



**MSME-TECHNOLOGY DEVELOPMENT CENTRE
(PROCESS AND PRODUCT DEVELOPMENT CENTRE, AGRA)**
Ministry of MSME, Govt. of India
Foundry Nagar, Agra
Ph: 0562-2344006, 2344673, Fax: - 0562-2344381
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TENDER NOTICE (E-Tender)

The tenders are invited under double bids system from interested manufacturer/Suppliers/Dealers for procurement of machinery/ equipment for the Institute.

The details of specifications, tender document, EMD etc, can be downloaded from central Public Procurement Portal (www.eprocure.gov.in/eprocure/app) & www.ppdcagra.dcmsme.gov.in. The last date of submission is 16.07.2021 by 12:00 P.M and to be opened on 17.07.2021 at 2:00 P.M at PPDC-Agra.

PRINCIPAL DIRECTOR

MSME-TECHNOLOGY DEVELOPMENT CENTRE
(Process & Product Development Centre)
Govt. of India Organization
Under
Ministry of Micro Small and Medium Enterprises
Foundry Nagar, Agra - 282006

NOTICE INVITING e-TENDER

MSME - Technology Development Centre, Ministry of MSME, Government of India, invites online bids under two bid systems (i.e. Technical e-Bid and Financial e-Bid) for supply of Machinery Items. The e-Bid shall be submitted online on www.eprocure.gov.in. The Tender is available on www.ppdccagra.dcmsme.gov.in. No hard copy of Bids shall be accepted in the office. All prospective Bidders may visit www.eprocure.gov.in. (Bidder's manual kit) before online submission of e-Bid.

TERMS AND CONDITIONS:

1. GENERAL

MSME- Technology Development Centre (PPDC), Agra, invites e-bids under Two Bid systems (Technical and Financial Bid) from Reputed Machinery Suppliers.

2. DETAILS OF e-BID:

Sr. No.	Particulars	Details
1.	Bid Reference	E-Tender No. PPDC/Machinery Items/2021-22
2.	Last Date and Time of receipt of Bid	16 th Jul 2021 by 12:00 PM
3.	Date and Time for opening of Technical Bid	17 th Jul 2021 by 2:00 PM
4.	Place of receiving the bid / communication	MSME-Technology Development Centre, (PPDC) Foundry Nagar, Agra-282006
5.	EMD	Rs.100,000/- for Injection Moulding Machine, Industrial Chiller and Dryer and Mould Temperature Controller. (Account Payee Demand Draft / Bankers Cheque) in favour of "Principal Director", PPDC, Agra
6.	Financial bid opening	Will be opened on same day on 17 th Jul 2021, after evaluation of Technical Bids.
7.	Tender Fee	Rs. 1000/- Non-Refundable (Account Payee Demand Draft / Bankers Cheque) in favour of "Principal Director", PPDC, Agra

3. SUBMISSION OF e-BIDS:

- a) E-Bids are invited in two Bid System. (1) Technical and (2) Financial and shall be submitted electronically (online) on www.eprocure.gov.in for supply of Machinery Items.
- b) E-Bids shall be submitted on or before last date 16th Jul 2021. **No Hard Copy of Bids will be accepted.**
- c) EMD of each Machinery Item given in the list of Machinery with Specification. in form of account Payee Demand Draft, Bankers Cheque in favor of “Principal Director”, PPDC, Agra, payable at Agra, shall be submitted in the office **before last date and time of submission**. The e-bids will be opened only those who have submitted EMD's on or before the schedule date and time. Technical e-Bids of all the received tender will be opened on pre scheduled date, time & venue.

4. ELIGIBILITY / QUALIFICATION CRITERIA FOR TECHNICAL BID

1. The Bidders shall have supplied similar type of goods/instrument/machines to any Govt. / Autonomous/reputed organizations. Recent Purchase orders are to be enclosed.
2. Tender fees & EMD as stated above shall be submitted. If those claim for Exemption should be provide Valid MSME / NSIC Certificate Relevant to Product to be apply.
3. All the bids will be evaluated purely on the basis of technical ground/ technical compliance statement by bidder, acceptance of payment terms, delivery terms, PBG clause, guarantee/ warranty clause, Training, Installation, calibration certification/ documentation, Inspection clauses check list & any Govt. policies/guidelines as & when applicable. The price/financial bids of only technically qualified/accepted bidders will be opened.
4. Country of Origin of Product apart from India, decision of acceptance of bid will be taken as per GFR guideline.

