

GREATER NOIDA INDUSTRIAL DEVELOPMENT AUTHORITY

Plot No-1, Sector- Knowledge Park-4, Greater Noida,  
District- Gautam Buddh Nagar (U.P.)

Ref.No.: H.D./2020/

Date: /09/2020

**Expression of Interest**

**Expression of Interest (EOI) for design, installation, commissioning, operation and maintenance of decentralised solid waste collection and processing system**

Expression of Interest document with detailed scope of work is available on the Authority's website (<http://www.greaternoidaauthority.in>) from 3 September 2020. The EOI needs to be submitted in softcopy on the email ID [health@gnida.in](mailto:health@gnida.in) with subject "EOI for Decentralized Waste Management in Greater Noida". The hard copy is to be sent on above mentioned address and addressed to DGM (Health). Last date of submission is 18 September 2020.

D.G.M. (Health)

Greater Noida Industrial Development Authority

**EXPRESSION OF INTEREST (EOI)**

**for**

**Decentralized Waste Management**

**GREATER NOIDA INDUSTRIAL DEVELOPMENT AUTHORITY**

**September 2020**

## 1. Disclaimer

This Expression of Interest (EOI) Document for "Decentralized Waste Management" contains brief information about the scope of work.

While all efforts have been made to ensure the accuracy of information contained in this EOI Document, this Document does not purport to contain all the information required by the Applicants. The Applicants should conduct their own independent assessment, investigation and analysis and should check the reliability, accuracy and completeness of the information at their end and obtain independent advice from relevant sources as required before submission of their application/s. Greater Noida Industrial Development Authority ("GNIDA" or "the Authority") or any of its employees or advisors shall incur no liability under any law, statute, rules or regulations as to the accuracy or completeness of the EOI Document.

GNIDA reserves the right to change any or all conditions/information set in this EOI Document by way of revision, deletion, updating or annulment through issuance of appropriate addendum as it may deem fit without assigning any reason thereof.

GNIDA reserves the right to accept or reject any or all applications without giving any reasons thereof. GNIDA will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the bid applications to be submitted in terms of this EOI Document.

2. EOI Data Sheet

S. No.	Particulars	Details
1	Name of Project	Decentralized Waste Management
2	Authority's Project Representative	DGM, Health Greater Noida Industrial Development Authority Plot No. 1, Knowledge Park IV, Greater Noida, Gautam Budh Nagar, Uttar Pradesh 201308 Email: health@gnida.in
3	EOI Date	3 <sup>rd</sup> September, 2020
4	Last date for submitting response	18 <sup>th</sup> September, 2020
5	Response validity duration	45 days from the Last date of submission
6	EOI fee	INR 2000 (non-refundable) to be paid via: RTGS: Account Number: 98250100008324 IFSC Code: BARB0GAMNOI

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### 3. EOI for Decentralized Waste Management

#### I. Background

The Municipal Solid Waste Management and Handling Rules, 2016 mandates integrated municipal solid waste management system which focuses on waste reduction and recycling at source, waste collection at the doorstep of the generators in segregated manner, waste collection and transportation in prescribed types of bins and vehicles, processing and disposal of processing rejects and non-recyclable material in sanitary landfills/designated space. Municipal waste management, in most cities at present, leaves a huge gap between the present status and standard set in the MSW rules 2016. The compliance of the rules needs both sensitization and resources which most urban local bodies do not have these calls for public private partnership for meeting the technology and resources requirement and also forging an efficiency, economy and accountability in services delivery.

Greater Noida, spread over an area of about 380 sq. kms, is being developed as an integrated industrial town close to New Delhi. It comprises of nearly 100 Sectors and 124 villages divided into 8 administrative zones called work circles. The population of Greater Noida as per 2011 census was ~ 1lac. The current population is estimated to be approximately 5-6 lacs. It is estimated that the city generates approximately 300-350 tons of waste every day from various sources.

Presently, the solid waste management model in Greater Noida is Centralized with no processing of the waste happening. Few Bulk Generators have started in-situ processing of waste. However, these operations were affected due to the pandemic scenario. With rapid urbanization, the solid waste generation has also ascended. In its endeavour to provide a healthy and hygienic environment to its population, GNIDA has been undertaking several initiatives and measures in alignment with the goals of Swachh Bharat Mission.

