

**Expression of Interest for**

**Municipal Solid Waste Processing Facility**

**Punjab Municipal Infrastructure Development Corporation (PMIDC)**, Chandigarh intends to solicit applications to participate for the submission of expression of interest for setting-up “Municipal Solid Waste Processing Facility”.

**Important Note**

Method of submission of EOI: **Speed Post/Registered Post or In-person**

Last date for submission of EOI: **November 15<sup>th</sup> 2016, 1700 hrs**

Complete address to send the necessary documents:

<p><b>Punjab Municipal Infrastructure Development Corporation (PMIDC), Punjab Municipal Bhawan (Department of Local Bodies) Plot No 3, Sector 35 A, Dakshin Marg, Chandigarh-160022</b></p>
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## Expression of Interest for

### Municipal Solid Waste Processing Facility

**Punjab Municipal Infrastructure Development Corporation (PMIDC)**, Chandigarh intends to solicit applications to participate for the submission of expression of interest for setting-up “Municipal Solid Waste Processing Facility”.

The expression of interest is hereby called from the experienced companies/organizations, with well-established financial system, sound project management and technical background in designing, constructing and operating **decentralized solid waste processing facilities** ranging from **2 to 100 TPD** of mixed municipal solid waste in the 16 cities of Punjab. The processing should be in compliance with the MSW Rules 2016.

EOI is invited from interested parties to propose any suitable technology for processing of MSW like:

- Bio-methanation producing electricity/gas;
- Electricity generating through incineration;
- Any other viable option.
- Composting;
- RDF;

The interested companies can visit the Department website <http://pmidc.punjab.gov.in/> to check the requirements of the department before submitting the proposal. The sealed proposal super-scribed as **EOI- for MSW Processing Facilities Establishment** should reach by 15<sup>th</sup> November, 2016 at the address mentioned above through Speed Post/Registered Post only.

**Sd/- CEO, PMIDC**

## **Background**

PMIDC is implementing Solid Waste Management strategy in the state of Punjab. Currently, 165 ULBs have been grouped into 8 clusters for handling and processing municipal solid waste generation across Punjab. The total waste generation from 8 clusters is came out as 4105 TPD approximately.

## **Scope of Work**

The department of Local Bodies, Punjab has been interested in adopting decentralized model for processing waste by establishing Municipal Solid Waste Processing Facilities to manage municipal waste ranging from 2 to 100 TPD in different cities across Punjab. The interested companies/organizations, with well-established financial system, sound project management and technical background in designing, constructing and operating Decentralized Municipal Solid Waste Processing Facilities are required to participate.

Further, the technology to be used by the interested company should be economically viable, suited to the local conditions, and environmentally complaint as per the MSW Rules, 2016.

Broadly, the tentative scope of the work would include:

- Design, install, commission and operate the Municipal Solid Waste Processing Facility that is adequately designed to handle and process municipal solid waste in the city.
- Provide adequate in-house/outsourced technical support for trouble shooting, maintenance, repairs, etc. throughout the duration of its engagement by the city/town/ULBs, including during design, installation, commissioning and operational phase of the project.
- Handle, manage and dispose any residue, left over, effluents, and emissions in the process in accordance with local and national rules and regulations.

Collection of mixed municipal solid waste from all points of generation in the city would be undertaken by respective municipalities and mixed waste will be provided by the municipalities to the company at the facility gate for processing and disposal.

**Interested companies/applicants are requested to furnish the following information to PMIDC, Punjab along with a signed declaration of intent:**

**1. Details of company/organization**

Please provide details of the entity(s) which is/are submitting an Expression of Interest for the project:

- Name
- Legal Status (Company: Public/Private, Partnership, Limited Liability Partnership, Sole Proprietorship, Any order)
- Country of Incorporation
- Date of establishment in DDMMYY format
- Principal place of business
- Contact details of designed representative
  - Name
  - Designation
  - Address
  - Phone No./Fax No./E mail

The company may provide above-mentioned information in a clear tabular form as per the Table given below:

Name of Company with Complete Address	Key Person of the Company	Turnover/Income of the Company in Last 5 Years	Number of Similar Projects

**2. Details of the technology provider (if different from the agency)**

Please provide details of the entity whose technology is being proposed by the agency for Municipal Solid Waste Processing Facility:

- Name
- Legal Status (Company: Public/Private, Partnership, Limited Liability Partnership, Sole Proprietorship, Any order)
- Country of Incorporation

- Date of establishment in DDMMYY format
- Principal place of business
- Contact details of designed representative
  - Name
  - Designation
  - Address
  - Phone No./Fax No./E mail

### 3. Technology proposed and detailed cost analysis

Please provide the details of technology used in the proposed decentralized municipal waste processing:

#### 3.1 Technology

- Suitability of organic waste treatment technology for treating municipal solid waste.
- Land requirement for the technology.
- Plan for monetizing the by-product from waste
- Strategy for managing the Technology for Waste Management (repairs, maintenance, patenting, etc.).
- Any other issues related to use of technology.