GENERAL CONDITIONS/INSTRUCTIONS:

1. Bidders are advised to read & study the complete Tender documents carefully. Submission of Tender shall be deemed that bidder has read and understood all the terms & conditions of the tender and its implications and agrees and binds himself/themselves to the same. All pages of tenders should be signed by bidder and return with Technical Bid.
2. The bid should be submitted in three envelopes i.e (i)Tender Fees, EMD & Checklist as per Annexure II, (ii) Technical Bid with all terms & conditions, documents & catalogs etc (iii) Price/Financial bid
3. Tender/Offer/Bids should be in English language only and it should be valid as per Bid validity from the date of opening of tender and will be binding on you for specifications offered & the rate quoted. Rate must be quoted correctly & precisely in words as well as in figure along with currency.
4. Tender should be submitted only by the Original Equipment Manufacturers (OEM) / authorized dealers/representatives.
5. Technical Bid should contain of Technical compliance statement, catalogs, details technical literature, authority letter given by OEM, Letter of Bid etc with Tender number, name of item.
6. All other charges should be clearly mentioned otherwise offer will be deemed as Inclusive of all other charges. No hidden charges will be accepted after opening of financial bid.
7. The technical compliance statement as per Annexure I shall be duly filled signed & stamped by manufacturer or his authorised and responsible person of bidding firm as a noting and acceptance & shall be binding on you during the course of supply and upto completion of contract.
8. Technical Literature / Catalogues / Brochures, technical data sheet etc. for the particular quoted models should be enclosed to technical bid.
9. All tenders pages/Quotations should be properly typed and free from over-writing. Erasing, correction or additions etc. must be attested by authorized signatory.
10. Bidders should furnish their Bankers details, GST Registration number, HSN / SAC code, PAN no. etc.
11. Bidder should furnish the valid authority letter issued by OEM for quoting on his principal behalf.
12. Incomplete offer not in line with the terms & conditions, instructions of the Tender documents and offer received by fax or after due date & time will not be considered and liable to be rejected.

13. List of standard Accessories associated with the basic machine / instruments / goods should be properly described along with technical bid and cost of all standard and associated accessories should be included in basic machine cost.
14. Bidder shall specify whether the basic items quoted are capable to meeting the required specifications as per PPDC's technical requirement or any additional/optional & essential accessories are required. If required, then bidder should specify list of standard/essential/additional/optional accessories and list should be enclosed with technical bid for proper evaluation & prices should be indicated separately in Price Bid.
15. All the clauses governing the Tender documents and the Important Notice attached should be duly filled in & stamped & signed by authorised person of bidding firm.
16. PPDC, Agra reserve the right to seek clarification/ justification from the bidders on the offered technical specifications & the bid price in case the PPDC, Agra deems it necessary based as the justification provided by the bidder, if the PPDC, Agra feels that the price is unrealistic/infeasible in order to. PPDC, Agra reserves the right to reject the said bid. The bidders shall be governed by the decision of the client.
17. PPDC, Agra reserves the right to reject any or all offers without assigning any reason whatsoever. PPDC also reserves the right to accept any tender in whole or in part without assigning any reason whatsoever. Opening of tender is no commitment whatsoever and does not prejudice the aforesaid rights of the PPDC to reject any or all offers without assigning any reason or accept any tender in whole or in part without assigning any reason whatsoever.

