

RAMAGUNDAM MUNICIPAL CORPORATION

Request for Proposal (RFP) Document

RFP No. – COMM/RMC/RFP/2025-2026

dt:--2025

Setting up of 120 TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O&M Basis at DRCC in Ramagundam Municipal Corporation for a period of 5 years

Commissioner and Directorate of Municipal Administration, Telangana

December, 2025

Table 1: Tender Data Sheet

1	Design Capacity of Proposed MSW Processing Facility (MSWPF)	120 TPD
2	Indicative Project Cost	12.71 crores
3	Project Duration	6 Months for EPC & 5 Years for O&M

SCHEDULE OF BIDDING PROCESS

Bidders are invited to submit their Bids on or before the time, date and at the office for submission as indicated below. The Bids submitted after this time and date or at any other office other than indicated herein below will not be considered under any circumstances; unless notified by the Authority with full information of the altered time, date and the office for submission.

S.No	Event Description	Particulars
1	RFP downloadable from Website on date	23.12.2025
2	Date of Pre-Bid Meeting & Place	30.12.2025
3	Last Date for Receipt of Queries	03.01.2026
4	Response to Queries	06.01.2026
5	Bid Submission Start Date	07.01.2026
6	Last Date for Submission of Bids	28.01.2026
7	Address for communication & submission of Bid	O/o. Commissioner, Ramagundam Municipal Corporation, Telangana
11	Date & Time for opening of Technical Bid (Eligibility & Qualification Criteria)	29.01.2026
12	Presentation by technically qualified bidders	Date: to be informed later
13	Date & Time of opening of Financial Bid	Date: to be informed later
14	Issue of "Letter of Award" (LoA)	Date: to be informed later
15	Cost of RFP (Non-refundable)	Rs. 5,000/- (Rupees ten thousand) in favour of The Commissioner, Ramagundam Municipal Corporation payable at Commissioner, Ramagundam Municipal Corporation in online portal (e-procurement platform)

14	Bid Security (Refundable)	Rs.12,00,000/- (Rupees Thirty two lakhs only) in the form of online payment or Bank Guarantee drawn in favour of the Commissioner, Ramagundam Municipal Corporation valid for 06 months from the date of submission of bid.
15	Balance EMD	On arriving the Project Cost 2.5% Bid Security will be collected balance of Rs. 12.00 lakhs (Difference Amount)

LETTER OF INVITATION

To

To establish improved solid waste management practices and systems, The Commissioner, Ramagundam Municipal Corporation has decided to set up Municipal Solid Waste Processing Facility (MSWPF) to tackle the health and environmental hazard caused when waste is disposed in open areas due to lack of treatment facilities. To implement SWM Rules 2016 and Hon'ble NGT orders, Ramagundam Municipal Corporation propose to establish MSWPF to process waste generated in the Greater Warangal Municipal Corporation.

The Commissioner, Ramagundam Municipal Corporation has accordingly decided to invite competitive bids to select Contractor to whom the setting up of MSWPF at the proposed SWM Site on EPC & O&M basis would be awarded.

The Selected Bidder (Contractor) is responsible for establishment of MSWPF and effective treatment of solid waste generated in accordance with SWM Rules 2016. In this regard, the Contractor has to comply with the environmental and all other regulatory norms that are in vogue from time to time during the entire Contract Period.

You are, accordingly, requested to participate in the Bid stage and submit your Technical and Financial bids along with all the relevant documents in accordance with RFP.

These selections shall be based on Least Cost Selection (LCS) basis. Financial offers (the "Bids") of only those Bidders who secure a technical score of at least 70 marks in Technical Bid shall only be opened.

The Commissioner, Ramagundam Municipal Corporation reserves the right to cancel, terminate, change or modify this procurement process and /or requirements of Bid stated in the RFP, without assigning any reasons and without accepting any liability for the same.

The Bid shall be valid for a period of not less than 120 days from the Bid Due Date. The validity of Bids may be extended by mutual consent of the Bidders and the Authority.

Commissioner,
Ramagundam Municipal Corporation
Date:

DISCLAIMER

The information contained in this REQUEST FOR PROPOSAL document ("RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of Commissioner, Greater Warangal Municipal Corporation, Telangana State (herein after referred to as "COMMISSIONER, RAMAGUNDAM MUNICIPAL CORPORATION" or the "Authority") or any of its employees, is provided to Bidder(s) on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an agreement and is neither an offer nor invitation by Department to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their technical bid and financial bid ("Bids") pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by Department in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for Department, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in the Bidding Documents, may not be complete, accurate, adequate or correct. Each Bidder should therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Bidder(s) may be on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

The Authority and its employees/advisors make no representation or warranty and shall have no liability to any person including any applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this Bid Stage.

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Bidder upon the statements contained in this RFP.

The Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP.

The issue of this RFP does not imply that the Authority is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the Project and the Authority reserves the right to reject all or any of the Bidders or Bids without assigning any reasons whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Authority or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

GLOSSARY

Associate	:	As defined in Clause 2.1.21
Authority	:	As defined in Clause 1.1.2
Bid(s)	:	As defined in the Disclaimer
Bidders	:	As defined in Clause 1.3.2
Bidding Documents	:	As defined in Clause 1.1.6
Bid Due Date	:	As defined in Clause 1.1.6
Bidding Process	:	As defined in Clause 1.3.1
Bid Price	:	As defined in Clause 1.3.6
Bid Security	:	As defined in Clause 2.1.4
CDMA	:	Commissioner and Director of Municipal Administration
Contract	:	As defined in Clause 1.1.4
Contract Agreement	:	As defined in Clause 1.1.3
Contractor	:	As defined in Clause 1.1.3
Conflict of Interest	:	As defined in Clause 2.1.20 (c)
CPHEEO	:	Central Public Health and Environmental Engineering Organization
Damages	:	As defined in Clause 2.1.20
Demand Draft	:	As defined in Clause 2.19.1
Estimated Project Cost	:	As defined
MSWPF	:	As defined in Clause 1.1.1
GoT	:	Government ofTelangana

Gol	:	Government of India
LOA	:	As defined in Clause 3.6.3
Rs. Or INR	:	Indian Rupee
RFP or Request for Proposals	:	As defined in the Disclaimer
Selected Bidder	:	As defined in Clause 3.6.1
TPD	:	Tones Per Day
ULB	:	Urban Local Body
Bid Project Cost	:	As per the Financial Bid

The words and expressions beginning with capital letters and defined in this document shall, unless repugnant to the context, have the meaning ascribed thereto herein above. The words and expressions beginning with capital letters and not defined herein, but defined in the Contract Agreement, shall, unless the context otherwise requires, have the meaning ascribed thereto therein.

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1 INVITATION FOR PROPOSALS

Background

- a) Ministry of Urban Development is the implementing agency of the Swachh Bharat Mission (SBM) in urban India. SBM emanates from the vision of the Government for ensuring hygiene, waste management, and sanitation across the nation and aims for a Clean India under a collaborative framework of multiple stakeholders. In line SBM, Government of Telangana also implementing Swachh Telangana to transform all cities and towns in the state clean and garbage free cities by implementing effective solid waste management system.
- b) The Ramagundam Municipal Corporation has a goal of achieving Garbage Free City status in line with the vision of Swachh Bharat Mission (Urban). With concerted efforts, Ramagundam Municipal Corporation is able to provide waste collection, street cleaning and transportation of waste etc., services to its citizens. Processing of waste is the key for maximum resource recovery from the waste. **Waste generation in the Ramagundam Municipal Corporation is 120 TPD**

Further, Government of India (GoI) through the Ministry of Environment, Forests and Climate Change (MoEF&CC) notified Solid Waste Management Rules 2016 under Environment Protection Act (1986) for management of solid waste generated in urban areas of the country. Accordingly, Government of Telangana formulated Telangana State SWM Policy and Strategy with a vision to achieve zero garbage cities.

Ramagundam Municipal Corporation is seeking private sector participation to improve the management of municipal solid waste ("MSW") in the limits of RMC through the development and Operation and Maintenance of MSW Processing Facility on an Engineering, Procurement & Construction basis.

To comprehensively establish improved solid waste management practices and systems, the Commissioner, Ramagundam Municipal Corporation has decided to set up Waste Processing Facility (the "MSWPF") to tackle the health and environmental hazard caused when solid waste is disposed off openly without any treatment.

To achieve the vision of Government of Telangana in making Ramagundam Municipal Corporation as zero garbage city, the Commissioner, Ramagundam Municipal Corporation (the "Authority") has decided to develop and operate/maintain the MSWPF in Ramagundam Municipal Corporation (the "Project") through EPC (Engineering, Procurement & Construction) and O&M (Operation & Maintenance) basis, and has accordingly decided to carry out the bidding process for selection of a private party to whom the Project may be awarded.

The Selected Bidder, who is either a company incorporated under the Companies Act, 1956 or a proprietary concern or its substitute there of or undertakes to incorporate as such prior to execution of the Contract Agreement (the "Contractor"), shall be responsible for engineering, procurement, construction, operation and maintenance of the Project under and in accordance with the provisions of the Contract Agreement (the "Contract Agreement") to be entered into between the Contractor and the Authority in the form provided by the Authority as part of the Bidding Documents pursuant thereto.

The Contract Agreement sets forth the detailed terms and conditions for grant of the Contract to the Contractor, including the scope of the Contractor's services and obligations (the "Contract").

The statements and explanations contained in this RFP are intended to provide a better understanding to the Bidders about the subject matter of this RFP and should not be construed or interpreted as limiting in any way or manner the scope of services and obligations of the Contractor set forth in the Contract Agreement or the Authority's rights to amend, alter, change, supplement or clarify the scope of work, the Contract to be awarded pursuant to this RFP or the terms thereof herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this RFP are to be noted, interpreted and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by the Authority.

The Authority shall receive Bids pursuant to this RFP in accordance with the terms set forth in this RFP and other documents to be provided by the Authority pursuant to this RFP, as modified, altered, amended and clarified from time to time by the Authority (collectively the "Bidding Documents"), and all Bids shall be prepared and submitted in accordance with such terms on or before the date specified in Clause 1.4 for submission of Bids (the "Bid Due Date")

Project details

Scope of the Project

The broad scope of the Project during the Contract Period is as detailed hereunder:

- a) The Contractor is responsible for design, construction/installation, operation and maintenance of the Municipal Solid Waste Processing Facility (MSWPF) for effective treatment of solid waste generated in Ramagundam Municipal Corporation on EPC & O&M basis at the Project site being provided by the RMC and in conformity with the Specifications and Standards as set forth in the Contract Agreement.
- b) Design, build, operate and maintain a MSW processing facility which includes Material Recovery Facility, Compost facility, RDF facility, or any other suitable technology except MSW incineration plant at the proposed site. The processing facility shall be carried out in a closed environment and not in open.
- c) The construction includes required civil works (at Existing Sheds at DRCC) along with development of all support infrastructure, electro-mechanical, instrumentation and such other activities that are required to be carried out for putting the MSWPF in safe operations;
- d) Repair of equipment, structures and other civil works which are part of the Project Facilities;
- e) To install and operate required CCTVs at Weigh Bridge and processing site to cover treatment facility area; and CCTVs feed have to be O/o of Commissioner, Ramagundam Municipal Corporation for regular monitoring;
- f) Construction & Commissioning of MSW processing facility including Civil infrastructure and Machinery Installation within 6 months from date of sign of agreement
- g) Installation of electronic weighbridge of 40 Tons capacity along with its civil & electrical works etc. complete.
- h) A maximum of 20% dumping of rejects from fresh waste processing is allowed. The contractor has to stack maximum of 20% of rejects from processing of fresh waste and shall be disposed at the location as identified by the RMC as RMC is part of the Waste to energy cluster.

- i) Assist in Sale and distribution of by-products (compost, recyclables etc.) received from processing of waste. However, Revenue generated out of sale of by-products will belong to Ramagundam Municipal Corporation only.
- j) Proper storage and packaging of by-products.
- k) Perform and fulfil such other obligations incidental to the proposed activities.

