

**EXPRESSION OF INTEREST (EOI)
FOR
DESIGN, MANUFACTURE, ERECT AND INSTALL
75 TPD OF
AUTOMATED MATERIAL RECOVERY FACILITY (MRF)
ALONG WITH
OPERATION & MAINTENANCE (O&M) FOR 10 (+5) YEARS
ON EPC + O&M MODEL
AT AIZAWL, MIZORAM**

DATE OF ISSUANCE: 15TH JULY 2014

ISSUED BY:

**Aizawl Smart City Limited,
MINECO, Khatla, Aizawl, Mizoram**

NOTICE INVITING EOI

EOI ID: No. D.13024/15/2023/CEO/ASCL

Dated: 15th July 2024

The Chief Executive Officer, on behalf of Competent Authority, invites Expression of Interest (EOI) for the following scope of Work:

Name of the Project	Estimated Project Cost (INR)	Earnest Money Deposit (INR)	Pre Bid Meeting	Last date for Bid/ EOI Submission	Date of opening of Technical Bid/EOI
Design, Manufacture, Erect and Install 75 TPD automated Material Recovery Facility (MRF) for Municipal Solid Waste Processing for contract duration of 12 months including O&M.	25,42,29,580/-	35,42,000/-	22 nd July, 2024 at 2:00 Pm.	31 st July, 2024 at 3:00 Pm.	31 st July, 2024 at 3:00 Pm.

Details can be had from the office of Chief Executive Officer, Aizawl Smart City Limited (ASCL), Urban Resource Centre Building, Opp. Directorate of ACB, MINECO, Aizawl Mizoram or visit the website <https://tender.mizoram.gov.in> and aizawlsmartcity.mizoram.gov.in

EOI must be submitted online only at <https://aizawlsmartcity.mizoram.gov.in./page/bidEOI>

Sd/-
(C.C. LALCHHUANGKIMA)
Chief Executive Officer

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CHAPTER 1 – KEY INFORMATION

1.1. Project Background

Solid waste is one of the biggest contributors behind the deteriorating quality of soil across the world. Open burning of solid waste contributes to air pollution. Moreover, unabated disposal of solid waste in freshwater resources results in increased levels of water pollution as well. To control the detrimental effects of solid waste on the environment, solid waste management is an important step. Solid waste management mainly refers to the complete process of collecting, treating and disposing of solid wastes. Different techniques and methodologies are used to manage solid waste in an environmentally-friendly manner thereby reducing its negative impact on the soil, water, air and nature as a whole.

One of the control measures to prevent the negative impacts of solid waste is proper management of solid wastes. Waste can be defined as substances that are disposed of or are disposed of according to the provisions of law. Depending on the physical states of wastes, there are two types of wastes – solid and liquid wastes. Solid wastes are any disposed materials that have resulted from industries, commercial uses, mining, agricultural and household or community activities. In order to classify waste as non-liquid/ solid, it must have 20% of its content as solid and must not liberate any liquids while transporting it. The collection, treatment and disposal of this solid waste in a proper manner is called solid waste management.

1.2. Overview of the Project

1.2.1. Objectives of Project

Following are the major objectives of the project:

- a. Design, Manufacture, Erect and Install 75 TPD Automated MRF for Municipal Solid Waste processing with plastic value addition best suited to the given requirement as per the scope of work defined below within the specified time.
- b. Operate and Maintain the MRF for the period of 10 (+5) years from the date of agreement.
- c. Work towards achieving Zero Waste to Landfill.

1.2.2. Location & Area of Project

Geo-location of the site: 23.7546266, 92.6607607

Approximate Land Area: 11785 Sqm

1.2.3. Contract Period

Construction Period: 12 months from the date of possession of land to successful EOI free of encumbrances and along with applicable clearances.

O&M Period: 10 (+5) years from the date of commissioning of commercial operation of Municipal Solid waste at MRF.

1.2.4. Contact Details of Authority

The Bidder can contact the following for any clarifications on the EOI Document.

Chief Executive Officer, Aizawl Smart City Ltd., (ASCL)

Urban Resource Centre, MINECO, Khatla, Aizawl, Mizoram

Telephone: 0389-2336012

Email: smartcityaizawl@gmail.com

1.2.5. Confidentiality

Information relating to the examination, clarification, evaluation and recommendation for the Bidder shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the Authority in relation to, or matters arising out of, or concerning the EOI Process. The Authority will treat all information, submitted as part of the EOI, in confidence and will require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the Authority or as may be required by law or in connection with any legal process.

