

**GREATER NOIDA INDUSTRIAL DEVELOPMENT AUTHORITY
GAUTAM BUDH NAGAR, UTTAR PRADESH**

EXPRESSION OF INTEREST (EOI)

for

**Integrated Mechanical Sweeping, Manual Sweeping, Door to
Door Collection & Transportation of waste in Part 1 of
Greater Noida**

December 2023

Issued by:

Greater Noida Industrial Development Authority

Plot No. 1, Knowledge Park IV,
Greater Noida, Uttar Pradesh 201308.

Website: <https://www.greaternoidaauthority.in>

Disclaimer

This Expression of Interest (Eol) for "Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste in Part 1 of Greater Noida" ('the Project') contains brief information about the Project and scope of work for the prospective Bidder. The purpose of Eol is to provide the Bidder with information to assist the formulation of their response.

While all efforts have been made to ensure the accuracy of information contained in this Eol document, this document does not contain all the information required by the Bidder. The Bidder are encouraged to conduct their own independent assessment, investigations and analysis and 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 response. Greater Noida Industrial Development Authority (GNIDA or the Authority) and 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 Eol document.

GNIDA has issued this Expression of Interest with the best intention to explore the market for eligible and interested bidders and has no compulsions to enter into definitive contractual agreements. This EOI does not guarantee conversion of this EOI into any definitive contractual agreements. GNIDA reserves the right to change any or all conditions/ information set in this Eol document by way of revision, deletion, updating or annulment through issuance of appropriate addendum as GNIDA 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 applications to be submitted in terms of this Eol Document.

Eoi for Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste in Part 1 of Greater Noida

EOI Data Sheet

S. No.	Particulars	Details
1	Name of Project	Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste in Part 1 of Greater Noida
2	Authority's Project Representative	SM, Health Greater Noida Industrial Development Authority Plot No. 1, Knowledge Park IV, Greater Noida, Gautam Budh Nagar, Uttar Pradesh 201308 Email: health@gnida.in Website: www.greaternoidaauthority.in
3	Proposal Submission Start Date	07.12.2023, 11:00 PM (IST)
4	Last date for submitting response	20.12.2023 (05:00 PM IST). All interested participants are requested to send their documents and presentation to health@gnida.in
5	Presentation Date	22.12.2023 (11:00 AM IST). Meeting Link: https://www.microsoft.com/microsoft-teams/join-a-meeting Meeting ID: 270 542 186 363 Passcode: FERK6t
6	Response validity duration	180 days from the Last date of submission
7	EOI fee	Nil

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1. Invitation for Expression of Interest

Greater Noida Industrial Development Authority ("GNIDA" or "the Authority") invites Expression of Interest (Eol) for "Integrated Mechanical and Manual Sweeping of Roads, Door to Door Collection & Transportation of waste in Greater Noida" ("the Project"). Interested Bidders can download the document from the website www.greaternoidaauthority.in, and submit their "Expression of Interest" in the formats duly filled and signed with required enclosures, via email superscribed "Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste in Part 1 of Greater Noida"

2. Key Instructions

Interested Bidders should make note of the following key points:

- a) This Eol invitation document is not a Tender or Request for Proposal in any form and would not be binding on GNIDA in any manner whatsoever.
- b) GNIDA reserves the right to cancel the Eol invitation as a whole or in part without assigning any reasons.
- c) The Bidders are encouraged to conduct their own independent assessment, investigations and analysis and 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 response.
- d) GNIDA encourages interested bidders to contact the Health Department.
- e) GNIDA reserves the right to update, amend and supplement the information given in this document at its sole discretion before the last date and time of submission of the responses.
- f) Bidders should submit their response in English language and as per formats provided in the last section of this document. Submission not conforming to the instructions or prescribed formats will be rejected.
- g) The key dates and information for the Project are given in Eol Datasheet.

3. Introduction

Swachh Bharat Mission (SBM) has added impetus to sanitation and waste management across India. In line with SBM, Greater Noida Industrial Development Authority has taken up multiple initiatives to improve sanitation and waste management activities. Greater Noida, spread over an area of about 380 sq. kms, is being developed as an integrated industrial town close to National Capital, New Delhi. It comprises of nearly 95 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 8-10 lacs. It is estimated that the city generates approximately 300-350 tons of waste every day from various sources.

As a part of holistic waste management strategy, the Authority has decided to undertake Integrated Centralized Waste Management & Decentralised Waste Management for Greater Noida and Integrated Mechanical & Manual Sweeping of Main Roads, Service Roads and internal roads in Greater Noida. For this purpose, the entire area has been divided into five different parts (details given in Appendix 4). This EOI is for part 1 of Greater Noida only. This

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EoI includes below described scope for Part 1 of Greater Noida Area. The Concessionaire is required to comply with Solid Waste Management Rules 2016, Plastic Waste Management Rules 2016, Bio-medical Waste Management Rules, 2016, Hazardous and other Waste (management and Transboundary Movement) Rules 2016, E-Waste Management Rules 2016, CPHEEO Norms, etc. for carrying out the scope of work.