Roles & Responsibilities of the Contractor

The role and responsibilities of the Contractor during the Contract Period are as detailed hereunder:

Routine maintenance of the project facilities which shall include the following:

- a) Maintenance of waste processing plant comprising adopted technologies, electrical items, compost sieving machinery.
- b) To carry out soil bearing capacity tests before commencement of construction works to obtain data to develop foundation designs;
- c) Primary Site Investigations such as Topographic Total Station Survey, Physio- Chemical Analysis of Waste etc.
- d) Repair of equipment, structures and other civil works which are part of the Project Facilities;
- e) Keeping the Project Facilities in a clean, tidy and orderly condition and taking all practical measures to prevent damage to the Project Facilities or any other property on or near the Site;
- f) Taking all reasonable measures for the safety of all the workmen, material, supplies and equipment brought to the site.
- g) Using appropriate odour control system/Method at the processing facility to minimize odour nuisance as per Central Pollution Control Board guidelines.
- h) The treatment waste shall be in compliance with the Solid Waste Management Rules, 2016 notified by Ministry of Environment, Forest and Climate Change (MoEF & CC) of GoI, etc and their amendments.
- i) The MSWPF shall be designed and operated to meet the norms notified under SWM Rules 2016, and as per the norms laid down by the State Pollution Control Board (SPCB) of Telangana through Consent to Establish/ Consent to Operate
- j) Compliance to Environment Management Plan during all phases of the project
- k) To take precautions of minimizing flies, rodents and animal menace and fire hazards and to take necessary steps and processes that would bring in control of odour at the site;
- l) Plant and machineries of reputed make and standards to be procured, installed & commissioned.
- m) The liquid, solid and gaseous emissions emanating from the facility shall meet the Pollution Control Board norms and the good industry practices;
- n) The end product compost shall meet the standards prescribed under Fertilizer Control Order (FCO) notified by GoI/GoT from time to time;

- o) To maintain good housekeeping in the Project sitespremises;
- p) To provide fire protection measures and safety equipment at the Projects site;
- q) Train manpower to be deployed by Ramagundam Municipal Corporation for operation of the plant. operate the systems and to ensure that they always wear personal protective equipment such as gloves, facemasks to avoid injuries and health risks;
- r) The Contractor shall deploy an Supervisor and a supervisor for operations of the plant for a period of 5years

Roles & Responsibilities of the Authority

The role and responsibilities of the Authority, during the Contract Period, are as detailed hereunder:

- a) To provide encumbrance free land for project development. Ramagundam Municipal Corporation shall allot the land for setting up of theMSWPF;
 - b) To provide JCB/ Tractors to be used for feed-in of waste and treatment of compost, however the fuel is to be provided by the successfulbidder.
 - c) Provision of motorable road, water and electricity supply up to the Projects site;
 - d) Clearing of land by removing legacy waste, if any for development of proposed SWM facility shall be the responsibility of Greater Warangal Municipal Corporation.
 - e) Responsible for all Permissions & Clearances which includes Environment (Protection) Act, 1986, the Air (Prevention and Control) Pollution Act 1981 and Water (Prevention and Control of Pollution) Act, 1974, as amended from time to time and any other permits as applicable to the proposed Project. However, contractor shall assist in preparation of technical documents for the same.
 - f) Supply of minimum assured quantity of MSW at Processing Facility.
 - g) Provision of Allied Infrastructure including Storm Water Drain, Internal Roads, Approach Road, Green Belt & Power, Water Supply Lines etc.
 - h) Payment to the Contractor
-

Capital Payment to Contractor

The capital expenditure and the periodical O & M Costs will be financed by the Authority as per the provisions of this RFP and the Contract Agreement.

The payment for the Project Capital Cost components of the project shall be done as follows.

- a) 50% of Capital Project Cost against running bills on item-wise completion of works
- b) 20% of Capital Project Cost against running bills of supply and testing of equipment's and machineries and on item-wise completion of Civilworks.
- c) 15 % of Capital Project Cost against commissioning of the plant.
- d) 15% of Capital Cost on completion of Defect Liability Period of 2 years from date of commissioning.

O&M Payment to Contractor

The periodical O & M Costs shall be paid in quarterly instalments during operation period as per the provisions of the Contract Agreement. The O & M Costs (the "O&M Costs") include personnel costs, consumables and operation and maintenance expenses, other utilities and services expenses, repairs and maintenance including replacement and refurbishing costs, overheads, contingencies, fuel costs for operation of machinery and any other costs as assumed by the Bidders in this regard.

O&M fee shall be calculated as mentioned below:

$$\text{Quarterly payment} = (\text{Annual Lump-sum cost}) / 4$$

Mechanism of O&M Payment

- a) The Authority shall, within 30 days from the date of receipt of the O&M Fee Statement,
 - i. Pay to the Contractor, an amount equal to 90% of the total amounts payable to as stated in such O&M Fee Statement,
 - ii. Remaining 10% O&M fee payment will be made based on the performance criteria set out in the RFP document
- b) Any delay in making any payment in accordance with the Financial Bid shall, without prejudice to any other consequences under this Agreement, entail payment of interest on the amount in default at prevailing medium term prime lending rate of State Bank of India calculated for the duration of delay.
- c) All payments shall be made by way of Cheque and/or Demand Draft.
- d) Annual escalation of 5% shall be given from 2nd year of O&M

Brief description of Bidding Process

- a) The Authority has adopted single stage three envelopes bidding process (referred to as the "Bidding Process") for selection of the Bidder for award of the Project. The Bidder will be selected under Least Cost Selection (LCS) method as described in this RFP (Appendix-IV).
- b) Interested Bidders (the "Bidders") are being called upon to submit their Bid in accordance with the terms specified in this Bidding Document. The Bid shall be valid for a period of not less than 120 (one hundred and twenty) days from the date specified in Clause 1.4, for submission of Bids, the Bid Due Date.
- c) The Bidding Documents include the RFP, **the draft Contract Agreement** for the Project, the bid price and any other document issued by the Authority in relation to this Project. Therefore, said documents and any addenda issued subsequent to this RFP, will be deemed to form part of the Bidding Documents.
- d) A Bidder is required to deposit, along with its Bid, a Bid Security, refundable not later than **120 days** from the Bid Due Date, except in the case of the Selected Bidder whose Bid Security shall be retained till it has provided a Performance Security under the Contract Agreement. The Bidders will have to provide Bid Security in the form of a demand draft in favour of Commissioner, Ramagundam Municipal Corporation, payable at Ramagundam or a bank guarantee acceptable to the Authority, and in such event, the validity period of the bank guarantee shall not be less than 120 (one hundred and twenty) days from the Bid Due Date with a claim period of 60 (sixty) days and may be extended as may be mutually agreed between the Authority and the Bidder from time to time, and the validity period of the demand draft shall not be less than 120 days from the Bid Due Date and may be extended as may be mutually agreed between the Authority and the Bidder. The Bidder shall also pay "Bid Document Fee" to the Authority towards the cost of the RFP in the form of a demand draft in favour of Commissioner, Ramagundam Municipal Corporation, payable at Ramagundam drawn on any scheduled bank. The Bid shall be summarily rejected if it is not accompanied by the Bid Security and the demand draft towards cost of RFP.
- e) Bidders are advised to examine the Project in greater detail, including development and operation of the Project and to carry out, at their cost, proper due diligence of the Project including such studies as may be required for submitting their respective Bids. The Bidders should have their marketing strategy in place to realize optimum revenues from the Project.
- f) Bids would be evaluated on the basis of the lowest assessed Bid Price (the "Bid Price"). The assessed Bid Price shall be required by a Bidder for implementing the Project and shall be paid as per the provisions of the Contract Agreement.

In this RFP, the term "Lowest Bidder" shall mean the Bidder whose assessed Bid Price is the lowest.
- g) Generally, the Lowest Bidder shall be the Selected Bidder. The remaining Bidders shall be kept in reserve and may, in accordance with the process specified in Clause 3 of this RFP, be invited to match the Bid submitted by the Lowest Bidder in case such Lowest Bidder withdraws or is not selected for any reason. In the event that none of the other Bidders match the Bid of the Lowest Bidder, the Authority may, in its discretion, either invite fresh Bids from the remaining Bidders or annul the Bidding Process.

Schedule of BiddingProcess

The Authority shall endeavour to adhere to the following schedule:

S.No	Event Description	Date
1.	Last date for receiving queries	
2.	Pre-Bid conference	
3.	Bid Due Date	
4.	Opening of Technical Bids	
5.	Presentation by technically qualified Bidders	To be informed later
6.	Opening of Financial Bid	To be informed later
7.	Letter of Award (LOA)	To be informed later
8.	Validity of Bids	120 days of Bid Due Date
9.	Signing of Contract Agreement	Within 30 days of award of LOA

2 INSTRUCTIONS TO BIDDERS

GENERAL

General terms of bidding

No Bidder shall submit more than one Bid for the Project. A Bidder shall not be entitled to submit another Bid either individually or as a member of any Consortium.

Notwithstanding anything to the contrary contained in this RFP, the detailed terms specified in the draft Contract Agreement shall have overriding effect; provided, however, that any conditions or obligations imposed on the Bidder hereunder shall continue to have effect in addition to its obligations under the Contract Agreement.

The Bid should be furnished in the formats as specified in the appendices. Bid amount shall be indicated clearly in both figures and words, in Indian Rupees, and signed by the Bidder's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken into account. The Bidders should ensure that all the information required to be provided by them under the Bidding Documents is included in their Bid whether or not a particular format specified herein makes provision for submission of such information and/or whether or not a format for submission of such information is incorporated in the Bidding Documents.

The Bidder shall deposit a "bid security" (as mentioned in Table- 1) in accordance with the provisions of this RFP. The Bidder has the option to provide the Bid Security in the form of Demand Draft or in the form of a Bank Guarantee acceptable to the Authority, as per format at Appendix -V. The Bid should also be accompanied by a non-refundable demand draft for Rs. 5,000/- (Rupees ten thousand) towards cost of RFP.

The validity period of the Bank Guarantee shall not be less than 120 (one hundred and twenty) days from the Bid Due Date, with a claim period of 60 (sixty) days and may be extended as may be mutually agreed between the Authority and the Bidder. The Bid shall be summarily rejected if it is not accompanied by the Bid Security. The Bid Security shall be refundable no later than 90 (ninety) days from the Bid Due Date except in the case of the Selected Bidder whose Bid Security shall be retained till it has provided a Performance Security under the Contract Agreement.

The Bidder should submit a Power of Attorney as per the format at appendix -VI, authorizing the signatory of the Bid to commit the Bidder only in case of a consortium.

Any condition or qualification or any other stipulation contained in the Bid shall render the Bid liable to rejection as a non-responsive Bid.

The Bid and all communications in relation to or concerning the Bidding Documents and the Bid shall be in English language.

The Bidding Documents including this RFP and all attached documents, provided by the Authority are and shall remain or become the properties of the Authority and are transmitted to the Bidders solely for the purpose of preparation and the submission of a Bid in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid. The provisions of this Clause 2.1.11 shall also apply mutatis mutandis to Bids and all other documents submitted by the Bidders, and the Authority will

not return to the Bidder's any Bid, document or any information provided along herewith.

This RFP is not transferable.

Comment [SM1]: Appendix V to be inserted.

Setting Up of above

100TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC

Any award of Contract pursuant to this RFP shall be subject to the terms of Bidding Documents.

Any entity which has been barred by the Central/State Government, or any entity controlled by it, from participating in any project (BOT or otherwise), and the bar subsists as on the date of the Bid, would not be eligible to submit a Bid

A Bidder should, in the last 3 (three) years, have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder nor has been expelled from any project or contract by any public entity nor have had any contract terminated any public entity for breach by such Bidder

Authority would place sole reliance on the certification provided by the Bidder in this regard in its letter comprising the Technical Bid.

If any services, functions or responsibilities not specifically described in this RFP are inherent, necessary or customary part of the deliverables or services and are required for proper performance or provision of the deliverables or services in accordance with this RFP, they shall be deemed to be included within the scope of the deliverables or services, as if such services, functions or responsibilities were specifically required and described in this RFP and shall be provided by the Bidder.

A Bidder shall not have a conflict of interest (the "Conflict of Interest") that affects the Bidding Process. Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Authority shall be entitled to forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the Authority and not by way of penalty for, inter alia, the time, cost and effort of the Authority, including consideration of such Bidder's proposal (the "Damages"), without prejudice to any other right or remedy that may be available to the Authority under the Bidding Documents and/ or the Contract Agreement or otherwise. Without limiting the generality of the above, a Bidder shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

The Bidder, and any other Bidder, have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding of a Bidder, or an Associate thereof (or any shareholder thereof having a shareholding of more than 5% (five per cent) of the paid up and subscribed share capital of such Bidder, Member or Associate, as the case may be) in the other Bidder, or Associate, is less than 5% (five per cent) of the subscribed and paid up equity share capital thereof provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in sub-section (71) of section 2 of the Companies Act, 2013. For the purposes of this Clause 2.1.21, indirect shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the "Subject Person") shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% of the subscribed and paid up equity shareholding of such intermediary; or

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Such Bidder receives or has received any direct or indirect subsidy, grant, Contractual loan or subordinated debt from any other Bidder, or has provided any such subsidy, grant, Contractual loan or subordinated debt to any other Bidder; or

Such Bidder has the same legal representative for purposes of this Bid as any other Bidder; or

Such Bidder has a relationship with another Bidder, directly or through common third party/parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Bid of either or each other; or

Such Bidder has participated as a consultant to the Authority in the preparation of any documents, design or technical specifications of the Project.

A Bidder shall be liable for disqualification and forfeiture of Bid Security if any legal, financial or technical adviser of the Authority in relation to the Project is engaged by the Bidder in any manner for matters related to or incidental to such Project during the Bidding Process or subsequent to the (i) issue of the LOA or (ii) execution of the Contract Agreement. In the event any such adviser is engaged by the Selected Bidder or Contractor, as the case may be, after issue of the LOA or execution of the Contract Agreement for matters related to or incidental to the Project, then notwithstanding anything to the contrary contained herein or in the LOA or the Contract Agreement and without prejudice to any other right or remedy of the Authority, including the forfeiture and appropriation of the Bid Security or Performance Security, as the case may be, which the Authority may have there under or otherwise, the LOA or the Contract Agreement, as the case may be, shall be liable to be terminated without the Authority being liable in any manner whatsoever to the Selected Bidder or Contractor for the same. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Bidder in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of RFP for the Project. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

PRE-QUALIFICATION OF A BIDDER:

- a) GST certificate Should be enclosed with tender.
- b) Copy of PAN Card & Latest IT Returns
- c) The bidder should have an experience of 2,00,000 Tons of waste segregation/composting/legacy waste segregation in any two years during last 10 years with suitable evidences.
- d) The bidder should have technical experience certificate for MSW or allied programmes from the respective authority.
- e) All copy of certificates in support of the above should be attested by the bidder.

