# INDIAN INSTITUTE OF TECHNOLOGY DELHI HAUZ KHAS, NEW DELHI-110016

#### Dated: 30/09/2014

# Open Tender Notice No. IITD/BTXT(SP-74)/2014

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

Details of the item	Purchase of Micro Twin Screw Compounder along with accessories for sample preparation (Fiber/Film/Injection Molded Specimen)
Earnest Money Deposit to be submitted	NA

Tender Documents may be downloaded from Central Public Procurement Portal <u>http://eprocure.gov.in/eprocure/app</u>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <u>http://eprocure.gov.in/eprocure/app</u>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission '.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <u>http://eprocure.gov.in/eprocure/app</u> as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

# <u>Schedule</u>

Name of Organization	Indian Institute of Technology Delhi
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/Service/Buy/Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Is Multi Currency Allowed	YES
Date of Issue/Publishing	30/09/2014 (16:00 Hrs)
Document Download/Sale Start Date	30/09/2014 (16:00 Hrs)
Document Download/Sale End Date	20/10/2014 (17:00 Hrs)
Last Date and Time for Uploading of Bids	20/10/2014 (17:00 Hrs)
Date and Time of Opening of Technical Bids	21/10/2014 (11:00 Hrs)
Tender Fee	
EMD	NIL
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	120 days
Address for Communication	Prof. Mangala Joshi Department of Textile Technology Indian Institute of Technology, Hauz Khas, New Delhi - 110016
Contact No.	(+91)-11- 26596623, 9818927946
Fax No.	(+91)-11- 26581103
Email Address	mangala@textile.iitd.ac.in, mangalajoshi9@gmail.com

## Chairman Purchase Committee (Buyer Member)

#### **Instructions for Online Bid Submission:**

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

http://eprocure.gov.in/eprocure/app

#### **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<u>http://eprocure.gov.in/eprocure/app</u>) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their userID / password and the password of the DSC / eToken.

#### SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

#### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the

bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

#### OR

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

#### ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

#### **General Instructions to the Bidders**

- 1) The tenders will be received online through portal <u>http://eprocure.gov.in/eprocure/app</u>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/etoken in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app . Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- 3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

## **Textile Technology Department** Indian Institute of Technology HauzKhas, New Delhi-110 016

#### **NOTICE INVITING QUOTATIONS**

Dated :30/09/2014

# Subject : **Purchase of Micro Twin Screw Compounder along with accessories for sample preparation (Fiber/Film/Injection Molded Specimen)**

#### **Invitation for Tender Offers**

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **Micro Twin Screw Compounder along with accessories for sample preparation** (Fiber/Film/Injection Molded Specimen) with three years on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal <u>http://eprocure.gov.in/eprocure/app</u>

#### **TECHNICAL SPECIFICATION:**

Sl.	Technical Specifications
No.	
1.	Micro Twin Screw Compounder
	Design Features:
	The machine should be equipped with an extruder type - double conical co/counter rotating detachable extruder screws. The barrel should be specially heat-treated and coated to minimize wear-and-tear. The screw should be surface-hardened having chemical resistance up to $400^{\circ}$ C and between pH 0-14. The barrel and the screw should be abrasion resistant to ceramic materials and nanofillers. The design of the screws should be such that it enables easy mounting and quick cleaning. Melt temperature measurement in the main barrel. 2 x 3 independent heating zones in the main barrel. The system should include a <b>method of</b>
	<b>rheological measurement</b> where acquisition of data (screw torque in melt, melt viscosity, shear
	rate, shear stress) should be included. It should also have an integrated bypass valve to enable re-
	circulation of the melt via the backflow channel. Facility for nitrogen purging should be there.
	The system should come with dedicated software to control the instrument parameters and to
	acquire data to fully analyze the processing run. Control Panel should be touch screen integrated
	with the machine housing allowing software control and data acquisition. The display should show
	rpm, pressure and temperature profile. All necessary spares and parts to be quoted.