CHAPTER 2 – SCOPE OF WORK

The current project intends to undertake the work in two phases:

1. **Construction Phase:** To Design, Manufacture, Erect and Install Automated MRF for Municipal Solid Waste of 75.
2. **O&M Phase:** To carry out the Operation and Maintenance of the Municipal Solid Waste at MRF for the period of 10 (+5) years.

2.1 Construction Phase

- 2.1.1 Design, Manufacture, Erect and Install MRF of the 75 TPD capacity with plastic value addition.
- 2.1.2 Conduct survey, geo-technical investigation and contouring of the Project Site.
- 2.1.3. Conduct water table test for bore well location (if required).
- 2.1.4 The Tipping Area should be large enough to accommodate Municipal Solid Waste of 3 days.
- 2.1.5 The Sales & Dispatch Area should be large enough to accommodate products and by-product(s) for minimum of next 3 days.
- 2.1.6 Install steel structures for mounting of machineries with access platforms and staircase.
- 2.1.7 External and internal power supply/electrification.
- 2.1.8 Automation of machineries through electrical panels.
- 2.1.9 All supporting hardware required to install the machineries.
- 2.1.10 The facility should be ventilated with turbo ventilators/ HVLS fans/ exhaust fans/ etc.
- 2.1.11 Procure, supply, install, test and commission the equipment/machine, platform and machinery support structure as per the project requirement.
- 2.1.12 The Bidder shall install suitable combination of equipment (as listed in the clause 3.15) in order to achieve sustainable end disposal of Municipal Solid Waste.
- 2.1.13 The Bidder can install any other machinery/ equipment that may not be mentioned specifically but necessary as per good engineering practice, safety norms and successful operation and guaranteed performance for the entire facility shall be deemed to be included within the scope of work.
- 2.1.14 Freight and Insurance charges of machineries.
- 2.1.15 Establishment of segregation process of waste into different recyclable material streams.
- 2.1.16 Work in compliance with SBM 2.0 Operational Guidelines, Solid Waste Management Rules, 2016 and its amendments thereafter.

2.1.17 Comply with all applicable government laws such as minimum wages act, payment of wages act, Child Labour (Prohibition & Regulation) Act, etc.

2.2 O&M Phase

- 2.2.1 Operation and maintenance of the MRF for the period of 10 (+5) years from the date of agreement.
- 2.2.2 Receive at-source segregated Municipal Solid waste at the tipping area of the facility from the authority.
- 2.2.3 Pay for use of utilities like electricity and water, as applicable.
- 2.2.4 Segregate the Municipal Solid Waste into Recyclable, RDF and Inert.
- 2.2.5 Handover any domestic hazardous waste/ wet/ biomedical/ C&D/ like waste to Authority for disposal, if found during processing.
- 2.2.6 Recover and make recyclable material like paper, plastic, metal, rubber, glass, etc. fit for recycling as per the recycler's requirement.
- 2.2.7 Sent recyclable materials for recycling to respective accredited recycler.
- 2.2.8 Recover and make RDF material fit for energy recovery or other suitable end disposal method as per the end disposal agency's requirement.
- 2.2.9 Sent RDF materials for energy recovery or other suitable end disposal method to respective end disposal agency.
- 2.2.10 Aggregate the residual inert material and handover to AMC for suitable end disposal. The Authority shall lift the same on everyday basis.
- 2.2.11 The successful Bidder holds the sole rights to sell the product(s) and by-product(s) recovered and revenue earned through the sales of the same.
- 2.2.12 Shall have right to generate revenue during the operation period through credits generated and like, if any.
- 2.2.13 All necessary expenditure for execution of O&M shall be borne by the successful bidder as per the terms & conditions agreed upon.
- 2.2.14 Routine report will be submitted in the format provided mutually agreed by both parties to report the quality of Municipal Solid Waste including composition of inert, RDF and recyclables.
- 2.2.15 The Bidder may charge for visit to MRF for PPEs and visitor management to visitors. In case Authority is already charging for visit, a mutually agreed amount shall be paid by Authority to Bidder the same.
- 2.2.16 Comply Solid Waste Management Rule, 2016 and Plastic Waste Management Rules, 2016 and its amendment.
- 2.2.17 Comply with applicable Minimum Wages Act and other applicable labour laws including PF/ESIC etc.