Payment terms:

18. Advance payment terms are not acceptable, Payment will be provided after successful installation.
19. Mere participation in the tender and offering of lowest rates does not confer any right on any party for placing order on them.
20. All the disputes arising out of the contract shall be subject to Agra (UP) India Jurisdiction only.
21. Parties are required to affect supplies, commission and install the machinery/equipment/items at various locations and extend/maintain warranty/guaranty commences from the date of completion of installation/commissioning and training.
22. All the matters concerned to and not covered herein above, the decision of Principal Director, PPDC, Agra shall be final and binding on the parties.
23. The equipment offered shall be strictly conforming to specification or better and for complete unit correct accuracies and standard.
24. The Principal Director, PPDC, Agra reserves the option of inspecting the goods by our own representative at suppliers works prior to Packing and Dispatch or by third party appointed by us. However the supplier should furnish the inspection report of the

equipment prior to inspection by PPDC representative. Supplier shall provide all facilities for carrying out the inspection. However the final inspection will be carried at PPDC, Agra. Inspection Charts and guarantee certificate of quality should be provided along with the material.

25. Training either at suppliers work or at any other place shall be to the suppliers account.
26. Supplier must enclose in technical bid their offer list of customer (with their full address and their purchase reference no.) to whom they have made similar supplies in the past five years. The date of supply should also be indicated.
27. The supplier should also mention the nearest service Centre of the equipment/machines for servicing/repairing after commissioning.
28. The equipment should be complete in all respect.

Guarantee:

1. The supplier shall furnish guarantee in respect of material and manufacturing defect in machine/equipment, performance at least for period of 12 months (one year) from the date of commissioning and installation, Any defect notified during this period shall be rectified free of cost which include replacement of part or in full as needed.

Bid Validity:

Bids should be valid for minimum 90 days from the date of opening of tender and will be binding on you for specifications offered & the rate quoted. Rate must be quoted correctly & precisely in words as well as in figure along with currency.

Late delivery charges:

1% per month to a maximum of 5% of the order value for any delay beyond agreed delivery schedule from the date of Purchase Order. PPDC reserve the right to cancel the order or a part thereof in case of delay beyond the 3 months forfeiting the EMD.

Termination of Contract:

On acceptance of tender, if the successful bidders is failure to deliver the goods within the accepted delivery period or as extended or at any time repudiates the contract before the expiry of such period the purchaser may without prejudice to their other rights may cancelled the contract.

Purchase Preference Policy Linked with Local Content (PP-LC) As per Revised Order 2017 Dates 04.06.2019.

Under the purchase Preference Policy linked with Local Content (PP-LC), the bidder or service providers are allowed to avail the purchase preference linked with attaining stipulated Local Content.

Tender Inviting Authority reserves the right to allow the bidders or manufacturers or service providers, purchase preference as admissible under the Public procurement (Preference to make in India), Order 2017-Revision policy, subject to their complying with the requirements/conditions defined herein and submitting documents required to support the same.

Local Content: Local content means the amount of value Added in India which shall unless otherwise prescribed by the nodal ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

The bidder claiming the PP-LC benefit shall be required to furnish a self-certification on bidder's letter head indicating percentage of local content and confirming that the item offered meets the local content requirement for "class I local bidder /Class II local bidder" as the case may be and this undertaking shall be certified by the authorized signatory of the bidder signing the bid giving the details of the locations at which the local value addition is made.

The onus of submission of appropriately certified documents lies with the bidder and the purchaser shall not have any liability to verify the content and will not be responsible for the same.

However, in case the procuring authority has any reason to doubt the authenticity of the local content, it reserves the right to obtain the complete back up calculations before award of order failing which the bid shall be rejected.

False declarations will be in breach of the code of Integrity under Rule 175(1)(i)(h) of the General Finance Rules for which a bidder or its successors can be debarred for up to two years as per rule 151(iii) of the General Finance Rules along with such other actions as may be permissible under law.

CALCULATION OF LOCAL CONTENT-GOODS (Below Calculation is indicative only) for detail rule, order no P-45021/2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce and Internal Trade (public procurement section) may please be referred.

Total Basic Cost of Goods/Machine (W.O. Tax) = a.