# Safety Features:

- 1. Mechanical and electronic safety to be provided for torque overloading.
- 2. A safety switch which can stop the machine anytime.
- 3. Overload recognition during start-off phase and work with safety cut-off.

### **Technical Specifications:**

Parameter	Specifications
Batch Volume	Min 5 ml
	Max 15 ml
Maximum	$400^{0}$ C
Temperature	
Screw Speed	1-250 rpm
Torque	0- 5 Nm/Screw
Pressure	0-200 bar
Feeding	Manual/Pneumatic
Cooling	Air/Water

Sl. No.	List of desirable Accessories			
1.	Injection Moulding Machine integrated with Micro Twin Screw Extruder			
	The barrel and plunger should be heat-treated and has to be operated by compressed air, mold should be user-friendly and easily replaceable. It should be filled by hands with granul powder or to be filed from melt directly from the micro compounder. There should be			
	Parameter	Specifications	l	
	Batch Volume	5.5 ml	1	
	Max Melt temperature	400°C	1	
	Max mold temperature	200°C	1	
	Max Injection pressure at 10 bar	1200 bar	1	
	primary pressure		1	
	Molds	1. Tensile Bar ASTM D638 Type V	1	
		2. Flexural bar ASTM D256	l.	
		3. Rheology Disc: Diameter 20 mm,	1	
		<ul><li>height 1.5 mm</li><li>4. Impact specimen-ASTM D 790</li></ul>	1	
	heating zones with individual temperature control- one should control the barrel and plunger and the other should control the mold temperature. All parameters should be displayed and controlled			
	-	in parameters should be displayed and col	nrolled	
2.	via touch screen integrated to the machine.	<b>F</b> =-4		
۷.	Film Line integrated with Micro Twin Screw	Extruder		
	The cast film die should be preferably of coat-h easy to clean. Two drum winders should control			

	Parameter		Specifications	
	Cast Film Die Slit		*	
	Width		35 mm	
	Thickness		0.1- 1.0 mm	
	Drawing drum speed		100-5000 mm/min	
			(continuously digitally adjustable with	
,			increments of 1 mm/min)	
	<b>Fiber Line integrated with</b>	Micro Ty	win Screw Extruder	
	winding unit should be displ with internal-cooling.	layed at t	e an integrated control touch screen. The speed we the footage of the unit. The godet roll should be	
	Winder Unit Parameter	-	ications	
	Winding Speed	1-200 r (contin	n/min uously digitally adjustable)	
	Winding Torque	0-250 N	Nm	
			uously digitally adjustable)	
		(comm		
		(contin		
	Stuatahing Conditioning			
	Stretching/ Conditioning			
	Parameter		Specifications	
	8		Specifications 1-90 m/min	
	Parameter		Specifications	
	Parameter Winder Godet Speed		Specifications         1-90 m/min         (continuously digitally adjustable with	
	Parameter		Specifications         1-90 m/min         (continuously digitally adjustable with increments of 0.01 mm/min)	
	Parameter Winder Godet Speed	g Unit	Specifications         1-90 m/min         (continuously digitally adjustable with increments of 0.01 mm/min)         0-500 Nm	

A complete set of tender documents\* may be downloaded by prospective bidder free of cost from the website <u>http://eprocure.gov.in/eprocure/app</u>. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) by demand draft in favour of Registrar, IIT Delhi payable at New Delhi.

