cameras and GPS.
  - Aerial Photogrammetry: Utilizing aircraft or drones to capture overlapping images for 3D modelling.
- **Flight Planning:** Design flight paths, altitude, and camera angles to ensure comprehensive coverage of each site. Plan for multiple flight sessions if necessary.
- **Data Collection:**
  - Imagery: Capture high-resolution images of the sites from multiple angles.
  - Lidar: (if applicable) Use Lidar technology to obtain precise elevation data and create detailed 3D models.

##### 2. Data Processing and Analysis

- **Image Processing:** Use photogrammetry software to stitch images together and generate orthophotos (georeferenced aerial images) and 3D terrain models.
- **Data Analysis:** Analyze the collected data to extract topographical features such as contours, slopes, and elevation changes.
- **Quality Control:** Perform checks to ensure data accuracy and completeness, including verification against ground control points.

##### 3. Deliverables

- **Topographical Maps:** Provide detailed topographical maps for each of the four locations, including:
  - **Orthophotos:** High-resolution, georeferenced aerial images.
  - **Contours and Elevation Data:** Maps showing elevation contours and 3D terrain models.
  - **Erosion and Impact Areas:** Identification of erosion-prone areas and impacts of mining activities.



- **Data Files:** Deliver raw data files, processed images, and digital terrain models in commonly used formats (e.g., Geo TIFF, LAS/LAZ for Lidar data).
- **Report:** Prepare a comprehensive report including:
  - **Survey Overview:** Objectives, methods, and site descriptions.
  - **Data Interpretation:** Analysis of topographical features and implications for land reclamation.
  - **Recommendations:** Suggestions for reclamation activities based on the survey findings.

## **B. Water quality monitoring Requirements:**

Water quality monitoring involves measuring various parameters to ensure that water is safe for consumption and meets environmental standards. Here's a brief overview of each parameter you've listed:

### **1. Dissolved Oxygen (DO):**

- **Importance:** Essential for aquatic life. Low levels can indicate poor water quality or pollution.
- **Measurement:** Typically expressed in mg/L or %. Normal levels range from 5 to 14 mg/L depending on temperature and other factors.

### **2. Biochemical Oxygen Demand (BOD):**

- **Importance:** Measures the amount of oxygen required by aerobic microorganisms to decompose organic matter. High BOD indicates high levels of organic pollution.
- **Measurement:** Expressed in mg/L. Values above 5 mg/L are considered high, indicating significant pollution.

### **3. Chemical Oxygen Demand (COD):**

- **Importance:** Indicates the amount of oxygen needed to chemically oxidize organic and inorganic substances. Higher COD values suggest higher levels of pollution.
- **Measurement:** Expressed in mg/L. COD is usually higher than BOD because it measures a broader range of substances.

### **4. pH:**

- **Importance:** Indicates the acidity or alkalinity of the water. pH levels affect the solubility of nutrients and metals, influencing aquatic life.
- **Measurement:** pH scale ranges from 0 to 14. Neutral pH is 7; values below 7 are acidic, and above 7 are alkaline. Most aquatic life thrives between pH 6.5 and 8.5.

### **5. Turbidity:**

- **Importance:** Measures water clarity. High turbidity can indicate the presence of suspended particles that can harm aquatic life and affect water treatment processes.





- **Measurement:** Expressed in NTU (Nephelometric Turbidity Units). Higher values indicate murkier water.

## 6. Turbidity:

- **Iron:** Essential in small amounts but can be problematic in high concentrations, leading to staining and water treatment issues.
- **Arsenic:** Toxic even at low concentrations. Long-term exposure can lead to serious health problems.
- **Manganese:** Can cause staining and taste issues; high levels can affect health.
- **Lead:** Highly toxic, especially to children. Even small amounts can cause health issues.
- **Chromium:** Depending on its form, it can be toxic. Chromium VI is particularly harmful.

Monitoring these parameters helps in assessing the overall health of water bodies and ensuring compliance with environmental standards. Regular testing and data analysis are crucial for managing water quality and addressing any potential issues.

## C. Geotechnical Investigation

**Objective:** To conduct a thorough geotechnical investigation to support the development of a Detailed Project Report (DPR) for land reclamation in both coal and non-coal mining areas. The investigation will assess site conditions and provide recommendations for effective and sustainable reclamation.

### Geotechnical Investigation Requirements:

#### 1. Site Characterization

- **Geological and Geotechnical Mapping:** Conduct detailed geological and geotechnical mapping to identify soil and rock types, geological structures (faults, fractures), and previous mining impacts.
- **Drilling and Sampling:** Implement drilling programs to collect soil and rock samples from various depths. Sampling should cover both areas affected by coal mining and non-coal mining.
- **Laboratory Testing:** Perform laboratory tests on collected samples to determine:
  - Soil classification and compaction properties
  - Rock strength and deformability (unconfined compression, triaxial tests)
  - Shear strength parameters (cohesion, angle of internal friction)
  - Permeability and porosity

#### 2. Stratigraphy and Structural Analysis

- **Coal and Non-Coal Material Evaluation:** Assess the properties and distribution of both coal and non-coal materials remaining or deposited on the site.
- **Structural Analysis:** Analyze the stability of the existing rock and soil structures, including potential failure surfaces and the impact of previous mining activities.



