

# **CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY**

(Department of Chemicals & Petrochemicals,  
Ministry of Chemicals & Fertilizers, Govt. of India)

CIPET Head Office  
T.V.K. Industrial Estate, Guindy, Chennai: 600 032  
Website: [www.cipet.gov.in](http://www.cipet.gov.in)



## **Expression of Interest (EOI) For Selection of Suppliers for the Supply, Installation, Commissioning and Testing of Sorting and Separation Equipments/Machinery for Plastic Waste Management System of CIPET Centres**

**Eoi. No. CIPET HO/Pur/PWMC/2022/002**

**Date: 10/10/2022**

**EXPRESSION OF INTEREST (EOI)**

Central Institute of Petrochemicals Engineering Technology (CIPET), Head Office invites online Expression of Interest (EOI) from eligible, reputed companies/firms/manufacturers/OEM/Authorized dealers for the Supply, Installation, Commissioning and Testing of Equipment/Machinery for Plastics Waste Management Centres of CIPET as specified in this EOI Document.

The Expression of Interest Document can be downloaded from <https://www.tenderwizard.com/CIPET> OR Central Public Procurement (CPP) Portal <https://eprocure.gov.in> OR the Institute website - <https://www.cipet.gov.in/tender-notice/index.php> or through Gem portal <https://gem.gov.in>

**Schedule of Dates**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Date</b>	<b>Time</b>
1	Date of Online Publication/Download of Eol Document	<b>10/10/2022</b>	<b>16:30 hrs</b>
2	Submission Start Date	<b>10/10/2022</b>	<b>17 :00 hrs</b>
3	Last date for Submission of Eol Response	<b>01/11/2022</b>	<b>10:30 hrs</b>
4	Opening of Eol Responses	<b>01/11/2022</b>	<b>11:00 hrs</b>
5	Preliminary short listed candidates will be called for Technical presentation	<b>Tentatively 02<sup>nd</sup> week of November</b>	
6	Declaration of Shortlisted Firms	<b>To be updated in website</b>	

No manual document will be accepted. All documents should be submitted online through <https://www.tenderwizard.com/CIPET> using valid DSC key.

Any queries relating to the process of online bid submission may contact to the Helpdesk Support - **Phone No. 044-22254788** between Monday – Friday – 09:00 AM to 05:30 PM and can represent your clarifications in the e-mail id: [purchaseho@cipet.gov.in](mailto:purchaseho@cipet.gov.in)

## EOI NOTIFICATION

### 1. OBJECTIVES OF EOI:

CIPET, Head Office invites (EOI) from eligible, reputed companies/firms/manufacturers/OEM/Authorized dealers for the Supply, Installation, Commissioning and Testing of Equipment/Machinery for Plastics Waste Management Centres of CIPET.

### 2. About CIPET:

Central Institute of Petrochemicals Engineering & Technology (CIPET) is a premier national institution under the aegis of the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted to Skill, Technology Support Services, Academic and Research Development (STAR). CIPET operates on hub & spokes model with 40 locations - Institute of Petrochemicals Technology (IPT), Centre for Skilling and Technical Services (CSTS), School for Advance Research in Petrochemicals (SARP) & Petrochemical Data Services spread across the length & breadth of the country catering to the needs of Polymer and allied industries.

CIPET stands tall not only as a premier institute in the country but also emerged as a global institution renowned for its research & development process and high- quality training in the field of plastics. CIPET has been accredited by ISO/IEC - 17025, ISO/IEC-17020 and ISO9001:2015 certified on Design, Development and Conduct of specialized training courses in Plastics Engineering & Technology and rendering technical/consultancy services in Design, Tooling, Plastics Processing & Testing to the plastics & allied industry. Besides, STAR activities, CIPET also play a pivotal role in developing employment opportunities especially for youth, self-employment and entrepreneur development through various skill development training programs.