2.3. Deliverables by Authority

- 2.3.1 Provide clear, levelled and free of encumbrances land parcel (of minimum 1 Acres) to the Concessionaire for the suitable for construction of MRF with clear access of road.
- 2.3.2 Make project's total capital cost available to the successful Bidder as per actual. (Payment mechanism as mentioned in clause 3.12)
- 2.3.3 The Authority shall bear the property tax or any other charges in the similar nature or otherwise, with respect to the licensing and usage of the Project Site, at any time during the Concession Period.
- 2.3.4 The Authority shall terminate all the existing contracts, agreements, arrangements, memorandums, understandings, in any form whatsoever, that the Authority may have with any Person with respect to any aspect that is same or similar to the Scope of the Project and would have an effect on the same.
- 2.3.5 Apply and obtain CTE/CTO, SWM Authorization.
- 2.3.6 Lift & dispose Hazardous waste/ Bio medical waste and dead animals from the MRF if received with Municipal Solid Waste at own cost.
- 2.3.7 Provide all applicable approvals and authorizations related to land including removal of tree(s) at site which can hinder the project activities.
- 2.3.8 Carry out IEC activities for at-source segregation and collection.
- 2.3.9 Provide one point of contact from Authority for overall coordination.
- 2.3.10 Provide all the support requirement by the successful Bidder for the execution of the project over the project tenure.

CHAPTER 3 – INSTRUCTION TO APPLICANTS

3.1. COMPLETENESS OF RESPONSE

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

3.2. EOI PREPERATION COSTS

- 3.2.1. The bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of EOI, in providing any additional information required by the Authority to facilitate the evaluation process, and in negotiating a definitive Contract or all such activities related to the bid process. The Authority will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process
- 3.2.2. This EOI does not commit the authority to award a contract or to engage in negotiations.
- 3.2.3. Further, no reimbursable cost may be incurred in anticipation of award or for preparing this bid
- 3.2.4. All materials submitted by the bidder as a part of the bid will become the property of the ASCL.
- 3.2.5. No Bidder can submit more than one bid.

3.3. CLARIFICATION & AMENDMENT OF EOI DOCUMENT

- a) Pre bid meeting shall be held at the Office Chamber of the Chief Executive Officer, ASCL, Urban Resource Centre, MINECO, Khatla, Aizawl, Mizoram (it may also be attended online) on 22nd July 2023 at 2:00 Pm.
- b) At any time prior to the last date for receipt of bids, the Authority may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bid Document by an amendment.
- c) The amendment will be notified and uploaded on the website of the Authority, or the website mentioned above for the information of all intending bidders.

- d) At any time before the submission of EOI, the Employer may amend the EOI by issuing an addendum by standard electronic means. The addendum shall be sent to all Bidders as per stipulated timeframe mentioned in the Data Sheet and will be binding on them. Bidders shall acknowledge receipt of all amendments. To give Bidders reasonable time in which to take an amendment into account in their EOI the Employer may, if the amendment is substantial, extend the deadline for the submission of EOI.

3.4 TECHNICAL PRESENTATION

i. Technical Presentation shall be held before the Bid Evaluation Committee (BEC) at the date and time of which shall be notified later.

ii. Technical Presentation should include below mentioned information:

- Proposed Process Methodology
- Organization and Team Experience
- Proposal Presentation

iii. Bidder should have experience of running operations using a MRF operations SaaS (software as a service) modules – to be demonstrated live during Technical Presentation.

The Software must include:

- Cloud based MRF management software
- Role based access for multiple staff
- Material processing and segregation process management
- Sales Management along with effective Value-chain management
- Predictive and prescriptive analytics through AI and ML for example emission calculations using published and verified emission factors
- Customized reporting templates for reporting in Real-time.
- IOT Dashboard for MRF management
- Role Based access to restrict user to do unauthorized activities

3.5 PRE-QUALIFICATION AND TECHNICAL BID/EOI DOCUMENT

a) Pre-qualification documents include all document stated at clause 3.8, Pre-Qualification Criteria. Submission of non-responsive Pre-Qualification document will result in the Bid being deemed ineligible.

b) Technical Bid/EOI include but not limited to all document stated at clause 3.9, Technical Bid/EOI Evaluation Criteria.

c) Bidders are required to submit a Technical Bid in forms provided in the EOI. Submission of non - responsive Technical Bid will result in the Bid being deemed ineligible. Sample letter of technical bid submission which is to be submitted along with the technical bid is provided at clause 4.1 Letter of EOI Submission.

c) The Technical Bid shall not include any financial information. A Technical Bid containing financial information may be declared as non-responsive.

d) Bidders submitting bids in hard copy shall enclose the Pre-Qualification documents, Technical Bid/EOI documents and the Price Bid/EOI documents in separate sealed envelopes duly marking the envelopes as "PRE-QUALIFICATION DOCUMENT", "TECHNICAL BID/EOI DOCUMENTS" and "PRICE BID/EOI DOCUMENTS". These three envelopes shall then be enclosed in one single outer envelope.