*Note: The Company may provide above-mentioned information in a clear tabular form as per the Table given below:*

Technology Used			
Plant Capacity (TPD)	Type of Technology Proposed for		
	Organic waste	Inorganic waste	Inert/Residue

#### 3.2 Capital cost

Estimated Capital Cost	Funding Structure	Capital Investment by the Company	Time Required for Setting-up the Plant

### **3.3 O&M cost**

- Manpower staffing for the project including details of manpower requirements (skilled and semi-skilled)
- Operational costs (kindly specify actual values for operational requirements)
  - Total operational cost (monthly)
  - Daily usage of electricity (avg) in MW
  - Daily usage of fuel (avg)
  - Daily usage of water (avg)

### **4. Credentials/Experience in handling similar projects**

Please provide the details of projects based on the company's proposed municipal waste processing technology with a capacity range from 2-100 TPD, that have been completed, or are in the stage of completion by the company. Mention projects in ascending order of capacity, and furnish the following for each project:

- Name of the Client / Public Authority awarding the project
- Date of completion of the project (in MMY format)
- Scale of the project (in TPD)
- Type of organic waste processing technology used:
  - Type of Composting
  - Technology for Bio-methanation producing electricity
  - Any other technology
- Operation mode:
  - Design - Build - Finance and Operate (DBFO); or
  - Design - Build - Operate - Transfer (DBOT); or
  - Build - Own - Operate - Transfer (BOOT); or
  - Build - Own - Operate (BOO); or
  - Design and Build; or
  - Design - Build - and Operate (DBO); or
  - Build - Operate - Transfer (BOT), or
  - Any other: kindly specify

- Receipt of waste, all 7 days of week, all 365 days (Yes/No)
- Input / Output streams and yields
- Land requirement including plant footprint area (in Sq Mt)
- Environment management plan
  - Emissions (indicate type of pollutants, emission levels, emission control technologies in place)
  - Inert waste (indicate quantity generated as % of input stream, composition, on- site/off- site disposal mechanism in place)
  - Other waste (indicate quantity generated as % of input stream, composition, on- site/off- site disposal mechanism in place)
  - Leachate (indicate quantity generated as % of input stream, composition, on- site/off- site treatment mechanism in place)
  - Odour (describe odour management plan in place)
- Scope of work of the company
- Scope of work of the Client / Public Authority awarding the project
- Duration of contract
- Any risks perceived for success of the project and risk mitigation mechanisms undertaken

***\*\*Please summarize the project; along with any other useful information which is accurate and precise; in Annexure I\*\****

## **Applicant's Declaration**

To:  
CEO,  
Solid Waste Management Division, PMIDC,  
Plot # 3, 5th Floor, Sector 35-A,  
Chandigarh – 160022

Dear Sir,

In response to your invitation towards Expression of Interest for design, installation, commissioning, and operation of municipal solid waste processing facility for the municipal solid waste of 2-100 TPD, we \_\_\_\_\_ <agency's name> hereby declare our interest to bid for this project, and further declare that:

- The information provided in this EOI application is true and correct to the best of our knowledge.
- We will inform PMIDC immediately if there is any change in the information provided in this application at any stage during the EOI / tender procedure or during implementation of the project scope.
- We also understand that if information provided is proved false, the application and any award made on its basis may be considered null and void.

Date:

Yours faithfully

\_\_\_\_\_,'

<Name of authorized signatory>,

\_\_\_\_\_

<Designation



Company name including address, contact person, e-mail

Designed capacity ( <b>Mixed waste</b> ):	30 TPD	45 TPD	60 TPD	75 TPD
Method for managing organic component: <ul style="list-style-type: none"> <li>Organic (%age in mixed):</li> <li>Compost (%age of organic waste):</li> <li>Bio-methanation (%age of organic waste):</li> <li>Any other (please mention)</li> </ul>				
Method for managing in-organic/Inert component: <ul style="list-style-type: none"> <li>Landfill</li> <li>WTE options</li> <li>Any other (please mention)</li> </ul>				
Total Capital Cost (INR): <i>(Attach separate sheet for splitting capital costs components)</i>				
Total Monthly O&M Cost (INR): <i>(Attach separate sheet for splitting O&amp;M components)</i>				
Any additional cost (INR): <i>(Specify the components)</i>				
Total land Requirement for handling waste (sq mt):				
Time required in commissioning:				
Type of waste required for processing:	Mixed	Mixed	Mixed	Mixed
Availability of onsite segregation facilities (Y/N), Please specify type:				
Management plan for end-product compost, bio-gas, and electricity included (responsibility, sale/storage, recycling etc.)?				
Management plan of bio-methanation end-product i.e. slurry management, wastewater recycle (sale/storage, etc.)?				
Total Revenue Estimation in (INR)/year from: <ul style="list-style-type: none"> <li>Compost/organic fertilizer</li> <li>Bio-gas</li> <li>Electricity generation</li> </ul>				
O&M cost offset criteria through sale of end-products:				
<b>Total Cost (INR):</b>				