### 3. Slope Stability and Ground Control

- **Slope Stability Analysis:** Evaluate the stability of natural and man-made slopes within the site, including the potential for landslides or subsidence.
- **Ground Control Measures:** Develop recommendations for ground stabilization, including support systems or engineering controls needed to ensure safe reclamation.

### 4. Hydrogeology

- **Groundwater Assessment:** Analyse groundwater conditions, including flow patterns, water levels, and quality. Assess the impact of groundwater on reclamation efforts.
- **Dewatering Requirements:** Determine any necessary dewatering measures to manage groundwater during reclamation.

### 5. Environmental Impact and Risk Assessment

- **Environmental Impact Analysis:** Assess the potential environmental impacts of reclamation activities, including effects on local ecosystems, soil erosion, and potential contamination.
- **Risk Assessment:** Identify geotechnical risks associated with reclamation, such as subsidence, instability, or groundwater contamination, and propose risk management strategies.

### 6. DPR Development Support

- **Data Integration:** Provide geotechnical data and analysis to support the development of the DPR, including site conditions, proposed reclamation methods, and risk management plans.
- **Recommendations:** Offer recommendations for reclamation strategies, including soil treatment, slope design, and vegetation plans.

### 7. Reporting and Documentation

- **Geotechnical Report:** Prepare a comprehensive report including:
  - Site characterization
  - Test results and analysis
  - Recommendations for reclamation
  - Risk management strategies
- **DPR Contributions:** Contribute relevant geotechnical sections to the DPR, ensuring all technical details are accurately represented.

#### Deliverables:

- **Draft Report:** Submit a draft of the geotechnical report for review and feedback.
- **Final Report:** Deliver the final geotechnical report incorporating feedback from the draft review.
- **Data and Maps:** Provide raw data from tests, geotechnical maps, and other relevant documentation.



## D. Soil Analysis for Coal and Non-Coal Mining in Meghalaya

**Objective:** To conduct a comprehensive soil analysis to support the reclamation and restoration of mining-affected areas in Meghalaya. The analysis will focus on chemical and physical soil parameters to assess soil fertility and suitability for the development of natural species.

**Site Description:** Outline the locations of coal and non-coal mining activities in Meghalaya that will be studied. Include details about the extent of mining impacts and the goals of reclamation or restoration efforts.

**Purpose:** To evaluate soil conditions and guide reclamation strategies to promote the growth of natural species and restore ecological balance.

### Soil Analysis Requirements

#### 1. Soil Sampling

- **Sampling Plan:** Develop a plan for soil sampling, including the number of sampling locations, depths, and frequency. Ensure coverage of both impacted and reference (unaffected) sites.
- **Sampling Methods:** Collect soil samples using standardized methods to ensure representativeness and consistency. Document sampling locations and conditions.

#### 2. Chemical Parameters:

- **Nitrogen (N):**
  - **Importance:** Essential nutrient for plant growth. Low levels can limit plant development.
  - **Testing Method:** Use methods such as Kjeldahl digestion or Dumas combustion for total nitrogen content.
- **Phosphorus (P):**
  - **Importance:** Critical for energy transfer in plants. Deficient phosphorus can hinder plant growth.
  - **Testing Method:** Employ extraction methods such as Bray-P1 or Olsen for available phosphorus.
- **Potassium (K):**
  - **Importance:** Key for plant metabolism and stress resistance. Insufficient potassium can affect plant health.
  - **Testing Method:** Use extraction methods such as ammonium acetate for potassium levels.
- **Organic Carbon:**
  - **Importance:** Influences soil fertility, structure, and microbial activity. High organic carbon improves soil health.
  - **Testing Method:** Determine using methods like Walkley-Black or dry combustion.



- **pH:**
  - **Importance:** Affects nutrient availability and microbial activity. Soil pH should be optimal for plant growth (usually between 6.0 and 7.5).
  - **Testing Method:** Measure using a pH meter in a soil-water slurry.
- **Electrical Conductivity (EC):**
  - **Importance:** Indicates soil salinity. High EC can affect plant growth by causing osmotic stress.
  - **Testing Method:** Measure using an EC meter in a soil-water extract.

### 3. Physical Parameters

- **Soil Texture:**
  - **Importance:** Affects water retention, drainage, and nutrient availability. Soil texture influences plant growth and soil management practices.
  - **Testing Method:** Analyse soil texture using particle size distribution techniques such as the hydrometer method or sieve analysis.
- **Bulk Density:**
  - **Importance:** Indicates soil compaction and porosity. High bulk density can restrict root growth and water infiltration.
  - **Testing Method:** Measure using the core method or clod method.
- **Soil Moisture:**
  - **Importance:** Affects plant water availability. Proper moisture levels are crucial for seed germination and plant growth.
  - **Testing Method:** Measure using gravimetric methods or moisture sensors.

### 4. Data Analysis and Interpretation:

- **Data Analysis:** Analyze the collected data to evaluate soil fertility and suitability for plant growth. Identify deficiencies or imbalances in nutrient levels.
- **Soil Health Assessment:** Assess overall soil health based on chemical and physical parameters. Compare results with reference or baseline conditions.