Bidder submitting bids via portal shall enclose protected Pre-Qualification documents, Technical Bid/EOI documents and the Price Bid/EOI documents in separate rar/zip file duly marking "PRE-QUALIFICATION DOCUMENT", "TECHNICAL BID/EOI DOCUMENTS" and "PRICE BID/EOI DOCUMENTS". These three documents shall then be enclosed in one outer folder.

e) Bid/EOI shall be submitted on or before 31st July 2024 at 3:00 Pm. Technical Bid/EOI shall be opened at 31st July 2024 at 3:30 Pm. Bidders have the option of submitting their bid in hard copy at the office of ASCL or on line at <https://aizawlsmartcity.mizoram.gov.in./page/bidEOI>

3.6. FINANCIAL BID/EOI DOCUMENT

As provided in the format 4.6, Letter of Price, 4.7, Bill of Quantity and 4.8 Civil Works Details.

3.7. METHOD OF SELECTION

Stages of Technical Evaluation

Stage 1: Pre-Qualification:

Qualification of bidder as per the requirement of Eligibility Criteria will be evaluated and only those bids that are qualified as per the requirement of Eligibility Criteria shall be considered for Evaluation of Technical bid/EOI.

Stage 2 Technical Qualification:

Qualification of bidders, as per the technical bid/EOI evaluation and qualification criteria stated at 3.8 below, shall be evaluated.

A minimum technical score for qualification shall be **70**. Financial bid of bidder scoring below 70 shall be returned unopened.

3.8 Pre-Qualification Criteria

S. No.	Eligibility Criteria	Supporting Document to be submitted
1.	The Bidder shall be a private company, firm, LLP, entity incorporated in India under the (Indian) Companies Act 1956/ 2013 or a company formed under any other law for the time being in force in India and incorporation should not be less than 3 years old. The Bidder shall be required to	Copy of Certificate of Incorporation / Relevant document issued by Government

	submit a true Copy of its Incorporation Certificate.	
2.	The Bidder or its associate companies should not be blacklisted/ debarred or terminated due to Non-Performance under any contract by any Government/ Government Board/ any Urban Local Body of the Country / Corporation Company/ Statutory Board/ PSU company/ Government of any sovereign countries in the last 3 years.	Self-Certification by the Bidder (Bidder may submit as per Format at 4.2)
3.	The Bidder must have a valid GSTN certificate.	The Bidder must have a valid GSTN certificate. (True copy may be submitted)
4.	Experience with Municipal Solid waste processing facility with any of the approved technologies along with O&M facility in India for any of Central or State Government/ urban Local bodies of 75 TPD capacity within last 3 years till the date of submission of this EOI	True copy of Successful completion certificate/Work done certificate issued by competent Authority may be submitted
5.	Demonstrated prior experience of sale of RDF to like cement plant or similar facility in the past 5 years for minimum cumulative 25,000 MT/Annum supply of quantity.	Copy of Joint agreement with Cement Plant / Similar Facility along with proof of sale/supply and Delivery challan should be submitted.
6.	Average Turnover (Last three FY as per audited balance sheet duly signed and certified by CA) and with Positive net worth certificate should be not less than INR 10 Crore	Copy of Audited balance sheet duly signed and certified by CA is to be submitted
7.	Bidder shall submit latest Bank Solvency Certificate for a value not less than INR 25 Crore.	Issued by bank-on-bank letter head.

3.9. TECHNICAL BID/EOI EVALUATION CRITERIA

The technical evaluation will be done for only those bidders who qualify the essential pre-qualification eligibility criteria. The detailed technical evaluation of EOI satisfying the below-mentioned conditions shall be done. The Criteria, sub-criteria and marking system for detailed evaluation shall be as follows:

S. No.	Evaluation Criteria	Max. Marks (%)
1.	<p>Scoring as per Technical Presentation based on Bidder's technical proposal.</p> <p>Technical Presentation should include below mentioned information based on that evaluation will be done and evaluation percentage bifurcation are also given as below:</p> <ul style="list-style-type: none"> • Proposed Process Methodology: 10 • Organization and Team Experience: 10 • Technology: 5 <p>(Note: This will be evaluated from the Technical Presentation stated at clause 3.4)</p>	25
2.	<p>Past experience in executing similar work i.e., the firm should have successfully executed a semi-automated/fully automated Municipal Solid waste MRF projects under PPP model with any ULB across India.</p> <p>Marking:</p> <ul style="list-style-type: none"> • A Minimum of One similar work experience of Municipal Solid waste MRF including O&M with the capacity upto 75 TPD: 10 marks • A Minimum of One similar work experience of Municipal Solid waste MRF with O&M including density separator, screening machine, and with the capacity upto 100 TPD: 15 marks • A Minimum of One similar work experience of Municipal Solid waste MRF with O&M including density separator, screening machine, and optical sorter with the capacity upto 200 TPD: 20 marks • A Minimum of One similar work experience of Municipal Solid waste MRF with O&M including density separator, screening machine, and multiple optical sorters and with up the capacity to 300 TPD: 30 marks <p>(Note: Provide a Work done/Completion certificate issued by competent authority for the proof)</p>	30
3.	<p>Prior experience of RDF selling to cement plant or similar facility in the past 5 years for minimum cumulative 25,000 Metric Tonnes/ Annum supply of quantity. 5 marks</p> <p>Prior experience of RDF selling to cement plant or similar facility in the past 5 years for minimum cumulative 50,000 Metric Tonnes/ Annum supply of quantity. 10 marks</p>	10

S. No.	Evaluation Criteria	Max. Marks (%)
	(Note: Provide a proof of the same)	
4.	<p>Average Turnover (Last three FY as per audited balance sheet duly signed and certified by CA) and with Positive net worth certificate.</p> <p>Marking:</p> <ul style="list-style-type: none"> • Between INR 10 Crore to INR 50 Crore: 5 marks • Between INR 50 Crore to under INR 100 Crore: 10 marks • Above INR 100 Crore: 20 marks <p>(Note: Provide Turnover certificate for the proof)</p>	20
5.	<p>Bidder should have experience of running operations using a MRF operations SaaS (software as a service) modules – to be demonstrated live during Technical Presentation.</p> <p>The Software must include:</p> <ul style="list-style-type: none"> • Cloud based MRF management software • Role based access for multiple staff • Material processing and segregation process management • Sales Management along with effective Value-chain management • Predictive and prescriptive analytics through AI and ML for example emission calculations using published and verified emission factors • Customized reporting templates for reporting in Realtime. • IOT Dashboard for MRF management • Role Based access to restrict user to do unauthorized activities 	15

3.10. FINANCIAL PROPOSALS SHALL BE EVALUATION:

- (i) To allow comparison on a common basis, each Financial Proposal will be carefully scrutinized and the lowest priced Financial Proposal will be determined. The lowest Financial Proposal will receive the maximum score of 100 marks. The score for each other Financial Proposal is inversely proportional to the lowest priced Financial Proposal and will be computed as follows:

$$S_f = 100 \times F_m / F \quad \text{where:}$$

S_f is the financial score of the Financial Proposal being evaluated,

F_m is the lowest priced Financial Proposal,
F is the Financial Proposal under consideration.

- (ii) Following completion of evaluation of Technical and Financial Proposals, final ranking of the Proposals will be determined. This will be done by applying a weight as **30%:70%** respectively to the technical and financial score of each evaluated qualifying Technical and Financial Proposal and then computing the relevant combined total score for each bidder. After such final ranking, the first-ranked Consultants will be invited for contract negotiations.

3.11 APPLICATION PROCESS

The EOI document shall be available on the website <https://aizawlsmartcity.mizoram.gov.in> and <https://tender.mizoram.gov.in> or may obtain form the office of ASCL during office hours. Interested Applicants may obtain/download the document and are invited to submit their application in accordance with the terms specified in this Document.

3.12 BID/EOI PROCESSING FEES/COST OF BID/EOI DOCUMENT

The Bid Processing Fee/Cost of EOI Document is Non-Refundable. The Cost of EOI Document would be pay Rs 2500/- (Indian Rupees two thousand five hundred Only) to be paid by Cash/Demand Draft/ Cashier's Cheque/Call Deposit or through RTGS/NEFT in the following account details:

Bank Name: State Bank of India (SBI)
Branch Name: New Secretariat
Account Name: Aizawl Smart City Limited
Account No.: 37641876666
IFSC: SBIN0013053

Please note that payment of Bid Processing Fee/Cost of EOI Document is compulsory for participation in the EOI and non-compliance shall cause rejection of EOI as non-responsive.