Headquartered in Chennai, CIPET has IPT centres at Ahmedabad, Bhubaneswar, Chennai, Lucknow, Kochi, Raipur, Jaipur and Murthal and CSTS centres at Agartala, Amritsar, Aurangabad, Baddi, Balasore, Bhopal, Bhubaneswar, Chandrapur, Dehradun, Guwahati, Gwalior, Hajipur, Haldia, Hyderabad, Imphal, Jaipur, Korba, Madurai, Mysore, Ranchi, Valsad, Varanasi and Vijayawada. All the centres are equipped with excellent infrastructure facilities in the areas of Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Plastics Processing, Testing and Quality Assurance of India. The infrastructure facilities in terms of Machinery, Equipment and Technology are continuously upgraded and modernized in tune with the global plastics industry.

CIPET is in process of setting up of Plastics Waste Management Centres at 04 locations in India (Varanasi, Ahmedabad, Patna, Bengaluru). **Initially, CIPET plans to implement at Varanasi location in Phase – I.**

### 3. Scope of Work

Supply, Installation, Commissioning and Testing of Set of equipments/machinery as per the package mentioned for Plastic Waste Management System.

#### 3.1 Detailed Technical specifications is enclosed as Annexure – A.

Sl. no.	Package	Name of Equipment/Machinery intended for EOI	Page no.
1	Package-A	Sorting and Separation Equipments for Plastic Waste Management System	17 to 19

Note:

- 1) The Bidders who has applied in earlier EOI no. **Eoi Ref. No. CIPET HO/Pur/PWMC/2022/001** dated **03/06/2022** for PWMC equipment's **need not apply again in this EOI.**
- 2) This Eoi is for the package A- **Sorting and Separation Equipments**. The Bidder can apply for other packages separately as per their expertise and capabilities, please refer to our other EOI published for the same.
- 3) Bidders may attach the details of equipment/machinery with complete specification duly authorized along with documents i.e., Leaflet, catalogue, literature, test reports if any.

#### 4. Eligibility Criteria:

1. A registered Company/Manufacturer/OEM or their Authorized Dealers should have similar work experience and annual turnover more than Rs.1.00 Crore during the last three financial years.
2. The Bidder should have a valid License/Registration, GSTIN No., PAN No., Bank Account No. & IFSC Code & registered office in India.
3. The Bidder should not have been blacklisted by any Govt. Dept./Semi-Govt./Dept. or any other organization.
4. Information regarding past experience for Supply & Installation of the same/similar equipment/machinery in India should be furnished as per the form 2 & 3. Documentary Evidence to be supported by Purchase Orders and Project/installation completion certificates.
5. Bidders shall have sufficient manufacturing capacity /tie-ups and should have the after sales support infrastructure.
6. In case, the Bidder offers to supply machines / equipments, which are not manufactured by them, the Bidder should be duly authorized by the Principal/OEM as authorized dealer to supply the machines / equipments. Relevant document to be submitted and also as per CIPET format form no 4 (page no -11) need to be submitted.
7. Preference will be given to the Manufacturers/ their authorized dealers having more than 3 years of association with same manufacturers to ensure effective after sales service support.
8. If the Bidder has already supplied / received order to supply any similar equipment /

machine to CIPET or any Government organization, the performance, timeline and quality of supply and services will be considered as qualifying criteria.

9. Bidders should provide relative supporting documents to support all claims/information provided in Vendor evaluation format as per Annexure – II – page no. 24 to 28. **If, Bidder is not an OEM then the Authorized Dealers should submit the OEM documents/information for the Vendor evaluation format.**

#### **General Terms & conditions**

10. The Bidder can apply for one full package or more than one package as per their expertise and capabilities. However separate EOI has to be submitted for each package
11. The Technical specifications of the offered equipment/machinery should be of recent model & make and its spares should be available in the market for minimum 6 years.
12. Details of product offered shall be supported with complete specification duly authorized along with documents i.e., Leaflet, catalogue, literature, test reports etc.
13. The following information/ documents should be part of the proposal
  - a) Copies of audited balance sheet of last three consecutive years/ CA certificate certifying annual turnover & financial status.
  - b) Copies of Permanent Account Number (PAN) and latest Income Tax Return (ITR).
  - c) GST Registration and copy of latest GST return file for last three consecutive years
- 14. Technical/Commercial Bids shall be called through GeM portal from technically qualified and shortlisted bidders at later stage.**
15. Govt. of India guidelines in Make in India policy, Relaxation of Norms for Startup and Micro & Small Enterprises in Public Procurement will be followed.
16. Relaxation in Prior Turnover and Experience:  
CIPET reserves its right to relax the condition of prior turnover and prior experience for start-up enterprises subject to meeting of quality & technical specifications. The decision of the CIPET in this regard shall be final.