Greater Noida has a peculiar mix of waste generator categories including Urban residential, Urban villages, Rural, Commercial, Industrial and Institutional. In order to holistically cover entire region with effective waste management strategy, the Authority has planned to adopt a hybrid model for managing Municipal Solid Waste. This shall involve Decentralized waste management in select urban pockets, centralized waste management in rest of the urban pockets and integrated services in predominantly rural areas.

#### II. About Project

Sustainable waste management can be achieved through decentralized waste management strategy. Contracting out through a decentralized collection, transportation, processing and disposal of waste as a new approach incentivizes waste reduction at source and also provided jobs to urban poor in the process. Decentralized management is based on micro planning of small areas of the city (or sectors) in which planning for integrated waste management is carried out. The advantage of such system is that waste can be managed as far as possible within smaller areas through recycling and processing of biodegradable waste. Only processing rejects or wastes that cannot be recycled or is hazards in nature need to be transported to the centralized processing facility/disposal.

GNIDA intends to adopt decentralized waste management model for few of its urban residential sectors, under PPP mode. For this purpose, the Authority has identified few clusters covering about 8000 to 10000 Households and generating waste in the range of 15 to 20 Tons per day (TPD). These cluster largely comprise of urban residential sectors and few villages falling therein. Each cluster will be served by one designated Materials Recovery Facility (MRF) within the cluster. The Authority has designated approx. 2000 sq. meters of land parcels for setting up of these MRFs. Authority shall carry out basic civil works at these sites such as land levelling, boundary fencing, approach road, construction of shed & utilities area and providing electricity, water & sewage connections. The vendors are expected to set-up their processing unit including required equipment, tools and movable

assets. The authority shall appoint one or multiple vendor to operate single or multiple clusters. Indicative details of clusters are mentioned in Annexure 6.

### III. Scope of Work

Intended scope for Decentralized Waste Management include, but not limits to following activities.

- i. Door to Door collection of waste. Vendor will also be responsible to carry out IEC activities for awareness and behavioural change and encourage citizens for source segregation of the waste;
- ii. Mobilizing resources for decentralized waste collection, transportation and processing;
- iii. Setting of operational facility at MRF for processing solid waste (basic civil structure will be provided by the Authority);
- iv. Secondary segregation of waste at the MRF;
- v. Segregation of dry waste and selling it to authorized dealers;
- vi. Composting of wet waste and selling of the compost;
- vii. Setting up incinerator to dispose of domestic hazardous waste;
- viii. Storage facility for inert waste and waste coming from sweeping. Authority will engage a separate agency for collection and transportation of such waste to SLF at a defined periodicity;
- ix. Setting up IT system for monitoring operations (CCTV, data management, digital weighbridge etc.)
- x. Collection of user charges;
- xi. Vendor will be required to obtain necessary permissions/approvals from relevant authority for specific processes/machineries it proposes to use at the MRF (as applicable).

A general overview of responsibilities is mentioned below.

Responsibilities of GNIDA	Responsibilities of Vendor
<ol style="list-style-type: none"> <li>i. Identification and earmarking land for setting up MRF in each cluster</li> <li>ii. Basic civil works at the MRF site. This includes land levelling, boundary fencing, construction of shed, utilities &amp; other basic infrastructure and providing electricity, water &amp; sewage connections</li> <li>iii. Collection &amp; Transportation of inert and sweeping waste from MRF to SLF (Sanitary Landfill)</li> </ol>	<ol style="list-style-type: none"> <li>i. Mobilize resources for door to door waste collection</li> <li>ii. Setting up operations facility at the MRF</li> <li>iii. Installation and maintenance of equipment and machineries as required</li> <li>iv. Carry out Dry &amp; Wet Waste Processing</li> <li>v. Collection of user charges</li> <li>vi. Maintaining hygiene conditions in and around the site. Upkeep and maintenance of the site</li> <li>vii. Ensure minimum inert go to SLF and waste is processed and recycled</li> </ol>

Revenue sources for Vendor:

- i. User Charges
- ii. Sell of Compost
- iii. Sell of recoverable from Dry waste

The project shall be for a defined tenure and vendor will be responsible to hand over peaceful possession of the site to the Authority. Any major damages to the civil works shall be repaired satisfactorily by the vendor before handing over of the site.