Total value of all the imported content used in construction of above Machinery/Goods (Including custom duty) = b

% Local Content= $((a-b)/a) \times 100$

(OFFICE SEAL)

(SIGNATURE OF AUTHORIZED PERSON)

NAME :

DESIGNATION :

DATED :

PART – II

ANNEXURE-II

(To be submitted by Bidder on Letter head along with Technical Bid)

Declaration of Local Content by Bidder

Name of Bidder :

Name of Machine / Model :

Manufacturer of Machine :

I/ We hereby declare that in above quoted Machine / Goods, Local Content is-----

% as per order no P-45021 /2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce and Internal Trade (public procurement section) Govt. of India.

(Signature of the Bidder, with Official Seal)

PART-I

ANNEXURE-II

(To be submitted by Bidder on Letter head along with Technical Bid)

Certificate regarding Compliance of GFR Rule 144(xi)

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that This/My/Our firm is not from such country or, from such country, has been registered with the Competent Authority. I hereby certify that this firm fulfills all requirements in this regard (GFR rule No. 144-xi) and is eligible to be considered. (Where applicable valid registration certificate by the Competent Authority to be attached)

(Signature of the Bidder, with Official

Seal) Name of Firm :

(Letter of Bid)

(To be print on bidders letter head)

To,

The Principal Director,

MSME Technology Development Centre (PPDC) Agra,

Foundry Nagar, Agra – 282 006.

Dear Sir,

I / We agree, on acceptance of the tender in whole or in part, to supply to MSME TECHNOLOGY DEVELOPMENT CENTRE, AGRA (Process and Product Development Centre), Agra 282 006, India the machine / equipment / goods and accessories, detailed in Technical Bid (Part-I) of the Tender enclosed herewith at prices quoted by me / us in Price Bid (Part-II) of the Tender which is also enclosed herewith in a sealed cover marked Price Bid (Part- II)'. I / We agree to hold the offer open for 90 days from the due date. I / We have read and understood the terms and conditions of the tender documents which shall become Contract on acceptance of tender, and agree to be governed by the same. I / we specifically undertake that I / We will not resile from my /our offer or modify the terms and conditions thereof

Authorized Signature & Seal of Tenderer

Place : Name :
.....

Date :..... Designation
:.....

WITNESS Name & Address of the

firm : Signature :

Name :

Designation:

Name & Address of the firm:

ANNEXURE-III

BIDS FROM DEALERS/AGENTS WITHOUT LETTER OF AUTHORITY FROM THE ORIGINAL EQUIPMENT MANUFACTURERS ARE LIABLE TO BE SUMMERILY REJECTED.BIDS NOT ACCOMPANIED BY EMD SHALL BE REJECTED.

CHECK LIST

(to be duly filled by bidder & to be submitted along with Technical Bid)

S.No.	Particulars	Answer Ref.Page
1.	Have you submitted Earnest Money Deposit (EMD)	Yes/No
2.	Have you furnished a authority letter from OEM	Yes/No
3.	Have you returned/submitted tender documents duly filled, Yes/No signed stamped by authorized person of bidding firm	Yes/No
4.	Have you furnished catalogues/ Boucher of quoted items	Yes/No
5.	Have you furnished bankers details/ GST/HSA/SAC/PAN no. etc	Yes/No
6.	Have you furnished technical specifications compliance statement	Yes/No
7.	Have you quoted delivery period correctly and precisely	Yes/No
8.	Have you kept your offer valid for 90 days	Yes/No
9.	Have you quoted your rates in figure and words (in price bid)	Yes/No
10.	Have you agreed for PBG clause	Yes/No
11.	Have you agreed for payment clause	Yes/No
12.	Have you agreed for warranty/Inspection/Training clause	Yes/No
13.	Have you agreed for calibration certification/documentation clause	Yes/No
14.	Have you provided list of customers alongwith purchase order to whom Model/Items have been supplied. (Pl. Encl. P.O. copy to Tech. Bid.)	Yes/No
15.	Have you agreed for arbitration clause	Yes/No
16.	Have you provide details of country of origin of item, Yes/No Gross/Nett weight of shipment, Dimensions of shipment (LxHxW), Name & complete address of firm for order placement etc	Yes/No

