

	<p>भारतीय प्रौद्योगिकी संस्थान पालक्काड <b>Indian Institute of Technology Palakkad</b> अहलिआ एकीकृत कैम्पस, कोज़िहपारा Ahalia Integrated Campus, Kozhipara पालक्काड- 678557 Palakkad – 678 557</p>	<p>दूरभाषसंख्या/ Phone no: 04923 – 226300/590/586</p> <p>ईमेल/ Email : purchase@iitpkd.ac.in</p>
---	--	--

Ref No: IITPKD/CFI/ 022 / 2017

Date: 04.07.2017

Due Date of the tender: 19.07.2017 @ 3.30 PM

**TENDER FOR INVITING QUOTATIONS**

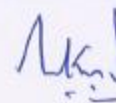
Dear Sirs,

On Behalf of Indian Institute of Technology Palakkad quotations are invited for "**Purchase of 3 Axis CNC Milling Machine**" confirming to the following specification mentioned in the Annexure.

- 1. Preparation of Bids:** - The tenders should be submitted **under two-bid system** (i.e.) Technical bid and Financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. No prices should be included in technical bid. Financial Bid should indicate item – wise prices for the items mentioned in the technical bid. The technical bid and the Financial should be put in separate cover and sealed. Both sealed covers should be put into a bigger cover
- 2. The Quotations** duly sealed and superscribed on the envelope **with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. Fax and Email quotation are not acceptable.**
- 3. The price** should be quoted per unit and packing and delivery charges should be indicated separately. The offer/bids should be exclusive of Taxes and Duties, which will be paid by the purchaser as applicable. However the percentage and of taxes and duties as on date should be clearly indicated.
- 4. The Quotations** should be valid for **Sixty days** from the due date and the period of delivery required should also be clearly indicated.
- 5. If the item** is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
- 6. Local Firms:** Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.

8. **Supplier should be registered under GST, PAN and TIN. A copy of the same should be submitted along with tender, failing which the tender will be treated as invalid**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Excise Duty & Custom Duty:** IIT Palakkad is exempted from payment of Excise Duty. Excise duty certificate will be issued after receipt of Proforma Invoice and the Custom Duty which will be paid at a concessional rate against duty exemption certificate.
12. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. **Please indicate actual product cost + Taxes separately.** No advance payment will be made. The Tenderer have to furnish the bank details along with tender like Account No, Account Name, IFSC Code etc.,
13. **Submission of Bids:** Quotation should be sent to the following address "**The Registrar, Indian Institute of Technology Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557, Kerala**", Phone No: 04923 226 300/ 590/586 , Email : [purchase@iitpkd.ac.in](mailto:purchase@iitpkd.ac.in)
14. **Delivery Period:** The quotation should indicate clearly when delivery and installation will be made. In case there is any deviation in the delivery schedule, liquidated damages may be enforced or penalty for the delayed supply period may be levied.
15. **The Tenderer should have Service centre in Palakkad, Coimbatore, Thrissur, Cochin and Chennai**
16. **Late offer:** The quotation received after due date will not be considered. Please ensure that your offer is sent well in advance to reach the Institute by the due date.
17. **Warranty:** Warranty Clause Should be indicated Clearly.
18. **Acceptance and Rejection:** I.I.T Palakkad has the right to accept the whole or any parts of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,



Registrar, IIT Palakkad

Encl: Specifications



## Technical Specification for 3-axis CNC milling machine

Sl. No.	Item	Specification	
1.	Materials that can be milled	(a) Metals	Steel, Aluminium, Copper etc.
		(b) Plastics	Nylon , ABS, Acrylic, Polycarbonate etc.
2.	Travel	(a) X axis	Minimum 300 mm
		(b) Y axis	Minimum 150 mm
		(c) Z axis	Minimum 300 mm
3.	Resolution		Less than or equal to 0.003 mm
4.	Accuracy of positioning		Less than or equal 0.05 mm per 300 mm
5.	Structure	(a) Frame	Cast iron/suitable metal
		(b) XYZ positioning	Must use ball screws
6.	Spindle	(a) Speed range	Maximum speed must be 10 000 rpm or higher.
		(b) Power	0.75- 1 HP motor
		(c) Taper	BT30 / ISO30 / R8/standard
7.	Feed Rate	(a) Rapid movement	Minimum of 1 m/min for all X, Y, Z directions
		(b) Cutting	Programmable feedrate from 0 – maximum feedrate allowed for rapid movement.
8.	CNC Controller		At least 3 axis, PC based or industrial CNC controller. Controller should be interfaced to easy to use Windows/Linux based GUI running on a PC.
9.	Coolant system		Must have a <b>flood coolant</b> OR <b>mist coolant</b> system for cooling jobs while machining. All associated accessories, such as a <b>Chip Pan</b> must be included so that there is no spillage of coolant.

10.	Stand		Appropriate stand for the mill must be included
11.	Power Supply		220 V with Indian Plug. In case machine operates at 110 V, appropriate power adapters must be provided. Power adapter must be enclosed in safe and secure manner.
12	Weight	In kg	Less than 500 kg
13.	Accessories		<ul style="list-style-type: none"> <li>a. Enclosure for the milling machine.</li> <li>b. Collet holder and set of collets with 1 set of HSS and carbide end mills (2, 3, 4, 5, 6, 7, 8, 10 mm).</li> <li>c. Shoulder milling cutters 50 mm or 63 mm and holder. At least 10 inserts must be provided for the cutter.</li> <li>d. Vice etc for easy mounting of work piece.</li> <li>e. A set of clamps for clamping work piece</li> <li>f. Power drawbar attachment.</li> <li>g. Anti vibration mount.</li> </ul>
14	Other accessories-optional (Separate cost break up should be given in the price bid)		<ul style="list-style-type: none"> <li>a. Integrated DIN accessory port for integrating optional touch probe or tool setter.</li> <li>b. Prewired for optional 4<sup>th</sup> axis.</li> <li>c. Preconfigured for electronic hand wheel.</li> <li>d. Optional Remote Emergency Stop</li> <li>e. <u>If the proposed machine is having capacity to mount carbide end mills of 12, 14, 16, 20, 24 mm diameter, the quotation can be submitted for end mills, collet and holder</u></li> </ul>