

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81,नॉलेज सिटी,प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306 INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Education, Govt. of India)
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

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CPPP/Institute Website

IISERM (1481)21/22-Pur

Dated: 15th July 2021

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of RF Grade PCB milling machine and electroplating tools** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. **https://eprocure.gov.in/eprocure/app**. Tender documents may please be downloaded from the E-procurement portal website **https://eprocure.gov.in/eprocure/app** & Institute website **www.iisermohali.ac.in.**

-Sd-Assistant Registrar (P&S)

NOTE: This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder required to declare on the letter head the percentage of Local content for the quoted instrument and submit with the Technical Bid. Bidder should also give details of the location(s) at which the local value addition is made



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E-TENDER NOTICE

Tender Ref.- IISERM(1481)21/22-Pur Dated: 15th July 2021

Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	15 th July 2021	6:00pm
2.	Tender Document download start Date & Time	15 th July 2021	6:00pm
3.	Bid Submission start Date &Time	15 th July 2021	6:00pm
4.	Bid Submission End date and Time	4 th August 2021	Upto 11:00am
5.	Tender opening Date and Time	5 th August 2021	At 11:30am

Online tenders are invited on behalf of the Director, IISER Mohali in TWO BID SYSTEM item(s) from the original manufacturer/supplier https://eprocure.gov.in/eprocure/app. Tender documents may please be downloaded from the Eprocurement portal website https://eprocure.gov.in/eprocure/app & Institute website www.iisermohali.ac.in. Tender fee in shape of Demand Draft of Rs 590/- (Non-refundable) should be submitted by bidder in favour of the Registrar, IISER Mohali payable at Mohali or through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790) However, scanned copy of the Tender fee should be uploaded on website along with technical bid. The hard copy of the same in original to be sent to the address mentioned below duly superscribing the supply/work name and reference/tender ID on the envelope and same must reach before opening of the bid and if not received before due date the bid will be summarily rejected. Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee/EMD as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.

<u>Bidders</u> will also be required to execute bond/undertaking <u>Bid Security Declaration Form attached</u> as ANNEXURE-I for availing exemption to submit <u>EMD</u>.

The Original Tender Fee should be sent to:

Assistant Registrar (P&S) Indian Institute of Science Education and Research Mohali Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab, India, Pin: 140306

Non-receipt of original Tender Fee will lead to rejection of tender.

ITEM WISE DETAILS

Sr.	Description	Qty.
No.		(in
		units)
1.	Supply and Installation of RF Grade PCB milling machine and electroplating	01
	tools	
	TECHNICAL SPECIFICATIONS: AS PER ANNEXURE-II	
	TECHNICAL SPECIFICATIONS: AS FER ANNEAURE-II	
ĺ	*The attached ANNEXURE-II must be filled by the bidder duly stamped and signed.	

A) **IMORTANT NOTES:-**

- I. This is a domestic Tender according to the DPIIT Order dated 15/07/2017 and subsequent amendements to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. Bidders should also give details of Localtions(s); at which the local value addition is made. Bidders are requested to furnish the declaration regarding local content/locations in Annexure III.
- II. The online updated Price BOO is in INR format. Bids are invited in INR only against domestic tender.
- III. The Online bids should be submitted directly by the original manufacturer/supplier. If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company.
- IV. All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.
- V. <u>Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.</u>
- VI. Warranty: One year, if not specified above.

B) SUBMISSION OF TENDER

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. https://eprocure.gov.in/eprocure/app only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. Also bidders applying against 'MSME/NSIC Certificate" issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for "supply & installation of Desktop" the certificate should be issued for activity/area of "Computer supply and services activities etc" otherwise bid will be REJECTED without notice.
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

C) INSTRUCTIONS

- 1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
- 2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
- 3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.
- 4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
- 5. THE INSTITUTE IS EXEMPTED FROM CUSTOM DUTY under notification no- TU/V/RG/- CDE(1062)/201 CUSTOM DT.30.08.2016.
- 6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
- 7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
- 8. Bidder/s quoting in currency other than **Indian Rupee** (**INR**) should explicitly mention the currency in which tender quoted wherever applicable in <u>Technical Bid</u> along the tender documents.
- 9. The delivery period should be specifically stated. Earlier delivery will be preferred.
- 10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
- 11. Validity of offer: 90 days.
- 12. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 3% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020 and* as per norms may be sought from the firms.
- 13. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website https://eprocure.gov.in/eprocure/app and <a href="https://eprocure.gov.
- 14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–Sd-Assistant Registrar (P&S)