Eligibility and technical qualifications

ONLY if the bidder qualified in the prequalification of this bid, the bidder can qualify the eligibility and technical criteria's as per below:

Eligibility:

S.No	Eligibility Criteria	Documents to be Submitted
FINANCIAL CRITERIA		
1.1	The Bidder, the firm, to be a company registered under the act of 1956/2013 or proprietary concern and in existence at least for 3(three) years at the end of preceding financial year, i.e., 2024-25. Joint Venture or Consortium allowed.	Copy of Certificate of Incorporation/ registration certificate.
1.2	The firm, to have declared net profit at the end of preceding financial year, i.e., 2024-25.	Copy of the balance sheet/ auditor certificate.
1.3	The Bidder to have a minimum average annual turnover of RS 10.00 Cr from Municipal Solid waste processing and management facilities in any one of the last 3 (three) financial years i..e, 2022-23, 2023-24, 2024-25 preceding the bid due date	Audited balance sheets/Auditor's Certificate.
1.4	Bidder shall have Positive Net Worth in any one of the last 3 (three) financial years preceding the Bid DueDate For the purposes of this RFP, net worth (the "Net Worth") shall mean the aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, as per the audited balance sheet, but does not include reserves created out of revaluation of assets, write back of depreciation and amalgamation.	As certified by a Chartered Accountant.
TECHNICAL CRITERIA		
2.1	1.The tenderers in their own name should have satisfactorily implementing and operating & Maintaining (O& M) MSW processing for ULB/ Semi-Government/ Govt/ Public sector organizations in India or abroad during last Ten (10) years of 100 TPD capacity ending last day of the month previous to the one in which bids are invited as a prime contractor	Copies of contract along with Certificates issued by Government Organizations

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	<p>2. The plant shall be operational during the last 5 years and the processed quantity shall be minimum 2,00,000 MT and the necessary documentary proof along with tie-ups for disposal of treated outputs needs to be submitted along with the bid submission.</p>	<p>Municipal Corporations or their equivalent entities to demonstrate its experience of developing / commissioning and operating the project in the last 05 (five) years.</p>
2.2	<p>To claim design and construction experience /operations experience, the entity claiming the experience should have been appointed/hired directly by the relevant government/private entity for execution/operations. Any subcontracting work shall not be considered.</p>	

***Note: For the purpose of this clause, work of similar nature means, processing of Municipal Solid Waste (MSW) as implied in SWM Rules 2016.**

Necessary documents have to be submitted to the satisfaction of the Authority.

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TECHNICALQUALIFICATIONS:

S.No	Technical Qualifications	Max. Marks	Documents to be Submitted
1	<p>Experience in work of Implementing and operating & Maintaining (O&M) Municipal Solid Waste (MSW) waste processing for ULB /Semi Govt. /Govt. & Public Sector Organizations in India or abroad during last seven (10) years ending last day of month previous to the one in which bids are invite:</p> <p>1. 1 (one) project of 100 TPD capacity in operation as per technical criteria prescribes in 2.2.1: 40 marksmay be considered</p> <p>2. More than 1 (one) project in operation as per Technical Criterial Prescribed in 2.2.1: 50marks;</p> <p>To claim relevant development and/or designing and constructing/operations experience, the entity claiming the experience should have been appointed/hired directly by the government/ private entity for project execution / operations. Sub-contractingwill not beconsidered.</p>	50	<p>Photocopies of project completion/ commissioning certificates, any other relevant documents /certificates should be established.</p> <p>The details should cover Bidder experience in development of the facility.</p>
2	<p>Annual turnover from projects in India in any of the last 3 (three)years:</p> <p>1. Turnover of minimum INR 10.00crore.20marks.</p>	20	Auditor / C
3	<p>Proposed Approach and Methodology of processing technology option clearly outlining the technical and other advantages of the proposed option along with the business plan and the methodology of Project development.</p> <p>Evaluation weightage:</p> <p>Technical Plan including identification of risks and mitigating plan, MRF Facility, Compost, RDF, recyclables, Leachate Handling, range of waste and characteristics and design of the plant, easement of operation and maintenance, staff charts, change and risk management,</p>	15	<p>To be submitted in the format of appendices-III of this RFP.</p> <p>Additionally, Bidders whose Bids weredeclared responsive inaccordance with Clause 3.2 and who also meet the criteria set out in Clause 2.2.1 have to give a presentation before Technical</p>
4	Presentation	15	

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S.No	Technical Qualifications	Max. Marks	Documents to be Submitted
	land calculation etc. Average: 10 Above Average: 12 Good: 15		Committee.
	Total	100	

***Necessary documents must be submitted to the satisfaction of the Authority.**

Bidders shall score minimum 70 Marks for the opening of Financial Bid.

Change inOwnership

By submitting the Bid, the Bidder acknowledges that it was pre-qualified and short- listed on the basis of its technical and financial capacity and shall hold, for entire duration of the Contract Period, equity share capital representing not less than: (i) 51% (fifty-one per cent) of the subscribed and paid-up equity of the Contractor. The Bidder further acknowledges and agrees that the aforesaid obligation shall be the minimum and shall be in addition to such other obligations as may be contained in the Contract Agreement, and a breach hereof shall, notwithstanding anything to the contrary contained in the Contract Agreement, be deemed to be a breach of the Contract Agreement and dealt with as suchthereunder.

Cost ofBidding

The Bidders shall be responsible for all of the costs associated with the preparation of their Bids and their participation in the Bidding Process. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the BiddingProcess

Site visit and verification ofinformation

Bidders are encouraged to submit their respective Bids after visiting the Ramagundam Municipal Corporation and the Project sites and ascertaining for themselves the conditions at the Project sites, surroundings, availability of power, water & other utilities for construction, access to sites, handling and storage of materials, weather data, applicable laws and regulations and any other matter considered relevant by them. No financial claims for such visits and for collection of information shall be reimbursable. The Bidders can contact Mr.JaldaArunaSree, commissioner, RamagundamMunicipal Corporation, by email:ramagundamcorp@gmail.com.

It shall be deemed that by submitting a Bid, the Bidderhas:

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- a) made a complete and careful examination of the bidding documents;
- b) received all relevant information requested from the authority;
- c) accepted the risk of inadequacy, error or mistake in the information provided in the bidding documents or furnished by or on behalf of the authority relating to any of the matters referred to in clause 2.5.1 above;
- d) satisfied itself about all matters, things and information including matters referred to in clause 2.5.1 hereinabove necessary and required for submitting an informed bid, execution of the project in accordance with the bidding documents and performance of all of its obligations thereunder;
- e) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information provided in the bidding documents or ignorance of any of the matters referred to in clause 2.5.1 hereinabove shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profit etc. from the authority, or a ground for termination of the Contract Agreement by the Contractor;
- f) acknowledged that it does not have a conflict of interest; and
- g) agreed to be bound by the undertakings provided by it under and in terms hereof.

The Authority shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP, the Bidding Documents or the Bidding Process, including any error or mistake therein or in any information or data given by the Authority.

Verification and Disqualification

The Authority reserves the right to verify all statements, information and documents submitted by the Bidder in response to the RFP or the Bidding Documents and the Bidder shall, when so required by the Authority, make available all such information, evidence and documents as may be necessary for such verification. Any such verification, or lack of such verification, by the Authority shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of the Authority thereunder.

The Authority reserves the right to reject any Bid and appropriate the Bid Security if:

- a) at any time, a material misrepresentation is made or uncovered, or
- b) The Bidder does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Bid.

Such misrepresentation/ improper response shall lead to the disqualification of the Bidder. If such disqualification / rejection occurs after the Bids have been opened and the Selected Bidder gets disqualified / rejected, then the Authority reserves the right to:

- a) Invite the second, third and so on ranked Bidders to submit their Bids in accordance with Clause 3.6.1; or
- b) Take any such measure(s) as may be deemed fit in the sole discretion of the Authority, including annulment of the Bidding Process.

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In case it is found during the evaluation or at any time before signing of the Contract Agreement or after its execution and during the period of subsistence thereof, including the Contract thereby granted by the Authority, that one or more of the pre-qualification conditions have not been met by the Bidder, or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet appointed as the Contractor either by issue of the LOA or entering into the Contract Agreement, and if the Selected Bidder has already been issued the LOA or has entered into the Contract Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this RFP, be liable to be terminated, by a communication in writing by the Authority to the Selected Bidder or the Contractor, as the case may be, without the Authority being liable in any manner whatsoever to the Selected Bidder or Contractor. In such an event, the Authority shall be entitled to forfeit and appropriate the Bid Security or Performance Security, as the case may be, as Damages, without prejudice to any other right or remedy that may be available to the Authority under the Bidding Documents and/or the Contract Agreement, or otherwise.

Incomplete tenders or tenders not fulfilling any of the conditions specified in the RFP document are liable to be rejected without assigning any reason.

DOCUMENTS

Contents of the RFP

This RFP comprises the Disclaimer set forth hereinabove, the contents as listed below, and will additionally include any Addenda issued in accordance with Clause 2.9.

Invitation for Bids

Section 1. Introduction

Section 2. Instructions to Bidders Section 3. Evaluation of Bids

Section 4. Fraud and Corrupt Practices Section 5. Pre-Bid Conference

Section 6. Miscellaneous

Appendices

I. Letter comprising Bid along with Details of Bidder in appendix I-Annex I.

II. Details of Eligible Projects

III. Technical Bid

IV. Financial Bid

V. Bank Guarantee for Bid Security

VI. Power of Attorney for signing of Bid

VII. Minimum Mandatory Technical And Performance Specifications

VIII. Construction Requirements for Waste Processing Facilities

IX. Operations and Maintenance Requirements of Waste Processing Facility

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- X. Performance Security (Proforma Of Bank Guarantee)
- XI. Anti-Collusion Certificate
- XII. Ramagundam– Project Information Memorandum

The draft Contract Agreement along with the Schedules provided by the Authority as part of the Bidding Documents shall be deemed to be part of this RFP.

Clarifications

Bidders requiring any clarification on the RFP may notify the Authority in writing and by e- mail: mc.Warangal@cdma.gov.in. They should send in their queries on or before the date mentioned in the Schedule of Bidding Process specified in Clause 1.4. The Authority shall endeavour to respond to the queries within the period specified therein, but no later than 15 (fifteen) days prior to the Bid Due Date. The responses will be sent by e-mail. The Authority will forward all the queries and its responses thereto, to all Bidders without identifying the source of queries.

The Authority shall endeavour to respond to the questions raised or clarifications sought by the Bidders before the above mentioned date. However, the Authority reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the Authority to respond to any question or to provide any clarification.

Requests for additional information, or any delay in complying with such requests, shall not, however, in any way affect the obligation of the Bidder to send the complete Bids by the deadline indicated above.

The Authority may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Bidders. All clarifications and interpretations issued by the Authority shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by Authority or its employees or representatives shall not in any way or manner be binding on the Authority.

Amendment of RFP

At any time prior to the Bid Due Date, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by a Bidder, modify the RFP by the issuance of Addenda.

Any Addendum issued hereunder will be in writing and shall be sent to all the Bidders.

In order to afford the Bidders a reasonable time for taking an Addendum into account, or for any other reason, the Authority may, in its sole discretion, extend the Bid Due Date.

PREPARATION AND SUBMISSION OF BIDS

Format and Signing of Bid

Bidder shall in its Bid provide all the information sought under the Bidding Documents. The Authority will evaluate only those Bids that are received in the required formats and complete in all respects.

The Bidder shall prepare one original set of its Bid clearly marked "ORIGINAL". In addition, the Bidder shall submit two copies of its Bid clearly marked "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.

All the pages of Bid including brochures should be made in an organized, structured, and neat manner. Brochures / leaflets etc. should not be submitted in loose form. The Bid and its copy shall be typed or written in indelible ink and signed by the authorised signatory of the Bidder who shall also initial each page, in blue ink. In case of printed and published documents, only the cover shall be initialled. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialled by the person(s) signing the Bid. Bids with erasing/overwriting/cutting which are without authentication will be liable for rejection.

Sealing and Marking of Bids

The Bid shall consist of four envelopes: Envelope 1: Documents pertaining to Eligibility;

Envelope 2: Documents pertaining to Technical Bid;

Envelope 3: Financial Bid; and Envelope 4: Copy of Documents.

