

Expression of Interest (EoI) for

Design, Development, Installation and Commissioning of Integrated
Municipal Solid Waste Disposal System (iMSWDS)

Reference No:

Date of Issue:

Last date of submission:



CSIR-Central Mechanical Engineering Research Institute
(A Constituent Establishment of CSIR, Govt. of India)
M.G. Avenue, Durgapur-713209, West Bengal

1) INTRODUCTION:

The Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur is a premier research Institute under aegis of Council of Scientific and Industrial Research (CSIR), involved in multidisciplinary R&D programmes of both basic and applied nature across scientific disciplines for economic, environmental and societal benefits for the people of India. As the only national laboratory dedicated to mechanical engineering, the core mission of the CSIR-CMERI is to conduct research and develop cost effective and value added technologies in mechanical engineering and allied domains. Yet another element of CSIR-CMERI's mission is to contribute significantly to national skill development initiatives for sustainable empowerment. CSIR-CMERI envisages emerging as a global R&D institute having confidence of industries and visibility to society in mechanical engineering sciences and technologies.

CSIR-CMERI invites Expression of Interest (EoI) from EPC Contractor / Equipment Suppliers / manufacturer etc., henceforth called as 'provider', for detail engineering, fabrication, procurement, installation, commissioning of Integrated Municipal Solid Waste Disposal System (iMSWDS) Projects at different places. After analyzing and due evaluation of the bidder capabilities by an Expert Committee, a tender for the same shall be issued with detail technical specifications to short list providers, based on the selection criteria determined by above said Committee.

2) PLANT DESCRIPTION:

CSIR- CMERI has developed suitable technology for disposal of Municipal Solid Waste in scientific manner. It is pertinent to mention that the scientists are already involved in conducting in-depth research in Mechanized Segregation, Plasma Gasification, Pyrolysis, Bio-methanation, Briquette making and utilization of Construction & Demolition waste. CSIR-CMERI has already developed a MSW Management Pilot Plant where day to day wastes generated at CMERI Colony are being processed and aiming towards "Zero Waste CMERI Colony".

CSIR-CMERI has also formulated different proposals for implementation of Integrated Municipal Solid Waste Disposal System (iMSWDS). For detail engineering, fabrication, procurement, installation, commissioning of the project CSIR-CMERI needs co-operation from reputed EPC Contractor.

3) MSW Characteristics:

A brief detail of physical characteristics of waste currently under processing are provided below:

Components	Overall (%)
Food, vegetable waste, green leaves	28.90
Banana stem, fruit stalk	5.39
Dry leaves	36.58
Plastics & Paper	10.73
Rags & Textiles	1.78
Rubber & Leather	0.62
Fish Waste (Scales & Fins)	5.15
Inert (dust, earthen cups, stones)	10.84

4) SCOPE OF WORK:

The brief scope of work for participant are as follows

Detail Engineering, fabrication, procurement, installation, commissioning of Integrated Municipal Solid Waste Disposal System (iMSWDS) from 1TPD-50TPD capacity ranges consisting of-

- mechanized segregation system for live Municipal Solid waste;
- mechanized segregation system for dead Municipal Solid waste;
- polymer waste pyrolysis plant;
- plasma gasification plant;
- composting plant;
- biogas plant;
- briquette plant;
- construction & demolition waste disposal plant.

Operation & Maintenance of installed plants subsequent to commissioning for a period of five years.

This project shall be executed jointly with CSIR-CMERI as the consortium leader. The conceptual model and basic engineering including any Intellectual Properties Rights shall be in scope and ownership of CSIR-CMERI and the bidder shall carry out the detail engineering, fabrication, procurement, installation, commissioning work for the projects. Performance guarantee test to prove the performance as guaranteed by the consortium.