### 5. Reporting

- **Soil Analysis Report:** Prepare a comprehensive report including:
  - Summary of sampling locations and methods
  - Results of chemical and physical tests
  - Interpretation of data in the context of soil fertility and reclamation needs



- Recommendations for soil amendments or management practices to enhance soil quality and support natural species development.
- **Recommendations:** Provide specific recommendations for soil treatment or amendments based on the analysis to improve soil conditions and promote successful reclamation.

## 6. Deliverables

- **Draft Report:** Submit a draft report for review and feedback.
- **Final Report:** Deliver the final report incorporating any feedback from the draft review.
- **Raw Data:** Provide raw data from laboratory analyses and field observations.

## E. Geophysical Survey for Coal and Non-Coal Mining for the purpose of Land Reclamation in Meghalaya

- **Objective:** To conduct a detailed geophysical survey using various methods to support land reclamation efforts for both coal and non-coal mining areas in Meghalaya. The survey aims to characterize subsurface conditions, identify potential issues, and guide reclamation strategies.

### 1. Geophysical Survey Methods

#### Survey Planning

- **Survey Design:** Develop a detailed survey plan that includes the selection of geophysical methods, survey grid layout, and sampling points. Consider site-specific factors such as geology, previous mining activities, and reclamation goals.
- **Permits and Approvals:** Obtain necessary permits and approvals for conducting geophysical surveys in the target areas.

### 2. Geophysical Methods:

- **Electrical Resistivity Tomography (ERT):**
  - **Purpose:** To map subsurface resistivity variations and identify areas of contamination, voids, or other anomalies.
  - **Method:** Deploy electrodes along survey lines and measure resistivity using current and potential difference.
  - **Application:** Useful for detecting changes in soil moisture, contamination zones, and identifying subsurface structures.
- **Purpose:** To determine the depth and characteristics of subsurface layers by measuring the speed of seismic waves.
- **Method:** Generate seismic waves using a source (e.g., hammer or explosive) and record arrival times at various geophones.
- **Application:** Useful for determining bedrock depth, layer thickness, and subsurface material properties.



### 3. Electromagnetic (EM) Surveys:

- **Purpose:** To detect variations in the electromagnetic properties of the subsurface.
- **Method:** Use an EM sensor to measure the response of the ground to an electromagnetic field.
- **Application:** Effective for mapping conductivity variations and detecting contamination of groundwater flow.

### 4. Data Collection and Analysis:

- **Data Acquisition:** Conduct surveys according to the designed plan, ensuring proper calibration and quality control.
- **Data Processing:** Process the collected data to create subsurface models, maps, and profiles. Use specialized software to analyse and interpret geophysical results.
- **Integration:** Integrate geophysical data with other site information (e.g., geological, hydrological) to provide a comprehensive understanding of subsurface conditions.

### 5. Reporting:

**Geophysical Survey Report:** Prepare a detailed report including:

- Summary of survey objectives, methods, and findings
- Processed data and interpretations
- Subsurface models, maps, and profiles
- Identification of potential issues (e.g., contamination zones, voids)
- Recommendations for land reclamation based on survey results
- **Presentation:** Prepare a presentation summarizing key findings and recommendations for stakeholders.

### 6. Deliverables

- **Draft Report:** Submit a draft report for review and feedback.
- **Final Report:** Deliver the final report incorporating feedback from the draft review.
- **Data and Maps:** Provide raw data, processed results, and geophysical maps.



## **F. GIS based web platform**

Hosting of the above survey outputs and mine analytics as per scope on cloud-based platform for data access & 2D/3D visualization. The platform should have the below features:

- 2D/3D View
- Cross-Section Generation
- Distance and area measurement
- Overlay boundaries and vector layers
- Download and export data outputs
- Zoom-in and zoom-out
- User access.
- The platform must be hosted on MEITY empanelled cloud service provider.
- Training of 30 personnel from MCL in using 3D web GIS cloud-based platform.

## **G. Project Site Description**

This section provides detailed information about the geographical and geological characteristics of the locations involved in the project. This data is essential for planning the scope of work and ensuring that the survey and analysis are tailored to the specific conditions of each site.

### **1. Geographical Location:**

- Region: Meghalaya, India
- Coordinates:
  - 25°37'46"N 89°59'37"E
  - 25°25'29"N 90°45'19"E
  - 25°27'12"N 91°49'15"E
  - 25°22'26"N 92°25'38"E

### **2. Accessibility:**

- Nearest Town/City: Tura & Cherrapunji

### **3. Mining Area Specifications:**

- Area Size:
  - Total Area: 120-150 hectares (covering all 4 sites)
- Number of Sites: 4
- Boundary Coordinates: Coordinates will be provided to the successful bidder

### **4. Topography:**

- Terrain Description: Hilly and mountainous



**5. Geological Information:**

- Mineral Deposits: Coal and Limestone
- Geological Features: Varied rock types specific to each site:



**Site 1: Sutnga**



**Site 2: Cherrapunji**



**Site 3: Tura 1**



**Site 4: Tura 2**






**SECTION-V**  
**MINIMUM QUALIFICATION REQUIREMENTS**

**5.1. PRE-QUALIFICATION CRITERIA**

Sl. No	Type	Eligibility Criterion	Eligibility Criterion Documentary Evidence
1	Bidder Company Profile	The Bidder should be a legal entity registered under Indian Companies Act, 1956/2013 in India and in operations for a period of at least last 5 (five) years as on last date of submission of bid. Joint Venture is not allowed.	<ul style="list-style-type: none"><li>• Certificate of Registration/ Incorporation under Companies Act 1956/2013.</li><li>• MOA/AOA</li></ul>
2	Bidder Company Financials Turnover	Bidder should have a minimum average annual turnover of INR 2 Crores in the last three (3) Financial Years including current financial year (FY 2021-22, 2022-23 and 2023-24)	<ul style="list-style-type: none"><li>• Audited Balance sheet duly certified by Statutory Auditor/Chartered Accountant with UDIN mentioned should be submitted for financial year (FY 2021-22, 2022-23 and 2023-24)</li><li>• CA certified net worth certificate should be submitted as a proof.</li><li>• CA certified Turnover certificate</li></ul>
3	Bidder Company Financials Net worth	Bidder should have positive Net worth in last 3 Financial years (FY 2021-22, 2022-23 and 2023-24)	Statutory auditor's certificate / Chartered Accountant certificate clearly specifying the Net worth for the specified years.
4	Anti Blacklisting / Barring	As on date of submission of the Bid, the Bidder shall not be blacklisted/ barred by Central Government or any state Government or their Agencies in India including PSUs.	The Bidder shall provide: Self – declaration on Non-Judicial Stamp Paper of Rs.100 stating that the Bidder is not Blacklisted.
5	Bidder Work Experience	The bidder must have completed at least one service contract, in their name, valued over Rs. 2 Crores, which involved the capture of Aerial/UAV/satellite data. This contract must have been executed for a State Government, Central	Bidder should submit duly signed & stamped evidence i.e., the copy/copies of work order/completion certificate issued by the concerned department/ organization.

  
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		Government, or Public Sector Undertaking (PSU).	
6	Bidder Company PAN & GST Registration	The Bidder should have a PAN & valid Active GSTIN.	GSTIN registration certificate & PAN Copy
-	Bidder company Support Office	The bidder should have its office in Meghalaya. If the bidder does not have its office in Meghalaya, then the bidder must have to open its office in Meghalaya within 15 days from the date of award & inform the complete details of Single Point of contact	Document certifying Local office / Undertaking to open office within 15 days
8	Technically Manpower	The bidder must have on its roll at least 20 technically qualified professionals (BCA/MCA/BTech/MBA equivalent or higher) to perform the services as per RFP	Self-certification signed by HR head and counter signed by Authorized signatory including Qualification details of staff to be mentioned
9	Tender Fee	The bidders should submit the Tender Fee before at the time of submission of Bid otherwise their bids shall be rejected.	Payment Proof / Details
10	Technical Proposal	Approach & Methodology, Proposed Technology and plan to execute the work	Submit a well drafted technical proposal as per requirements.
11	Sublet	The successful bidder will not be allowed to sublet the contract in full to any other agency / vendor. If situation warrants for subletting of Part Contract, then the successful bidder will have to take prior permission of Nodal Agency for acting upon the same	Undertaking for the same

Bidders are required to submit all supporting documents for the above criteria with sign and stamp and will be considered for further technical & financial evaluation.

## **5.2. TECHNICAL EVALUATION CRITERIA**

Following will be the technical evaluation methodology

1. Technical bids will only be evaluated for those bidders who meet the pre-qualification criteria specified in Clause 4.1.
2. Bidders who do not qualify in technical bid evaluation will have their financial bids remain unopened and



excluded from further consideration.

3. The scores from the technical evaluation will be disclosed before the opening of financial bids to maintain transparency in the evaluation process.

4. Technically qualified bidders will be notified about the date and location for the opening of financial bids via email.

### Technical Score Parameters:

Sl. No	Parameters	Maximum Marks	Required Documents
1	The bidder should have completed Aerial based lidar survey work for a mining area including EIA and cloud-based data visualization & analysis for any Govt/PSU organizations in the last 3 years ending FY 2023-24:  i) 4 Cr. To 6 Cr.: 20 Marks ii) 2 Cr. to 4 Cr.: 10 Marks	20 marks	Relevant Copy of work order and completion certificate, Completion Certificate should be published at least 1 month before the tender publishing date.
2	The bidder should have completed at least one Geotechnical investigation work including water quality monitoring/ Hydrology for any Govt/PSU organizations in the last 3 years ending FY 2023-24 where test reports attested by NABL accredited lab.  i) 5 lakhs -20 Lakhs: 5 Marks ii) Above 20 Lakhs: 10 Marks	10 marks	Relevant Copy of work order and completion certificate
3	The Average Annual Turnover of the Bidder for the last 3 years ending 31st Mar 2024 will be evaluated as follows, for a maximum of 10 marks:  i) Average Annual Financial Turnover greater than 3 Cr. = 10 Marks ii) Average Annual Financial Turnover 2 Cr. To 3 Cr. = 5 marks	10 marks	Balance sheet of Last 3 years (2021-22, 2022-23 & 2023-24) and ITR.
4	Manpower: i) Project Manager with 5 years of Experience – 1 No. (5 Marks) ii) GIS/ Geo Informatics Expert with min. 3 years' Experience: 2 nos. (1 mark for each) iii) Pilot - 1 DGCA approved pilot. iv) Surveyor with 3 years of experience: 1	15 marks	An Undertaking from HR along with qualification documents and PF proof needs to be submitted