The documents to be submitted in each of the envelopes shall include:

Envelope 1: Eligibility; (envelope should clearly be marked as "Envelope 1: Eligibility") and shall contain the following:

- a) Bid in the prescribed format specified at Appendix-I, Appendix I-Annex-I and Appendix-II along with the required supporting documents to demonstrate the Bidder's eligibility as set out in Clause 2.2.1 (Eligibility);
- b) Bid Security in the form of Demand Draft or in the form of a Bank Guarantee in the format at Appendix-V along with demand draft towards cost of RFP;
- c) Power of Attorney for signing of Bid
- d) Minimum Mandatory Technical And Performance Specifications
- e) Construction Requirements For Waste Processing Facilities
- f) Operations And Maintenance Requirements Of Waste Processing Facility
- g) Anti-Collusion Certificate
- h) Warangal – Project Information Memorandum (Signed)
- i) A copy of the **Draft Contract Agreement with each page** initialled by the person signing the Bid in pursuance of the Power of Attorney referred to in Clause (c) herein above.

Envelope 2: Technical Bid (this envelope should clearly be marked as "Envelope 2: Technical Bid") and shall contain the following:

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All the documents in support of technical qualification requirements as described in Clause 2.2.2 of the RFP including the Technical Bid in the format as specified at appendix III.

Envelope 3: Financial Bid (the envelope should clearly be marked as “Envelope3: Financial Bid”)

The Financial Bid shall be submitted in the format specified at appendix –IV.

A true copy of the documents accompanying the Bid, as specified in Clause2.10.2 above, shall be bound together in hard cover and the pages shall be numbered serially. Each page thereof shall be initialled in blue ink by the authorised signatory of the Bidder. This copy of the documents shall be placed in a separate envelope (Envelope 4) and marked “Copy of Documents”.

The four envelopes specified in Clauses 2.11.1, 2.11.2 and 2.11.3 shall beplaced in an outer envelope, which shall besealed. Each of the five envelopes shall clearly bear the following identification:“Bid For Setting Up of 100 TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O&M Basis at Balemla Site for Warangal Municipal Council for a period of 5 years.” – and shall clearly indicate the number of the envelope, name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right-handtopcornerofeachoftheenvelopes.Eachenvelopeshallbeindividuallysealed.

Each of the envelopes shall be addressedto:

ATTN. OF : **JaldaArunaSree**
DESIGNATION : **RamagundamMunicipal Corporation**
ADDRESS : **RamagundamMunicipal Corporation,
Warangal - 505209**

If the envelopes are not sealed and marked as instructed above, theAuthority assumes no responsibilityforthemisplacementorprematureopeningofthecontentsoftheBidssubmitted and consequent losses, if any, suffered bytheBidder.

Bids submitted by fax, telex, telegram or e-mail shall not be entertained andshallberejected.

Bid DueDate

Bids should be submitted before 15:00 hours IST on the Bid Due Date at the address provided in Clause 2.11.5 in the manner and form as detailed in this RFP. A receipt/ acknowledgmentthereofshouldbeobtainedfromthepersonspecifiedatClause2.11.5.

TheAuthoritymay,initssolodiscretion,extendtheBidDueDatebyissuinganAddendumin accordance with Clause 2.9 uniformly for allBidders.

Late Bids

Bids received by the Authority after the specified time on the Bid Due Date shall not be eligible for consideration and shall be summarilyrejected.

Modifications/Substitution/WithdrawalofBids

The Bidder may modify, substitute or withdraw its Bid after submission, provided that written notice of the modification, substitution or withdrawal is received by the Authority prior to the Bid Due Date. No Bid shall be modified, substituted or withdrawn by the Bidder on or after the Bid DueDate.

The modification, substitution or withdrawal notice shall be prepared,sealed, marked, and delivered in accordance with Clause 2.11, with the envelopes being additionally marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL”, asappropriate.

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Any alteration/modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.

Rejection of Bids

Notwithstanding anything contained in this RFP, the Authority reserves the right to reject any Bid and to annul the Bidding Process and reject all Bids at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefor. In the event that the Authority rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

The Authority reserves the right not to proceed with the Bidding Process at any time, without notice or liability, and to reject any Bid without assigning any reasons.

Validity of Bids

The Bids shall be valid for a period of not less than 120 (one hundred and twenty) days from the Bid Due Date. The validity of Bids may be extended by mutual consent of the respective Bidders and the Authority.

Confidentiality

Information relating to the examination, clarification, evaluation and recommendation for the Bidders 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 Bidding Process. The Authority will treat all information, submitted as part of the Bid, 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.

Correspondence with the Bidder

Save and except as provided in this RFP, the Authority shall not entertain any correspondence with any Bidder in relation to acceptance or rejection of any Bid.

Bid Security

The Bidders shall furnish as part of its Bid, a Bid Security referred to in Clauses 2.1.5 and

2.1.6 hereinabove in the form of Demand Draft drawn on a nationalized bank, or a Scheduled Bank in India in favour of Commissioner, Greater Warangal Municipal Corporation payable at Warangal (the "Demand Draft") and having a validity period of not less than 120 (one hundred twenty) days from the Bid Due Date, and may be extended as may be mutually agreed between the Authority and the Bidder from time to time bank guarantee issued by a nationalized bank, or a Scheduled Bank in India, in favour of Commissioner, Greater Warangal Municipal Corporation "in the format at Appendix-V (the "Bank Guarantee") and having a validity period of not less than 120 (one hundred twenty) days from the Bid Due Date, inclusive of a claim period of 60 (sixty) days, and may be extended as may be mutually agreed between the Authority and the Bidder from time to time. For the avoidance of doubt, Scheduled Bank shall mean a bank as defined under Section 2(e) of the Reserve Bank of India Act, 1934.

The Authority shall not be liable to pay any interest on the Bid Security deposit so made and the same shall be interest free.

Any Bid not accompanied by the Bid Security and the Demand Draft towards the cost of RFP shall be summarily rejected

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by the Authority as non-responsive.

Save and except as provided in Clause 1.3.4 above, the Bid Security of unsuccessful Bidders will be returned by the Authority, without any interest, as promptly as possible on acceptance of the Bid of the Selected Bidder or when the Bidding process is cancelled by the Authority, and in any case within 90 (ninety) days from the Bid Due Date. Where

Bid Security has been paid by demand draft, the refund thereof shall be in the form of an account payee demand draft in favour of the unsuccessful Bidder(s). Bidders may by specific instructions in writing to the Authority give the name and address of the person in whose favour the said demand draft shall be drawn by the Authority for refund, failing which it shall be drawn in the name of the Bidder and shall be mailed to the address given on the Bid.

The Selected Bidder's Bid Security will be returned, without any interest, upon the Contractor signing the Contract Agreement and furnishing the Performance Security in accordance with the provisions thereof. The Authority may, at the Selected Bidder's option, adjust the amount of Bid Security in the amount of Performance Security to be provided by him in accordance with the provisions of the Contract Agreement.

The Authority shall be entitled to forfeit and appropriate the Bid Security as Damages inter alia in any of the events specified in Clause 2.19.7 herein below. The Bidder, by submitting its Bid pursuant to this RFP, shall be deemed to have acknowledged and confirmed that the Authority will suffer loss and damage on account of withdrawal of its Bid or for any other default by the Bidder during the period of Bid validity as specified in this RFP. No relaxation of any kind on Bid Security shall be given to any Bidder.

The Bid Security shall be forfeited as Damages without prejudice to any other right or remedy that may be available to the Authority under the Bidding Documents and/ or under the Contract Agreement, or otherwise, if

- a) Bidder submits a non-responsive Bid;
- b) Bidder engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as specified in Clause 4 of this RFP;
- c) Bidder withdraws its Bid during the period of Bid validity as specified in this RFP and as extended by mutual consent of the respective Bidder(s) and the Authority;
- d) the Selected Bidder fails within the specified time limit
 - i. to sign and return the duplicate copy of LOA; or
 - ii. to sign the Contract Agreement; or
 - iii. to furnish the Performance Security within the period prescribed therefor in the Contract Agreement.
- e) the Selected Bidder, having signed the Contract Agreement, commits any breach thereof prior to furnishing the Performance Security.

3 EVALUATION OF BIDS

Opening and Evaluation of Bids

Based on the Documents Uploaded in online portal by the bidder towards the Pre-Qualification Criteria against the Document evidence provided on e-procurement platform, the evaluation is carried out.

Only those Bidders who score a minimum of 70 marks in the technical qualifications as set out in Clause 2.2.2 shall be shortlisted for opening of the Financial Bids.

Even though the bidders score qualification marks, they are subject to disqualification if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements, and / or record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failure etc.

The Financial Bids of those Bidders whose Technical Bids were declared non-compliant as per Clause 3.4.2 or who score less than 70 marks in the technical qualification criteria shall be returned to the Bidders unopened.

The Technical Committee will prepare the list of shortlisted Bidders and they will be intimated at the email addresses as provided to the Authority.

Evaluation of FINANCIAL BID

The Authority shall open the Financial Bids in e-procurement of those Bidders who have been shortlisted for further evaluation.

The Bidder with lowest assessed Bid Price shall be the Lowest Bidder and shall be the Selected Bidder, subject to the provisions of this RFP

Selection of Bidder

The Lowest Bidder L1 will be awarded the work with the requirements specified in RFP

In the event that, the assessed Bid Price of two or more Bidders is the same (the "Tie Bids"), the Authority shall declare the selected Bidder as the Bidder who has scored highest marks among the min Technical Bid evaluation.

After selection, a Letter of Award (the "LOA") shall be issued, in duplicate, by the Authority to the Selected Bidder and the Selected Bidder shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the Selected Bidder is not received by the Authority by the stipulated date, the Authority may, unless it consents to extension of time for submission thereof, appropriate the Bid Security of such Bidder as Damages on account of failure of the Selected Bidder to acknowledge the LOA, and the next eligible Bidder may be invited for negotiations.

After acknowledgement of the LOA as aforesaid by the Selected Bidder, it shall cause the Contractor to execute the Contract Agreement within the period prescribed in Clause 1.4. The Agreement shall be executed in two copies in English language, each party receiving one original copy. The Selected Bidder shall not be entitled to seek any deviation, modification or amendment in the Contract Agreement.

On signing of the Contract Agreement, the Contractor shall intimate the name of the principal officer who will be acting for and on behalf of the Contractor in all its relations and communications with the Authority. If there is any change in the principal officer, Contractor shall intimate such change to the Authority immediately.

Contacts during Bid Evaluation

Bids shall be deemed to be under consideration immediately after they are opened and until such time the Authority makes official intimation of award/ rejection to the Bidders. While the

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Bids are under consideration, Bidders and/ or their representatives or other interested parties are advised to refrain, save and except as required under the Bidding Documents, from contacting by any means, the Authority and/ or their employees/ representatives on matters related to the Bids under consideration.

4 FRAUD AND CORRUPT PRACTICES

The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process and subsequent to the issue of the LOA and during the subsistence of the Contract Agreement. Notwithstanding anything to the contrary contained herein, or in the LOA or the Contract Agreement, the Authority may reject a Bid, withdraw the LOA, or terminate the Contract Agreement, as the case may be, without being liable in any manner whatsoever to the Bidder or Contractor, as the case may be, if it determines that the Bidder or Contractor, as the case may be, has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process. In such an event, the Authority shall be entitled to forfeit and appropriate the Bid Security or Performance Security, as the case may be, as Damages, without prejudice to any other right or remedy that may be available to the Authority under the Bidding Documents and/ or the Contract Agreement, or otherwise.

Without prejudice to the rights of the Authority under Clause 4.1 hereinabove and the rights and remedies which the Authority may have under the LOA or the Contract Agreement, or otherwise if a Bidder or Contractor, as the case may be, is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, or after the issue of the LOA or the execution of the Contract Agreement, such Bidder or Contractor shall not be eligible to participate in any tender or RFP issued by the Authority during a period of 2 (two) years from the dates such Bidder or Contractor, as the case may be, is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

For the purposes of this Clause 4, the following terms shall have the meaning hereinafter respectively assigned to them:

- a) "Corrupt Practice" means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Contract Agreement or arising therefrom, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) save and except as permitted under the Clause 4.1.3 of this RFP, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the Authority in relation to any matter concerning the Project;
- b) "Fraudulent Practice" means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;
- c) "Coercive Practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;

- d) "Undesirable practice" means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) Having a Conflict of Interest; and
- e) "Restrictive practice" means forming a cartel or arriving at any understanding or arrangement among Bidders with the object restricting or manipulating a full and fair competition in the Bidding Process.

5 PRE-BID CONFERENCE

Pre-Bid Conference of the Bidders will be held as given hereunder so as to clarify bidders' doubts, if any, in respect of RFP.

Date	Time	Venue
		Commissioner, Ramagundam Municipal Corporation

Only authorized representatives of the Bidders shall be allowed to participate in the pre-Bid conference. The representatives shall produce the authority letters at the pre-Bid meeting.

During the course of pre-Bid conference, the Bidders will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

The Authority will consolidate all the written queries and any further queries that may come up for discussion during the pre-bid meeting and the replies to the queries shall be communicated at the email addresses provided by the respective Bidders. The clarifications of the Authority to the Bidders' queries and the amendment / corrigendum furnished hereof shall become a part and parcel of the RFP and the same shall be binding on the Bidders.

