

भारतीय सूचना प्रौद्योगिकी, अभिकल्पना एवं विनिर्माण संस्थान, कांचीपुरम  
**Indian Institute of Information Technology, Design and  
Manufacturing Kancheepuram, Melakkottaiyur,  
Chennai – 600 127, Tamil Nadu, India**



**Re-Tender Document**

**For**

**Supply and Installation of Progressive Cavity  
Displacement (PCD) PUMPS & Controller**

Item	:	Progressive Cavity Displacement (PCD) PUMPS & Controller (Qty - 1No.) (Specification enclosed as Annexure-A)
Tender Enquiry No	:	IIITDMK/19-20/SRICCE/PCD PUMPS/03 Dt. 16.3.2020
EMD	:	Bid Declaration form (As per annexure-B)
Submission of Offer	:	<b><u>Two Bid System:</u></b> Two bid system will be followed in this tender. In this system the bidder must submit his offer in <b>two separate sealed envelopes</b> . Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately and clearly marked as “Envelope No : 1 - Technical Bid” and “Envelope No : 2 - Commercial Bid” respectively. <b>This two separate sealed envelopes should be placed in single envelope superscribing the tender No and description of the item.</b>
Due Date (For submission of bids)	:	<b>03: 00 PM, 30-03-2020</b> (any bid received after the due date and time by any means will be summarily rejected)
Pre-Bid Meeting	:	<b>24.03.2020 at 11 A.M</b>
Opening of Technical Bid	:	<b>03:30 PM, 30-03-2020</b>
Place of Submission of Bid	:	The Registrar, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Off Vandalur – Kelambakkam Road, Melakkottaiyur, Chennai – 600 127.

**Important :**

All communications are to be addressed to in the name of Registrar, IIITD&M Kancheepuram only and not in the name of any officer and mails has to be sent to official purchase email id [srcice@iiitdm.ac.in](mailto:srcice@iiitdm.ac.in)

## Terms and Conditions

1. The Bidders are requested to give detailed tender in two bid format.  

<b>Envelope-I</b>	:	<b>Technical Bid</b>
<b>Envelope-II</b>	:	<b>Commercial Bid</b>
2. The bidder has to accept all terms and conditions of the Institute and conditional offers will not be accepted.
3. The tender document can be downloaded from the IIITD&M Kancheepuram website [www.iiitdm.ac.in](http://www.iiitdm.ac.in) at free of cost. The duly filled tenders should be submitted to Registrar, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Off Vandalur – Kelambakkam Road, Melakkottaiyur, Chennai – 600 127 **on or before due date 03: 00 PM, 30.03.2020**. Extension of due date will not be entertained.
4. Tenders which are submitted without following the two bid offer system will summarily be rejected.
5. **Envelope No-1 : Technical Bid**  
The technical offer should comprise of the following:
  - i) EMD - Bid Declaration Form as per Annexure-B
  - ii) Bids should have a validity of **60 days**.
  - iii) The technical offer **should not contain any price information**.
6. **Envelope No-2 : Commercial Bid**  
This should contain only the price information along with commercial terms and conditions.
7. **Opening of Technical Bids**  
The technical bids will be opened on the scheduled date in the presence of the bidders or their authorized representatives who choose to attend the technical bid opening.
8. **Technical Evaluation**
  - i) All the technical aspects of the bids received and will be evaluated for suitability and specification. If required, the Institute may seek additional clarification from the bidders.
  - ii) The technical recommendation shall be final and binding on all the parties.
  - iii) The technically qualified firms will be intimated about Price Bid opening by email.

#### 9. **Opening of Commercial Bids**

IIITD&M Kancheepuram will open commercial bids of only the shortlisted bidders in technical evaluation in the presence of the bidders or their authorized representatives who choose to attend the commercial bid opening. The representatives of shortlisted firms only will be allowed for commercial bid opening.

#### 10. **Price**

- i) **The Price should be quoted in INR only. GST payable extra.**
- ii) The price quoted shall be for supply, delivery and Installation at specified room of IIITDM KANCHEEPURAM.
- iii) The packing, forwarding, freight, insurance and commissioning charges, if any extra may be quoted separately in commercial bid.