# **Terms & Conditions Details**

Sl.No.	Specification
1.	<b>Due date</b> : The tender has to be submitted before the due date. The offers received after
	the due date and time will not be considered.
2.	<b>Preparation of Bids</b> : The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given PDF format.
	The Technical bid and the financial bid should be submitted Online.
3.	<b>Opening of the tender</b> : The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with Demand Draft of EMD (Physically) will be opened as mentioned at "Annexure: Schedule" in presence of bidders representative if available, Only one representative will be allowed to participate in the tender opening. Bid received without EMD will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee which will decide the suitability as per our specification and requirement. The financial offer/bid will be opened only for the offer/bid which technically meets all our requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening.
4.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers
	without assigning any reason.
5.	<ul> <li>Pre-qualification criteria:</li> <li>(i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.</li> <li>(ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.</li> <li>(iii) OEM should be internationally reputed Branded Company.</li> <li>(iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.</li> </ul>
6.	<b>Force Majeure:</b> The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
	• For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
	• If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
7.	<b>Risk Purchase Clause</b> : In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other

0	source on the total risk of the supplier under risk purchase clause.
8.	<b>Packing Instructions</b> : Each package will be marked on three sides with proper paint/indelible ink
	the following:
	i. Item Nomenclature
	ii. Order/Contract No.
	iii. Country of Origin of Goods
	iv. Supplier's Name and Address
	v. Consignee details
-	vi. Packing list reference number
9.	Delivery and Documents:
	Delivery of the goods should be made within a maximum of 08 to 16 weeks from the date of placement of purchase order and the opening of LC. Within 24 hours of shipment, the supplier sha notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of the shipment including contract number.
	goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following document
	to the purchaser with a copy to the insurance company:
	1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity
	2. unit price, total amount;
	3. Acknowledgment of receipt of goods from the consignee(s) by the transporter;
	4. Insurance Certificate if applicable;
	5. Manufacturer's/Supplier's warranty certificate;
	6. Inspection Certificate issued by the nominated inspection agency, if any
	7. Supplier's factory inspection report; and
	8. Certificate of Origin (if possible by the beneficiary);
	9. Two copies of the packing list identifying the contents of each package.
	10. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.
10.	
10.	will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.
11	<b>Prices</b> : The price should be quoted in net per unit (after breakup) and must include all packin
11.	and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid b
	the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated.
	The price should be quoted without custom duty and excise duty, since IIT Delhi is exempte
	from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessar
	certificate will be issued on demand.
	In case of import supply the price should be quoted on FOB Basis only. Under specia
	circumstances (eg. perishable chemicals), when the item is imported on CIF, please indicate CI
	charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will make necessar
	arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should
	not include the above charges.
12.	
12.	Supplier.
	Purchaser: Prof. Mangla Joshi,
	Textile Technology Deptt.
	Indian Institute of Technology
	Hauz Khas, New Delhi - 110016.
	······································
	<b>Supplier:</b> (To be filled in by the supplier)