4. Vision

With an aim to make Greater Noida the cleanest city in the country, the vision for doing this activity is to keep the entire area of Part 1 of Greater Noida including markets, Villages, Sectors, all the roads, parks, footpath, pavements etc cleaned all the time.

5. Scope of Work

(i) Collection of Waste

The door-to-door collection of waste is required to be carried out from all over Part 1 of Greater Noida across different categories of waste generators (residential, commercial, institutional, villages, hospital etc.). The waste is required to be collected from Bulk waste generators (BWG) also – inert waste from the BWGs who process wet waste in-situ and overall waste from BWGs that do not process waste in-situ. The waste from other public places, garbage vulnerable points, vacant plots, road-side bins, green areas, parks, stadiums and slums, vegetable/ daily/ weekly markets, slaughter-house, fish/ chicken/ mutton shops, etc.

- Door to Door collection from non-bulk waste generators including Sectors & Villages including providing manpower, vehicle, other infrastructure and operation and maintenance of the infrastructure
- The bidder has to collect, transport and dispose bio-medical waste from hospitals, nursing homes and clinics as well as per Bio-medical Waste Management Rules, 2016 and various court orders issued in this regard.
- The bidder is required to procure and place dustbins in the villages and collect & transport waste from these dustbins as well.
- Drain waste and street sweepings to be collected and transported by bidder as per CPHEEO Norms

Further, GNIDA also has one under construction MRF at Ecotech 12 of Greater Noida West region. The bidder would be required to transport 5 MT (minimum) of dry waste per day to this MRF in Ecotech 12 on days when MRF is operational. This vendor running this MRF will not pay anything additional to the bidder.

Further, bidder is also required to collect Inert waste from this MRF at Ecotech 12 for disposal either daily or on alternate days, as mutually agreed with MRF concessionaire. The following items (mixed dry waste) can be handed over to Ecotech 12 MRF:

Plastic Waste	Dry Waste
Mix Plastic	Cardboard
PET	Paper
HDPE	Glass
LDPE	Aluminum Can/ Foil
MLP	Metal
PVC	Tetra Pack
PP	Other Dry Waste
PC& other plastic waste	

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(ii) Transportation of Waste

Currently, GNIDA's waste disposal site is in Lakhnawali where GNIDA is getting the legacy waste remediated through bio-remediation technique. However, GNIDA has also signed Agreement with M/s NTPC NVVN for processing of dry waste and converting it into torrefied charcoal and M/ Ever Enviro for processing of wet waste and converting it into Bio-CNG at Astauli. These two plants will take 24 months for erection. Thus, the vehicles would need to transport the collected waste to the current processing Site in Lakhnawali and in future, some or all waste may be sent to Astauli. Distance between both the sites is approximately 23 kms. **(Appendix 3)**

The whole of Part 1 of Greater Noida area and all waste generators falling within geographical scope of Part 1 of Greater Noida (sectors, Villages, colonies, etc.) need to be covered under this combined EOI for Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste. The list of the areas to be covered is provided in **Appendix 1** (indicative only), incase there is any area left out, then it will be deemed to be included for the purpose door to door collection, transportation and sweeping. Prospective bidders can peruse ONEMAP on GNIDA website to understand length and breadth of the area covered or can conduct survey in the part 1 of Greater Noida region to know better. Moreover, all future generators of waste who are allotted land or already allotted in part 1 of Greater Noida and start residing shall also be covered by the scope of work.

While planning, Most optimum route to be adopted with minimum no. of vehicles with the help of GIS mapping and route optimisation apps. Ensure ICT (GPS based Vehicle Tracking System) linked transportation, operation and monitoring system in place for ensuring effective two-way communication, supervision, monitoring, data management and grievance redressal.

(iii) Integrated Mechanical & Manual Sweeping for more than 45 KM width road

The total main road length having width equal to or more than 45 m is approximately 40.86 km. Authority has decided to undertake Mechanical sweeping of these roads & Manual Sweeping of adjacent service lanes. The road inventory details are furnished in **Appendix 1**. However, bidders are encouraged to conduct their own survey and road assessment in Part 1 of the Greater Noida for better understating of the serviceable area. The scope of work for roads more than 45km width includes:

- Mechanical Sweeping of main roads (both sides of main verge) including providing vehicle and operation and maintenance of vehicle to be done in night
- Manual Sweeping of service roads (both sides of main roads) roads along with Parking areas, Market areas (berms having pavers/tiles or without pavers/tiles) and footpaths between Market Corridors and the Parking areas.
- Deploy adequate number of vehicles and manpower for smooth execution of the project
- Suggest type of vehicle required for road sweeping (however, Truck Mounted Road sweeping vehicle is preferred), footpath washing, transportation of collected garbage, inert and garden waste etc
- Ensure that GPS system is installed in all the mechanized sweeping vehicles along with the four-way CCTV camera (Front, Rear, Left and Right) which can be integrated with multiple monitoring systems including web, android and IOS.
- Transportation of the collected waste/dust/dirt/inert in closed vehicles at the sanitary

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landfill facility located in Astauli (**Appendix 3**) or any other designated spot