#### 11. **Delivery Period / Timelines**

The deliveries and installation must be completed **within 04 weeks** from the date of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet this expectation, as this is linked to student's admission.

#### 12. **Locations for the supply / services**

The items covered by this document is required to be supplied and installed at  
Indian Institute of Information Technology,  
Design and Manufacturing, Kancheepuram,  
Off Vandalur-Kelambakkam Road,  
Melakkottaiyur, Chennai – 600 127.  
Tamil Nadu.

IIITD&M Kancheepuram will not provide any accommodation / transportation for the engineers / representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the principal supplier / agent to make their own arrangements.

#### 13. **Installation**

- i) Bidder shall be responsible for installation as applicable and for after sales service during the warranty and thereafter.
- ii) Installation to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the item at site.

#### 14. **Warranty / Support**

- i) The items supplied shall carry a minimum of **ONE year warranty** from the date of acceptance of the item.
- ii) The defects, if any, during the guarantee / warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, local taxes if any and should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

**15. Indemnity**

The vendor shall indemnify, protect and save IIITD&M Kancheepuram against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by them.

**16. Freight and Insurance**

The items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IIITD&M Kancheepuram site.

**17. Payment**

100% payment after delivery, installation and acceptance by IIITD&M on submission of Bank Guarantee for an equivalent value of 5% of PO value valid till warranty period plus 2 months.

The bidders may note that **Other modes of payment like advance payment and payment against delivery is not considered.**

**18. Penalty for delayed services / LD**

- i) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise the LD clause will be applied / enforced.
- ii) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or or part thereof subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
- iii) IIITD&M Kancheepuram reserves the right to cancel the order in case the delay is more than 04 weeks and the contractor is not eligible for any damage from the Institute and contractor will forfeit his claim for EMD.

**19. Purchasers right to vary quantities at the time of award**

IIITD&M Kancheepuram reserves the right at the time of award of contract to increase or decrease the quantity of items specified in the schedule of requirements without any change in price or other terms and conditions.

**20. Jurisdiction**

The disputes, legal matters, court matters, if any, shall be subject to Courts in the district of Kancheepuram Jurisdiction only.

**21. Force Majeure**

- a) IIITD&M Kancheepuram may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.
- b) If the due date of submission of tender / Tender opening is declared a holiday for the Institute, the due date for submission of tender / Tender will be extended to same time on next working day.

**22. Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (IIITD&M Kancheepuram or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by Director, IIITD&M Kancheepuram, India. The Venue for arbitration shall be Chennai, India.

**23. Acceptance of the terms and conditions of tender document**

The bidders has to accept all the terms and conditions of this tender document and it is made known that the bidders quoting for this tender had impliedly accepted the terms and conditions of this tender.

**24. Interpretation of the clauses in the Tender Document**

In case of any ambiguity / dispute in the interpretation of any of the clause in this tender document, interpretation of Director, IIITD&M Kancheepuram shall be final and binding on all parties. The IIITD&M Kancheepuram reserves the right to accept the offer in full or in parts or reject the offer summarily or partly without assigning any reasons.