13.	<b>Progress of Supply</b> : Wherever applicable, supplier shall regularly intimate progress of supply, writing, to the Purchaser as under:
	1. Quantity offered for inspection and date;
	2. Quantity accepted/rejected by inspecting agency and date;
	3. Quantity dispatched/delivered to consignees and date;
	<ol> <li>Quantity where incidental services have been satisfactorily completed with date;</li> </ol>
	<ol> <li>Quantity where increasing services have been substated in geomptoted with date;</li> <li>Quantity where rectification/repair/replacement effected/completed on receipt of an communication from consignee/Purchaser with date;</li> </ol>
	<ol> <li>Date of completion of entire Contract including incidental services, if any; and</li> </ol>
	details required may also be specified).
14.	Inspection and Tests: Inspection and tests prior to shipment of Goods and at final acceptance a
	as follows:
	• After the goods are manufactured and assembled, inspection and testing of the goods shall carried out at the supplier's plant by the supplier, prior to shipment to check whether the goo are in conformity with the technical specifications attached to the purchase order of the supplication of the superscriptation of the superscr
	Manufacturer's test certificate with data sheet shall be issued to this effect and submitted alo
	with the delivery documents. The purchaser shall be present at the supplier's premises duri
	such inspection and testing if need is felt. The location where the inspection is required to
	conducted should be clearly indicated. The supplier shall inform the purchaser about the supplier shall inform the purchaser about the supplier shall be as the standard for installation of the second statement of the secon
	preparation, if any, needed for installation of the goods at the purchaser's site at the time submission of order acceptance.
	• The acceptance test will be conducted by the Purchaser, their consultant or other such personal
	nominated by the Purchaser at its option after the equipment is installed at purchaser's site in t
	presence of supplier's representatives. The acceptance will involve trouble free operation a
	ascertaining conformity with the ordered specifications and quality. There shall not be a
	additional charges for carrying out acceptance test. No malfunction, partial or complete failu
	of any part of the equipment is expected to occur. The Supplier shall maintain necessary log
	respect of the result of the test to establish to the entire satisfaction of the Purchaser, t
	successful completion of the test specified.
	• In the event of the ordered item failing to pass the acceptance test, a period not exceeding o weeks will be given to rectify the defects and clear the acceptance test, failing which t Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to t
	Purchaser.
	· · · ·
1.7	shall also be the responsibility and at the cost of the Supplier.
15.	<b>Resolution of Disputes</b> : The dispute resolution mechanism to be applied pursuant shall be
	follows:
	• In case of Dispute or difference arising between the Purchaser and a domestic supplier relating
	any matter arising out of or connected with this agreement, such disputes or difference shall
	settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there und
	and any statutory modifications or re-enactments thereof shall apply to the arbitration proceeding
	The dispute shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he
	unable or unwilling to act, to the sole arbitration of some other person appointed by him willing
	act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive as
	binding on all parties to this order.

	• In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to
	the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United
	Nations Commission on International Trade Law) Arbitration Rules.
	• The venue of the arbitration shall be the place from where the order is issued.
16.	Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA.
17.	Right to Use Defective Goods
	If after delivery, acceptance and installation and within the guarantee and warranty period, the
	operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to
	continue to operate or use such goods until rectifications of defects, errors or omissions by repair or
	by partial or complete replacement is made without interfering with the Purchaser's operation.
18.	Supplier Integrity
	The Supplier is responsible for and obliged to conduct all contracted activities in accordance with
	the Contract using state of the art methods and economic principles and exercising all means
	available to achieve the performance specified in the contract.
19.	Training
	The Supplier is required to provide training on training to the designated Purchaser's technical and
• • •	end user personnel to enable them to effectively operate the total equipment.
20.	
	The supplier is required to done the installation and demonstration of the equipment within one
	month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be
21	the same as per the supply of materials.
21.	<b>Insurance:</b> For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse"
	(final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be
	valid for a period of not less than 3 months after installation and commissioning. <b>In case of orders</b>
	placed on FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on
	CIF/CIP basis, the insurance should be up to IIT Delhi.
22.	
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD
	premises at the cost of Supplier through their Indian representatives.
23.	Warranty: 1. Warranty period shall be 36 months from date of installation of Goods at the IITD
	site of installation. The Supplier shall, in addition, comply with the performance and/or
	consumption guarantees specified under the contract. If for reasons attributable to the Supplier,
	these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such
	changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in
	order to attain the contractual guarantees specified in the Contract at its own cost and expense and to
	carry out further performance tests. <b>The warranty should be comprehensive on site.</b>
	Note: If a different period of warranty has been specified in the 'Technical Specifications' then the
	period mentioned above shall stand modified to that extent.
	2. The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to
	repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The
	Supplier shall take over the replaced parts/goods at the time of their replacement. No claim
	whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for
	correction of defects in the warranty period is 02 days. If the supplier having been notified fails to
	- concerton or dereets in the martiney period to 02 days. If the supplier having been notified fails to -
	remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the