ANNEXURE-I

Bid Securing Declaration Form

Date:	E-Tender No	E-Tender ID
*	nplete name and address of the purdersigned, declare that:	chaser)
I/We understande	and that, according to your condit	ions, bids must be supported by a Bid Securing
	n the date of notification if I am /V	bidding for any contract with you for a period of We are in a breach of any obligation under the bid
period of bid b) having bee validity (i) fa Performance Securing Dect of (i) the rece	validity specified in the form of Bio en notified of the acceptance of or ill or reuse to execute the contract Security, in accordance with the I laration shall cease to be valid if I ar	r derogates from the tender, my/our Bid during the l; or ar Bid by the purchaser during the period of bid t, if required, or (ii) fail or refuse to furnish the instructions to Bidders. I/We understand this Bid in/we are not the successful Bidder, upon the earlier the of the successful Bidder; or (ii) thirty days after
_	rt signature of person whose name a y of (insert legal capacity of person	and capacity are shown) signing the Bid Securing Declaration)
	complete name of person signing led to sign the bid for an on behalf of	ne Bid Securing Declaration) of (insert complete name of Bidder)
	day of al (where appropriate)	(insert date of signing)
*	e of a Joint Venture, the Bid Securi enture that submits the bid)	ng Declaration must be in the name of all partners
PS: Furnish the	above in original stationary/letter head w	th signed and sealed.

ANNEXURE-II

RF Grad	de PCB milling machir	ne and electroplating tools	
Unit 1	RF Grade PCB milli	ing machine	
Microwa	we grade circuits and pr	prototype tool with smooth finish for RF and ecise alignment in front and back of the boards, inates (including ceramic filled) and FR-4.	
S.No.	PCB Milling Equipment for RF and Microwave grade tracks	Required specification	Compliance (compliance must also be supported by brochures, Data Sheets and application notes and videos in technical bid)
1	Machine must be capable of producing RF grade finishes with appropriate end mills	Must provide smooth finish with high quality performance for RF and microwave circuits On both sides with alignments	
2	The maximum size of the PCB that can be milled	At least 225 mm x 300 mm	
3	Mechanical Resolution X,Y plane	0.5 microns or better	
4	Mechanical Resolution Z	0.2 microns or better	
5	Depanellng	Same unit must be able to depanel individual copies of designs into smaller PCBs	
6	X/Y travel speed	At least 150mm/sec	
7	Spindle	Adjustable speed u up-to 100000 rpm or more adjustable speed from 5000 rpm , with integrated automatic milling depth adjustment sensor with \pm 1 μm and self cleaning features, Must have non-contact pneumatic height adjustment	
8	Isolation and Track width	Machine should be capable of making tracks and isolation upto 0.1mm (4mil)	
9	Tools for Spindle	Automatic Tool Changer. Minimum 20 tool positions	
10	Material thickness measurement	Automatic detection of material and copper thickness with +/1-1 um	

11	Machine construction base	Heavy Granite base for optimum accuracy	
12	Acoustic Cabinet	Should be enclosed in an Acoustic Cabinet	
13	Glue/epoxy/solder paste dispenser	Machine should have in -built dispenser to apply glue/epoxy / solder paste onto the substrates fully automatically with minimum data preparation.	
14	Vacuum Table	Should be integrated type and for holding the work substrate firmly.	
15	Stencil fabrication	Machine should be capable of cutting SMD stencil on polyimide films.	
16	Dust extraction system	Software controlled high efficient automated system to be integral part of the machine	
17	Layers	Provided system configuration should be able to make Double side PCBs.	
18	PCB board material	Should be capable to make single side/ double side and multilayer circuits on FR4, FR3, RT/ Duroid, Kapton, LTCC (unfired), CER-10,Taconic, PTFE boards and also to make polyamide stencil, special films, aluminium panel engraving etc. All ceramic filled laminates (except Al2O3) Machineablity of Ceramics or Silicon wafers at the risk of breaking drills or end mills alone can be additional option.	
19	CAM software	Machine should be supplied with necessary CAM software to accept import format Gerber Standard (RS- 274-D), Extended Gerber (RS- 274-X), Excellon NC Drill (Version 1 and 2), Sieb & Meier NC Drill, HP-GL TM , DPF, Auto-CAD TM , DXF, ODB ++R etc.	
20	Drill	Min hole dia 0.15 mm, Speed 100 strokes/minute	
21	Engraving capability	2.5D control for engraving on aluminium/plastic	
22	Camera system	System should have camera for fiducial/Optical mark recognition, alignment, Automatic offset correction as well as drill bit inspection. Accuracy should be 1 micron on both front and back sides.	