- Removal of garbage lying in central verge, road berms, footpath, main roads, service roads and other serviceable area.
- Ensure proper sweeping and cleaning from all weekly markets (**Appendix 2**).
- Keep the Road Gully neat and clean from outside i.e. free from grass, leaves, dust etc.
- Adopt digital attendance system to monitor the staff through Mobile App based (Facial recognition plus geofencing enabled/ configurable). Provide real time data that can be integrated with Authority's ERP system/One Map/ ICCC using APIs/ suitable means to provide real time updates.
- Ensure availability and timely renewal of requisite permits, consents and NOCs.
- Set-up a 24x7 complaint redressal mechanism along with Complaint Cell or control room and ensure timely resolution of complaints.
- The Successful bidder shall employ and provide Sweepers, helpers, drivers, supervisors, managers, Vehicle mechanic, Operations Managers etc. as is required to manage the complete project.
- Identify location for setting up Workshop and parking of vehicles/machines. However, GNIDA may consider setting up parking and workshop facility waste at processing site at Astauli and Lakhnwali.
- Roads to be kept litter free from wall to wall all the time

(iv) Manual Sweeping of internal Roads

The roads having width less than 45 km have to be cleaned manually. Majority of these roads falls inside village and sectors. Details of these roads is given at **Appendix 1**. The scope of work for roads less than 45km width includes:

- Manual Sweeping of internal roads in the areas of villages and sectors and disposal of swept material at Collection points/ Transfer stations/ landfill site, loading/unloading, levelling & transportation with all labour, material and transportation complete.
- Night sweeping markets falling under jurisdiction of Part1 of Greater Noida.
- The Bidder shall ensure to conduct the Manual Cleaning & Sweeping of Roads including public roads, streets, lanes, by-lanes on daily basis. The objective is to keep the road litter and dust free daily.
- Cleaning of internal roads and dhalaos including all vacant plots for areas mentioned (adopted villages including majras and colonies and sectors) with complete cleaning and its disposal at Collection points/ Transfer stations/ landfill site, loading/unloading and transportation complete along with cleaning of drains and disposal etc. Dhalaos would need to be replaced by positioning dustbins. Contractor shall have to inform Authority about such dhalaos where no dustbins have been placed.
- The objective is to keep the roads litter and dust free 24x7, by picking, removing and disposing solid waste, fallen/dry leaves, flowers, twigs, animal waste, loose materials/ debris/ rubbish deposited on or along the road, service lane and footpath, once a day during the daytime (unless mentioned otherwise) and shall report regarding dead animals.
- Details of the area to be cleaned have been provided at **Appendix 1**. The bidder would have the flexibility to allocate sweepers to different areas/ villages, as per his or her discretion.

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- The illegal garbage dumps on roads should be identified and cleaned daily. The Bidder shall ensure that no illegal dumps on roads remain unclean and shall ensure regular monitoring of such dumps.
- Authority may ask the Vendor to clean Government schools or Baraat ghars, if need arises.
- Wild grass, vegetation or other horticulture waste on the side berms, footpaths, medians of all roads, may need to be transported to the nearest parks/ composting areas, as required by the Authority.
- Removal of garbage, animal waste & desilting from open surface drains/ nallahs/ curve channels will be carried out at-least twice a week in sectors & daily cleaning of drains in villages. These drains shall be cleaned on a regular basis to permit free flow of wastewater/greywater. Action shall be taken to ensure that sweepers and citizens do not dispose off any waste into drains. Defaulters may be brought into the notice of public health department to penalize them under prescribed laws/ Acts. It must be ensured that no solid waste found visible in storm.
- The silt collected from surface drains should not be allowed to stay on open roads or footpaths beyond 4 hours. Wet silt should be removed from the main roads in less than 4 hours and, in other areas, within 24 hours.
- Regular emptying of litterbins: situated in the contracted zone shall also be a responsibility of the bidder. The dustbins are to be kept in neat and clean manner and should be cleaned, washed and disinfected on daily basis (in Villages and Sectors both).
- Cleaning of Bitumen Surface: Bitumen surface provided for the service roads, circulating area/-parking area is to be cleaned by using dry cleaning methods. Proper safety signage is to be used while cleaning to avoid any accidents. No traffic movements to be affected due to cleaning operations.
- Cleaning of Pavement: Pavement of concrete blocks, stone blocks etc. to be cleaned by using dry sweeping or any suitable method, which is provided along with, service roads/ circulating area/parking area. Proper safety signage is to be used while cleaning to avoid any accidents. No traffic movements to be affected due to cleaning operations.

(v) Other

- Design, construct, operate and maintain the transfer stations as per the requirement at the desired locations. The transfer stations should contain provision for handling dry waste and wet waste separately.
- Install Electronic weighbridge at Transfer Stations to measure quantity of various components of waste handled at the facility in terms of sorting and segregated materials, RDF, compost material etc, and inert going out of the site
- Ensure collection of segregated waste and conduct adequate IEC to ensure segregation. Details of citizens who do not segregate waste may be provided to GNIDA for penalising them.
- The segregated wet and dry waste received from primary collection & transportation system should be compacted separately and transported to processing facility in segregated manner only.
- Ensure daily transportation of waste received at the transfer station facility.

