

Expression of Interest (EOI)



Wet Solid Waste (Biodegradable)
and horticulture waste Processing
facility at
CSIR-CSIO ,Chandigarh

CSIR-Central scientific Instruments Organisation

Sector 30-C

Chandigarh

Ph-01772672256,2657083

CSIR-CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION
Civil Engineering Section

CSIO/1428/19-20/ESD

Date:10.12.2020

Invitation for Expression of Interest (EOI) for processing of solid waste (wet waste) in CSIO and IMTECH Chandigarh

Central Scientific Instruments Organisation a constituent unit of Council of Scientific and Industrial Research a premier national laboratory envisages a in-house facility for treatment of **wet solid waste** (Biodegradable) at CSIR-CSIO, Sector 30 and CSIR-IMTECH, Sector 39 Chandigarh. The solid waste (wet) is to be treated with all applicable laws and regulation as per latest guidelines issued by Chandigarh Administration/SWM rules 2018. Director CSIR-CSIO invites EOI from specialized agency/ Organisation/NGO dealing with similar work.

Those interested agencies/firms may **download** the EOI tender from CSIO website (www.csio.res.in) EOI be sent to sealed envelope containing all documents in sealed envelope super scribed “ Expression of interest” for solid waste management (wet) so as to reach AO Office CSIR-CSIO Chandigarh by 14.01.2021 before 5PM.

Sr. Superintending Engineer (Civil)
CSIR-CSIO, Chandigarh

**Expression of Interest for
Wet Waste Processing Facility**

CSIR-CSIO Chandigarh solicits submission of expression of interest for setting-up “Wet Waste and horticulture waste Processing Facility” at CSIR-CSIO Sector 30 and **CSIR-IMTECH** Sector 39 ,Chandigarh

Expression of interest is hereby called from experienced companies/organizations, with well-established sound financial background , established project management credentials technical background in designing, constructing and operating **Wet waste processing facilities** ranging from **200-300 Kg wet waste ,about 100 Kg horticulture waste at CSIO and about 150 kg wet waste and 75 kg horticulture waste at IMTECH on daily basis** in its campus situated at sector 30 Chandigarh and at IMTECH Sector 39 Chandigarh . 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 wet solid waste like :

- a) Aereatic static pile composting
- b) In- vessel composting
- c) Vermicomposting
- d) Bio-methanation producing electricity/gas

The above list is not exhaustive and other technologies can also be proposed.

The proposal should have full detail of IPR ownership /Licenses involved, SIR-CSIO reserve the right to seek additional detail as may be required from the original holder of such IPR/Copyright or the licensor as the case may be.

The interested agencies /Organisation/NGOs should submit the expression of interest (EOI) in a sealed cover containing all the document as mentioned in EOI document to Director CSIO on any working day by 14.01.2021 before 5 PM

The interested Agencies /organization /NGO /may visit the site (CSIR-CSIO and CSIR-IMTECH) for assessment of solid waste (Wet) of these Institute .

Background

Both Central Scientific Instruments Organisation (CSIO), and Institute of Microbial Technology are a constituent unit of Council of Scientific & Industrial Research (CSIR). CSIR-CSIO is a premier national laboratory dedicated to research, design and development of scientific and industrial instruments. It is a multi-disciplinary and multi-dimensional apex industrial research & development organization in the country to stimulate growth of Instrument Industry in India covering wide range and applications. The campus is spread on 120 Acres having office area and residential area about 300 houses, three hostels, one upcoming 100 room hostel, scientist apartments. The entire campus is lush green.

