बिड संख्या/Bid Number: GEM/2026/B/8250

दिनांक /Dated: 06-11-2

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	18-11-2026 15:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	19-11-2026 15:00:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	30 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Education
विभाग का नाम/Department Name	Department Of Higher Education
संगठन का नाम/Organisation Name	Delhi University
कार्यालय का नाम/Office Name	University Of Delhi
शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal	HOD Email id :ssirpal@ducc.du.ac.in Buyer Email id: manojkumarkhanna@south.du.ac.in
कुल मात्रा/Total Quantity	1
वस्तु श्रेणी /Item Category	PCB Prototype Machine (Q3)
पिछले 3 वित्तीय वर्षों का बिडर का न्यूनतम औसत वार्षिक वित्तीय टर्नओवर/Minimum Average Annual Turnover of the bidder (For the last 3 Financial Years)	2 Lakh (s)
मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)/OEM Average Turnover (Last 3 Years)	5 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
टर्नओवर पात्रता मानदंड/Turnover eligibility criteria	To be verified by the buyer at the time of technical evaluatio
एमएसएमई के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है/MSE Relaxation for Years of Experience and Turnover	No
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Relaxation for Years of Experience and Turnover	No
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by t buyer

बिड विवरण/Bid Details	
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	3
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
विगत प्रदर्शन /Past Performance	80 %
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	3 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No

ईपीबीजी विवरण /ePBG Detail

आवश्यकता/Required	No

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई खरीद वरीयता/MII Purchase Preference

एमआईआई खरीद वरीयता/MII Purchase Preference	No

एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं/सेवा प्रदाता को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% / Purchase Preference to MSE OEMs/ Service Provider available upto price within L1+X%	15
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माता/सेवा प्रदाता को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Percentage of Bid quantity/amount for MSE OEMs/ Service Provider Purchase preference	25

1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of cert Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicati the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorpora of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offe in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRA to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respec the completed financial years after the date of constitution shall be taken into account for this criteria.
4. **Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs hav valid Udyam Certificate and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry o Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bid wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered pro on GeM. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service, and Buyer w decide eligibility for purchase preference based on documentary evidence submitted in case of product bids, whereas case of services the eligibility is automatically validated. If L-1 is not an MSE and MSE Seller (s) has / have quoted pri within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such M Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM_No.1_4_2021_PPD_dated_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validate on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or simila Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening dat any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantit any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

PCB Prototype Machine (1 pieces)

तकनीकी विशिष्टियाँ /Technical Specifications

[* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification]

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
Performance Parameters	**Purpose of the Machine**	To fabricate Proto Type Single Sided and Double sided PCB for Academic and R&D Work ,Designing micro strip components
	Type of Operation of PCB Machine	Automatic
	Capacity of Machine for fabrication of double side PCB	Yes
	Tool Change operation	Manual
	Number of Automatic Tool Change Positions available	NA (For Manual)
	The operations performed by the Machine	Drilling, Engraving, Routing
	Surface inspection feature to check uniformity of Surface	Yes
	Drill Depth Sensing and Adjusting Feature	Yes
	Availability of Built in camera function	No
	Available software for import of design made	Gerber
	Working area X Axis in mm	up to 150
	Working area in Y Axis in mm	Up to 150
	Working Area z Axis in mm	up to 10
	Resolution in micrometer	0.1
	Size of Tool holder/ Collet in inches	0NE BY EIGHT
	Minimum Trace Width in mm	0.1
	Maximum working Speed in mm/s	20
	Type of bits included with PCB Proto Type Machine	Drilling
	Spindle Speed in RPM	20000
	Drilling performance in terms of number of stroke per minute	50
	Quantity of Drill Bits supplied with the Machine	10

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
	Machine shall be suppliedwith suitable enclosure to reduce sound	No
	Tool length detection feature	No
	Auto Bit Protection feature	No
	Warranty in years	2, 3

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Mukesh Kumar Khandelwal	110021,Department of Electronic Science, South Campus, University of Delhi, New Delhi.	1	30

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. **Generic**

   OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in case where option clause is exercised during the extended delivery period the additional time shall commence fron the last date of extended delivery period. The additional delivery time shall be (Increased quantity ÷ Original quantity) × Original delivery period (in days), subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders mus comply with these terms.