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- Compulsorily collect user charges from all households, BWGs and other waste generators being served. The User charges approved by the Board and to be notified by the Authority are captured in **Appendix 3**.
- Removal and transportation of Dead animal from assigned areas to incinerator facility established in village Jalpura or any other facility proposed.
- Ensure compliance with various laws and regulations applicable from time to time
- Ensure availability and timely renewal of requisite permits, consents and NOCs.
- Set-up a 24x7 complaint redressal mechanism along with Complaint Cell or control room and ensure timely resolution of complaints.
- Adopt digital attendance system to monitor the staff through –Handheld biometric Machine (Fingerprint/ Iris based) and Mobile App based (Facial recognition plus geofencing enabled/ configurable) or any other method suggested by bidder.
- Cleanliness of the assigned area including markets, sectors & villages is the sole responsibility of the bidder. Bidder will be held responsible for any lapse, if found.
- Bidder to be held responsible for strike happens in the jurisdiction of the Part 1 of Greater Noida.
- Ensure compliance with various laws and regulations applicable including Court & NGT Orders from time to time including CPHEEO norms

A general overview of responsibilities is mentioned below.

Responsibilities of GNIDA	Responsibilities of Vendor
<ul style="list-style-type: none"> i. Finalising and earmarking land for setting up workshop and parking facility for vehicles ii. Facilitate the Concessionaire in obtaining requisite permits, approvals, NOCs etc. iii. Providing room in GNIDA office for setting up control room 	<ul style="list-style-type: none"> i. Mobilize resources for Door to Door collection, Mechanical & Manual Sweeping of Main Roads and Service Roads in Greater Noida West ii. Deploy adequate number of vehicles and manpower for smooth execution of the project. iii. Timely submit monthly reports to the Authority. iv. Ensure compliance with various laws and regulations applicable from time to time. v. Ensure availability and timely renewal of requisite permits, consents and NOCs. vi. Set-up a complaint redressal mechanism and ensure timely resolution of complaints. vii. Hand over peaceful possession of the site to Authority, upon completion or termination of contract, without any encumbrances and liability whatsoever

Suggested Revenue sources for Vendor can be:

- i. Rate per running KM or hectare
- ii. Tonnage of weight collected & transported
- iii. Per Household
- iv. Monthly Rate
- v. KPI linked payment
- vi. Initial Annual Quote

6. Participation Criteria for this EOI

The EOI proposal submitted by the participants clearing the following criteria will be eligible for evaluation (only eligible participants will be called for presentation) along with duly filled Forms attached along with this EOI document:

S. No.	Eligibility Conditions	Documentary proof to be submitted
1	The Bidder should be an Indian entity registered under the Companies Act Or Partnership firm/ (s) registered under the Partnership Act of 1932 or registered (converted to) under the Indian Limited Liability Partnership Act, Or registered under the Indian Societies Act / Indian Trust Act / Indian Religious and Charitable Trusts Act / Section-8 company Or registered as a not for profit organization under the Companies Act or the relevant State Acts in India. The entity/ ies should be registered in India.	1. Company Registration certificate/Partnership Deed/ Trust Deed/ Section 8 Company Certificate 2. PAN card copy 3. GST registration
2	Average Annual turnover (Start-ups may be exempted from this criteria, provided they are associated with professionals with a proven track record in planning and implementation of Door to Door collection & transportation of waste, Mechanical and Manual road sweeping work at city level)	Audited Financial statements – Balance Sheets, Profit and Loss Accounts, Annual Reports, CA certificate
3	The bidder should have in the last 7 years completed or currently working on similar projects in implementation of Door to Door collection & transportation of waste, Mechanical and Manual road sweeping work at city level having minimum population of 5 Lakh (Start-ups may be exempted from this criterion, provided they are associated with professionals with a proven track record in planning and implementation of Door to Door collection & transportation of waste, Mechanical and Manual road sweeping work at city level)	As per format
4	The Bidder should have Income tax, PAN, GST Registration, any other competency certificate (if any) proving Institutional (Offices) nature of the organization and nature of activities (Offices) to be carried out.	Respective certificates

7. Presentation of Interest

Interested participants are kindly requested to submit their presentations in PDF format to the provided email address. The Presentation can be made in hybrid mode i.e. online & offline

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(whichever is convenient to the bidder). The presentation should talk about the following aspects.