3.13 EARNEST MONEY DEPOSIT/BID SECURITY

Earnest money/Bid security amounting to Rs 35,42,000/- (Indian Rupees thirty-five lakh forty two thousand) only to be paid by Cash/Demand Draft/ Cashier's Cheque/Call Deposit or through RTGS/NEFT at account details stated at Sl. No. 3.12 above. Non submission of Earnest money/Bid security shall be the cause of rejection of Bid/EOI.

3.14 VALIDITY OF BID/EOI

The EOI shall be valid for a period of not less than 90 days from the EOI Due Date. ASCL reserves the right to reject any EOI which does not meet the requirement.

3.15 TERMS OF PAYMENT

- I. Equipment**
CAPEX Cost.

Milestone Payment shall be made as below:

- (a) Payment of 20 percent of the contract amount on signing of contract and against submission of Bank Guarantee of an equal amount by the Supplier. The Bank Guarantee shall be released/return to the Supplier on satisfactory completion of Supply, Installation, Testing and Commissioning as certified by ASCL/PMC concerned Officials.
- (b) 60 percent of the contract cost on receipt of Equipment/Material in good condition as certified by concern Official of Aizawl Smart City Limited.
- (c) 20 percent of the contract cost after successful installation of Equipment/Material and commissioning certified by concern Official of Aizawl Smart City Limited.

OPEX Cost: Payment of Comprehensive Maintenance Contract (CMC) shall be paid on quarterly basis as per the execution of work.

II. Civil Work

Payment shall be made as per actual work done based on measurement.

3.16 PROPOSED CIVIL WORK

Civil work will comprise the list of works for this proposed project, which are as mentioned below:

PEB Shed	Flooring	Foundation
Office Building	Weighbridge	Boundary Wall
Compressor Building	Inert Area	RDF Storage Area
Fire Pump Room	Tipping Area	Finished Goods storage area
Electric Room	Toilet with STP	Support Structure
Storage Room	SCADA Room	Road
Security Room	Tool Room	Parking

**Aforementioned list of civil work is not limited, as per the requirements of the project additions can be done over and above the list.*

We will take all responsibility of civil work with a local entity with whom we would form a JV.

3.17 MATERIALS REQUIREMENTS FOR THE CONSTRUCTION

- Minimum M25 grade concrete should be used
- 20 cm steel fibre/ RCC flooring and RCC boundary wall with 4 meters height, 2 meters above the ground and 2 meters below the ground
- Shed will be constructed with clear height of 10 meters
- All column foundation shall be minimum 3 meters below the ground level depending on soil test.

3.18 PROPOSED ELECTRO-MECHANICAL WORK

Sr. No.	Equipment Name	Quantity
Plant Machinery		
1.	Chain Conveyor	20 RM
2.	Screening Equipment	1
3.	Density Separators– Wind shifter	1
4.	Electro Magnetic/Metal Separator	2
5.	Optical Sorter with acceleration belts	2
6.	Conveyors	300 RM
7.	Apron Feeders	1
8.	Baler Machine	2
9.	Shredder Assembly	1
Utilities		
10.	Air compressor	1
11.	Pre-Fabricated Overhead water tank	1
12.	Electric Panels	3
13.	Electric Cables / Lights / Cable Trays	1
14.	Automation	1
15.	Weighbridge	1
16.	Fire Fighting	1
17.	CCTV Installations	1
18.	Portable Cabin (Office)	1
Steel Structure for Equipment		
19.	Sorting Platform & Silo	50 Tonne
20.	Machine & Conveyor Legs, Chutes	40 Tonne
21.	Staircase, platforms & railings	30 Tonne

**Aforementioned list of electro-mechanical work is not limited, as per the requirements of the project additions can be done over and above the list.*

3.19 EMPLOYER'S RIGHT TO ACCEPT ANY BID, AND TO REJECT ANY OR ALL BIDS

The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders

CHAPTER 4 – FORMATS

4.1. LETTER OF TECHNICAL BID/EOI SUBMISSION

(This is part of the Technical Bid/EOI and has to be submitted in the envelope of Technical Bid/EOI)

Date:

Contract Package No.:

Notice Inviting EOI/Invitation for EOI/Bid No.:

To

The Chief Executive Officer,
Aizawl Smart City Limited,
Government of Mizoram

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the EOI/Bidding Documents, including Addenda
- (b) We offer to execute in conformity with the EOI/Bidding Documents the following Works:
.....
- (c) Our Bid consisting of the Technical Bid/EOI and the Price Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the EOI/Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) We are not participating, as a Bidder in more than one bid in this bidding process
- (e) If our Bid is accepted, we commit to mobilizing key equipment and personnel and our technical proposal, or as otherwise agreed with the Employer.