IV. Eligibility of Applicant

The Applicant can be a Sole Proprietor/ Registered partnership firm/ LLP/ Public Limited Company/ Private Limited Company/Societies/ NGO/ Trust with credible experience of running the decentralized solid waste management process at cluster level; Applicants with additional experience in community mobilization and IEC activities shall be preferred. Applicants must submit duly filled and signed Annexure 2 & 3, along with requisite supporting documents.

V. Selection Process

The EOI is issued only with a purpose of collection of information from interested parties and GNIDA reserves the right to proceed ahead with the Project. However, the applications received shall be reviewed carefully and interactions with the applicants will be likely scheduled before finalisation of Project terms and conditions.

VI. Submission of EOI

- Applicants are advised to study all instructions, forms, terms, requirements and other information in the EOI carefully.
- Applicants are encouraged to undertake site visits and provide their suggestions for successful implementation of decentralised model in GNIDA
- Applicant shall be deemed to have applied after careful study and examination of the EOI Document with full understanding of its implications.
- The response to this EOI should be full and complete in all respects. Failure to furnish all information required by the EOI or submission of a proposal not substantially responsive to the EOI in every respect will be at the Applicants' risk and may result in rejection of its eligibility.
- All the notifications & detailed terms and conditions regarding this EOI notice hereafter will be published on the GNIDA's website.
- The application should be submitted in hardcopy and soft copy within the deadline as specified in EOI Data Sheet. The submission should be super scribed with "EOI for Decentralized Waste Management in Greater Noida" and addressed to Authority's coordinating representative as mentioned in the EOI Data Sheet.
- Applicant should fill information in prescribed formats for Pre-Qualification as mentioned in the EOI.

VII. Documents to be submitted

The EOI to be submitted by the Interested Parties shall, interalia, include:

- Cover Letter expressing interest to participate in the form and manner prescribed hereunder as Annexure 1;
- Details of Applicants in the form and manner as prescribed hereunder as Annexure 2 & 3;
- Details of the technology and processes proposed to be deployed in the form and manner as prescribed hereunder as Annexure 4;
- Project Concept in the form and manner as prescribed hereunder as Annexure 4;
- Payment/Transaction confirmation of EMD Processing fee.

Documents should be indexed in the sequence of information sought under respective Annexures. Each page should be numbered, and an Index should be enclosed.



VIII. Language

The Applications prepared by the Applicant and all correspondence and documents relating to the applications exchanged by the Applicant and the Authority, shall be written in English language, provided that any printed literature furnished by the Applicant in another language shall be accompanied by an English translation in which case, for purposes of interpretation of the application, the English translation shall govern.

If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Applicant.

IX. Last date of submission of EOI

The Interested parties shall submit their respective details in aforesaid format latest by 18<sup>th</sup> September, 2020 [5:00 PM] at Authority's contact details below mentioned address:

DGM, Health

Greater Noida Industrial Development Authority

Plot No. 1, Knowledge Park IV,

Greater Noida, Gautam Budh Nagar, Uttar Pradesh 201308

Email: [health@gnida.in](mailto:health@gnida.in)

Applications received by the Authority after the specified time on the Application Due Date shall not be eligible for consideration and shall be summarily rejected.

4. Formats for submission of information

Annexure 1: Format for Covering Letter

Date:

To,

DGM, Health

Greater Noida Industrial Development Authority

Plot No. 1, Knowledge Park IV,

Greater Noida, Gautam Budh Nagar, Uttar Pradesh 201308

**Sub: Expression of Interest (EOI) for Decentralized Waste Management**

Dear Sir,

With reference to your EOI document dated \_\_\_\_\_, I/We the undersigned am/are hereby expressing our Interest for Decentralized Waste Management in Greater Noida.

We understand that based on responses, the Authority shall finalize the concept and other requirements. Further, the issue of this EOI does not imply that the Authority is bound to appoint any applicant, as the case may be, for the Project.

We have prepared our expression of interest for the captioned project as specified in EOI Document.

I/We hereby declare that all the information and statements made in this EOI are true.