- i. **Introduction and Company Overview:**
 - Introduce the presenting company and provide an overview of its background, experience, and expertise in similar ventures.
 - Set the context by emphasizing the unique challenges faced by traditional waste management including Door to Door collection & transportation of waste, Mechanical and Manual road sweeping work in cities.
- ii. **Understanding of Scope of Work:**
 - Demonstrate a thorough understanding of the outlined scope of work, emphasizing how the company plans to fulfil each component effectively.
- iii. **Holistic Vision and Approach**
 - Describe how your visionary approach aligns with the objectives of operational excellence, efficient collection and transportation, road sweeping, resourceful ICT/ Digital Tools/Technology usage, T&P maintenance, Environment, Health and Safety Policy & Practice, compliance, and reporting.
 - Showcase your strategies for efficient labour coordination & management, customer service, and conflict resolution considering active labour unions in Greater Noida area.
 - Approach for collection of user charges from assigned areas of Greater Noida West
 - Suggest Penal clauses for different Key performance Indicators
 - Suggest number of years of contract for which tender can become viable
- iv. **Project Management**
 - Present your strategic project management methodology that ensures efficient planning, coordination, and successful execution.
 - Illustrate how you will prioritize and implement project for maximum impact.
 - Indicative project cost and broad assumptions for various revenue and cost heads
- v. **Balanced Infrastructure Evaluation**
 - Explain your method of assessing current and future infrastructure needs, accounting for a sustainable 10-year horizon.
 - Describe your data-driven approach to identifying gaps and proposing well-rounded solutions.
- vi. **Resource-Optimized Planning**
 - Present your innovative strategies for optimizing existing infrastructure in a way that enhances capacity and efficiency.
 - Exemplify how you are going to utilise IEC and BCC initiatives to promote segregation waste at source, cleanliness of roads by citizens etc.
 - Demonstrate how you plan to integrate technology and eco-friendly practices for measurement.
- vii. **Illustrative Case Studies:**
 - Share relevant case studies from your portfolio that exemplify successful implementations of door-to-door collection and transportation of solid waste, road sweeping work at city level.
 - Showcase how your solutions have brought positive change to similar contexts.

8. 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.

9. Formats for submission of information

Annexure 1: Format for Covering Letter

[On the letterhead of applicant]

Date:

To,

Senior Manager, 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 Integrated Mechanical Sweeping, Manual Sweeping, Door to Door Collection & Transportation of waste in Part 1 of Greater Noida

Dear Sir,

With reference to your EOI document dated _____, I/We the undersigned am/are hereby Expressing our Interest for Integrated Mechanical and Manual Sweeping of Roads, Door to Door Collection & Transportation of waste in Greater Noida West.

I/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.

I/We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

(Name and Title of the Signatory)

(In the capacity of)

Company Seal _____

(Name of the Entity): _____

(Registered Address of the Entity): _____

(Email ID): _____

(Contact Number): _____

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Annexure 2: Details of the Applicant

[Please capture all relevant information]

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	

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Annexure 3: Financial Capability

Particulars	Annual Turnover (INR)
2019 – 2020	
2020 – 2021	
2021 – 2022	
2022 – 2023	
<i>Total</i>	<i>Average Annual Turnover</i>

Note: Copy of the Audited Balance sheet and ITR duly certified, shall be attached as proofs.

On Behalf of (Name of the Bidder)

Signature of the Authorized Person

Name:

Designation:

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Annexure 4: Details of Relevant Works Completed in Last 7 Years

#	Name of Client and Place of Operation (City, State)	Scope of Project (Road sweeping), Kilometres cleaned annually or (C&T), Waste Collected annually	Project Value (INR)	Project Start and End date (MM.YYYY)	Commercial Operation Date (COD) (MM.YYYY)	ICT/ Technology usage in past projects
1						
2						

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Annexure 5: Project Concept

Provide data for project conceptualization information:

S. No.	Particulars	Details
1	Fixed infrastructure required (Type of civil/permanent structure with estimated area for parking, workshop estimated area for transfer station; including space required for segregation, storage of waste, parking of vehicles, workshop and effluent (leachate) treatment)	i. ii. iii. iv. v.
2	Whether flexible with the site layout and fixed infrastructure	Yes/ No
3	Proposed Digital interventions/ Technologies for monitoring of vehicle tracking, road, household coverage etc	i. ii. iii.
4	Manpower required for overall project	i. ii. iii.
5	Type of sweeping vehicles to be used for cleaning roads, washing footpath, transporting collected waste collection vehicle etc	i. ii. iii.
6	Approximate Operational cost (enclose break-up and assumptions)	INR _____ Lacs per month
7	Approximate Capital (equipment/ machinery/ movable assets) cost	INR _____ Lacs
8	Estimated Revenue generation (enclose break-up and assumptions) User charges	INR _____ Lacs per month VGF required (Yes/No)
8	Bid Value	i. Running km ii. Average Monthly rate iii. Other, (specify)

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

Appendix 1: Area Inventory Details

Indicative details of Sectors for Door-to-Door Collection of waste in Part 1

S. No	Sector/ Village Name
1	TECH ZONE-IV
2	SECTOR-01
3	SECTOR-02
4	SECTOR-03
5	SECTOR-04
6	SECTOR-16
7	SECTOR-16B
8	SECTOR-16C

Indicative Details of Villages for Door-to-Door Collection of waste

S.No.	Name of the Village
1.	Acheja
2.	Amnabad
3.	Bisrakh
4.	Chhapraula
5.	Chhipiyana Bujurag
6.	Chhipiyana Khurad
7.	Choti Milak
8.	Hebatpur
9.	Jalpura
10.	Kherpur Gurjar
11.	Milak Lachhi
12.	Patwari
13.	Roza Yakubpur
14.	Roza Jalalpur
15.	Deri Machcha
16.	Shaberi
17.	Yusafpur Chaksahberi

Indicative roads for Integrated Mechanical Sweeping & Manual Sweeping

All main roads of Greater Noida West are described below where integrated Mechanical Sweeping & Manual Sweeping is to be performed. However, bidders are encouraged to conduct their own survey and road assessment in Greater Noida West for better understating of the serviceable area.