no. (2 mark each)			
5	Equipment: i) At least 2 No of Drones with Valid UIN listed on Digital Sky Platform (in the name of company) = 5 marks ii) Set of DGPS- 2.5 mark for each up to max. 5 Marks iii) High end processing workstation 2 System = 5 marks a)	15 marks	Relevant Proof should be submitted
6	Technical Approach & Methodology: The assessment of the bidder's proposed technical strategies, techniques, and methodologies for executing the project.	15 marks	
7	Organization & Staffing: Review of the organizational structure, team composition, and qualifications of personnel allocated for the project.	5 marks	
8	Work Plan: Evaluation of the comprehensive plan outlining the project's timelines, milestones, and key deliverables.	10 marks	
Total Marks		100 marks	

**NOTE:**

1. Credentials of Parent company or subsidiary company shall not be considered for evaluation. Bids of those Bidders who fail to qualify above mentioned requirements, would be summarily rejected & their Financial bid would not be opened. Joint Venture is not allowed.
2. The bids found to be not responsive and not fulfilling any of the above conditions, conditional technical/financial bids and not meeting Technical Specifications and Qualification requirements to the satisfaction of purchase committee shall be rejected. The bids of bidders mentioning any of their conditions which are not mentioned in the Tender document or are not in conformity with the conditions of the contract shall be rejected. The evaluation of Technical bids shall be done based on supporting documents on above criteria points.



**4.3. DELIVERABLES & TIMELINES:**

**T is the work order date**

Phase	Task	Duration (T for Timeline)
<b>Phase 1: Project Preparation</b>		<b>2 weeks</b>
1. Initial Planning and Coordination	Define objectives, assemble team, develop project plan	T + 1 week
2. Site Assessment and Permitting	Preliminary site visits, obtain permits, review data	T1 = T + 2 weeks
<b>Phase 2: Field Survey and Investigation</b>		<b>1 week</b>
1. Site Preparation	Mobilize equipment, set up logistics	T2 = T1 + 1 week
<b>i. Field Surveys</b>		<b>5 weeks</b>
a) - Topographical Survey	Map terrain and features	T2 + 1 weeks
b) - Geological Survey	Assess soil, rock types, mining impacts	T2 + 2 weeks
c) - Geophysical & Environmental Survey	Evaluate vegetation, water sources, wildlife	T3 = T2 + 3 weeks
d) - Soil and Water Sampling	Collect samples for lab analysis	T2 + 2 weeks
2. Data Analysis and Preliminary Reporting	Analyse data, draft preliminary findings	T4 = T3 + 2 weeks
<b>Phase 3: Data Review and Final Reporting</b>		<b>2 weeks</b>
1. Data Review and Interpretation	Review data, interpret results	T5 = T4 + 1 weeks
2. Final Report Preparation	Compile final report, include recommendations	T6 = T5 + 1 weeks
<b>Phase 4: Stakeholder Engagement and Finalization</b>		<b>2 weeks</b>
1. Stakeholder Meetings	Present findings, gather feedback	T6 + 1 week
2. Final Adjustments and Submission	Revise report based on feedback, submit final report	T6 + 2 weeks



#### 4.4 PAYMENTS:

- a. 20% Mobilization Advance after submission of Aerial Flying permission
- b. 30% on submission of Raw Data based on unit rate and in proportion to area completed at the time of monthly billing.
- c. 30% on submission of deliverables mentioned in BOQ based on unit rate and in proportion to area completed at the time of monthly billing.
- d. 15% on submission of processed data details based on unit rate and in proportion to area completed at the time of monthly billing after acceptance and handover of all data and imageries.
- e. 5% after delivery of Final Report based on unit rate and in proportion to area completed at the time of monthly billing.

**Note: Taxes as applicable shall be deducted at source as per GOI norms.**

#### **Additional Terms**

- **Invoice Submission:** Invoices should be submitted according to the agreed payment schedule, with detailed documentation of the work completed and milestones achieved.
- **Payment Schedule:** Define the payment schedule clearly in the contract, including due dates and any conditions for payments.
- **Currency and Payment Method:** Specify the currency in which payments will be made and the acceptable payment methods (e.g., bank transfer, check).

#### **Payment Schedule**

<b>Payment Stage</b>	<b>Percentage</b>	<b>Timing</b>	<b>Condition</b>
Advance Payment	20%	Upon contract signing	Covers initial setup and mobilization costs.
Pre-Survey Preparation & Field Survey Completion	30%	on unit rate and in proportion to area completed at the time of monthly billing.	After fieldwork and preliminary survey are completed.
Data Analysis and Preliminary Report	30%	on unit rate and in proportion to area completed at the time of monthly billing.	Following analysis and preliminary reporting.
Progress Payments	15%	Periodic (monthly or as agreed)	Based on progress and operational costs.
Final Payment	5%	Upon final report delivery	After final acceptance of all deliverables.

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## SECTION-VI

### TERMS OF REFERENCE

#### 1. Topographical Survey and Mapping Using Aerial Technology

**Objective:** Conduct a topographical survey to generate detailed maps of four designated mining-affected locations in Meghalaya using advanced aerial technology.