23	Computer Hardware and Software	1 interface PC to be supplied with minimal hardware and software Intel I7 11th generation, 17" monitor with SSD hard drive 500 GB, 16GB RAM Windows 10 and required OEM software.	
24	Set of Accessories to l	be quoted containing the below:	
25			
23	0.1	nite, 315mm x 239 mm x 5 mm - 2 Nos	
26	Nos	m x 305mm (9"x12"), 0/35μm (predrilled) - 10	
27	Nos	m x 305mm (9"x12"), 35/35μm (predrilled) - 5	
28	Nos	m x 305mm (9"x12"), 18/18μm (predrilled) - 5	
28 RF	Micro Cutter with dist	ance ring $1/8$ ", 36 mm, d = $0.1 - 0.15$ mm (4 - 6	
Tools	mil) – 10 Nos		
T1	End Mill (RF) with di	stance ring 1/8", 36mm, d = 0.15mm - 10 Nos	
T2		stance ring 1/8", 36mm, d = 0.25mm - 10Nos	
T3		stance ring $1/8$ ", 36 mm, $d = 0.40$ mm $- 10$ Nos	
T4		stance ring 1/8", 36mm, d = 1.00mm - 5 Nos	
T5		stance ring $1/8$ ", 36mm, $d = 2.00$ mm - 5 Nos	
T6		stance ring $1/8$ ", 38mm, $d = 2.00$ mm - 5 Nos	
		th distance rings - 1 Set Consisting of the	
T7	following:	an distance rings of some consisting of the	
T8		36 mm, 0.2 – 0.5 mm (8 -20 mil) - 10 Nos	
T9		mm, 0.10 – 0.15 mm (4 – 6 mil) - 2 Nos	
T10			
T11	End mill 1/8", 36mm, d = 0.8mm - 1 Nos End mill 1/8", 36mm, d = 1.00mm (39 mil) - 2 Nos		
T12		d = 1.00 mm (39 mil) - 2 Nos d = 2.00 mm (79 mil) - 2 Nos	
T13		8mm, d = 1.00mm (39 mil) - 1 Nos	
T14		8mm, d = 2.00 mm (79 mil) - 1 Nos	
T15		8mm, d = 1.00mm (39 mil) - 2 Nos	
T16		38mm, d = 2.00 (79 mil) - 2 Nos	
T17	, 1 /	m, d= 0.40 (16 mil) - 2 Nos	
T18		m, d= 0.50 (20 mil) - 2 Nos	
T19		m, d= 0.60 (24 mil) - 2 Nos	
T20	-	m, d= 0.70 (28 mil) - 2 Nos	
T21	1	m, d= 0.80 (31 mil) - 2 Nos	
T22	1	m, d= 0.90 (35 mil) - 2 Nos	
T23	Spiral Drill, 1/8", 38mm, d= 1.00 (39 mil) - 2 Nos		
T24	-	m, d= 1.20 (47 mil) - 1 Nos	
T25	•	m, d= 1.40 (55 mil) - 1 Nos	
T26	Spiral Drill, 1/8", 38m	m, d= 1.50 (59 mil) - 2 Nos	
T27	Spiral Drill, 1/8", 38m	ım, d= 1.60 (63 mil) - 1 Nos	
T28			
T29	Spiral Drill, 1/8", 38mm, d= 2.00 (79 mil) - 2 Nos		
T30	Spiral Drill, 1/8", 38m	m, d= 3.00 (118 mil) - 2 Nos	
30	Vacuum Cleaner	Integrated vacuum extractor capable of handling heavy jobs. Must be automatically turned on from system while milling.	

31	Compressor	Compressor type: single phase with 50 litre SS container with Automatic drain operation to remove moisture, having noise not more than 68 db(A) at 2 m, Must be over specified roughly twice the systems CFM requirement with pressure settable upto 10 bar must be dry oil free and reliable brand like Hitachi ELGI ir Anwest IWATA.	
32	Solder paste dispenser	Integrated solder paste dispenser	
33	Control PC	Control PC Windows 10 with all necessary OEM software 16 GB RAM, Solid State drive 500 GB and Intel I-5 processer with large monitor. Must be known make like ASUS, HP or DELL	
34	Manual & Brochures application notes	Provide PDF copy of user manual, brochure and application notes (if any).	
35	Video	Please provide video by link or file showing how system works especially both front and back alignment.	
36	References	Provide 5 references from National Institutes like IITs, IISERs, TIFR etc with RF grade PCB models.	
37	Evaluation	Items 34 to 36 will be used for evaluation of compliance and performance along with compliance provided by supplier.	
38	Samples	We may ask for samples of designs implemented on specific boards if not satisfied with information.	
39	Installation and Training	Free onsite training for 1 week must be provided.	
40	Warranty	3 years comprehensive except for bits and end mills.	
41	OEM	Main unit and tools must be from one OEM. Utilities must be from high quality OEMS with 3 years warranty.	
Unit 2 E	Clectroplating tool for I	PCB	
Must be	a system capable of Pla	ted through holes on insulating holes in PCBs	
E1	Galvanic Through- hole plating system	Galvanic through-hole plating with shiftable reverse pulse plating technology, integrated micro-controller, menu controlled user guidance via 7" touch display, should work material size upto 230mm x 330mm with no limit of holes. System should include 6 baths (2 for cleaning; 1 for via cleaner, 1 for activator, 1 for copper plating and 1 for	