6 MISCELLANEOUS

The Bidding Process shall be governed by, and construed in accordance with, the laws of India and including but not limited to laws of Government of Telangana and the CDMA, Government of Telangana Rules and Regulations in force and as amended from time to time; and the Courts in Hyderabad shall have exclusive jurisdiction in all disputes arising under, pursuant to and/ or in connection with the Bidding Process.

The Authority, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to;

- a) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;
- b) consult with any Bidder in order to receive clarification or further information;
- c) retain any information and/ or evidence submitted to the Authority by, on behalf of, and/ or in relation to any Bidder;
- d) independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidder; and/or

- e) amend, modify or re-issue the Bidding Documents or any part thereof.

It shall be deemed that by submitting the Bid, the Bidder agrees and releases the Authority, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection with the Bidding Process and waives, to the fullest extent permitted by applicable laws, any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or in future.

Any environmental and social impact assessment to be performed by the Bidders shall be done in accordance with applicable social and environmental laws (meaning all applicable statutes, laws, ordinances, rules and regulations of India, including without limitation, all authorization setting standards concerning environmental, social, labour, health and safety or security risks).

The design of mitigation measures following the environmental and social impact assessment shall be carried out in compliance with applicable social and environmental laws.

The Selected Bidder shall agree to operate the Project with a documented environmental, health and safety, and social management system.

APPENDIX I LETTER FOR THE BID

(On Bidder's Letter Head/ Lead Member)

To,

Date:

The Commissioner,
RamagundamMunicipal
Corporation

Sub:

Bid(s) submitted for: Establishment of Operation of Municipal Solid Waste Processing Facility, in Greater Warangal Municipal Corporation

With reference to your RFP Document dated -----, I/we, having examined all relevant documents and understood their contents, hereby submit our Bid for selection as Contractor for the subject project. The Bid is unconditional and unqualified.

2. I/We acknowledge that the Authority will be relying on the information provided in the Bid and the documents accompanying the Bid for selection of the Contractor, and we certify that all information provided in the Bid and in the appendices, are true and correct, nothing has been omitted which renders such information misleading; and all documents accompanying such Bid are true copies of their respective originals.
3. The Bid is being submitted for the express purpose of qualifying as a Selected Bidder for the aforesaid Project.
4. I/We shall make available to the Authority any additional information it may deem necessary or require for supplementing or authenticating the Bid.
5. I/We acknowledge the right of the Authority to reject our application without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
6. I/We certify that in the last three years, we have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.
7. I/We certify that we are not barred by the Government of Telangana or any other State Government in India or the Government of India, or any public agencies from participating in similar projects as on [] (Bid Due Date).
8. I/We declare that:
 - a. We have examined and have no reservations to the RFP Documents, including any Addendum issued by the Authority;
 - b. I/We do not have any conflict of interest as mentioned in the Bidding Documents;
 - c. I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or

restrictive practice in respect of any tender or REQUEST FOR PROPOSAL issued by or any agreement entered into with the Authority or any other public-sector enterprise or any government, Central or State;and

- d. I/We here by certify that we have taken steps to ensure that in conformity with the provisions of Clause 4 of the RFP, no person acting for us or on our behalf will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictivepractice.
9. I/We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Bid that you may receive nor to select the Contractor, without incurring any liability to theBidders
10. I/We certify that I/we or any of our Members have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast a doubt on our ability to undertake the Project for the Project or which relates to a grave offence that outrages the moral sense of thecommunity.
11. I/We further certify that in regard to matters relating to security and integrity of the country, I/we have not been charge-sheeted by any Government agency or convicted by a Court of Law.
12. I/We further certify that no investigation by a regulatory authority is pending either against me/us/any Member or against our chief executive officer or any of my/our directors/managers/employees.
13. I/We hereby irrevocably waive any right or remedy which we may have at any stage at law or how so ever otherwise arising to challenge or question any decision taken by the Authority and/ or the Government of India in connection with the selection of the Contractor or in connection with the Bidding Process itself, in respect of the above -mentioned Project and the terms and implementationthereof.
14. I/We agree and undertake to abide by all the terms and conditions of theRFP.
15. I/We agree and undertake to be jointly and severally liable for all our obligations as per the provisions set out under the ContractAgreement.

In witness thereof, I/we submit this Bid under and in accordance with the terms of the RFP.

Yours faithfully,

(Signature, name and designation of the authorized signatory) (Name and seal of the Bidder)

APPENDIX I – ANNEX I

DETAILS OF BIDDER

1.
 - a. Name:
 - b. Country of incorporation:
 - c. Address of the corporate headquarters and its branch office(s), if any, in India:
 - d. Date of incorporation and/ or commencement of business (provide a true copy of the incorporation certificate):

2. Brief description of the Bidder including details of its main lines of business and proposed role and responsibilities in this Project:

3. Details of individual(s) who will serve as the point of contact/ communication for the Authority:
 - a. Name:
 - b. Designation:
 - c. Company:
 - d. Address:
 - e. Telephone Number:
 - f. e-Mail Address:
 - g. Fax Number:

4. Particulars of the Authorized Signatory of the Bidder:
 - a. Name:
 - b. Designation:
 - c. Address:
 - d. Phone Number:
 - e. Fax Number

APPENDIX II

DETAILS OF ELIGIBLE PROJECTS

Name of the Bidder claiming the project development/O&M experience:

Project development/Design & construction Experience (Table1)

S No.	Project Category (waste/MSWPF, etc.)	Project Details
1		<ol style="list-style-type: none"> 1. ProjectTitle: 2. Location: 3. Type of Contract (EPC, BOT, etc.) &duration: 4. Year of award: 5. Date of commencement of theproject; 6. Project completion/commissioning/ commercial operations date: 7. Projectdescription: 8. Project Cost/Contractvalue: 9. Designcapacity: 10. Description of the projecttechnology: 11. Description of the product treated, and compost / gas / electricity, etc., produced perday: 12. Marketing arrangements for the endproduct: 13. Complete role of the Bidder: 14. Client (government/private authority) contact person Name, designation and contact details for whom the project was developed/executed: 15. Any other relevantinformation:

Project O & M Experience (Table 2):

S No.	Project Category (solidwaste/MSWPF, etc.)	Project Details
1		1. ProjectTitle: 2. Location: 3. Type of Contract (O&M Contract, etc.)&duration: 4. Year of award: 5. Date of commencement of theproject; 6. Project completiondate: 7. Projectdescription: 8. Project Contractvalue: 9. Designcapacity: 10. Description of the projecttechnology: 11. Description of the product treated, and compost / gas / electricity,etc., 12. produced perday: 13. Marketing arrangements for the endproduct. 14. Complete role of the Bidder: 15. Client(government/private authority) contact person Name, designation and contact details for whom the project was developed/executed: 16. Any other relevantinformation:

*To be provided where, as part of scope of work, only O & M of the project is covered; and where project development covering both construction and the operation had been undertaken under the scope of work, Table 1 to be used.

2. The above table(s) should contain the summary details that need to be provided for the projects that the Bidder wishes to showcase as relevant experience in support of both project development/design & construction and O & M experience over thelast 5years.
3. Bidders can showcase a maximum of 10 (ten) projects for each of the above categories, considered most relevant by theBidders.

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4. For each project showcased, the following details (along with the supporting documents) should be closed to demonstrate the Bidder's fulfillment of eligibility and qualification criteria as stipulated in Clause 2.2.1 & Clause 2.2.2 of theRFP:
5. a work order/contract agreement/certificate from the client for each of the projects showcased. Such documents should at least state thefollowing:
 - a. scope of work and contract type;
 - b. technology employed and capacity in terms ofTPD;
 - c. date of award and commercial operations date / project commissioning date; contract duration; and a certificate, if any, on the current status of theproject.

APPENDIX III

FORMAT OF TECHNICAL PROPOSAL

The Bidders shall provide a Technical Proposal based on the requirements given in the RFP, setting out the proposed technology, process flow-chart with design values for inputs and outputs at each stage, with plan for implementation and operation of the Project. The Technical Proposal shall comprise the approach and methodology for processing of municipal solid waste, implementation schedule and timelines, manpower deployment, etc. The Technical Proposal shall be in adherence to all the regulatory guidelines/norms/standards, etc., and the requirements set out in the draft Contract Agreement.

The Technical Proposal shall cover the following aspects

A. Technical Plan for Construction/Rehabilitation of all parts of the value- chain

covering the following things:

- i. Design basis: Process flow-chart with design values for inputs and outputs for all the unitoperations.
- ii. Process description accompanying process flow-chart with covering the following things briefly:
 - a. Mass Balance calculations for the process flow-chart indicating waste loading rates/process period and efficiency of unitoperations;
 - b. Dimensioned layout of treatment components within siteplan;
 - c. Energyconsumption.
- iii. Broad engineering aspects with materials specifications:
 - a. Materials specifications, equipment/machinery used, structural aspects, specifications for, etc.
 - b. Dimensioned layout including associated infrastructure such as internal roads, waste receiving station, internal drainage and any other facility as required for the safe and efficient operation of the treatment facility;
 - c. Anticipated life in years for components including civil, electromechanical and any other machinery installed;
 - d. Procurement/Construction/installation/implementation plan along with quality control protocols, QA testing, etc.,

- iv. Area allocation statement – land requirements, the area utilization plan for the site and Project facilities including processing facility, any other facilities and common areas etc.
- v. Implementation Plan – present a detailed activity schedule along with milestones in line with the requirements set out in the draft Contract Agreement. This should include a schedule for procuring, installing, and deploying equipment and trial run and testing at the site. This should also outline the timeline envisaged for obtaining various Government approvals.
- vi. Salient features of the proposed technology and Plant & Equipment deployed: To cover range of waste characteristics the designed plant can handle, bio degradable, recyclable, combustible and domestic hazardous waste and Output parameters, etc.

B. Operation & Maintenance Plan:

- i. Process Flow Chart and Material Balance Statement setting out the activities and the outputs at each stage.
- ii. Calculations and methodology for operations with respect to processing of waste.
- iii. Resource Utilization Statement indicating the proposed equipment procurement and utilization, contracting activities, utilization of office and other facilities.
- iv. The maintenance (regular & emergency) schedules should also be indicated over the entire Contract Period.
- v. Re-use of treated outputs (compost, recyclables and combustibles).
- vi. Details on net energy consumption/TPD of waste treated.

C. Organization & Staffing:

To present the calculations for manpower requirement both during Construction and also during O & M period. Proposed organization structure and composition of the project and operational team to be presented, including staff deployment plan, suitable timings for plant operations and roles and responsibilities. Bidders should indicate the number of staff to be sourced locally.

D. Change Management Plan:

Bidders should propose the strategies and technology framework to support project implementation and transition to the new system –

- i. Plan during transition from the Authority run system to private run system.

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- ii. Information, Education and Communication awareness campaigns and related initiatives to be launched in nearby habitations.
- iii. Mechanism for grievance redressal and/or customerservice.

E. Identification of Risks and Mitigationplan:

Ability of the system to ensure all weather operations and be able to handle variable inputs of varying characteristics, ability of the system to handle anticipated shocks such as floods, soil-subsidence, power outage, process hazard if chemical or biological materials are used, etc., and measures for mitigatingrisks.

F. Environment, Health & Safety Policy andPractice:

The Bidders shall indicate compliance mechanism towards environment, health and safety regulations, as applicable to the Project which are proposed to be adopted during the entire Contract Period.

Appendix IV

FINANCIAL BID

[On the Letter head of the Bidding Firm]

TheCommissioner,

Date:

Ramagundam Municipal Corporation

Sub: Financial Bid for “setting up of Solid Waste Processing Facility in RamagundamMunicipal CorporationofTelangana State on DBOTba

Sir:

As a part of the Bid for implementing the subject Project, we hereby submit the following Bid Price as our quote to the Commissioner, Gre Corporation.

For implementing the subject Project, our financial quote is as mentioned in the table below:

100 TPD MSW Processing Plant, Warangal, Telangana					
S. No	Description	Quantity	Unit	Rate (INR/Unit)	Cost (Cr.)
1	MRF Civil Work (Required Civil Works at Rampur Dumping Yard)	1	JOB		
2	Machinery				
2.1	Weigh Bridge	2	Nos		
2.2	Mechanical Sorting Conveyor Belt	1	Job		
2.3	Trommel (40 mm & 4-6 mm)	1	No		
2.4	Bailing Machines	6	Nos		
2.5	Shredder	5	Nos		
2.6	Air Blowers	7	Nos		
2.7	Fork Lift	2	Nos		
2.8	Leachette Treatment Unit	1	No		
3	Other				

Setting Up of 100 TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O & M Basis at DRCC for RMC for a period of 5 years

3.1	Total Station Survey	1	LS		
3.2	Soil Testing	1	LS		
3.3	MSW Analysis	1	LS		
3.4	Planning and Design of the Plant and Facility	1	LS		
3.5	Misc.	1	LS		
4	Capital Requirement for Processing Plant (Total of 1 to 3)				
5	1st year O&M Requirement for Processing Plant				
6	Price Bid Value (Total of 4 and 5)				

All the above prices exclude GST costs and the same shall be paid extra by the Greater Warangal Municipal Corporation

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&M BasisatDRCC for RMC foraperiodof5years

If the Authority selects us as the Contractor for this Project, we will abide by the above quote, terms and conditions of the RFP and the mechanism for arriving at the assessed Bid Price by the Authority. We also understand that, in case any difference between the quoted amount in words and figures, the quote in words will be taken as final.