\_\_\_\_\_  
(Name and Title of the Signatory)

\_\_\_\_\_  
(In the capacity of)

Company Seal

\_\_\_\_\_  
(Name of the Entity)

\_\_\_\_\_  
(Registered Address of the Entity)

Annexure 2: Details of the Applicant

Form 2A: Applicant's details

S. No.	Particulars	Details
1. (a)	Name of Entity	
(b)	Registered Address	
(c)	Postal Address	
(d)	Telephone / Mobile No.	
(e)	E-Mail Address	
(f)	Type of entity	
(g)	Registration number of Entity	
(h)	PAN No	
(i)	GST Registration No.	
2	Details of individual(s) who shall serve as the point of contact/ communication for GNIDA:	
(a)	Name	
(b)	Designation	
(c)	Company	
(d)	Address	
(e)	Telephone / Mobile No.	
(f)	E-Mail Address	

EOI for Decentralized Waste Management in Greater Noida

Form 2B: Experience of the applicant

S. No.	Particulars	Details
1	Years in business	
2	Years of experience in solid waste management	
3	Number of Solid Waste Management Projects undertaken	Provide details of each cluster/project like technology, number of people, size of the project, processing capability etc.
4	Number of cities/ULBs served	
5	Number of households served (mention for each project)	
6	Number of projects rendering end to end service (Door to Door collection, Transportation, Processing, Disposal)	

Name of the Applicant

\_\_\_\_\_  
Signature of the Applicant

Note: Applicant should submit supporting documents stating legal status of the applicant' firm, brief profile of the company and experience details shared in format above.

EOI for Decentralized Waste Management in Greater Noida

Annexure 3: Financial Capability

S. No.	Particulars	Details (INR)
1	Turnover for last 3 FY: 2016-17 2017-18 2018-19	
1A	Average Annual turnover for last 3 FY	
2	Tangible Net Worth for last FY (2018-19)	

## Annexure 4: Project Concept

Project conceptualization information:

Provide data assuming 15-20 TPD MSW in 2000 Sq M land area.

S. No.	Particulars	Details
1	Indicative space requirement for managing 15-20 TPD MSW	If Unsegregated: _____ Sq. Mtr If Segregated at source: _____ Sq. Mtr
2	Fixed infrastructure required (type of civil/permanent structure with estimated area for wet and dry waste processing respectively; including space required for packaging, sorting, storage and effluent(leachate) treatment)	i. ii. iii. iv. v.
3	Proposed Technologies, Equipment, Processes to be deployed (with respective purpose). Space requirement and broad estimate of cost	i. ii. iii. iv. v.
4	Green/ Open area around the site	_____ % of the site area
5	Whether flexible with the site layout and fixed infrastructure	Yes/ No
6	Manpower required to collect, transport and process approx. 15-20 TPD waste from 8000-10000 Households	_____ Nos Door to door and operations of MRF facilities
7	Type of collection vehicles to be used for door to door	
8	Approximate Operational cost (enclose break-up and assumptions)	INR _____ Lacs per month
9	Approximate Capital (equipment/ machinery/ movable assets) cost	INR _____ Lacs
10	Estimated Revenue generation (enclose break-up and assumptions) User charges, processing of wet waste and sale/recycle of dry waste.	INR _____ Lacs per month VGF required (Yes/No).

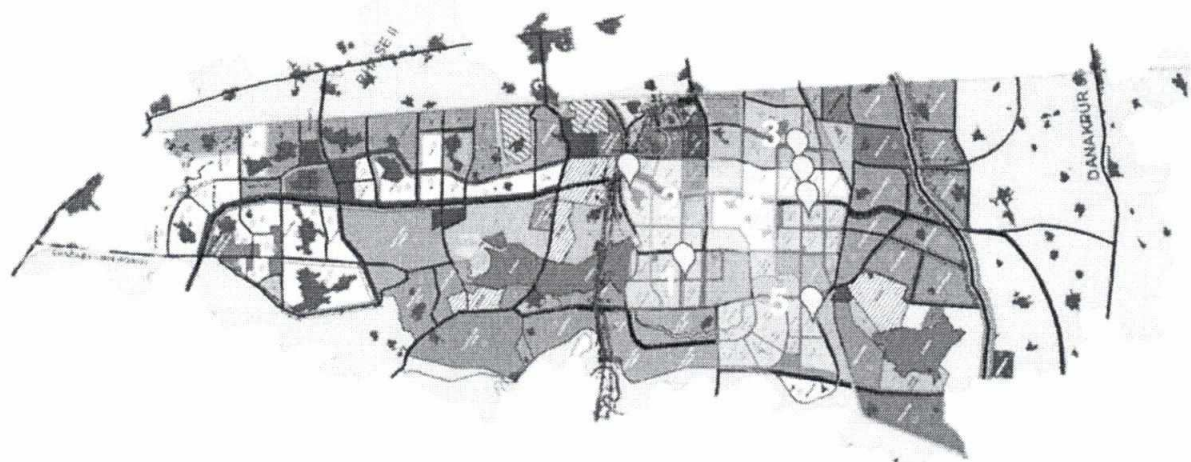
The detailed Project Concept should include the following (but may not be limited to):