	purchaser may have against the supplier under the contract.
24.	Governing Language
	The contract shall be written in English language. English language version of the Contract shall
	govern its interpretation. All correspondence and other documents pertaining to the Contract, which
	are exchanged by the parties, shall be written in the same language.
25.	Applicable Law
	The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes
	shall be subject to place of jurisdiction.
26.	Notices
	• Any notice given by one party to the other pursuant to this contract/order shall be sent to
	the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the
	other party's address.
	• A notice shall be effective when delivered or on the notice's effective date, whichever is
	later.
27.	Taxes and Duties
	Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc.,
	incurred until delivery of the contracted Goods to the Purchaser. However, VAT in respect of the
	transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the
	order.
28.	Agency Commission: Agency commission if any will be paid to the Indian agent in Rupees on
	receipt of the equipment and after satisfactory installation. Agency Commission will not be paid
	in foreign currency under any circumstances. The details should be explicitly shown in Tender
	even in case of Nil commission. The tenderer should indicate the percentage of agency
	commission to be paid to the Indian agent.
29.	
	will be established in the favour of foreign Supplier after the submission of performance security.
	The letter of credit (LC) will be established on the exchange rates as applicable on the date of
	establishment.
	• For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery,
	inspection, successful installation, commissioning and acceptance of the equipment at IITD in
	good condition and to the entire satisfaction of the Purchaser and on production of unconditional
	performance bank guarantee as specified in Clause 9 of tender terms and conditions.
	• For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be
	released on presentation of complete and clear shipping documents and 20% of the LC amount
	shall be released after the installation and demonstration of the equipment at the INST site of
	installation in faultless working condition for period of 60 days from the date of the satisfactory
	installation and subject to the production of unconditional performance bank guarantee as
	specified in Clause 9 of tender terms and conditions.
	• Indian Agency commission (IAC), if any shall be paid after satisfactory installation &
	commissioning of the goods at the destination at the exchange rate prevailing on the date of
	negotiation of LC documents, subject to DGS&D registration for restricted items.
	• All the bank charges within India will be borne by the Institute and outside India will be borne
	by the Supplier.
30.	User list: Brochure detailing technical specifications and performance, list of industrial and
	educational establishments where the items enquired have been supplied must be provided.
31.	Manuals and Drawings
	• Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to
	operation and maintenance manuals. These shall be in such details as will enable the Purchaser to

	operate, maintain, adjust and repair all parts of the works as stated in the specifications.
	• The Manuals shall be in the ruling language (English) in such form and numbers as stated in
	the contract.
	• Unless and otherwise agreed, the goods equipment shall not be considered to be completed for
	the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
32.	Application Specialist: The Tenderer should mention in the Techno-Commercial bid the
	availability and names of Application Specialist and Service Engineers in the nearest regional
	office.
33.	Site Preparation: The supplier shall inform to the Institute about the site preparation, if any,
	needed for the installation of equipment, immediately after the receipt of the purchase order. The
	supplier must provide complete details regarding space and all the other infrastructural
	requirements needed for the equipment, which the Institute should arrange before the arrival of
	the equipment to ensure its timely installation and smooth operation thereafter.
	The supplier shall visit the Institute and see the site where the equipment is to be installed and
	may offer his advice and render assistance to the Institute in the preparation of the site and other
34.	pre-installation requirements. <b>Installation</b> : The equipment or machinery has to be installed or commissioned by the successful
54.	bidder within 30 days from the date of receipt of the item at IITD. In case of any
	mishappening/damage to equipment and supplies during the carriage of supplies from the origin
	of equipment to the installation site, the supplier has to replace it with new equipment/supplies
	immediately at his own risk. Supplier will settle his claim with the insurance company as per his
	convenience. IITD will not be liable to any type of losses in any form.
35.	I Contraction of the second seco
	The Supplier may be required to provide any or all of the following materials, notifications, and
	information pertaining to spare parts manufactured or distributed by the Supplier:
	i. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this
	election shall not relieve the Supplier of any warranty obligations under the Contract; and
	ii. In the event of termination of production of the spare parts:
	iii. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
	iv. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings
	and specifications of the spare parts, if requested.
	Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the
	Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be
	supplied as promptly as possible but in any case within six months of placement of order.
36.	
	substandard, refurbished, un-merchantable or not in accordance with the description/specification
	or otherwise faulty, the committee will have the right to reject the equipment or its part. The
	prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments
	for such equipment have already been made. All damaged or unapproved goods shall be returned
	at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the
	supplier. Defective part in equipment, if found before installation and/or during warranty period,
	shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of
	supplier including all other charges. In case supplier fails to replace above item as per above terms
37.	& conditions, IIT Delhi may consider "Banning" the supplier. Termination for Default
57.	The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice
	of default sent to the Supplier, terminate the Contract in whole or part:
1	or derault sent to the supplier, terminate the Contract in whole of part.