We also enclose the "Attachment C - Calculation sheet for arriving at assessed Bid Price", duly incorporating our Bid Project Cost and our 1st year O & M cost, to this Financial Bid, for your reference.

We agree that this offer shall remain valid for a period of one hundred and twenty (120 days) from the Bid Due Date or such further period as may be mutually agreed upon.

Yours faithfully,

(Signature of Authorized Signatory)

(Name, Title, Address, Date)

Note: 1. The financial Bid to be submitted strictly as per the above format. Non-compliance to the above format shall disqualify the firm's Bid.

Setting Up of 100TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O
& M Basis at DRCC for RMC for a period of 5 years

APPENDIX V

Bank Guarantee for Bid Security

PROFORMA

BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

WHEREAS (Name of the Contractor) (here in after called “the Bidder”) has submitted his tender response to NIT No..... dated:..... for the work “” (Name of work) (hereinafter called “the tender”).

KNOWN ALL MEN by these present that we (Name and Address of Bank) (hereinafter called “the Bank” are bound unto) / (name of the designated S.E) in the sum of * for which payment will and truly to be made to the said Department, the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the Bank this day of20....

THE CONDITIONS of this obligation are:-

- (1) If after Tender opening the bidder withdraws or modifies his Bid during the period of bid validity specified in the Form of Tender.
- (2) If the Bidder having been notified of the acceptance of his bid by the Department during the period of validity.
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the balance EMD and additional performance Security in accordance with the instructions of Bidders.

We undertake to pay to the Department up to the above amount upon receipt of his first written demand, without the Department having to substantiate his demand, provided that in his demand the Department will note the amount claimed by him is due to him owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date** after the dead line for submission of Tenders as such deadline is stated in the Instructions to Tenders or as it may be extended by the Department, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK
WITNESS..... SEAL.....

(Signature, Name and Address)

* The Bidder should insert the amount of the EMD in words and figures denominated in Indian Rupee. This figure should be the same as shown in the NIT.
** 6 months from the deadline date for submission of Tender [As specified in NIT].

APPENDIX- VI

Power of Attorney for signing of Bid (in case of a consortium)

Know all men by these presents, we..... (Name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authoriseMr/ Ms (name), son/daughter/wifeof and presently residing at, who is presently employed with us and holding the position of, as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for qualification and submission of our bidfor

Setting Up of 100 TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O&M Basis at DRCC forRamagundam Municipal Council for a period of 5 year (the "Project") proposed or being developed by theRamagundam Municipal Council (the "Authority") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in Pre-Bid and other conferences and providing information/ responses to the Authority representing us in all matters before the Authority, signing and execution of all contracts including the Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of theAgreement.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done byus.

IN WITNESS WHEREOF WE,, THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF 20.....

For.....

Signature, name, designation and address)

Witnesses:

1.

(Notarised)

2.

Accepted

Setting Up of 100TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O
& M Basis at DRCC for RMC for a period of 5 years

..... (Signature)

(Name, Title and Address of the Attorney)

Notes:

- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.
- Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.

APPENDIX VII

MINIMUM MANDATORY TECHNICAL AND PERFORMANCE SPECIFICATIONS

GENERAL DESIGN STANDARDS

All Design, Works and Operation have to be in accordance to a "General Quality Standard" that means a standard of performance which,

- i. is competent, efficient, economical and in accordance with techniques used in the waste disposal industry;
- ii. is in accordance with professional engineering, accounting and consulting standards, as applicable, recognized by professional bodies;
- iii. is in accordance with sound management, commercial, technical, design and engineering practices;
- iv. employs appropriate technology and safe and effective equipment, machinery and methods;
- v. protects the interests of the Authorities;
- vi. is in accordance with the Solid Waste Management Rules, 2016; the Operator shall, at all times, carry out the Works and Services in accordance with the Technical Standards as specified and, where a specific technical standard of quality of performance has not been specified, the Operator shall perform the Services to the standard of "General Quality Standards" as set out above.

STRUCTURAL REQUIREMENTS

- i. One office room along with computer for day to day monitor and reporting of processing activities
- ii. Toilets, change room and wash area for workers.
- iii. One weigh bridge along with cc tv and online reporting equipment.
- iv. One shed with sections for storage of all types of segregated waste and machinery shed.
- v. Windrow platforms

MACHINERY REQUIREMENT:

Waste processing machinery which includes,

- i. Receiving conveyor
- ii. Auto feeder
- iii. Trommel
- iv. Magnetic separator
- v. Air density separator
- vi. Trommel reject conveyor
- vii. Manual segregation conveyor
- viii. Hydraulic Bailer
- ix. Organic waste shredder
- x. Vibratory sieve

APPENDIX VIII

CONSTRUCTION REQUIREMENTS FOR WASTE PROCESSING FACILITIES

1 General

- i. The minimum facilities to be provided in the Waste Processing Facilities which are to be implemented by the Contractor as part of the Project have been highlighted in this Schedule.
- ii. The Waste Processing Facilities shall conform to the minimum design requirements set out in this Schedule and to the MSWRules.

2 Overall DesignParameters

- i. Area

The area utilisation for development of the Project Facilities shall be as per the Applicable Laws, Good Industry Practices and in accordance with the Construction Requirements and O&M Requirements.

The location of the Waste Processing Facility shall be such as to allow access from outside the Site without transgressing the Landfill Facility

- ii. Capacity

The Contractor shall design the Waste Processing Facilities so as to have the minimum capacities for Processing 100 TPD of Municipal Solid Waste at the start of operations of the plant.

3 List of MandatoryFacilities

The Contractor shall provide the facilities in the manner as set out in the scope of work and BoQ. The Contractor, subject to review and approval of the same by IE cum PMC / the Authority (ULB), may adopt alternate designs for the Mandatory Waste Processing Facilities.

- i. WeighBridge
 - a. The Contractor shall provide one weigh bridge with two independent weighing platforms of rated capacity of 40 metric tonnes each at the entry gate to each of the waste processing facilities. Each weighing platform shall have minimum dimensions of 12 m length and 3 mwidth
 - b. The weigh bridge shall meet the minimum technical specifications set out in the Tablebelow.
- ii. Municipal Solid Waste Inspection/ReceivingArea

The Contractor shall, for the purpose of inspection of Municipal Solid Waste by the IE cum PMC, as required under Article 5.12, provide a separate area ("Municipal Solid Waste Inspection Area") in each of the Waste Processing Facilities, which shall meet the minimum technical specifications set out in Table below.

Setting Up of 100 TPDMunicipal Solid Waste Processing, Treatment and Management Facility on EPC and O & M Basis at DRCC for RMC for a period of 5 years

Parameter	Specifications
Platform	Open platform constructed using non-suspended reinforced cement concrete slabs Minimum area: 50 sqm
Construction	Levelling of the ground shall be done with approved earth having permeability coefficient (to leachate) and measured in field not greater than 1.0×10^{-7} cm/sec and subsequently compacted at 90% modified Proctor Density 50 mm thick PCC to be provided 100 mm thick RCC flooring on top of the PCC. 2% slope shall be provided for platform Lined drains shall be provided for collection of leachate and surface run-off

iii. Water Supply System

The Contractor shall be provided a water supply system adequate to meet the requirements for Processing of Municipal Solid Waste, drinking and washing purposes in accordance with Good Industry Practice.

iv. Worker Amenities

The Contractor shall provide workers amenities in the Project Facilities accordance with Good Industry Practice.

v. Other Electrical Works

The Contractor shall provide all electrical equipment and implement all electrical works in the Waste Processing Facilities in accordance with Good Industry Practices and as per the drawings approved by the IE cum PMC. The Contractor shall provide power back-up to ensure operation of at least the following facilities:

- a. Weighbridge
- b. Lighting of work area
- c. Leachate circulation system
- d. Water supply system

vi. Name Board

The Contractor shall erect two signboards, one in local language and the other in English, of a size not less than 2 ft. by 4 ft each, adjacent to the main entrance to each of the Waste Processing Facilities in a manner such that it is ordinarily visible to any person using such entrance. The signboard shall prominently display the following text in English (and its translation in local language) in black upper-case letters on a white/yellow background:

“This property belongs to the Ramagundam Municipal Corporation and has been handed over to M/s _____ for Setting Up of 150 TPDMunicipal Solid Waste Processing, Treatment and Management Facility on EPC and O&M Basis at DRCC Dumping Site for Ramagundam Municipal Corporation for a period of 5 years”.

vii. Compost Windrow and MRF Platform

The Contractor shall, for the purpose of Processing of Municipal Solid Waste, provide windrow platforms ("Windrows"), which shall meet the minimum technical specifications as set out in Table below.

Parameter	Specifications
Platform	<ul style="list-style-type: none"> ▪ Open platform constructed using non-suspended reinforced cement concrete slabs ▪ The area of the Windrow shall be adequate for Processing the quantity of Municipal Solid Waste as set out in the RFP document.
Construction	<ul style="list-style-type: none"> ▪ Levelling of the ground shall be done with approved earth having permeability coefficient (to leachate) and measured in field not greater than 1.0×10^{-7} cm/sec and subsequently compacted at 90% modified Proctor Density ▪ 50 mm thick PCC to be provided ▪ 100 mm thick RCC flooring on top of the PCC. ▪ Platform slabs shall be laid with adequate expansion and contraction joints to prevent leachate percolation to the ground ▪ 2% slope shall be provided for platform ▪ Lined drains shall be provided for collection of leachate and surface run-off

4 Codes and Standards

- i. The following standards in order of preference shall be adopted in consultation with the IE cum PMC, unless otherwise specified:
 - a. SWM Rules 2016
 - b. Bureau of Indian Standards (BIS)
 - c. Any other standards specified by statute and Applicable Laws
- ii. All items of building works shall conform to Central Public Works Department (CPWD) specifications for Class 1 building works and standards given in the National Building Code (NBC)

5 Procedure

Before Commencement of construction

- i. Prior to commencement of any construction activity, the Contractor shall finalise an

implementation plan for the Project ("Implementation Plan") in consultation with the Engineer.

- ii. Prior to commencement of any construction activity, the Contractor shall also finalise in consultation with the engineer

During Construction

- i. The Contractor shall:
 - a. Ensure that the construction/ rehabilitation of the Project Facilities is undertaken with minimal inconvenience to the traffic using the existing access road to the Sites.
 - b. Take precautions to avoid inconvenience to, damage to, destruction of or disturbance to any third party rights and properties;
 - c. (c) ensure adequate safety of the personnel deployed at the Proposed Site which would include measures such as the provision and maintenance of barricades, and illumination during night in consultation with the Engineer
 - d. be in compliance with the Applicable Laws and Applicable Permits obtained for the Project including the clearances obtained by the Authority;
 - e. Adhere to the Implementation Plan and O&M Plan-Implementation Period;
 - f. deploy adequate number of qualified and competent personnel having relevant experience and skills for implementation of the Project and interaction with the IE cum PMC/ the Authority

After Completion of Construction

Upon completion of construction but prior to issue of the completion Certificate, the Sites shall be cleared of all construction equipment, surplus materials, debris and temporary installations and shall be left in a tidy and clean manner and to the satisfaction of the Engineer.

Reporting Requirements and Documents to be provided

- i. During the period of construction of the Project (the "Implementation Period"), the Contractor shall submit, Monthly Project Progress Reports (for each calendar month or part thereof) within 5 working days of the last day of the month. operations and maintenance activities undertaken and would, inter alia, include the following:
 - a. Listing of working drawings/sketches submitted
 - b. Comments of Engineer, if any on the working drawings/sketches submitted
 - c. Contractor's response to the comments on the Drawings/sketches
 - d. Listing of the "As Built" drawings submitted
 - e. Progress of pre-construction activities - mobilization of plant and equipment, personnel, site office, utility relocation etc.
 - f. Contractor's compliance inspection report, if any required
 - g. Constraints in construction
 - h. Project data with contract detail and sectional completion details

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& M Basis at DRCC for RMC for a period of 5 years

- i. Tests carried out, if any, and results thereof
- j. Remedial measures taken by the Contractor following such tests, where required
- k. Review of milestones and reasons for delay, if any
- l. Suspension of construction, if any, its reasons, duration and the steps undertaken to resume construction
- m. All actual or potential deviations from the Implementation Plan
- n. Disagreements/ Disputes, if any, and proposed measures to be taken
- o. Maintenance activities carried out by the Contractor
- p. Injury to any personnel, its severity, cause and remedial measure(s) taken to avoid recurrence
- q. Brief report of any accident / incident within the Sites, injury/fatality, property damage, cause of accident and actions taken to avoid recurrence
- r. Notes of meetings between the Contractor and the IE cum PMC highlighting critical decisions taken or agreements reached.

a.