<b>S. No.</b>	<b>Heads</b>
1	Brief understanding of the Project
2	Proposed project execution/ implementation strategy
3	Details of site layout, technologies and processes proposed to be deployed. Supporting document demonstrating successful deployment of proposed technologies should be enclosed.
4	Any other point to explain the proposed plan and concept
5	Indicative project cost (user fee/ VGF) and broad assumptions for various revenue and cost heads

Note: Each page of supporting documents should be duly signed by the applicant

Annexure 5: Cluster Overview

Cluster No.	Area (peripheral) in Km	MRF site	No. of sectors	No. of villages	No. of Households	Approx. Population	Total Estimated Waste Generation (MTPD)
1	11.5	Alpha 2	7	2	11650	58250	23.0
2	12.0	Delta 3	9	2	8200	41000	16.5
3	11.5	Xu 1	6	2	8300	42000	16.5
4	14.0	Omicron1	4	3	7700	38500	15.5
5	19.0	Sigma 2 / Chi Phi	17	1	7300	36500	14.5





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Details of sectors and villages covered in each cluster:

**Cluster 1:**

Sl. No.	Name of Areas covered	Category	MRF Site location
1	Alpha I	Sector	Alpha 2
2	Beta I	Sector	
3	Gamma I	Sector	
4	Alpha II	Sector	
5	Beta II	Sector	
6	Gamma II	Sector	
7	Rampur Jagir	Village	
8	Nawada	Village	

**Cluster 2:**

Sl. No.	Name of Areas covered	Category	MRF Site location
1	Delta 1	Sector	Delta 3
2	Delta 2	Sector	
3	Delta 3	Sector	
4	Eta 1	Sector	
5	Zeta 1	Sector	
6	KP 4	Sector	
7	Eta 2	Sector	
8	Zeta 2	Sector	
9	Theta 2	Sector	
10	Sakipur	Village	
11	Jaitpur	Village	

**Cluster 3:**

Sl. No.	Name of Areas covered	Category	MRF Site location
1	Xu 1	Sector	Xu1
2	Xu 2	Sector	
3	Xu 3	Sector	
4	Mu	Sector	
5	Mu 1	Sector	
6	Mu 2	Sector	
7	Raipur Bangar	Village	
8	Ghodi Bachera	Village	

**Cluster 4:**

Sl. No.	Name of Areas covered	Category	MRF Site location
1	Omicron 1A	Sector	Omicron 1
2	Omicron 1	Sector	
3	Omicron 2	Sector	
4	Omicron 3	Sector	
5	Pi 1 & 2	Sector	
6	Bironda	Village	
7	Birondi	Village	
8	Achher	Village	

**Cluster 5:**

Sl. No.	Name of Areas covered	Category	MRF Site location
1	Sigma 1	Sector	Sigma 2/ Phi 4
2	Sigma 2	Sector	
3	Sigma 3	Sector	
4	Sigma 4	Sector	
5	Swarn Nagri	Sector	
6	Rho 1 (Sec 36)	Sector	
7	Rho 2 (Sec 37)	Sector	
8	Omega 1	Sector	
9	Omega 2	Sector	
10	P1 to 8	Sector	
11	Phi 3	Sector	
12	Phi 4	Sector	
13	Chi 3	Sector	
14	Chi 4	Sector	
15	Kyampur	Village	