#### **5. Amendment of Bidding Documents:**

At any time prior to the deadline for submission of EOI, CIPET may, for any reason, whether at their own initiative or in response to a clarification requested by a prospective bidder, modify the EOI \_ Technical Specifications by amendment.

#### **6. EMD**

Nil

**7. Submission of Bid:**

Prospective parties may submit their “Expression of Interest (EOI) for Supply, Installation, Commissioning and Testing of Set of equipment/machinery along-with relevant details through online, by uploading scanned copy (signed & stamped by the authorized signatory) in pdf format through portal <https://www.tenderwizard.com/CIPET>

No manual document will be accepted.

The bidder is expected to examine all instructions, terms & conditions, specifications in the EOI form. Failure to furnish information required in every respect will be the Bidders risk and may result into rejection of the bid(s).

Any EOI received after the scheduled date & time or incomplete in any manner will not be accepted.

**8. Process:**

Preliminary Shortlisted bidders/suppliers, who qualifies as per Eligibility Criteria will be invited for a technical presentation as part of the technical evaluation. The date for presentation will be intimated later. During the presentation, Bidders should present the equipment/machinery offered as per technical specifications and packages.

Technical committee will visit to verify the capacity and capability of the bidders to assess the performance of similar equipments/machinery supplied by them.

The Bidders will be evaluated as per the evaluation criteria & as per the Vendor evaluation format given in the Annexure -II (refer page no. 24 to 28) .So Bidders should provide relative supporting documents to support all claims/information provided in Vendor evaluation format.

**9. Prospective Bidders / Parties acknowledge and agrees that:**

CIPET 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.

Prospective Bidders / Parties acknowledge and agree that response to the EOI is purely voluntary action on their part and for any expenditure on this account by them, CIPET will have no obligation or liability to the prospective bidders / parties in the event of cancellation of EOI.

**10. CIPET is the final authority and the decision will be final and binding on the supplier for any disputes. All legal disputes will have the jurisdiction of Chennai only.**

**Form 1**

Eol. No.- \_\_\_\_\_

Date: \_\_\_\_\_

**Covering Letter on Letterhead of the Bidder with Correspondence Details**

To  
 The Principal Director (T)  
 CIPET Head office,  
 TVK Industrial Area, Guindy, Chennai- 600032.  
 Tamil Nadu.

**Sub: Expression of Interest for Supply, Installation, Commissioning and Testing of Sorting and Separation Equipments / machinery of Plastic Waste Management System for CIPET centres**

Dear Sir,

This is with reference to your advertisement inviting Eol for Supply, Installation, Commissioning and Testing of equipment/machinery of Plastic Waste Management System for CIPET. We, the undersigned, provide the below details for your kind consideration.

<b>S.No.</b>	<b>Description</b>	<b>Firm's Response</b>
1.	Name and complete address of the firm	Name: Address: Email Id: Contact no: Month & Year of Establishment:
2.	Name of the Proprietor/Partner/Director and complete address	Name: Designation: Address: Email Id: Contact no:
3.	Type of the Organization & Legal Status (Whether Company, Proprietorship, Partnership, Society/Trust/MSJE or any other)	
4.	Name and contact details of the Authorized person/Supplier/Manufacturer	Name: Designation: Address: Email Id: Contact number:
<b>5.</b>	<b>Mandatory Documents:</b>	<b>Attached (Yes or No)</b>
	Profile of their company with area, man power details & the manufacturing facilities	
A)	Copy of Registration of GST	
B)	Copy of PAN Card	
C)	Certificate of Registration for NSIC / MSME / Startup / Others	
D)	Bank account details:	
E)	Authorization certificate from OEM ( If not a Manufacturer for the machine / equipment) as per Form 4	

F)	Financial status of the firm (audited balance sheet & Profit and loss statement of last three consecutive Financial Years) along with CA Certifying Annual turnover.	
G)	Latest IT returns of the firm	
H)	Experience of the last three years (attach proof) as per Form2& Form3	
I)	Blacklisting An Declaration to be given by the authorized signatory	
j)	Technical Leaflet, catalogue, literature, test reports etc. for packages	

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading, we are liable to be disqualified from the EOI selection process.