	<ul> <li>i. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or</li> <li>ii If the Supplier fails to perform any other obligation(s) under the Contract.</li> <li>iii If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.</li> </ul>
	<ul> <li>For the purpose of this Clause:         <ol> <li>"Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.</li> </ol> </li> </ul>
	ii. " <b>Fraudulent practice</b> " means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;"
	• In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.
38.	Shifting: After 3-4 years once our new building is ready, the supplier has to shift and reinstall the
39.	instrument free of cost. Warranty/Guarantee: The warranty period should be clearly mentioned. The maintenance
	charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The tender must be quoted with three (03) years on-site comprehensive warranty/guarantee which will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will not be included in computing the total cost of the equipment.
40.	<b>Downtime:</b> During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.
41.	<b>Training of Personnel:</b> The supplier shall be required to undertake to provide the technical
	training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.
42.	Disputes and Jurisdiction: Any legal disputes arising out of any breach of contract pertaining to
42	this tender shall be settled in the court of competent jurisdiction located within New Delhi.
43.	<b>Compliancy certificate</b> : This certificate must be provided indicating conformity to the technical specifications.
44.	Acknowledgement: It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.
L	mentioned doore und ne upre to upde of them.

## **COMPLIANCE SHEET**

#### **TECHNICAL SPECIFICATION**

Sl. No.	Technical Sp	pecifications			Compliance			
					Y/N			
1.	Micro Twin	Screw Compounder						
	Design Features:							
	rotating detail coated to mil chemical resishould be ab screws should temperature 2 x 3 indeper method of rh melt viscositi integrated by Facility for n software to c processing ru housing allo	chable extruder screws. inimize wear-and-tear. istance up to 4000C an orasion resistant to ceran ld be such that it enal measurement endent heating zones in eological measurement ty, shear rate, shear stree pass valve to enable re- itrogen purging should be ontrol the instrument pa un. Control Panel shoul wing software control a	th an extruder type - double conical of The barrel should be specially heat-tr The screw should be surface-hardened ad between pH 0-14. The barrel and nic materials and nanofillers. The dest bles easy mounting and quick clean in the main the main barrel. The system should where acquisition of data (screw torque ess) should be included. It should also circulation of the melt via the backflow be there. The system should come with rameters and to acquire data to fully and d be touch screen integrated with the and data acquisition. The display sho e. All necessary spares and parts to be of	reated and ed having the screw sign of the ning. Melt barrel. include a ue in melt, o have an w channel. dedicated nalyze the e machine buld show				
	Safety Featur	res:						
	1. Mech	nanical and electronic sat	fety to be provided for torque overload	ing.				
	2. A saf	fety switch which can sto	op the machine anytime.					
	3. Over	load recognition during	start-off phase and work with safety cu	ıt-off.				
	Technical Sp	ecifications:						
	[	Parameter	Specifications	-				
		Batch Volume	Min 5 ml Max 15 ml					
		Maximum	400 <sup>°</sup> C	-				
		Temperature Screw Speed	1-250 rpm	-				
		Torque	0- 5 Nm/Screw	ŀ				
		Pressure	0-200 bar	F				
		Feeding	Manual/Pneumatic					
		Cooling	Air/Water					