##### **Survey Requirements:**

- **Technology:** Utilization of Drones (UAVs) and Aerial Photogrammetry for data acquisition.
- **Flight Planning:** Design and execute comprehensive flight plans to ensure full coverage of each location.
- **Data Collection:** Capture high-resolution aerial images and Lidar data for precise elevation and 3D modeling.

#### 2. Data Processing and Analysis

- **Image Processing:** Employ photogrammetry software to create orthophotos and 3D terrain models from stitched images.
- **Data Analysis:** Detailed analysis of topographical data to identify contours, slopes, and elevation changes.
- **Quality Control:** Implement stringent checks to verify data accuracy, including ground control points.

#### 3. Deliverables

- **Topographical Maps:** Generation of high-resolution maps showing orthophotos, contours, and identified erosion and impact areas.
- **Data Files:** Submission of raw data files, processed images, and digital terrain models.
- **Reports:** Compilation of a comprehensive report detailing survey methods, data interpretation, and actionable reclamation recommendations.

#### 4. Water Quality Monitoring

- **Parameters:** Monitoring of Dissolved Oxygen, BOD, COD, pH, and Turbidity.
- **Objective:** Ensure water safety and environmental compliance by regular monitoring and analysis of water quality.

#### 5. Geotechnical Investigation

**Objective:** Support the creation of a Detailed Project Report (DPR) through comprehensive site assessments.

- **Site Characterization:** Detailed mapping and sampling to analyze soil and rock types, and assess geological structures.
- **Stratigraphy and Structural Analysis:** Evaluation of material properties and structural stability.
- **Slope Stability and Ground Control:** Analysis of slope stability and recommendation of stabilization measures.
- **Hydrogeology:** Assessment of groundwater conditions and management of dewatering processes.
- **Environmental and Risk Assessment:** Evaluate potential environmental impacts and identify geotechnical risks.

  
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## 6. Soil Analysis for Reclamation

- **Objective:** Conduct a detailed soil analysis to evaluate conditions and formulate reclamation strategies.
- **Sampling:** Systematic soil sampling across affected and unaffected areas.
- **Analysis:** Comprehensive chemical and physical analysis to determine soil health and suitability for vegetation.

## 7. Geophysical Survey

- **Objective:** Characterize subsurface conditions to inform land reclamation efforts using various geophysical methods.
- **Methods:** Include ERT, Seismic, and EM surveys to assess subsurface properties and identify potential issues.
- **Data Integration:** Combine geophysical data with geological and hydrological information to provide a holistic understanding of the site conditions.

## 8. GIS-Based Web Platform

- **Objective:** Develop a cloud-based GIS platform to host survey outputs and enable data visualization and analysis.
- **Features:** Incorporation of features like 3D view, cross-section generation, and user access management.
- **Training:** Provide training to personnel on using the GIS platform effectively.

## 9. Project Site Description

- **Geographical and Geological Context:** Detailed description of the project's geographical location, topography, and geological specifics to guide survey planning and data analysis.





SECTION-VIII

**Annexure-I: Cover Letter**

*[To be submitted on Bidder Company's Letterhead]*

Date:

To:

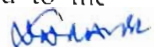
\_\_\_\_\_  
\_\_\_\_\_

Sub:

Dear Sir,

With reference to your RFP document \_\_\_\_\_, we have thoroughly examined the Bidding Documents and hereby submit our Proposal for the specified Project. We assure that our Proposal is both unconditional and unqualified.

1. We confirm that all information provided in our Proposal, including all annexures and accompanying documents, is true, accurate, and either original or a true copy of the original.
2. Our submission is expressly intended to qualify us as the Selection of Agency for Input Data Collection on the Restoration of Mine-Affected Land in Meghalaya (Pilot Project)
3. We commit to providing MIDC Ltd with any additional information deemed necessary to supplement or verify this Proposal.
4. We recognize MIDC's right to reject our Proposal for any reason, without obligation to disclose such reason, and we waive any right to contest this decision.
5. We have reviewed the RFP Document, including any Addendums issued by MIDC Ltd, and have no reservations.
6. We understand that MIDC Ltd reserves the right to cancel the Bidding Process at any stage, is not obligated to accept any Proposal received, nor to proceed with the Project, without bearing any liability towards the Bidders.
7. We believe we fulfill the eligibility criteria and meet all specified requirements detailed in the EOJ document.
8. We irrevocably waive any right we may possess, at any stage and by any legal means, to contest or dispute any decision made by MIDC Ltd regarding the selection of the Bidder or any aspect of the Bidding Process related to the

  
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specified Project, including its terms and execution.

9. We commit to maintaining the validity of this offer for a period of 180 days from the Proposal Due Date as outlined in the RFP, ensuring our readiness to proceed should we be selected.
10. We pledge to comply fully with all stipulations, terms, and conditions set forth in the RFP document, recognizing their binding nature upon our participation and potential engagement in the Project.

We submit this Proposal under and in accordance with the terms of the RFP.

document.

Yours faithfully,

Date:

(Signature of the Authorized signatory)

(Name and designation of the of the Authorized signatory)

Place:

(Name and rubber seal of the Bidder)

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Annexure-II: Certificate of Authorized Signatory

CERTIFICATE AS TO AUTHORIZED SIGNATORIES

Hereby it is certified that I Mr. /Ms. .... Company  
Secretary of the firm/corporation  
....., and that Mr./Ms.  
..... who has signed the above bid are authorized to  
bind the firm/corporation by authorities of its governing body.