APPENDIX IX

Operations and Maintenance Requirements of Waste Processing Facility

A General

- i. The Contractor shall comply with the O&M Requirements set out in this Schedule. In doing so, the Contractor shall ensure that the Waste Processing Facilities are maintained to the standards and specifications as set out in the Construction Requirements and also meet the other requirements, if any, set out in the Agreement.
- ii. In the design, planning and implementation of all works and functions associated with the operation and maintenance of the Waste Processing Facilities, the Contractor shall take all such actions and do all such things (including without limitation, organising itself, adopting measures and standards, executing procedures including inspection procedures, and engaging contractors, if any, agents and employees) in such manner, as will:
 - a. ensure the safety of personnel deployed on and users of the Waste Processing Facilities or partthereof;
 - b. permit unimpaired performance of statutory duties and functions of any party in relation to theProject;
- iii. During the Active Operations Period and till the date of handover of the Waste Processing Facilities, the Contractor shall, in respect of the Waste Processing Facilities, ensurethat:
 - a. applicable and adequate safety measures aretaken;
 - b. adverse effects on the environment and to the owners and occupiers of property and/or land in the vicinity of the Waste Processing Facilities, due to any of its actions, is minimized;
 - c. any situation which has arisen or likely to arise on account of any accident or other emergency is responded to as quickly as possible and its adverse effects controlled/minimized;
 - d. data relating to the operation and maintenance of Waste Processing Facilities is collected, recorded and available for inspection by respectiveagencies.
 - e. all materials used in the maintenance, repair and replacement of any of the Waste Processing Facilities shall meet the ConstructionRequirements;
 - f. the personnel assigned by the Contractor have the requisite qualifications and experience and are given the training necessary to enable the Contractor meetthe

O&M Requirements.

B Operations and Maintenance Manual and O&M Plans

- i. Prior to making application for the Readiness Certificate for the Project the Contractor shall finalise in consultation with the Engineer:
 - a. the O&M Manual (including the formats for the reports to be submitted during the Active Operations Period and the Post Closure Period)
 - b. the O&M Plan for the first year of operations.
- ii. The Contractor shall submit to the IE cum PMC and the Authority an annual O&M Plan for the next year of operations or may inform only the changes made in the existing O&M Plan, if any, in the month of November of every year after COD.

C Weighment, Acceptance and Rejection of Municipal Solid Waste

- i. Weighment of Municipal Solid Waste
 - a. The Contractor shall provide for a weigh-bridge in accordance with the Construction Requirements for Weighment of the Municipal Solid Waste supplied by the Authority.
 - b. The Contractor shall record at least the following data:
 - Date of operation
 - Registration number of the truck supplying Municipal Solid Waste/ Lorry number
 - Total weight of the truck
 - Empty weight of the truck
 - Net weight of Municipal Solid Waste
 - c. The format for recording shall be finalised in consultation with the engineer, and the same shall be documented as part of the O&M Manual. A sample format is enclosed below for reference at Annexure I.

D Mandatory Facilities

During the Active Operations Period and until the handover of the Waste Processing Facility, the Contractor shall, unless suitably modify with consent of the Authority or the engineer and duly document the O&M Plan and/or O&M Manual, operate and maintain the Waste Processing Facilities as detailed in the manual. The Manual shall cover the various operational aspects which could be exhaustive but including the following:

- i. Weigh Bridge
- ii. Waste Receipt
- iii. Waste Inspection
- iv. Waste Weighing

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- v. Waste Acceptance Criteria
- vi. MSW Processing Machinery
- vii. Leachate Collection
The Authority shall maintain:
- viii. Green Belt
- ix. Fencing
- x. Internal Roads
- xi. Lighting and other electrical works
- xii. Waste Unloading
- xiii. Water Supply System
- xiv. Storm Water Drainage System

S. No.	Description of Mandatory Facility	Operation and Maintenance Standard
1	Weigh Bridge	<ul style="list-style-type: none"> ▪ Calibration certification from manufacturer/ independent certification agency (approved by the Independent Consultant) to be renewed every year ▪ Maximum period of non-operation: 5 days ▪ Data recording and reporting format to be decided in consultation with the Independent Consultant and to form part of the O&M Plan and/or O&M Manual.
2	Municipal Solid Waste Inspection Area	<ul style="list-style-type: none"> ▪ Leachate drain around the Municipal Solid Waste Inspection Area is free from clogging and allows unobstructed flow of leachate. Maintain shape & scope of the leachate drains in the designed manner during the lifetime ▪ No cracks/ruptures in the top RCC layer
3	Pulverisation	<ul style="list-style-type: none"> ▪ Regular preventive maintenance of pulveriser and its accessories
4	RDF Conversion Room	<ul style="list-style-type: none"> ▪ Regular preventive maintenance of conveyors, machinery like hydraulic press etc
5	RDF Storage	<ul style="list-style-type: none"> ▪ Room shall be regularly maintained

S. No.	Description of Mandatory Facility	Operation and Maintenance Standard
	Room	
6	Storm Water Drainage System	<ul style="list-style-type: none"> ▪ All storm water drains are free from clogging and allows unobstructed flow of water ▪ Maintain shape & scope in the designed manner during the lifetime ▪ No stagnation of rain water on the Site
7	Leachate Collection and Drainage System	<ul style="list-style-type: none"> ▪ No overflow of leachate from the Leachate Collection Tanks ▪ Cracks or leaks in the leachate collection and drainage system to be sealed immediately ▪ Should be free from clogging and allows unobstructed flow of leachate
8	Water Supply System	<ul style="list-style-type: none"> ▪ Water for drinking purposes to meet as per the regulatory standards ▪ Water supply for gardening and flushing
9	Lighting and other electrical works	<ul style="list-style-type: none"> ▪ Minimum lux level of 20 in the area of operation (in case of 2 shift operations)
10	Boundary Wall and Fencing	<ul style="list-style-type: none"> ▪ Any breach in the boundary wall and fencing to be brought to the notice of the Independent Consultant immediately and to be sealed within 1 day ▪ Boundary wall and fencing to be inspected at least once every week and rejects (paper, plastics etc.), if any, found trapped in the fencing to be removed promptly
11	Green Belt	<ul style="list-style-type: none"> ▪ Maintained in accordance with O&M Plan and O&M Manual
12	Windrow Platform	<ul style="list-style-type: none"> ▪ Leachate drain around the Municipal Solid Waste Inspection Area is free from clogging and allows unobstructed flow of leachate. Maintain shape & scope of the leachate drains in the designed manner during the lifetime ▪ No cracks in the top RCC layer

E. Routine Maintenance Standards

- i. In order to ensure smooth and uninterrupted operations, routine maintenance of the Project Facilities shall include but not be limited to:

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- a. replacement of equipment/consumables, repairs to equipment and structures
 - b. undertaking maintenance works in accordance with the O&M Plan and O&M Manual;
 - c. preventing, with the assistance of law enforcement agencies, where necessary, any unauthorised entry to and exit from and any encroachments including any encroachments on the Site;
 - d. taking all reasonable measures for the safety of all the workmen, material, supplies and equipment brought to the Site. Explosives, if any, shall be stored, transported and disposed of by the Contractor in accordance with Applicable Laws/Applicable Permits.
- ii. The following standards in order of preference shall be adopted in consultation with the Engineer, unless otherwise specified:
 - a. SWM Rules, 2016
 - b. Manual on Municipal Solid Waste Management published by CPHEEO
 - iii. The Contractor shall regularly carry out the necessary preventive maintenance activities for the Project Facilities to ensure adherence to the Construction Requirements/specifications.

F. Reporting

- i. The Contractor shall ensure that the Authority and the engineer is provided with adequate information and forewarned of any event or any other matter affecting the Project Facilities to enable them to control/minimise any adverse consequences.
- ii. The frequency and formats for the reports with respect to waste supplied, processed, rejects generated and disposed to land fill, compost produced / sold and any other relevant data like usage of supporting fuels if any, to be submitted and form part of the O&M Plan and O&M Manual.
- iii. The following data should form part of the reports submitted by the Contractor:
 - a. Municipal Solid Waste received
 - b. Municipal Solid Waste characterization
 - c. Leachate generation

APPENDIX – X
PERFORMANCE SECURITY (PROFORMA OF BANK GUARANTEE)

FORMAT OF PERFORMANCE BANK GUARANTEE

THIS DEED OF GUARANTEE executed on this the ----- day of ----- at ----- by ---
----- (Name of the Bank) having its Registered office at -----

hereinafter referred to as “the Guarantor” which expression shall unless it be repugnant to the subject or context thereof include successors and assigns;

In favour of

Warangal Municipal Council, (hereinafter referred to as “The Authority”) which expression shall, unless repugnant to the context or meaning thereof include its administrators, successors or assigns.

WHEREAS

By the Contract Agreement (“the Contract Agreement”) being entered into between the Authority and, -----

a company incorporated under the Companies Act, 1956, having its registered office at -----
-----, (“the Contractor”), the Contractor has been granted the Contract to Setting Up of 150 TPD Municipal Solid Waste Processing, Treatment and Management Facility on EPC and O&M Basis at Rampur Dump Site for Warangal Municipal Council for a period of 5 year (hereinafter referred to as “the Project”).

- A. The Contractor is required to furnish to the Authority, an unconditional and irrevocable bank guarantee for an amount of Rs ----- (Rupees in words) as security for due and punctual performance / discharge of its obligations under the Contract Agreement.
- B. The Guarantor has agreed to provide bank guarantee, being these presents guaranteeing the due and punctual performance / discharge by the Contractor of its obligations relating to the Project.

NOW THEREFORE THIS DEED WITNESSETH AS FOLLOWS:

Capitalised terms used herein but not defined shall have the meaning assigned to them respectively in the Contract Agreement.

- 1. The Guarantor hereby irrevocably guarantees the due and punctual performance by M/s --
----- (hereinafter called “the Contractor”) of all its obligations relating to the Project by the Contractor in accordance with the Contract Agreement.
- 2. The Guarantor shall, without demur, pay to the Authority sums not exceeding in aggregate Rs. ----- (Rupees in words), within five (5) calendar days of receipt of a written demand therefore from the Authority stating that the Company has failed to meet

its obligations under the Contract Agreement. The Guarantor shall not go into the veracity of any breach or failure on the part of the Contractor or validity of demand so made by the Authority and shall pay the amount specified in the demand notwithstanding any direction to the contrary given or any dispute whatsoever raised by the Contractor or any other Person. The Guarantor's obligations hereunder shall subsist until all such demands are duly met and discharged in accordance with the provisionshereof

3. In order to give effect to this Guarantee, the Authority shall be entitled to treat the Guarantor as the principal debtor. The obligations of the Guarantor shall not be affected by any variations in the terms and conditions of the Contract Agreement or other documents or by the extension of time for performance granted to the Contractor or postponement/non exercise/ delayed exercise of any of its rights by the Authority or any indulgence shown by the Authority to the Contractor and the Guarantor shall not be relieved from its obligations under this Guarantee on account of any such variation, extension, postponement, non-exercise, delayed exercise of any of its rights by the Authority or any indulgence shown by the Authority, provided nothing contained herein shall enlarge the Guarantor's obligationhereunder.
4. ThisGuaranteeshallbeirrevocableandshallremaininfullforceandeffectuntil-----
'unless discharged/released/earlier by the Authority in accordance with the provisions of the Contract Agreement. The Guarantor's liability in aggregate be limited to a sum of Rs. -
----- (Rupees in words).
5. This Guarantee shall not be affected by any change in the constitution or winding up of the Contractor / the Guarantor or any absorption, merger or amalgamation of the Contractor / the Guarantor with any otherPerson.
6. The Guarantor has power to issue this guarantee and discharge the obligations contemplated herein, and the undersigned is duly authorised to execute this Guarantee pursuant to the power grantedunder.

IN WITNESS WHEREOF THE GUARANTOR HAS SET ITS HANDS HERE UNTO ON THE DAY, MONTH AND YEAR FIRST HEREINABOVE WRITTEN.

SIGNED AND DELIVERED

by..... Bank by the handofShri

itsand authorisedofficial.

¹60 (Contract Period) + 3 months from the date of signing the Contract Agreement

APPENDIX-XI
ANTI-COLLUSION CERTIFICATE

(To be executed on stamp paper of appropriate value)

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

We hereby certify and confirm that in the preparation and submission of our Bid, we have not acted in concert or in collusion with any other Bidder or other person(s) and also not done any act, deed or thing which is or could be regarded as anti-competitive.

We further confirm that we have not offered nor will offer any illegal gratification in cash or kind to any person or agency in connection with this Bid.

Dated this day of, 20...

.....

(Name of the Bidder)

.....

(Signature of the Bidder / Authorized Person)

.....

(Name of the Authorized Person)

Date:

APPENDIX – XII

Ramagundam Municipal Corporation – Project Information Memorandum

City Profile:

The Ramagundam Municipal Corporation (RMC) is the second biggest Municipal Corporation after RMC in Telangana State. The extent of RMC area covered is 93.87 Sq.KM.

The total population of GWMC as per census 2011 is 2,29,655. Total number of Divisions in RMC limit is 60 no's.

Vehicles:

Total Vehicles in GWMC – 509

- 60 Vehicles under RMC are being monitored regularly through GPS tracking .