S. No.	Name of Road	Road Length (In Km)	Right of Way (ROW) (In Mtr)	Area in Hectares
Part-1				
1	तिगरी रोड़ से गौड सिटी-2 कोने टी पॉइन्ट तक (नाले के साइड का रोड़)	0.9	24	2.16
2	गौड सिटी-2 टी पॉइन्ट से एण्ड पॉइन्ट तक (गौड सिटी-2 के पीछे का रोड़/गौड इंटरनेशनल स्कूल एवं द मदर स्कूल महागुन के बीच का रोड़)	0.9	45	4.05
3	गौड सिटी-1 टी पॉइन्ट एंज.के.जी. पॉम ग्रीन से टिगरी 60 मीटर रोड़ तक	0.9	60	5.4

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4	130 मी० रोड (इण्डियन ऑयल पेट्रोल पम्प, सुपरटेक ईकोविलेज-2) से सुपरटेक ईकोविलेज-2 एण्ड पॉइंट तक (सुपरटेक ईकोविलेज-2 एवं आस्था ग्रीन के बीच का रोड)	0.5	45	2.25
5	130 मी० रोड एक मूर्ति गोल चक्कर से रेलवे लाइन तक (सुपरटेक ईकोविलेज-3 एवं अजनारा गोल चक्कर होते हुये)	2.46	60	14.76
6	एस.के.एल. वर्ल्ड स्कूल एवं निराला स्पायर से सुपरकास्ट तक (निराला स्पायर, विक्टर वन एवं के ग्रीन-1 एवं एस.के.एल. वर्ल्ड स्कूल के बीच का रोड)	1.1	45	4.95
7	एस.के.एल. वर्ल्ड स्कूल से सुपरटेक ईकोविलेज-3 एवं अजनारा गोल चक्कर तक (अजनारा, निराला एम्पायर, गुलशन होम एवं सुपरटेक ईकोविलेज-3 के बीच का रोड)	0.61	45	2.74
8	अजनारा एवं सुपरटेक ईकोविलेज-3 गोल चक्कर से राजा याकूबपुर एवं मिलक लच्छी के बीच तक (फुल रोड)	1.4	60	8.4
9	राजा याकूबपुर एवं मिलक लच्छी के बीच से 130 मी० रोड मिलक लच्छी रोटरी तक (रोटोकॉम्स कम्पनी के साइड का रोड)	0.7	60	4.2
10	टेकजोन-4 गौड सिटी गोल चक्कर के पास टी पॉइंट (यामाहा कम्पनी वाले 60 मी० रोड) से नोएडा लिंक ब्रिज गोल चक्कर तक (टेकजोन-4 पीछे पुस्ते के साथ वाला रोड)	2.9	60	17.4
11	ए.सी.ई. सफाया के पास 60 मी० रोड (यामाहा वाले रोड) से ए.सी.ई. सफायर के पीछे पुस्ता वाले रोड तक (ए.सी.ई. सफायर से ए.सी.ई. सफायर के पीछे वाले रोड पर जुड़ने वाली रोड)	0.74	45	3.33
12	टेकजोन-4 हनुमान मन्दिर गोल चक्कर से पुस्ता ब्रिज तक (नोएडा एवं ग्रेटर नोएडा को जोड़ने वाली रोड, टेकजोन-4 का रोड)	2	60	12
13	पंचशील हाईट्स टी पॉइंट से मिस्टी हाउस (टेकजोन-4)	1	45	4.5
14	1 मूर्ति/चैरी काउंटी गोल चक्कर से रियान स्कूल होते हुये 60 मी० यामाहा कम्पनी वाले रोड आर्था ए.सी.ई.जैड. तक	1.8	45	8.1
15	130 मी० रोड खैरपुर रोटरी से सेक्टर-10 के एण्ड पॉइंट तक (टेकजोन-7 एवं सेक्टर-10 के बीच का 80 मी० रोड)	0.9	80	7.2
16	सेक्टर-10 एवं सेक्टर-11 के बीच का 60 मी० रोड (1450 मी०-200मी० विवादित भूमि =1250 मी०)	1.25	60	7.5
17	130 मी० रोड सैनी रोटरी से सेक्टर-10 के एण्ड पॉइंट तक (सेक्टर-12 एवं सेक्टर-10 के बीच का 80 मी० रोड)	1	80	8
18	तुस्याना कट से तिगरी चौक तक (वाया गौड सिटी रोटरी)	12	51.85	62.22
19	खैरपुर रोटरी से पर्थला पुल (वाया गौड सिटी रोटरी)	7.8	130	101.4
	Total	40.86	1100.85	280.56
	Area deduction for structure, Electric pole, tree etc Lumsum@5%=			14.028
		Total Hectare		=294.588

Indicative internal roads

All internal Roads of Greater Noida West is described below where Manual Sweeping is to be performed. However, bidders are encouraged to conduct their own survey and road assessment in Greater Noida West for better understating of the serviceable area.