We agree to abide by the conditions set forth in this EOI.

We hereby declare that our proposal submitted in response to this Eoi is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Sincerely,

**Signature of Bidder**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_



## Form 2

**List of Government Organizations/Dept./Private sector or any other for whom the Bidder has Supplied and Installed the same / similar equipments during last three years(must be supported with work/Purchase orders)**

<b>Name of the organization</b>	<b>Name of Contact Person</b>	<b>Contact No./email id</b>

**Signature of the Bidder**

Name \_\_\_\_\_

Designation \_\_\_\_\_

**Form 3**

**PREVIOUS SUPPLY ORDER DETAILS**

(for Similar/Same Goods/Equipment for a period of last three years)

**Name of the Firm**\_\_\_\_\_

Order placed by (Full address of Purchaser)	Order No. and Date	Description and quantity of ordered equipment	Value of order	Date of Completion of delivery as per contract	Has the equipment been installed satisfactorily(Atta ch a Certificate from the Purchaser/Consi gnee)	Contact person along with Telephone No. , Fax No. and email id )

Signature and Seal of the Manufacturer / Bidder

Place\_\_\_\_\_

Date: \_\_\_\_\_

**Form 4**  
**ORIGINAL EQUIPMENT MANUFACTURER (OEM)**  
**Manufacturing authorization form (MAF)**  
**(On Letter Head of Manufacturer)**

EOI No.:-.....

Date:-.....

To  
The Principal Director (T)  
CIPET Head office,  
TVK Industrial Area, Guindy, Chennai –  
600032.  
Tamil Nadu.

Dear Sir,

We manufacture of original equipment at (.....)  
Factory address ..... do hereby authorize M/s (Name and address of  
Authorized Dealer ) to submit technical offer against the **EOI Package-(A) for Sorting and  
Separation Equipments / machinery** for Plastic Waste Management System

M/s.....is authorized to Submit the bid and conclude the contract in  
regard to this business.

We hereby extend our full guarantee and warranty for the goods offered by the above firm. The  
dealer is associated with us from the period \_\_\_\_\_ to \_\_\_\_\_ (DD/MM/YYYY)

Yours Faithfully,

(Signature)

(Name & Seal of Manufacturer)

**Format of Vendor Evaluation Report & Mark sheet**  
**Vendor Evaluation Report to be submitted by evaluation committee**

<b>PART A</b>			
1		Name Of Vendor	
	1.1	Registered Office Address	
		Telephone No	
		Fax No	
		Email Address	
		Website	
	1.2	Manufacturing Site Address	
		Telephone No	
		Fax No	
		Email Address	
		Website	
	1.3	Nature Of The Company	
	1.5	NAME & DESIGNATION OF HEAD OF ORGANISATION With Contact No.	
<b>Part B</b>			
1		Survey Advice Ref	
2	2.1	Item For Which Survey To Be Carried	
	2.2	Date Of Survey	
3		Office Works Visited	
4		Persons Contacted	
5		Design Facilities:	
	5.1	Engineers	
	5.2	Specialists	
	5.3	No Of Working Level Personal	
	5.4	Drafting Facility	
	5.5	Experiences In Design	
	5.6	Familiarity & Availability Of Codes/ Specs.	
	5.7	R&D Facilities	
	5.8	Technical Collaboration If any	
6		Quality Control Facilities	
	6.1	Qc Setup Engineers / Inspectors	
		Adequacy Of Experience	
	6.2	Qc Manual/ Written Procedures	
	6.3	Extent of application Of Qc	

		Procedures At Shop Floor	
	6.4	Availability Of Gauges/Fixtures	
	6.5	Periodical Calibration Of	
		Equipments/ Instruments	
	6.6	Qc Records/ Documents	
	6.7	ISO Accreditation For Quality	
		Systems	
7		Testing Facilities	
	7.1	In House	
	7.2	Testing Facilities Dependent On	
		External Agencies	
	7.3	Adequacy Of Testing	
8		Performance Reliability	
	8.1	Satisfactory Execution Of Similar	
		Orders	
	8.2	After Sales Services	