(Company Secretary)

Date & Place:

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong



Annexure-III: Particulars of Bidder

Sr. No.	Heads	Particulars
1.	Registered Name of the Firm	
2.	Type of Firm <i>(Proprietary Partnerships / Private/Public)</i> <i>Please enclose self-certified copy of certificate of incorporation</i>	
3.	Complete Address of Registered Office	
4.	Date and Country of Incorporation	
5.	Number of years of operations in India	
6.	Number and locations of offices in India	
7.	Contact person details (Name, Designation, Mobile Number, Email)	
8.	Telephone Number (with ISD & STD Code)	
9.	Fax Number (with ISD & STD Code)	
10.	Brief description of the Firm including details of its main lines of business along with the brief profile of the organization	
11.	Annual turnover <i>(Enclose Certificates duly signed by Chartered Accountant along with seal which should also clearly show the CA's membership number)</i>	
14.	Please attach copy of PAN Card/ GST Registration	
15.	Any other relevant information	

Signature of Authorised

Signatory Name of Designation of Authorised

Signatory Telephone & Mobile Number (with

ISD & STD Code)

Fax Number (with ISD & STD Code)

E-Mail

Address Official seal of

the Company

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong



Annexure-IV: Format for Request for Clarifications

**Bidder's Request For Clarification**

Name of Organization submitting request:	Name & position of person submitting request	Address of organization including phone, fax, email points of contact
<Name of bidding company>	<Name of primary contact person>	Address: Tel: Fax: E-mail:
# Bidding Document Reference (Volume / Section / Page No.)	Content as in EOI requiring clarification	Query / points of clarification required
1		
2		
3		
4		

  
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Annexure V: Bill of Quantities

The selected Bidder will be required to carry out the following tasks:

**Bill of Quantities (BOQ) for Topographical Survey and Mapping**

Item No.	Description of Work	Unit	Quantity	Rate (INR)	Total Cost (INR)
<b>1</b>	<b>Pre-Survey Preparation</b>				
1.1	Site Assessment and Planning, Permissions and Approvals & Equipment Mobilization and Setup	Per site	4		
<b>2</b>	<b>Aerial Survey and Data Collection</b>				
2.1	Drone Survey (per site, including flight planning and execution), High-Resolution Imagery Collection	Per site	4		
<b>3</b>	<b>Data Processing and Analysis</b>				
3.1	Image Stitching and Orthophoto Generation, Point Cloud, 3D Terrain Modelling	per site	4		
<b>4</b>	<b>Map Preparation and Reporting</b>				
4.1	Topographical Map Preparation (per site), Surface Feature Mapping & Final Report Compilation	Per site	4		

**Bill of Quantities (BOQ) for Water Quality Monitoring**

Item No.	Description of Work	Unit	Quantity	Rate (INR)	Total Cost (INR)
<b>1</b>	<b>Pre-Monitoring Preparation</b>				
1.1	Site Assessment and Planning, Equipment Mobilization and Setup, Permissions and Approvals	Per site	4		
<b>2</b>	<b>Water Sampling and Field Testing</b>				
2.1	Water Sample Collection (per site, including transportation), In-Situ Measurements for DO, pH, and Turbidity (per site)	sample	12		
<b>3</b>	<b>Laboratory Analysis, Data Processing and Reporting</b>				
3.1	Laboratory Analysis for Dissolved Oxygen (DO, BOD, COD, ph, Turbidity & Trace Metals),	Sample	12		

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Preparation of Detailed Water Quality Report (per site)					
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Notes:

1. Site Descriptions: The monitoring will be carried out at four different sites within the mining area.
2. Water Sampling: Includes collection, transportation, and handling of samples.
3. Field Testing: In-situ measurements for pH, DO, and turbidity to be conducted at each site.

**Bill of Quantities (BOQ) for Soil Analysis**

1. Pre-Analysis preparation

2.

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
1.1	Site Assessment and Planning, Equipment Mobilization and Setup, Permissions and Approvals	Per site	4		

Soil

**Sampling & Analysis - Chemical Parameters**

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
2.1	Collection and preparation of soil samples & Transport of soil samples to laboratory  -Nitrogen (N), Phosphorus (P), Potassium (K), Organic Carbon, pH, Electrical Conductivity, Soil Texture etc.	Sample	12		

3. Reporting and Data Interpretation

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
3.1	Comprehensive analysis report for all samples & Data interpretation and recommendations	Report	12		

**Bill of Quantities (BOQ) for Geophysical Study**

1. Preliminary Work

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
1.1	Desktop study and review of existing geophysical data, Site reconnaissance and survey planning, Stakeholder consultations and coordination	Lump Sum	4		

2. Geophysical Survey

  
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Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
2.1	Electrical Resistivity Tomography (ERT) Survey (considering Electrode spacing at 10 meters and interline spacing 50 meters)	Meters	50000 (approx.)		