5) PRE-QUALIFICATION CRITERIA (PQC):

- a) The bidder should have minimum 10 year of experience in Execution of Engineering, Procurement and Construction Projects providing turnkey solution of EPC projects in Power sectors, Process Plants of Metals and Minerals, Infrastructure Projects. The bidder and/or their subsidiaries should have manufacturing facilities and should essentially have manufacturing experience of equipment like Conveyor, Crusher, Screen, feeders etc.

To this effect, Bidder shall submit copies of respective EPC contracts, along with documentary evidence in respect of satisfactory execution of each of those contracts, in the form of copies of any of the documents (indicating respective contract number), such as – Purchase Order, Satisfactory completion / performance report

(OR)

Any other documentary evidence that can substantiate the satisfactory execution of each of the contracts cited above.

- b) Bidder should have an average annual Turnover of 100.00 crores or more in last consecutive five years
- c) Bidder should have a Positive Net Worth in the preceding three (3) Financial year

6) GENERAL TERMS & CONDITIONS

6.1 JOINT PROJECT:

This will be a joint project between CSIR-CMERI and bidder, where the provider has to carry out detail engineering, fabrication, procurement, installation, commissioning, trial, operation & maintenance.

6.2 EXECUTION METHODOLOGY:

Bidders shall submit execution methodology and time required to execute the project and the time required for execution of the project. (Weightage shall be given to a bidder who can implement the proposed system in the minimum time period)

6.3 PAYMENT:

Payment will be linked to the success of the project with phasing and evaluation of prescribed milestones. CSIR-CMERI proposes to pay to the bidder as per the payment terms jointly agreed upon after successful bidding process is over/ after successful commissioning and performance guarantee demonstration by the bidder.

6.4 REQUESTS FOR CLARIFICATION

If at any time during the EoI process, CSIR-CMERI requires any clarification on the EoI proposal submitted by the interested bidder, it reserves the right to request such information from any or all of the interested bidders and such bidders will be obliged to respond and supply the same within such reasonable time frame as may be required.

6.5 MODIFICATION/CANCELLATION

- i. CSIR-CMERI reserves the right to amend/modify/delete any of the above conditions and/ or the process as may be deemed necessary in the light of the facts and circumstances of the cases and requirement
- ii. CSIR-CMERI reserves the right to proceed with/ cancel the process irrespective of the response to EoI.
- iii. CSIR-CMERI at its discretion may extend the last date for submission of proposal to the EoI.
- iv. Interested parties are advised to keep themselves informed by checking CSIR-CMERI website <https://www.cmeri.res.in> regularly for any such modification/ cancellation that may be notified. CSIR-CMERI shall not be notifying any such modification separately through any other media.
- v. Decision of CSIR-CMERI in respect of the above would be final and binding on the parties.

6.6 GOVERNING LAWS/JURISDICTION/ARBITRATION

All matters relating to the EoI and selection of interested bidder shall be governed by the laws of Union of India. Only courts at Durgapur (with exclusion of all other courts) shall have the jurisdiction to decide or adjudicate on any matter, which may arise out of or in connection of the EoI process.

6.7 VISIT at CSIR-CMERI

Though adequate care has been taken while issuing this EoI Document. CSIR-CMERI shall not be responsible for any consequences due to misprinting. It is mandatory for interested bidders to visit CSIR-CMERI and carryout a pre-bid discussion for better understanding the scope of the work. CSIR-CMERI will arrange a pre-bid meet at Durgapur for the interested bidders on with due advance notification

6.8 EoI PROCESS

Following completion of the initial process, all shortlisted parties fulfilling eligible criteria will be provided with an opportunity to hold further discussions with the CSIR-CMERI team after a Non-Disclosure Agreement (NDA) as per the format provided by CSIR-CMERI. CSIR-CMERI will provide necessary information relevant to the EoI and are in its possession, if required by bidder. However, providing information will be the sole discretion of CSIR-CMERI.