<b>PART C</b>			
1		<u>SURVEY CONCLUSION-</u>	
2		<u>RECOMENDATION-</u>	
		Signature	Signature
		Name of committee member:	Name of committee member:
		Designation:	Designation:
		Signature	Signature
		Name of committee member:	Name of committee member:
		Designation	Designation
		Signature	Signature
		Name of committee member:	Name of committee member:
		Designation	Designation

VENDOR EVALUATION FORMAT REPORT-( For Office Use only)					
VENDOR'S NAME:					
LOCATION/ADDRESS:					
PRODUCT NAMES:					
Sr. No	TITLE	POINTS ALLOTTED Maximum		SURVEYOR'S RATING	
1	Over all facilities		12		
1.1	Registration as Micro, Small, Medium or Large Enterprise with in India.	2			
1.2	ISO 9001:2008 certificate Quality management system	2			
1.3	Income tax filing details.	1			
1.4	Import & Export license.	2			
1.5	National level quality awards, research & development award or outstanding entrepreneurship award from government.	2			
1.6	R&D facilities.	1			
1.7	Technical collaboration with international reputed firm.	1			
1.8	GEM registration	1			
2	Manufacturing facilities		25		
2.1	Open space within factory premises with respect to manufacturing items.	2			
2.2	Buildup space within factory premises with respect to manufacturing items.	2			
2.3	Shop layout and defined areas/sheds for separate production activities with respect to Manufacturing items.	2			
2.4	Storage area/shed for raw material	1			
2.5	Storage area/shed for finished product.	1			
2.6	Production planning/application	2			
2.7	Raw material/component procurement	2			

2.8	Production staff like engineers, supervisors, skilled workers, other workers.	3			
2.9	Plant & machinery necessary for production of the listed items.	4			
2.1	Machinery & equipments for material handling	2			
2.11	Automation and process controls.	2			
2.12	Packing, marking, dispatching facilities.	2			
<b>3</b>	<b>Testing facility</b>		<b>10</b>		
3.1	Tests carried out on raw material.	1			
3.2	In-house testing facilities, testing equipments available as per relevant BIS code.	2			
3.3	Available gauges, measuring device, testing equipment, meters, inspection aids, instrument of Standard makes with NABL accredited laboratory calibration report.	2			
3.4	In process checks.	1			
3.5	Laboratory facilities.	2			
3.6	Finished product tests/checks.	1			
3.7	Special / type test	1			
<b>4</b>	<b>Quality control &amp; quality assurance plan</b>		<b>7</b>		
4.1	QC manual, written procedures, quality assurance plan etc.	1			
4.2	Quality control staff like engineers, supervisors, skilled workers.	1			
4.3	Documentation/procedures	1			
4.4	Traceability	1			
4.5	Calibration records	2			
4.6	Extent of supervision	1			
<b>5</b>	<b>Design facility</b>		<b>12</b>		
5.1	Design staff like engineers, specialists, technologists, draft mans.	5			
5.2	Designing facility available.	5			
5.3	Availability of codes/specification/ R&D	2			

<b>6</b>	<b>Experience for particular item, equipment, machinery, product etc.</b>				
6.1	3 to 5 years	2	<b>14</b>		
6.2	5 to 7 years	3			
6.3	7 to10 years	4			
6.4	Above10 years	5			
<b>7</b>	<b>Turn over</b>				
7.1	0.5 to 1 crore	2	<b>10</b>		
7.2	1 to 5 crore	3			
7.3	Above 05 crore	5			
<b>8</b>	<b>After sales services</b>				
8.1	Satisfactory execution of similar supply orders to government department.	2	<b>10</b>		
8.2	Satisfactory execution of similar supply orders to reputed non-Governmental organization.	2			
8.3	State level network of service after sales in State where equipment to be supplied.	4			
8.4	Customer complaints, resolution, promptness.	2			
		Total	<b>100</b>		
<b>Note:</b>	<b>1. The minimum rating required for Manufacturing Facility is19 out of 25.</b>				
	<b>2. The minimum rating required for testing facility is 7 out of 10.</b>				
	<b>3. The minimum rating required for after sales services is 6 out of 10.</b>				
	<b>4. The minimum rating required for design facility is 8 out of 12.</b>				
	<b>5. Vendor over all qualifying marks should be 60%</b>				