Sd/xx

कुलसचिव / Registrar  
IIITD&M Kancheepuram

Requirement of Progressive Cavity Displacement (PCD) pump with accessories - Quantity- 1				
MAKE: nScript/ Viscotec/ Voltera/ GPD Global/ Nordson				
SL. NO.	PARTICULARS AND IIITDM SPECIFICATION		BIDDERS OFFER	DEVIATION
			(WITH COMPLETE TECHNICAL DETAILS)	(WITH COMPLETE TECHNICAL DETAILS)
1	<b>PURPOSE:</b>	This PCD pump will be used for micro dispensing of conductive ink/ paste precisely on a flexible substrate and printing of electronic circuits, antenna, etc.,		
2	<b>WORKING MEDIUM INFO:</b>	Conductive ink/paste consists of copper/silver nanoparticles with the wider viscosity range.		
	Conductive ink paste			
3	<b>PUMP SPECIFICATION:</b> Dispensing Volume	Min: 0.03 ml/rotation or less		
4	A minimum amount of dose	Min: 0.0025 ml or less		
5	Flow rate at rotation	0.3 – 1.3 ml/min or wider		
6	Drip and drool	The pump must be free from drip and drool		
7	The precision of Dispensing, ml	±1% or better		
8	Minimum trace width	250 microns or less		
9	Compatibility	Compatible with copper/ silver conductive ink/paste		
10	The capacity of the cartridge	volume of cartridge for conductive ink/paste should be sufficient for conductive traces		
11	Integration	The pump should able to be integrated or mounted on the benchtop machine.		
12	Mounting kit	Mounting kit to facilitate the integration of pump with opensource PC based control should be provided		
13	<b>PCD PUMP CONTROLLER SPECIFICATION:</b> Category	Programmable/ Servo controller		
14	Power	220V		

15	The connecting cable of length. To provide a connection between controller and pump	3 meter or more		
16	Power cord cable	All should have compatibility with Indian standards		
17	Integration kit	Kit for integrating the PCD pump and controller with existing benchtop CNC drives should be provided		
18	The user interface configuration	Vendor shall provide for pump & controller		
19	<b>TOOLS FOR OPERATION &amp; MAINTENANCE:</b> Tools and kit	The vendor shall provide necessary tools like PCD pump support kit, tools, keys, etc., for operation and maintenance. A list of such tools should be submitted with an offer.		
20	<b>SPARES:</b> List of spares	The vendor shall recommend and submit a list of spares required for the pump for at least three years of trouble-free operation.		
21	Spare availability	All types of spares for the pump and its accessories should be available for a minimum of three years after the supply of the pump. If any spares or controls are likely to become obsolete within this period, the vendor should inform IIITDM and provide details of its suppliers to enable IIITDM to procure them in advance.		
22	<b>DOCUMENTATION:</b> Operating and maintenance manual – 3 sets	The vendor shall provide an operating manual for pump & controller (Hard or soft copies). Manual must be in the English language		
23	<b>TESTS:</b> Dispensing accuracy	The vendor shall confirm the dispensing accuracy as per requirement.		
24	Validate the Printing of electronic circuit	Vendor to demonstrate printing of predefined standard circuit on the substrate (optional: flexible) and confirm the trace width, multilayer capability, all other accuracies as per requirement/ supplier test chart whichever is finer. Please provide the pre-dispatch test report of the pump & controller		
25	<b>AMBIENT CONDITION:</b> Power Supply for controller	AC 220 V $\pm$ 10%		



26	Frequency	50 Hz $\pm$ 3Hz		
27	Ambient Temperature condition	max 45 °C		
28	Ambient condition compatibility	The pump and accessories shall be good enough to withstand the specified ambient conditions to meet the accuracy requirements of IIITDM components.		
29	Test/ Activities at IIITDM	The vendor should carry out tests/activities at IIITDM while commissioning the pump. At least provide a pre-dispatch report of the test which ensures the requirement		
30	<b>PACKING:</b> Quality of Packaging	Seaworthy & rigid packing for all items of the pump, controller, all accessories, and other supplied items to avoid any damage/loss in transit.		
31	<b>WARRANTY</b> Warranty required	12 months from the date of installation of the pump & controller at IIITDM		

Sd/xx

कुलसचिव / Registrar  
IIITD&M Kancheepuram

(To be printed in the letter head of the bidder)

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**Bid Declaration form**

**To**

**The Registrar,**

**IIITDM Kancheepuram**

I/We M/s. \_\_\_\_\_ (Name) bid for the tender \_\_\_\_\_ (Tender No) towards supply and installation of \_\_\_\_\_ (Name of the item) declare that if we withdraw or modify our Bids either during the period of validity of bid or fail to execute the contract on award the purchase order/contract, we understand and agree that our firm will be debarred for the period of one year for further bidding of any tender of your institute. Further, we agree that your institute is at liberty to intimate this debarment to all departments/ organizations of government and governmental organizations.

**Authorized signatory with seal**