The CSIR-Institute of Microbial Technology (IMTECH) a fore-runner in the niche domain of microbial biotechnology, and occupy an area of about 47 acres. In its continuous efforts to maintain environmental norms, **CSIO and IMTECH are endeavoring to turn their campus into Eco- Smart Campuses with sustainable waste management practices.**

Scope of Work

For Management of Solid Waste, CSIR-CSIO invites "Expression of Interest" (EOI) from reputed firms having experience in solid waste management and processing. The interested parties may submit their Expression of Interest to Design, Build/Installation, Commissioning, Operation and maintenance **for minimum 5 years time period.** The proposal shall take care of waste generated from Residential and Non-Residential area of the Institute. The approximate number of users are as follows:-

S. No.	Descriptions	Strength CSIO	IMTECH
02.	No of Families Residing in Houses of campus	200	100
03	Students/PA/SR/JRF in the institute	200	200
04.	Students, Staff and Visitors, contractor staff (Office Area)	500 Nos.	400

Total quantity of wet waste (Segregated) is about 200 kg in CSIO and 100 Kg in IMTECH, horticulture waste is about 100 kg in CSIO and 70 KG in IMTECH. The Processing technology used should be Eco Friendly and in conformity with **,NGT Environmental Rules & Regulations ,Solid waste management rules**

Further, the technology proposed to be used should be economically viable, suited to the local conditions, and environmentally compliant as per the MSW Rules,

2016 as amended from time to time .

Broadly, the tentative scope of the work would include:

- Design, install, commission and operate the wet Waste Processing Facility that is adequately designed to handle and process wet waste (Biodegradable) in CSIO and IMTECH Campus (both colony and office Area).
- Provide adequate in-house/outsourced technical support for trouble shooting, maintenance, repairs, etc. throughout the duration of the project , 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 segregated wet organic solid waste from all points of generation would also be responsibility of of implementing agency .

Interested companies/applicants are requested to furnish the following information to CSIO 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 CSIO wet Waste and horticulture 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 wet waste and horticulture waste processing facility -

3.1 Technology

- Suitability of organic waste treatment technology for treating wet waste and horticulture waste processing facility .
- 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:

Plant Capacity (TPD)	Organic waste	Inert/Residue

3.2 Estimated Capital cost

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

3.3 Estimated 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 wet municipal waste processing technology with a similar capacity 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 (Daily processing capacity)
- Type of organic waste processing technology used:
 - Type of Composting
 - Technology for Bio-methanation producing electricity
 - In vessel composting
 - Any other technology
- Operation mode:
- 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 CSIO/IMTECH awarding the project
- Duration of contract
- Any risks perceived for success of the project and risk mitigation mechanisms undertaken

5 .Any other Additional Information relevant to proposal

General Information for Respondents

1. The purpose of this EOI is to solicit information on waste management technology. At the same time this EOI provides the opportunity for companies/agencies to assist CSIR-CSIO in gathering technical information pertaining to setting up of Plants/Setup for processing of wet Waste in an environment friendly manner.

2. This EOI process is undertaken by CSIR-CSIO for the purpose of receiving data and information for planning purposes, and is not a request for competitive proposals; therefore, responses to this notice are not considered offers and shall not be accepted by CSIR-CSIO to form a binding contract.

3. This EOI does not constitute a solicitation or a promise of a solicitation in the future and shall not be construed under any circumstances as a pre-requisite or prequalification procedure. As such, this EOI is not to be considered as a request for proposals or as a tender or any Procurement Action. This EOI shall not, under any circumstances, constitute any commitment on CSIR-CSIO to negotiate with any or all interested parties, nor to enter into any agreement for provision of services at this stage .

4. Moreover, to preclude any doubt, it is emphasized that CSIR- CSIO shall have the right to reject, in whole or in part, any opinion, conclusion or information delivered to it through this EOI. CSIR-CSIO shall also have the right to use the information presented and/or submitted to it for the purpose of planning and preparing a tender or any other procedure, should CSIR-CSIO decide to implement one.

5. CSIR-CSIO shall not be bound to accept and/or consider any Response and it does not undertake herein any commitment whatsoever towards any of the interested parties. CSIR-CSIO may ignore any Response which lacks information or has unclear details. The firm may be called to give presentations before a committee.