2. **Buyer Added Bid Specific ATC**

   Buyer Added text based ATC clauses

Item Required		
PCB Printing Machine - Drilling, Printing, Soldering and Reflow – Direct Ink Writing Technolog		
PCB Printer with Drill attachment includes		
One PCB Machine		

One drill attachment		
One dispenser		
One dispenser		
Nozzle pack: **One Nozzles 100 Microns (Pack of 4)** **One Nozzles 150 Microns (Pack of 4)** **One Nozzles 225 Microns (Pack of 4)** **One Nozzles Disposable - Pack 1 (25 Pcs)**		
Tip caps		
PCB drill set (metric range)		
3” x 4” FR1 substrate pack		
2” x 3” FR1 substrate pack		
Substrate clamps **Sacrificial layer** **Thumbscrew pack** **Drill replacement screw set** **1.0 mm rivet tool** **0.4 mm rivet tool** **1.0 mm ID copper rivets** **0.4 mm ID copper rivets** **Punk console kit** **Solder wire** **Tweezers** **Safety glasses** **Plus the necessary power supply, power adapter, cables, and user guides**		
Conductor 3 Ink Cartridge or more		
Solder Paste Cartridge T5 - SN42BI57.6AG0.4		
“3-DPCB Printing Machine” Specifications		

PCB Layer	Double Side	
Print Area (Max)	128mm×116mm×3mm	
XYZ Resolution	10µm×10µm×1µm	
Minimum Trace Width	0.2 mm	
Minimum-Maximum Substrate Thickness	1mm – 3 mm	
Substrate Fixture	Clamp	
Print Area Temprature	240ºC	
Pressure Control	Open Loop	
Alignment	Manual	
Compatible Modules	Probe, Dispenser, Drill	
Additional Features	Integrated Hot Plate	
Power Requirement	100-120 VAC, 50/60 Hz, 575 W, / 200-240 VAC, 50/50HZ, 575 W	
Connectivity	USB 2.0 or higher version USB	
Dispensing Technology	Direct Ink Write (DIW)	
Compatible Syringe Barrels	Nordson EFD 5CC	
Syringe Capacity	2 ML or higher	
Compatible Fluid/ Dispensable material	Solder Paste and Conductor 3	
Wetted Material	Polypropylene	
Nozzle Compatibility	23 mm Max nozzle Length	
Drill Spindle Speed	Upto 13000 rpm	
Compatible Shank Size	1/8”	
Power requirement for Drill	12VDC, 25 W	
Total Indicator Runout	0.076 mm	
Probe Type	Stylus Material, and Stainless Steel	

Conductive Printing		
Minimum trace width	0.2mm	8 mil
Minimum passive size	1005	402
Minimum pin-to-pin pitch	0.65mm	26 mil
Resistivity	12mΩ/sq @ 70um heigh t	12mΩ/sq @ 3mil h ght
Supplied Substrate material	FR4	FR4
Maximum board thickness	3mm	0.125”
Soldering		
Minimum Pin-to-Pin pitch	0.5mm	20 mil
Solder Paste Alloy	Sn42/Bi57.6/Ag0.4	Sn42/Bi57.6/Ag0.
Solder wire alloy	SnBiAg1	SnBiAg1
Soldering Iron Temperature	180-210°C	355-410°F
Print Bed		
Minimum Print Area	128mm x 116mm	5.0” x 4.5”
Max. heated bed temperature	240°C	464°F
Software Requirements		
Operating Systems	**Windows 7, 8, 10 (64 bit), OSX 10.11+**	**Windows 7, 8, 1 (64bit), OSX 10. +**
Compatible file format	**Gerber**	**Gerber**
Connection type	**Wired USB**	**Wired USB**
Warranty (onsite)	**5 Years at least onsit e**	

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3. **Warranty**

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engine

are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Tim
Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the
relevant clause of the bid.

अस्वीकरण/Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer ,is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid.All representations / grievan pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM.If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as nu void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Sing Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents (other than EMD and signed Integrity Pact - which can be submitted with days of bid opening) in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experienc
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders thro a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional te and conditions/or any other document. If buyer needs more items along with the main item, the same must b added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and wou not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; th Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; a the Code on Social Security, 2020 as and when notified and brought into force by the Government of In

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or

notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimur Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall contin to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. an any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliar shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Lev Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भार साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिका पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restr on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliz this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---