Name of the Bidder: _____

Authorized Signatory: _____

Name:

Seal:

Date:

Place:

4.2. FORMAT FOR NON-BLACKLISTING

(This is part of the Technical Bid/EOI and has to be submitted in the envelope of Technical Bid/EOI)

To

The Chief Executive Officer,
Aizawl Smart City Limited,
Government of Mizoram

Subj: Declaration of not being black listed

This has reference to The Chief Executive Officer, Aizawl Smart City Limited, Government of Mizoram's EOI/BID no... Dated for..... (name of assignment).

In this context, I/We, as an authorized representative(s) of company, declare that presently our Company/ firm has an unblemished record and is not declared ineligible with regard to corrupt & fraudulent practices, blacklisted either indefinitely or for a particular period of time, or had work withdrawn, by any State/ Central government/ PSU.

If this declaration is found to be incorrect then it may lead to our disqualification. We agree to abide by all the terms and conditions of the tender document.

Thanking you,

Name of the Bidder: _____

Authorized Signatory: _____

Name:

Seal:

Date:

Place:

4.3. APPLICANT DETAILS

(This is part of the Technical Bid/EOI and has to be submitted in the envelope of Technical Bid/EOI)

S.No.	Particulars	Details
1.	Registration Certificate Name	
2.	Registration Number	
3.	Name of Organization	
4.	Entity of Organization (Pvt. Ltd./ Ltd./ Proprietor)	
5.	Registered Address	
6.	Address of Communication	
7.	GST Number	
8.	Telephone Number with STD Code	
9.	Mobile Number	
10.	E-mail Address for all communications	
Details of Authorized Representative		
11.	Name	
12.	Designation	
13.	Address of Communication	
14.	Telephone Number with STD Code	
15.	Mobile Number	
16.	E-mail Address	

4.4. FORMAT FOR SIMILAR WORK EXPERIENCE

(This is part of the Technical Bid/EOI and has to be submitted in the envelope of Technical Bid/EOI)

Similar Work Experience		
Contract No: _____	Contract Identification: _____	
Award Date: _____	Completion Date: _____	
Total Contract Amount	Rs. _____	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total: _____	Amount _____
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity		
<p>(Please submit true copy of work done/completion certificate issued by competent authority)</p>		

Note: Separate sheet for each similar work experience.

4.5. FINANCIAL TURNOVER

(This is part of the Technical Bid/EOI and has to be submitted in the envelope of Technical Bid/EOI)

Average Annual Financial Turnover for last three financial years

Financial Information			
Financial Year	FY 1 (_____)	F2 (_____)	F3 (_____)
Annual Turnover (in INR Lakhs)			
Average Annual Turnover:			

Note: Please attach CA Audited Report of Financial Years.

4.6 LETTER OF PRICE BID

(This is part of the Financial Bid/EOI and has to be submitted in the envelope of Financial Bid/EOI)

Date:

Contract Package No.:

Notice Inviting EOI/Invitation for EOI/Bid No.:

To

The Chief Executive Officer,
Aizawl Smart City Limited,
Government of Mizoram

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding/EOI Documents, including Addenda issued
- (b) We offer to execute in conformity with the Bidding/EOI Documents and the Technical Bid/EOI submitted for the following Works:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodology for their application are:
- (e) Our Bid shall be valid for a period of 90 days from the date fixed for the bid submission deadline in accordance with the Bidding/EOI Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid/EOI is accepted, we commit to obtain a performance security in accordance with the Bidding/EOI Documents;
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Name of the Bidder: _____

Authorized Signatory: _____

Name:

Seal:

Date:

Place:

4.7

BILL OF QUANTITY

(This is part of the Financial Bid/EOI and has to be submitted in the envelope of Financial Bid/EOI)

Bill of Quality							
Sr. No	Machine	Qty	Unit Cost	Basic Cost In INR	Cost Including		
					GST Amount	GST (INR)	
A - 1: Plant & Machinery							
1	Chain Conveyor: Chain conveyor of at least 1 metre useable width. Feeder part of the conveyor should be 3 metre wide and maximum 1.5 metre from ground level.	20					
	Screen Type						Circular
	Screen Size						60mm and 350mm
	Capacity						10-15 TPH
	Electric requirement						20 kW
2	Screening Equipment: Screening of materials into range of sizes based on requirements of material recovery and compositions. Screening of materials into 3 different fractions. One fraction should be such that inert material of 0-50 mm is screened out.	1					
	Screen Type						Circular
	Screen Size						60mm and 350mm
	Capacity						10-15 TPH
	Electric requirement						20 kW
3	Density Separator - Wind shifter: Separation of materials into light and heavy categories based on densities of respective materials for proper segregation	1					
	Capacity						10-15 TPH
	Electric requirement						33 kW
4	Metal Separator: Magnetic separator with magnet of required range to remove all the ferrous material. (minimum width: 1 meter)	1					
	Belt Width						1000mm - 1600mm
	Magnet Size						1200mm x 1200mm x 1000mm
	Electric requirement						12 kW
5	Optical Sorter with acceleration belts: AI based Pneumatic sorters with minimum capacity of 2MT/ hour. Could have single or double valve block.	2					