### 3. Data Processing and Analysis

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
3.1	Data processing and inversion (ERT)	Lump Sum	4		
3.2	Data analysis and interpretation & Integration with other geological data	Lump Sum	4		

### 4. Reporting

Item No.	Description	Unit	Quantity	Unit Rate (INR)	Total Cost (INR)
4.1	Preparation of detailed geophysical survey report	Report	4		
4.2	Recommendations for land reclamation and site remediation	Report	4		

### V. Bill of Quantities (BOQ) for Geotechnical Study

<b>Drilling in Soil</b> - Exploratory drilling of boreholes down to required depth, drilling of 150mm dia. boreholes in all type of soils except hard rock & large boulders (boulder core more than 30cm) including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area.	150mm dia. Boreholes of Soil (0-30M)	72	Meter		
<b>Drilling in Rock</b> - Drilling of NX size borehole (75mm dia.) in all types of hard rock and collection of rock core samples from boreholes and preserving in boxes.	NX size borehole 75mm dia. Rock 0-30M	288	Meter		





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<b>Soil Testing</b> - Conducting Laboratory tests on collected Soil SAMPLES as per relevant IS code	Taking out 100mm dia. & 450mm long undisturbed samples of soil as per IS:2720 (Each Samples).	12	Nos.		
	Taking out 100mm dia. & 450mm long disturbed samples of soil as per IS:2720 (Each Samples).	12	Nos.		
	Standard Penetration Test as per IS:2131 at approximate 1.5m (Each Samples).	4	Nos.		
	Moisture Content/Dry Density as Per IS 2720-8 (Each Samples).	48	Nos.		
	Atterberg Limits As per IS 2720 (Each Samples).	48	Nos.		
	Specific Gravity as Per IS 2720 (Each Samples).	48	Nos.		
	Grain size analysis As Per IS 2720 (Each Samples).	48	Nos.		
	Direct Shear Test as Per IS 2720-13 (Each Samples).	48	Nos.		
	Consolidation Test as Per IS 2720 (Each Samples).	48	Nos.		
<b>Rock Testing</b> - Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code	Density Test as Per IS 13030 (Each Samples).	288	Nos.		
	Water Absorption & Porosity as Per IS 13030 (Each Samples).	288	Nos.		
	Hardness As Per IS 10050 (Each Samples).	288	Nos.		
	Modulus of Elasticity as Per IS 9221 (Each Samples).	288	Nos.		
Preparation and submission of Final report giving complete and comprehensive record of investigations, laboratory test reports and calculations in approved format		4.00	Nos.		
Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:1888 Plate size (30 cm x 30 cm)	Plate Load Test (PLT)	4	Nos.		

  
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Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of pH value.	Water pH value	4	Nos.		
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Notes:

1. Site Descriptions: The Study will be carried out at four different sites within the Mining area.
2. Geotechnical work: Includes 3 boreholes at each site with 30 meters of depth & also includes collection, transportation, and handling of samples.
3. Field Testing: In-situ Assuming 20 % of Soil and 80 % of Rock at each site.

Annexure-VI: Summary of Profile of Key Personnel

#	Role	Qualification	Years of Experience	Profile Summary
1.				
2.				
3.				
4.				
5.				
6.				

  
Managing Director  
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Shillong



Annexure-VII: Format for Self-Declarations

**A) Undertaking for availability of Sufficient and Competent Manpower to support the requirements in EO1**

*[To be submitted on Bidder Company's Letterhead]*

Date:

To:

\_\_\_\_\_  
\_\_\_\_\_

Sub: Undertaking for Sufficient Manpower

Dear Sir,

In accordance with eligibility requirements of this tender process, we <name of the bidding firm> wish to declare that, we have more than <number of employees> full time employees on our own payroll, competent to support MIDC's Project to execute and deliver the services as per the envisaged scope of work.

Yours faithfully,

Date:

(Signature of the Authorized signatory)

Place:

(Name and designation of the of the Authorized signatory)

(Name and rubber seal of the Bidder)

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Development Corporation Ltd.  
Shillong



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**B) Format for self-declaration on "No Conflict of Interest"**

*[To be submitted on Bidder Company's Letterhead]*

Date:

To:

\_\_\_\_\_  
\_\_\_\_\_

Sub: Undertaking for No Conflict of Interest

Dear Sir,

In accordance with this EOI document, we <Name of the firm> wish to declare that we do not have any conflict of interest that may affect the current Bidding Process.

Yours faithfully,

Date:

(Signature of the Authorized signatory)

(Name and designation of the of the Authorized signatory)

Place:

(Name and rubber seal of the Bidder)

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong



C) Format for self-declaration on Clean Track Record - No Corrupt/ Fraudulent Practices

Date:

To:

\_\_\_\_\_  
\_\_\_\_\_

Sub: Undertaking of Clean Track Record

Dear Sir,

With reference to the above subject, we hereby wish to inform that, <Name of the Firm> hasn't been debarred by any Central / State Government Department / Institution and there has been no litigation with any Department / PSU / Corporation in Central / State Government which may have any impact on our ability to deliver the project (if awarded) or under a declaration of ineligibility for corrupt or fraudulent practices as on date <insert>.

We hope that this undertaking provided hereinabove shall suffice the purpose. In case you need and further clarification, we would be glad to provide the same.

Yours faithfully,

Date:

(Signature of the Authorized signatory)

(Name and designation of the of the Authorized signatory)

Place:

(Name and rubber seal of the Bidder)

  
Managing Director  
Meghalaya Industrial  
Development Corporation Ltd.  
Shillong