**Vendor should provide relative supporting documents to support all claims/information provided in format. Authorized Dealers should submit their OEM documents/information for the above.**



### Package A- Sorting and Separation Equipment's for Plastic Waste Management System

S. no.	Items	Unit	Specification
<b>a. Material feed system with Zig zag Air Classifier</b>			
1	Material feed system with Zig Zag classifier equipped with Blower Motor, Rotating valve, cyclone separator etc		Bidder to specify rating of major components such as valve size, cyclone size, motor capacity etc.
	The equipment should be capable of separating out dust and other fluffy non rigid waste/ contaminants, such as labels, paper, and plastic wrappers from grinded/chopped/ agglomerated rigid plastics waste.		Should comply
	a) Blower Motor & Rotary valve Motor rating	KW	Suitable for 150-200 kg/hr output
	b) Rotary Valve diameter	mm	Suitable for 150-200 kg/hr output
	c) Cyclone separator volume	L	Suitable for above capacity
2	Output	Kg/Hr	150-200 kg/hr

### **b. Film Grabber with belt conveyor**

3	The system should have Rotary drum with panel control, Gear motors, centrifugal fan, feeding hopper, discharge hopper speed control etc	Kg/Hr	150-200 kg/hr output
4	Belt conveyor made up of Polyester/Nylon for input feed of waste material, with variable speed drives etc		The construction should be of mild steel with Zinc coated epoxy painted Mild steel

**c. Ballistic separator double-stage equipment with belt conveyor**

5	The setup should have Ballistic separator with blades, screening decks, gear motors, paddles etc		Shall be able to handle 150-200 Kg/hr output
6	Belt conveyor made up of Polyester/Nylon for input feed of waste material, with variable speed drives etc The construction should be of Mild steel material with Zinc coated epoxy painted	Kg/Hr	150-200 kg/hr

**d. Manual Sorting Equipment**

7	Belt Type width, length etc.	-	Flat Belt/ Cleated Belt (Polyester – Nylon/ Nylon – Nylon type). Shall be able to handle 150-200 Kg/Hr. Length of belt conveyor should be suitable for 3-4 persons each side.
8	Construction	-	Roller mounted having construction of structural part of Mild steel with Zinc coated epoxy painted.
9	Frame Configuration	-	Frame width, Height (suitable for manual sorting)
10	Output	Kg/Hr	150-200 kg/hr and above
11	Motor	KW	Please Specify
12	Speed	MPM	Adjustable through variable frequency drive, Please Specify Range
13	Built in Safety Features		Appropriate safety features to be incorporated

**e. Plastics Pipe, Lumps, Shredder, Crusher Grinder machine**

14	Usage (Feed Material)		Plastics waste especially Rigid, HDPE and PVC Pipes directly from feed throat.
15	Capacity	Kg/hr	200
16	Shredder Motor power	KW	Bidder to specify (suitable for the above capacity)
17	Crusher Motor power	KW	Bidder to specify (suitable for the above capacity)
18	Shredder Motor speed	RPM	Bidder to specify (suitable for the above capacity)

19	Crusher Motor speed	RPM	Bidder to specify (suitable for the above capacity)
20	Blade steel		Heat treated tool steel having hardness HRC 60 or above Good wear resistance is required.
21	Rotary and Stationery blade of shredder (Nos.)		Shall be able to meet specified output requirement.
22	Rotary and Stationery blade of crusher (Nos.)		Shall be able to meet specified output requirement.
23	Screen hole dia of Shredder	mm	20-40 mm
24	Screen hole dia of crusher	mm	8 to 12 mm
25	Other Features Required		shredding and crushing function on one machine strong frame structure, air cooling or water cooling design, electrical cabinet with reputed PLC control system, auto control for co-rotation and reversal, Auto protection while over-load.
<b>All the equipment structures should be robust, properly treated with anti - rust coating with epoxy painted.</b>			