1. Technical Specification of Injection Moulding Machine

SI No	PPDC Requirement		Supplier Specification
	Description	Size /Unit	
	Clamp Unit:		
1	Clamp Force (Tones)	350 Ton	
2	Mould height	300-650mm	
3	Day light	1010-1370mm	
4	Platen size	1050 x 1050mm	
5	Ejector force – ton	8 ton	
6	Ejector stroke – mm	215mm	
7	Mould weight Capacity	3600 Kgs.	
8	Servo Drive	36 kW	
9	Tie Bar Distance	730 x 730mm	
10	Tia Bar Diameter	70mm	
11	Locating Ring Diameter	160mm	
	Injection Unit:		
1	Injection capacity (GPPS)	1170 GPPS	
2	Injection pressure	1521 Bar	
3	Injection rate	355 Gms / Sec	
4	Injection screw stroke	340mm	
5	Screw diameter	70mm	
6	Screw L/D ratio – mm	20mm	
7	Plasticizing rate	54 Gms / Sec	
8	Total Heating Capacity	23.3 kW	
9	Maximum Nozzle Protrusion	60mm	
	Standard Parameters :		
1	Min. 5 stage Injection velocity and 10 stage Injection Pressure profile	Required	

2	Min. 3 stage screw speed and 3 stage backpressure control	Required	
3	Linear position transducer for accurate Injection position control	Required	
4	Semi Auto purge, and instruction molding program.	Required	
5	Injection unit on linear bearing guide ways.	Required	
6	Bimetallic barrel and screw	Required	
7	Quick automatic mould height and tonnage setting	Required	
8	Proportional speed control 5 closing and 5 opening speed	Required	
9	Adjustable two stage mould and safety pressure.	Required	
10	Stage wise actual time display	Required	
11	Ejector stay forward program	Required	
12	Auto grease lubrication	Required	
13	Two stage programmable ejectors forward with soft eject.	Required	
14	Adjustable ejector speed and pressure	Required	
15	Linear transducer for ejector position.	Required	
16	Soak timer for cold start protection	Required	
17	High / low temperature alarm	Required	
18	9-10 Parameter monitoring for last 1000 cycles with graphics	Required	
19	10" TFT color display or better	Required	
20	Min. 150 mould data storage	Required	

21	Printer Interface with USB port	Required	
22	Servo Energy saving Motor & pump	Required	
23	Low oil level audible alarm & motor shut down	Required	
24	Continuous oil filtration system of 10 micron	Required	
25	Air ejection – up to 5 stages.	Required	
26	Hydraulic & Pneumatic core pull (2 sets)	Required	
27	Water battery with 10 in and out	Required	
28	Robot interface.	Required	
29	Emergency stop safeguard device	Required	
30	Alarm for function abnormality	Required	

2. Technical Specification of Industrial Chiller:

SI No	PPDC Requirement			Supplier Specification
	Item	Description	Size /Unit	
1	Chiller Details	Chiller Capacity	5 TR	
2		Temp to be maintained	15 deg C	
3		Min / Max operating temperature range	8 deg C to 30 deg C	
4		Min / Max ambient temperature range	20deg C to 40 deg C	
5		Temperature stability	±2 deg C	
6		Media of cool	Water	
7		Condensing temperature	50 deg C	

8	Main Refrigeration Components	Compressor make	Emerson	
9		Compressor type	Scroll	
10		Condenser type	Fin & tube type air cooled inner grooved tubes, reputed	
11		Condenser fan	Favells / Equivalent	
12		Evaporator type	Beazed plate heat exchanger	
13		Evaporator make	GEA/SWEP/ALFA LAVAL/Equivalent	
14		Refrigeration circuit	01	
15		Refrigerant	R22	
16		Refrigeration Controls	Filter drier	Emerson/Danfoss
17	HP LP cutout		Emerson/Danfoss	
18	Expansion valve type		Thermostatic	
19	Expansion valve make		Emerson/Danfoss	
20	Other refrigeration accessories		Emerson/Danfoss	
21	Pump	Pump make	CRI/LUBY/SHAKTI/Equivalent	
22		Pump type	Horizontal multistage monoblock pump	
23		Pump construction	SS Construction	
24		Process water flow rate	5 m ³ /hr @ 2-3 bar	
25	Electric Controls	MPCB/OLR for compressor, Pump, Fan	Schneider	
26		Contactora for Compressor, Pump, Fan	Schneider	
27		SPP	GIC	
28		Main Switch On/Off	C & S	
29		Vertical flow switch	Honeywell / Equivalent	
30		Microprocessor based controller	Subzero	
31		Volume	100 ltr	