Garbage Collection:

- 1) No. of Assessments covered under door to door collection: **2,55,000**, (100%)
- 2) Source segregation: **25%**.
- 3) Waste is collected from commercial areas in two shifts Day & Night. Daily Garbage dump in the ULB is Avg. **120 TPD**

DRCCentres:

- No. of DRCCenters functioning : **01** (Maintained by **SHGs**)
- Averagedaily collection of Dry Waste: **2 MT**
- For processing of Dry plastic & Hard plastic, 3 machines were kept
 - i. Balling machine
 - ii. Fatka machine
 - iii. Plastic Shedder.

MSW Plant Specifications
Weigh Bridge

Capacity:100TPD

Capacity: 100 TPD

Parameters	Specifications
Weigh Bridge Type	Surface mounted Electronic Weigh Bridge
Platform material	Mild Steel meeting requirements under IS2062 Should be anti-skid type (chequered). Thickness of platform plate not less than 10mm (7.5m long and 3m width) with proper MS beams
Weighing Capacity	40 Tonne
Loadcell	4 Loadcell with Nickel plated alloy steel body calibration-Auto zero automatically
UPS	½ hour backup.
Printer	Laser
Display modes	a) Indicate weight b) Indicate calibration-Auto zero tracking and calibration to be checked automatically every 5 minutes - calibrated load
Indicator Units	Kg
Type/capacity of load cell	Digital Double Ended Shear Beam load cells, pre-calibrated load cells- 10000kg (04 No.) with mounting kits
ABS Junction Box: 01 Set with IP 65 protection class for connection	Cables: Home run cable 12m & interconnection cable between load cell and junction box & weighing electronics 02m
Least count	2Kg
Acceptable error	± 1Kg
Electric supply	3 Phase (440V 50Hz)
The Machine metal part	powder / paint
Installation & Demonstration	Yes

Mechanical Sorting Conveyor Belt

100 TPD

Parameter	Specifications
Conveyor Belt1-(Feeding waste to Disc Screen)	
Type	Flat roller type belt conveyor
Motor	3.75kW(5HP),1440RPM,TEFC(Totally Enclosed Fan Cooled) copper wire, conforming to IS: 13730, 3- phase,4- pole
Inclination	Upto20° inclined
Length of Conveyor	Approx.6.5 m fromEndtoEndofconveyor
Size of belt	1200mm wide (working width 1000mm)
Belt Specification	Chevronrubberbelt,3 ply,3mmtop,1.5mm bottom rubber covering, totalchevron beltthickness10mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith65mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith65mmshaft with rubber coatingandbearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt2(a)-Collectionline of undersized materialfrom disc screen	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFanCooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.3m fromEndtoEndofconveyor
Size of belt	800mm wide (working width600mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt2(b)-Collectionlineofundersizedmaterialfrom disc screen	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.3.3m fromEndtoEndofconveyor
Size of belt	800mm wide (working width600mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft ⁴ with rubber coatingandbearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt3- Undersized materialline(mixed) to ADS	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wireconforming to IS:13730, 3- phase, 4- pole
Inclination	0°
Length of Conveyor	Approx.4.5m fromEndtoEndofconveyor

Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt4-Discscreento trommel line	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	0°
Length of Conveyor	Approx.2m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt5-Collectionline ofundersizedmaterialfromtrommel	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.4.6m fromEndtoEndofconveyor
Size of belt	800mm wide (working width600mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt6- Oversized material line fromtrommel	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	0°
Length of Conveyor	Approx.3.0m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt7-Heavy fractionline for oversizedmaterial from trommel	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase,

	4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.3.7m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevronrubberbelt,3ply,3mmtop,1.5mmbottom rubbercovering,totalchevronbeltthickness10mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coating andhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt8-Lightfractionline for oversized material from trommel	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP), 1440 RPM,TEFC(TotallyEnclosedFanCooled) copper wireconformingtoIS: 13730,3- phase,4- pole
Inclination	0°
Length of Conveyor	Approx.4m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt9-Lightfractionlineto sorting cabin no 3	
Type	Flat roller type belt conveyor
Motor	3.75kW(5HP), 1440 RPM,TEFC(TotallyEnclosedFanCooled) copper wireconformingtoIS: 13730,3- phase,4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.6.3m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevronrubberbelt,3 ply,3mmtop,1.5mm bottom rubber covering,totalchevronbeltthickness10mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith65mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith65mmshaft with rubber coatingandhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt10- Undersized material line from trommelto sorting cabins	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP), 1440 RPM,TEFC(TotallyEnclosed FanCooled)copperwireconformingtoIS:13730,3- phase,4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.3.8m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevronrubberbelt,3ply,3mmtop,1.5mmbottom rubbercovering,totalchevronbeltthickness10mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandhearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coating andhearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Conveyor Belt11-Heavy fractioncollectionline from trommelto sorting cabin	
Type	Flat roller type belt conveyor
Motor	5.63kW(7.5HP),1440RPM,TEFC(Totally Enclosed FanCooled)

	copper wire conforming to IS: 13730, 3- phase, 4- pole
Inclination	0°
Length of Conveyor	Approx. 16m from End to End of conveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cord conforming to M24 grade
Drive pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Rear pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Gear Box	Worm type, 20:1 ratio, Hollow input & output
Conveyor Belt 12-Heavy fraction line to sorting cabin no. 1	
Type	Flat roller type belt conveyor
Motor	2.25kW (3HP), 1440RPM, TEFC (Totally Enclosed Fan Cooled) copper wire conforming to IS: 13730, 3- phase, 4- pole
Inclination	Upto 15° inclined
Length of Conveyor	Approx. 4m from End to End of conveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevron rubber belt, 3ply, 3mm top, 1.5mm bottom rubber covering, total chevron belt thickness 10mm, nylon cord conforming to M24 grade
Drive pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Rear pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Gear Box	Worm type, 20:1 ratio, Hollow input & output
Conveyor Belt 13-Sorting cabin no 1 (Heavy fraction)	
Type	Flat roller type belt conveyor
Motor	9.38 kW (12.5 HP), 1440RPM, TEFC (Totally Enclosed Fan Cooled) copper wire conforming to IS: 13730, 3- phase, 4- pole
Inclination	0°
Length of Conveyor	Approx. 28.3m from End to End of conveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cord conforming to M24 grade
Drive pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Rear pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Gear Box	Worm type, 15:1 ratio, Hollow input & output
Conveyor Belt 14-Light fraction line for undersized material from trommel	
Type	Flat roller type belt conveyor
Motor	3.75kW (5HP), 1440RPM, TEFC (Totally Enclosed Fan Cooled) copper wire conforming to IS: 13730, 3- phase, 4- pole
Inclination	Upto 15° inclined
Length of Conveyor	Approx. 7m from End to End of conveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevron rubber belt, 3ply, 3mm top, 1.5mm bottom rubber covering, total chevron belt thickness 10mm, nylon cord conforming to M24 grade
Drive pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Rear pulley for conveyor	Ø320mm OD with crownings surface with 60mm shaft with rubber coating and hearing bonedesign
Gear Box	Worm type, 20:1 ratio, Hollow input & output

Conveyor Belt15-Sorting cabin no 2 (Light fraction)	
Type	Flat roller type belt conveyor
Motor	9.38 kW(12.5HP),1440 RPM,TEFC(Totally Enclosed FanCooled) copper wireconformingtoIS: 13730, 3- phase,4- pole
Inclination	0°
Length of Conveyor	Approx.28.3m from EndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
GearBox	Worm type,15:1ratio,Hollowinput& output
Conveyor Belt16-Sorting cabin no 3 (Light fraction)	
Type	Flat roller type belt conveyor
Motor	9.38kW(12.5HP),1440RPM,TEFC(TotallyEnclosed FanCooled)copperwireconformingtoIS:13730,3- phase,4- pole
Inclination	0°
Length of Conveyor	Approx.28.3m from EndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Plain rubber belt, 3ply, 3 mm top, 1.5 mm bottom rubber covering, total plain belt thickness 08 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
GearBox	Worm type,15:1ratio, Hollow input & output
Conveyor Belt17-Heavy fractionline for undersized material from disc screen	
Type	Flat roller type belt conveyor
Motor	2.25kW(3HP),1440RPM,TEFC(TotallyEnclosedFan Cooled) copper wire conforming to IS:13730,3- phase, 4- pole
Inclination	Upto15° inclined
Length of Conveyor	Approx.4m fromEndtoEndofconveyor
Size of belt	1000mm wide (working width 800mm)
Belt Specification	Chevronrubberbelt,3 ply,3mmtop,1.5mm bottom rubber covering,totalchevronbeltthickness10 mm, nylon cordconformingto M24 grade
Drive pulley forconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coatingandbearingbonedesign
Rearpulleyforconveyor	Ø320mmODwithcrowningsurfacewith60mmshaft with rubber coating andbearingbonedesign
GearBox	Worm type,20:1ratio,Hollowinput& output
Other details	
Side Guard	2mmthickMSsheetwith supporting structure
Side guardskirting	2mmthickrubber belt
Conveyorbody	Manu. From IS 2062, 4 mm thickness plateframing structure
Rearpulley cover	2mmthickMSsheet
Bearing for roller	6205 2RS type
Shaft	Precise Machined fromEN-24 grade material
Guide rollers	Ø60mmpipewithbrightbarspindleandsealedwith single rollantifrictiondeepgroovedball bearing
Carrying& return roller	76.1 mmID ERWpipewithCIhousing,brightbarspindleand sealed withsinglerollantifrictiondeepgroovedball bearing
Bearing	Angularcontact type with fittedinsplit housing
IdlerSpacing	Carryingidler -600to800mm, Return Idler - 1200to1500mm
Belt joint	Endless typebelt
Scrappers	Driverside: Flat Scrapper

	RearPulley:Vplough type
Take up	Screw type take up design
Belt speed	1.2m/sec
PulleyRPM	72RPM
Conveyordirection	Uni- direction (Oneside)
VFD specification	VFDsuitableforspeedcontrolofconveyorbeltmotorranging from50% to 100% ofratedspeed
Speed Control	0.6to 1.2m/sec (usinggear& VFD)

Baling Machine

Parameter	Specification
Balingchambersize	2100X 940X 835 (mmx mm xmm)
Bale size Lx W(mm)	2000X 940X 835(mmx mm xmm)
Feedopening(LX W)	1500X 940(mmx mm)
Motor	50HP,3Phase,4-pole,copper winding
Electric supply	3Phase(440V 50Hz)
Numberofbelts	3
Body	Fabricated
Weight ofBale (kg)	500 -750
Cycle time per bale (minute)	5- 8Min/Bale
Numberof Cylinder	4
Hydraulic Oil tankcapacity(L)	1200
Hydraulic Pressure	3045PSI
Oil drive	Double VanePump
Working fluid	Hydro Encl68
Operation	PLCoperated
Output	4- 6Tonne per Hour
Main Cylinder(Bore x Rod)	Ø200mmx Ø150mm
Oil cooling system	2Ton A.C with OilChiller
Conveyor	W (1x10) m
Bale Ejection	ByHydraulicCylinder
Material forpressing/compressing	Plastic bottles, aluminumcans, disposal plastic

Air Blower

100 TPD

Parameter	Specification
Capacity	1500 CFM
Workingtemperature	30°C
Pressure	750mm WC
Drive	Direct foot mounted fan
Recommendedmotorpower	11kWor15HP,3phase,4-pole,copper winding,confirmingtoIS12615:2011
Blower RPM	2900
MoCof Casing	3mmMSfabricated
MoCof Impeller	MSfabricated
Balancing	As per IS1940,grade 6.3
Standardaccessories	Set of both ends companion matching flanges,Dulypaintedwithepoxyprimer andsynthetic paint/ HR paint.
PowerSupply	200-440V,50Hz
Electric Motor	Standard IE2 rating ABB or BBL or CG makeorequivalent

Shredder/ Garden Shredder

100 TPH

Parameter	Specification
Type of Shredder	Twin Shaft
Shape of Shaft	Horizontal Hexagonal Shaped
Material of Housing Enclosure	Mild Steel (confirming to IS:2062)
Capacity in TPH	2TPH
Motor Power (kW)	44.7kW (66HP), copper wiring, 4 pole, 3 phase
Hopper	Mild Steel (confirming to IS: 2062)
Base Frame	Mild Steel wide-flange beam of welded construction
Material of Construction of Mulcher	Shredder blades of tool steel having high wearing resistance and shock proof
Mulcher Cleaner	Made of alloy steel to clean the shredder knives.
Painting	Primer Coated with gloss finishing
Housing	Outdoor weather protection metal sheet Housing c/w double layer panel's door.
Inside dimension of shredder chamber in mm x mm with tolerance +10 mm (W x H)	1218x 250
Opening of loading hopper in mm x mm with tolerance +10 mm	600x800
Material of Shaft	Mild Steel confirming to IS: 3688-2004 (1990)
Rotation Speed (Max)	200 RPM
Over all Dimensions of shredding machine in L x W x H in mm	3757x 1050x 2054
Advanced Control Panel	Includes slow start VFD control, full function control panel, run/trip indicating light, start/stop push button, emergency push button stop, yellow light indicator on reverse motion, optical indicator to show operation, main switch, auto-reverse and stop in case of overfeeding, low power consumption on no feeding, control panel to fix problem without entering the shredding machine, manual push button to reverse and forward motions, low power consumption yet high output, robust construction and easy maintenance design, minimum cutting knife wear, operator friendly, etc.