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Villages:

S.No.	Name of the Village	Notified Work Circle of GNIDA	Pucci Roads		Kuccha Roads		Total Length (m)
			Length (m)	Width (m)	Length (m)	Width (m)	
1	Acheja	1	9752.39	5.00			9752.39
2	Amnabad (CC Roads)	3	462.35	5.62			5130.05
			172.95	3.82			
			997.40	2.79			
	(Interlocking Tiles)		1000.00	3.60			
			462.35	4.35			
			180.00	8.00			
			160.00	5.30			
			1695.00	3.33			
3	Bisrakh (CC Roads)	3	694.78	5.61			22669.99
			4931.85	3.85			
			4901.36	2.76			
			700.00	8.28			
			460.00	3.20			
			460.00	3.50			
			2561.00	5.55			
			5463.00	3.55			
			2498.00	2.65			
4	Chhapraula	1	10650	5.00			10650
5	Chipyana Bujurag	1	1818.9	4.90			1818.9
6	Chipyana Khurad	1	3414.23	4.50			3414.23
7	Choti Milak (CC Road)	3	1415.00	3.30			1585.00
			170.00	2.00			
8	Hebatpur	1	4704	4.50			4704
9	Itehra (CC Roads)	3	37.50	4.50			7759
			246.00	4.00			
			2690.00	3.60			
			373.65	3.00			
			74.55	5.40			
			58.00	5.35			
			243.50	4.85			
	Itehra (Interlocking Tiles)		246.00	3.50			
			934.80	4.50			

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S.No.	Name of the Village	Notified Work Circle of GNIDA	Pucci Roads		Kuccha Roads		Total Length (m)
			Length (m)	Width (m)	Length (m)	Width (m)	
			1350.00	3.10			
			1505.00	2.55			
10	Jalpura (CC Road)	3	432.00	2.30			4059
			375.00	3.50			
			722.00	4.60			
			430.00	3.30			
			2100.00	11.00			
11	Kherpur Gurjar (CC Road)	3	211.00	4.45			16957.35
			813.00	3.08			
			276.00	2.38			
			186.70	1.31			
			1832.20	4.35			
			224.00	5.40			
			5633.40	3.15			
			385.30	1.85			
			847.10	6.35			
			1795.00	2.20			
	Kherpur Gurjar (Interlocking Tiles)		70.00	4.00			
			826.00	4.00			
			126.00	5.75			
			275.00	3.00			
			108.70	1.50			
			840.00	6.60			
			1233.95	2.98			
			1274.00	4.00			
12	Milak Lachhi	1	7545	4.00			7545
13	Patwari (CC Road)	3	2030.00	7.00			13048.82
			508.31	2.00			
			1898.53	1.52			
			1747.12	2.43			
			1344.64	3.72			
			914.90	4.56			
			744.00	8.73			
	Patwari (Interlocking Tiles)		1261.22	1.55			
			1808.10	2.58			
			792.00	4.59			

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S.No.	Name of the Village	Notified Work Circle of GNIDA	Pucci Roads		Kuccha Roads		Total Length (m)
			Length (m)	Width (m)	Length (m)	Width (m)	
14	Roza Yakubpur	1	7694	4.00			7694
15	Roza Jalalpur	1	7250	5.00			7250
16	Shaberi	1	2462	5.00			2462
17	Yusafpur Chaksahberi	1	4000	4.50			4000
	Total		130499.7				130499.7

Sectors:

S.No.	Sector	Length (km)/ Width (m) of Road				
		6m	7.5m	9m	12 m	18m
1	Ecotech-12					
2	Ecotech-13					
3	Sector-16					
4	Sector-16B					
5	Sector-16C					
6	Techzone-7				2.41	
7	Techzone-14					
8	Sector-4				2.15	
	Total				4.56 km	

Indicative Sector Roads more than 18 m, Industrial Sectors, 6% Villages & EWS

WORK CIRCLE 1								
S.NO.	Description	24m	18m	12m	9m	7.5m	6m	Total
1	Ecotech-12	4390.00	-	-	-	-	-	4390
2	Ecotech-13	-	-	-	-	-	-	0
3	Sector-16 (residential)	1040.00	-	-	-	-	-	1040
4	Sector-16 (industrial)	1326.00	90.00	-	-	-	-	1416.0
5	Sector-16B	1860.00	-	-	-	-	-	1860
6	Sector-16C	915.00	-	-	-	-	-	915
7	Techzone-7	4310.00	-	-	-	-	-	4310
8	Techzone-14	-	-	-	-	-	-	0
9	Sector-4	850.00	-	-	-	-	-	850
10	Roza Yakubpur (6% Abadi plot)	-	-	-	-	-	-	0

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11	haibatpur (10% Abadi Plot)	-	-	-	-	-	-	0
12	Chapraulla (6% Abadi Plot)	-	-	-	-	-	-	0
13	Badalpur	-	-	-	-	-	-	0
TOTAL		14691.0 0	90.00	0.00	0.00	0.00	0.0 0	14781.0
WORK CIRCLE 2								
S.NO.	Description	24m	18m	12m	9m	7.5m	6m	Total
1	Sector-10	3978.00	-	-	-	-	-	3978
2	Sector-12	4080.00	-	-	-	-	-	4080
TOTAL		8058.00	0.00	0.00	0.00	0.00	0.0 0	8058.00
WORK CIRCLE 3								
S.NO.	Description	24m	18m	12m	9m	30m	6m	Total
1	Sector-1	9000.00	-	-	-	-	-	9000.00
2	Sector-2	-	4000.0	6179.00	14593.0	-	-	24772.00
3	Sector-3	2935.87	150.00	10115.9 4	10800.0	-	-	24001.81
4	Techzone-4	4719.00	278.00	112.00	-	3842.0 0	-	8951.00
TOTAL		16654.87	4428	16406.94	25393	3842	0	66724.81