32	Water Reservoir	Construction	SS 304	
33		Insulation type	Xlene 9mm	
34	Water Specs	Piping	SS304 & Flexible	
35		Bypass line with ball valve	SS304	
36		Level indicator	Minilec	
37		Inlet/Outlet end connections	1"	
38	Structure Details	CRC/HRC Structure	Reputed vendor	
39		Powder coated	RAL 7040 & 7016	
40	Power details	Power supply	3 ph, 415v, 50Hz, AC	
41		Allowed voltage variation	± 10%	
42		Power consumption	7.62 kw	
43	Safety Devices	HP	High pressure	
44		LP	Low pressure	
45		SPP	Phase reversal	
46		WLL	Water level low	
47		Antifreeze trip	Antifreeze	
48		OLR	Compressor, pump overload relay trip	
49		WF	Low flow of water	

3. Technical Specification of Dryer:

SI No	PPDC Requirement		Supplier Specification
	Description	Size /Unit	
1	Capacity	100 Ltr	
2	Heater	3.9 kw,415V, 3 phase	
3	Blower	200 w	
4	Material of construction	Die cast aluminium & SS 304	

5	Fan side assembly	For air flow regulation	
6	Modular design	For easy of cleaning w/o use of tools	
7	PID controller	Digital	
8	Bimetallic thermometer	0 – 200 deg.	
9	Variable thermostat	Max : 300 deg. With	
10	All electrical	Schneider make	
11	Reverse cone	For uniform air flow	
12	Dimension	H = 1200mm, W = 860mm	
	Mass material flow : smooth surfaces and 60 deg. Cone angle ensure that each pellet is exposed to head drying air for the specified drying time.		
	Even air / heat distribution : The centre reverse air pipe (from bottom to top) ensure on material over burning. Forced dry air reached to the bottom.		
	Heating maintain in PID (+ OR – 1 degree)		
	Center"funnel" flow : induced by less than 60 deg. Cone angle allows center material to enter the process faster.		
	Perforates metal : Inhibits mass material flow and can be difficult to clean. Problem with rearind.		

4. Technical Specification of Mould Temperature Controller:

SI No	PPDC Requirement		Supplier Specification
	Description	Size /Unit	
1	Maximum Temperature	95 Dec C	
2	Heating Capacity	6 kw	
3	Pump Capacity	0.5kw	

4	Flow / Minimum	65 Ltr. / Minimum	
5	Pressure Bar	3.8	
6	All Electricals	Schnieder Make	
7	Heating Medium	Water Base	
8	Mold Tie Inch	3/8" 2*2	
9	External Dimension	670*285*580	
10	Weight (kg)	48	
	<ul style="list-style-type: none"> Precise control of temperature by PID temperature controller. 	Required	
	<ul style="list-style-type: none"> Digital display of set and actual value on screen. 	Required	
	<ul style="list-style-type: none"> Draining facility. 	Required	
	<ul style="list-style-type: none"> Easy to operate. 		
	<ul style="list-style-type: none"> Dry running protection of pump by level monitoring device 	Required	
	<ul style="list-style-type: none"> Painted with P.U paint. 	Required	
	<ul style="list-style-type: none"> Accessibility from all sides. 	Required	
	<ul style="list-style-type: none"> Corrosion proof material in water line. 	Required	
	<ul style="list-style-type: none"> User friendly control. 	Required	
	<ul style="list-style-type: none"> Overload protection of pump. 	Required	
	<ul style="list-style-type: none"> Low watt density heater. 	Required	
	<ul style="list-style-type: none"> Standard make pump. 	Required	