	Belt Type	Acceleration belt					
	Belt Width	1000mm - 2800mm					
	Catcher Hood	For ejection of material					
6	Conveyors: Belt conveyor with all necessary accessories like scrappers, rollers, rubber & MS skirting, bearings, motor & gearbox with VFD. Rubber belts to be 8 or 10 mm thick, 3 or 4 ply.		300				
	Belt Type	Rubber Belt					
	Accessories	Scrappers, rollers, guide rollers, etc.					
	Structure	legs of channels to support conveyors					
7	Apron Feeders		1				
8	Baler Machine: 50 Ton Pressure Capacity. Single Chamber Single Cylinder Baler Machine.		2				
	Chamber size	30(L)x20(W)x64(H) In Inch					
	Electric Motor	10 HP Motor 3 Phase 1440 RPM 50Hz					
	Cylinder Size	170(Bore)*205(Od)*110(Ram)*1300 (Stroke) mm					
9	Shredder Assembly: Size reduction equipment are used to reduce the sizes of rejected material after recovery into specific size range so that it can be processed further easily.		1				
	Silo clear height	3 - 4 meters					
10	Freight & Insurance (Others)		1				
	Total of A-1, Machinery & Machinery						
A -2: Utilities							
11	Air compressor		1				
12	Water tank pre-fabricated		1				
13	Electric Panels		3				
14	Electric Cables /Lights / Cable Trays		1				
15	Automation		1				
16	Weighbridge		1				
17	Fire Fighting		1				
18	CCTV Installations		1				
19	Portable Cabin (Office)		1				
	Total of A-2, Utilities						
A - 3: Steel Structure for Equipment							
20	Sorting Platform & Silo	Platform for manual recovery of materials based on types and provisions for	50				
21	Machine & Conveyor Legs, Chutes		40				

22	Staircase, platforms & railings	collecting the recovered material into respective silos / bunkers Silo clear height	3 - 4 meters	30				
Total of A-3, Steel structure for Equipment								
B - Shed and civil work								
22	Civil Cost (Floor, foundation, utility buildings)			1				
23	PEB Structure & Building including toilets			1				
Total of B								
C - Civil Works								
24	Internal Road (details at Civil Work Annexure)			1				
25	Side Drain (details at Civil Work Annexure)			1				
26	Brick Wall (details at Civil Work Annexure)			1				
27	Provision for water connection (details at Civil Work Annexure)			1				
28	Solar Panel - 200kW (details at Civil Work Annexure)			1				
29	Fencing (details at Civil Work Annexure)			1				
30	Gate with duty post (details at Civil Work Annexure)			1				
31	External Solar Lighting (details at Civil Work Annexure)			1				
32	Water Storage - 200000L (details at Civil Work Annexure)			1				
33	Landscaping (details at Civil Work Annexure)			1				
34	Public Toilet (details at Civil Work Annexure)			1				
Total of C								
35	Information, Education and Communication (IEC)							50,00,000
G. Total								

Rupees _____ only

4.8

CIVIL WORKS DETAILS

Sl No.	Items	Length	Breadth	Height	Unit	Remarks
1	Internal Road	254	3.5	0.2	Cum	RCC Pavement including 100mm WBM, 100mm PCC and Seal Coat
2	Drain	190	0.5	0.5	Cum	RCC U Shape
3	Brick wall	110	0.6	1.2	Cum	1.2m high with RCC Column and beam
4	Fencing	420			Rm	1.8 m high barbed wire fencing above 1.2m existing brick wall
5	Gate with Duty Post					Painting, Window, Door with Door Steel Shutters
6	Water Storage	2 Lakh Litre				RCC Reservoir
7	External Solar Lighting	10 No of 35 Watt Solar light including 7 m pole				
8	Public Toilet	10 no of Room with 50 user of Septic tank				
9	Provision for water connection					
10	Solar Panel	200KW				
11	Landscaping					