- i. The proposal to the EoI shall be submitted at the following address on or before **3:00 PM** of last date of submission during the working days and working hours through E- mail / courier:

The Head
Business Development Group (BDG)
CSIR-CMERI
Durgapur-713209
e-mail: bdg@cmeri.res.in
Phone: +91 9434720494

The covering envelope containing aforesaid documents submitted should be clearly marked:

Submission of Document: EOI for Design, Development, Installation and Commissioning of Integrated Municipal Solid Waste Disposal System (iMSWDS)

- ii. Opening of the proposal: Bidder may remain present personally or may depute an authorized representative at the time of opening of proposal.
- iii. The parties who have applied for EoI and qualify the criteria may be considered for participation in main tender. However, CSIR-CMERI reserves the right to accept or reject any or all proposals, re-invite EoI or go for open tender without assigning any reasons whatsoever.

*Expression of Interest Design, Development, Installation and Commissioning of
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iv. Mere participation & qualification in EoI will not automatically mean those bidders are considered qualified for tender participation.

v. Though adequate care has been taken while issuing this EoI document, CSIR-CMERI shall not be responsible for any consequences due to misprinting or any wrong translation by the newspaper/magazine/web portal concerned. The respondent shall satisfy itself that document is complete in all respects. The respondent shall visit CSIR-CMERI and verify facts in case of confusion, before submission of EoI.

vi. CSIR-CMERI may, in its sole and absolute discretion, independently verify any information submitted with the EoI proposals by bidders.

vii. This EoI does not create a tender process. By this EoI, CSIR-CMERI reserves to itself the right to consider and analyze the proposals received against EoI, short-list select respondents without limiting the generality of the foregoing, CSIR-CMERI reserves the right to:

- a. Reject any EoI, whether or not complete and whether or not it contains all the required information.
- b. Require clarification of any EoI; request additional information on any EoI.
- c. Reject any or all EoIs without any obligation, or any compensation or reimbursement to the respondents.
- d. Modify the terms and conditions of the EoI and subsequent processes.

6.9 Further information/ clarifications:

Any request for further information or clarification relating to the contents of this EoI document, may be submitted in writing to:

To
The Head
Business Development Group
CSIR-CMERI
Durgapur-713209
e-mail: bdg@cmeri.res.in
Phone: 9434720494

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7.0 Forms: Respondents are requested to fill up all the mandatory forms.

7.1 Submission of proposal

Form no. 1

(To be forwarded on the letter head of the interested party submitting the EoI)

Ref: CMERI/Form-1/EOI/2018

Date:

To
The Director
CSIR-CMERI
Durgapur-713209

Sub: Design, Development, Installation and Commissioning of Integrated Municipal Solid Waste Disposal System (iMSWDS).

Please refer to the invitation for Expression of Interest issued in respect of the above mentioned subject matter. We have read and understood the contents of the invitation for EOI & interested in submitting our proposal.

We believe that our Company satisfies the eligibility criteria set out in the relevant sections of the EoI.

You and your authorized representatives may contact the undersigned. The undersigned is (are) fully authorized to act on behalf of the respondent.

We shall be glad to receive further communication on the subject.

Yours faithfully,

Signature

Name

(For <Respondent/Bidder>)

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7.2 Litigation Impact Statement

Form no. 2

(To be forwarded on the letter head of the interested party submitting the EoI)

Ref: CSIR-CMERI/Form-2/EOI/2018

Date:

To
The Director
CSIR-CMERI
Durgapur-713209

Sub: Design, Development, Installation and Commissioning of Integrated Municipal Solid Waste Disposal System (iMSWDS).

We have read and understood the contents of the EoI document and pursuant to this hereby confirm that we satisfy the eligibility criteria laid out in the EoI.

We hereby confirm that we shall not share any information with pertaining to CSIR-CMERI which will be provided to us during the process of EOI or prior to the process of EOI.

Further, the authorized signatory is vested with requisite powers to furnish such letter and request for qualification and authenticate the same

Yours faithfully,

(_____)
Authorised signatory