Appendix 2: Weekly Market (Indicative)

S.N.	Day	Area
1	Monday	Sector 16B,
2	Tuesday	Bisrakh
3	Saturday	Bisrakh, Sector 1

Appendix 3: Processing Sitw

Currently, the location of the processing site is in Habibpur, Lakhnawali. Waste is to be collected and transported to this site from Part 1 of Greater Noida jurisdiction

Location coordinates are: 28.525, 77.460.

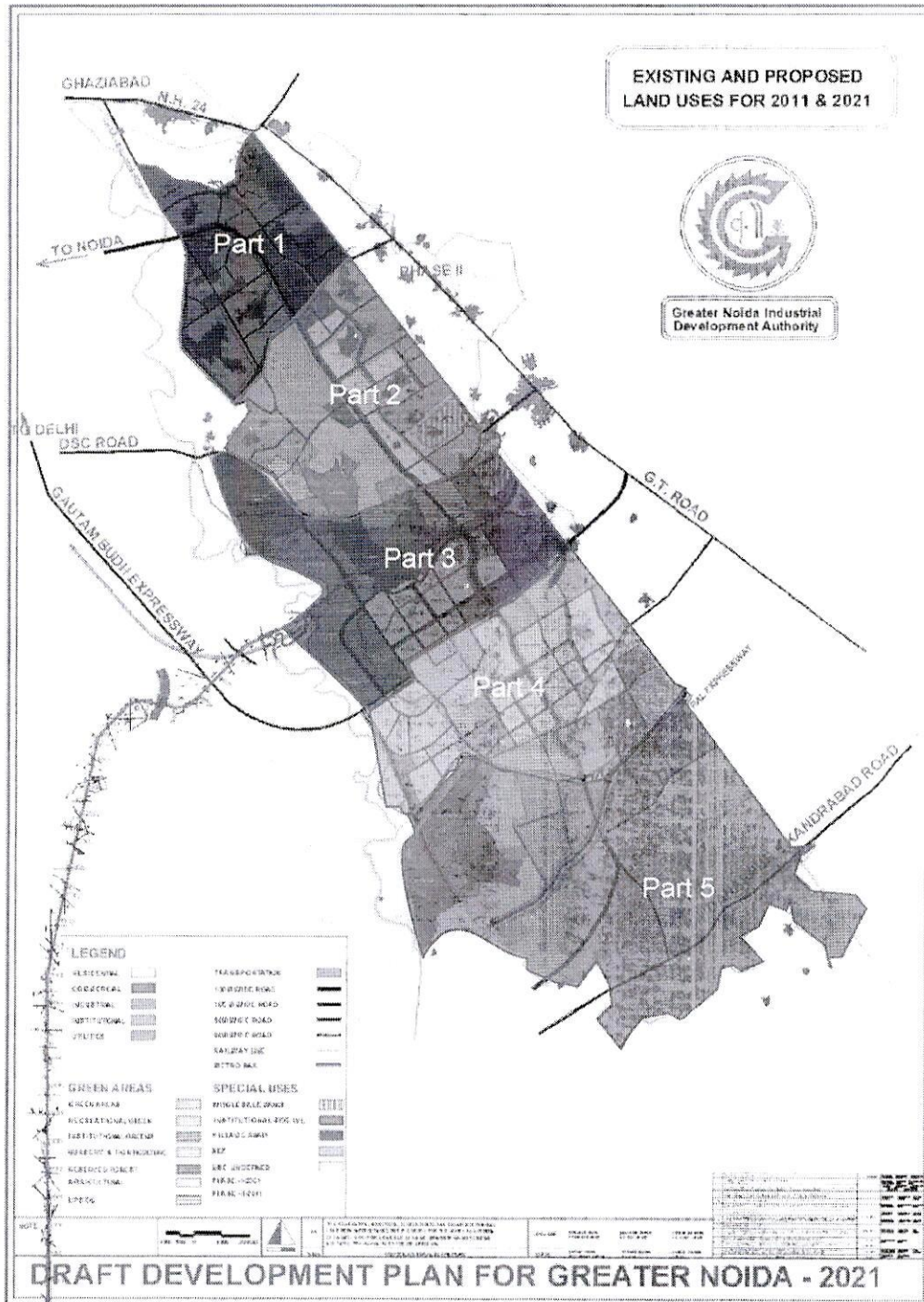
In future, the waste is to be collected and transported to processing site in Astauli.

Location coordinates are: 28.38, 77.66433.



Note: Sanitary Landfill Facility (SLF) also exists in the premises of processing site at Astauli

Appendix 4: Different Parts



Note: This EoI is for Part 1 only.