		tinning). Any requirement of fumehood extractor etc should be informed	
E2	Chemical Set for Galvanic Through- hole plating system	Must be a complete set of plating chemicals including cleaners, conductive primers/activators, electroless copper followed by electroplated copper; - e.g 5 liters each of cleaner, 5 Lilter of Carbon activator, - 15 liter Copper Plating solution 1Kg copper in desired form, 0.5 liter Copper Shine 400 - 800 gm Powder for Electroless tinning Actual set of chemicals can vary slighlty according to machine and process (e.g an electroless copper if needed before Copper can be included.	
E3	Manual & Brochures application notes	Provide PDF copy of user manual, brochure and application notes (if any).	
E4	Video	Please provide video by link or file showing how system works especially both front and back alignment.	
E5	References	Provide 5 references from National Institutes like IITs, IISERs, TIFR etc with RF PCB models.	
E6	Evaluation	Items 3, 4, 5 will be used for evaluation of compliance and performance along with compliance provided by supplier.	
E7	Samples	We may ask for samples of plating.	
E8	warranty	3 years comprehensive except for consumables	
	UNIT 3	Silver epoxy through hole filler	
S1	1)	System to fill entire board with Silver epoxy filler with holes of 0.4 mm or smaller holes with vacuum tool %over an A4 size area.	
S2	2)	Box oven to cure Silver epoxt	
S3	3)	1 set of Consumables like protector	
S4	4)	Two part silver epoxy 200gms	
	Items to be quoted	d	
	UNIT 1	RF Grade PCB milling machine & Accessorie	es —————
	1	PCB milling system with all accessories set of tools specified inleuding table and cabinet	

	2	Control PC	
	3	Drawer SMT reflow soldering oven. (low cost version) with program in seconds to ~15 mins with temperature upto 250 deg C or better with settable soak, reflow and cool cycles	
	4	Manual Large PCB slicer (board with handle like paper cutter)	
	5	Hot plate REMI or equivalent and 1 hot gun Black and Dekker or Bosch.	
	UNIT 2	Electroplating Tool & Chemicals	
	1	Electroplating Tool	
	2	Plating Chemicals	
	UNIT 3	Silver epoxy through hole filler	
S1	1)	Filler system as per specifications	
S2	2)	Box oven to cure Silver epoxt	
S3	3)	Cleaning /polishing brush etc if needed,	
S4	4)	Two part silver epoxy 200 gms	
	Country of Origin	Manufacturers where significant manufacturing is done in countries sharing land border with India must have appropriate Govt of India permissions to export.	
	Make in India		
	Class I and Class II	Provide documents for class II or Class I. In case of OEM not quoting IISER needs letter of authorization from OEM also. Suppliers not qualifying of Class II or I will be disqualified. (Furnish declaration as per Annexure III)	
	Repairs	For out of site repairs in service center or factory during warranty manufacturer/local supplier must give Bank Guarantee. For repairs outside warranty local office of OEM or local supplier should give Indemnity bond to take instrument for repairs upto 15 years	
	Spares	Model must be supported for 15 years with spares and options to repair.	
	Price comparison	Vendors can quote any of the three units available. The evaluation will be done independently for each units, however, IISER Mohali reserve rights to decide which one to procured depending the availability of fund and suitability of units 2 and 3 for technically qualified versions of unit 1.	

ANNEXURE-III

SELF DECLARATION [For Local Content of Products, Services or Works]

To,
The Director
Indian Institute of Science Education and Research
(Established by Ministry of Education, Govt. of India)
Sector-81, Knowledge city, PO-Manauli,
SAS Nagar Mohali-140306, Punjab

1. With reference to Order no P.-45021/2/2017 F

1.	450 Go	ith reference to Order no P45021/2/2017 PP (BE-II) dated 04.06.2020 and No. P 021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry ovt. of India, we fall under the following category of supplier (please tick the correct category the items for which this tender has been floated and being bided.
		Class I local supplier – has local content equal to more than 50%. Local contents added a
		(name of location).
		Class II local supplier – has local content more than 20% but less than 50%. Local content
		added at (name of location).
		Non-local supplier – has local content less than or equal to 20%. Local contents added at (name of location).
2.	Fal Ge	e are solely responsible for the abovementioned declaration in respect of category of supplier lise declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the eneral Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) the General Financial Rules along with such other actions as may be permissible under law.
Sig	gnat	ure & seal of the company
		and address of the organization

Note: In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.