6. It does not create any obligation on CSIR-CSIO 's part to commence, continue or complete any purchase procedure and/or to act in any other method of acquisition, and CSIR-CSIO shall act at its sole and absolute discretion in this respect. This EOI does not commit CSIR-CSIO to contract for any supply or service or to publish any tenders or any other further procedure. SIR-CSIO will not be obligated to pursue any particular acquisition alternative as a result of this EOI.

7. CSIR-CSIO shall not be charged in any manner for the submission of information in accordance

with this procedure. Respondents are advised that CSIR-CSIO will not pay for any information or administrative costs incurred in response to this EOI. All costs associated with responding to this EOI are solely at the responding parties' expense. Every Respondent shall bear their own costs with respect to this EOI and any information presented and/or submitted to CSIR-CSIO through this EOI is provided voluntarily.

8. Depending upon the submissions received, CSIR-CSIO may, as a result of this EOI, approach, at its sole discretion, one or more of the Respondents and/or any other party, in order to obtain additional information. CSIR-CSIO may also decide to set aside a period of time to gain such further information and visit their facilities of any or all the proposers. The meeting would take place in India and the cost shall be borne by each party individually.

9. CSIR-CSIO may wish to share submitted information with outside technical experts for evaluation assistance in which case they will be informed about the privileged nature of the information. However, if a submitter wishes their information to be made available only to CSIR, a prominent label/watermark stating "for CSIR" must be placed on each such page and information be specifically marked as confidential.

10. Respondents are solely responsible for properly marking and clearly identifying any proprietary information or trade secrets contained within their response. CSIO will not be liable for, or suffer any consequential damages for any proprietary information not properly marked and clearly identified. Proprietary information received in response to this EOI will be safeguarded and handled in accordance with applicable regulations.

11. CSIR-CSIO reserves the right to accept as any commercial proposals from entities which did not participate in this EOI process but submit the bids in response to call for commercial bids in future, arising in whole or in part from the present EOI.

12. CSIR-CSIO reserve the right, at any time and at its sole discretion, to amend this EOI or any aspect thereof, as well as to extend the date for submission of the Responses. In addition, CSIO reserves the right to cancel this EOI in its entirety at its sole discretion, without providing the Respondent(s) any (or no) reason or explanation.

13. The decision of CSIR-CSIO shall be final and binding in evaluating and short listing the appropriate technology to be used in campuses for sector 30 and Sector 39 either from among the submissions in response to this EOI or from such source as deemed fit and suitable .

CSIR-CSIO will endeavor to preserve the confidentiality of the information provided if at all.

Applicant's Declaration

To:
Director ,
CSIR-CSIO
Chandigarh – 30

Dear Sir,

In response to your invitation towards Expression of Interest for design, installation, commissioning, and operation of wet waste and horticulture waste processing facility at CSIR-CSIO and CSIR-IMTECH, we _____ <agency's name> hereby declare our interest to submit our proposal 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 CSIO 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.
- The information provided is not proprietary or protected by IPR/copy right unless specially indicated where applicable.

Date:

Yours faithfully

<Name of authorized signatory>,

<Designation

Designed capacity	
Method for managing organic component: <ul style="list-style-type: none"> • Organic (%age in mixed): • Compost (%age of organic waste): • Bio-methanation (%age of organic waste): • In-Vessel composting • Any other (please mention) 	
Method for managing in-organic/Inert component: <ul style="list-style-type: none"> • Landfill • WTE options • Any other (please mention) 	
Estimated Capital Cost (INR): <i>(Attach separate sheet for splitting capital costs components)</i>	
estimated Monthly O&M Cost (INR): <i>(Attach separate sheet for splitting O&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:	
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.)?	
Estimated Revenue Estimation in (INR)/year from: <ul style="list-style-type: none"> • Compost/organic fertilizer • Bio-gas 	
O&M cost offset criteria through sale of end-products:	
Total Cost (INR):	