Sl. No.	List of desirable Accessories						
			Y/N				
1.	Injection Moulding Machine integrated with Micro Twin Screw Extruder						
	The barrel and plunger should be heat-treated and has to be operated by						
		e user-friendly and easily replaceable. It					
	1	iles or powder or to be filed from melt					
		There should be two heating zones with					
		ould control the barrel and plunger and the					
	_	ature. All parameters should be displayed					
	and controlled via touch screen integrat	ed to the machine.					
	Parameter	Specifications					
	Batch Volume	5.5 ml					
	Max Melt temperature	400°C					
	Max mold temperature	200°C					
	Max Injection pressure at 10 bar primary pressure	r 1200 bar					
	Molds	5. Tensile Bar ASTM D638 Type V					
		6. Flexural bar ASTM D256					
		7. Rheology Disc: Diameter 20 mm,					
		height 1.5 mm					
		8. Impact specimen-ASTM D 790					
2.	Film Line integrated with Micro Twin Screw Extruder						
	The cast film die should be preferably of coat-hanger type design and completely						
	demountable, easy to clean. Two drum winders should control the distance to the						
	cast film die and the distance between the two drum winders. The system should						
	have an integrated touch screen control where the speed value and torque value						
	should be displayed. There should be provision of internal cooling on drum or						
	continuous chill roll system.						
	Parameter	Specifications					
	Cast Film Die Slit	*					
	Width	35 mm					
		0.1- 1.0 mm					
	E I	100-5000 mm/min					
		(continuously digitally adjustable with					
3.	increments of 1 mm/min)           Fiber Line integrated with Mione Twin Sereny Extender						
5.	Fiber Line integrated with Micro Twin Screw Extruder						
	The fiber line should consist of two independent units- winding unit and						
	conditioning unit. Both units should have integrated controlled touch screen. The						
	winding unit should allow for high speed drawing and winding of monofilament						
	fibers from the micro compounder. The separate conditioning unit should allow						
	multiple conditioning possibilities of the monofilaments and multi-filaments. Both units should have an integrated control touch screen. The speed value of the						
	Both units should have an integrated co	ontroi touch screen. The speed value of the					

Winder Unit Parameter Winding Speed		Specifications		Compliance Y/N
		1-200 m/min (continuously digitally adju		
Winding Torque		0-250 Nm (continuously digitally adju	ustable)	
with increaseWinding Torque0-500 Nn		ations		pliance {/N
		nin ously digitally adjustable rements of 0.01 mm/min)		
		m ously digitally adjustable)		
Temperature	20- 300°	С		

## Signature of Bidder

Name	:	

Designation : \_\_\_\_\_

Organization Name : \_\_\_\_\_

Contact No. : \_\_\_\_\_

#### << Organization Letter Head >> DECLARATION SHEET

We, \_\_\_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We, further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document.

The prices quoted in the financial bids are subsidized due to academic discount given to IIT Delhi.

We, further specifically certify that our	NAME & ADDRESS OF
organization has not been Black Listed/De	THE Vendor/ Manufacturer / Agent
Listed or put to any Holiday by any	
Institutional Agency/ Govt. Department/	
Public Sector Undertaking in the last three	
years.	
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	

(Signature of the Tenderer)

Name :

Seal of the Company

## **Bid Submission**

## i. <u>Online Bid Submission :</u>

The Online bids (complete in all respect) must be uploaded online in **Two** Envelops as explained below :-

	<b>Envelope – 1</b> (Following documents to be provided as single PDF file)							
Sl. No.	Documents	Content	File Types					
1.	Technical Bid	Compliance Sheet as per Annexure – I	.PDF					
2.		Organization Declaration Sheet as per Annexure - II	.PDF					
3.			.PDF					
4.			.PDF					
		Envelope – 2						
Sl. No.	TYPES	Content						
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF					

# <Department/Centre Name> Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

# Date :XX/XX/XXXX

# Subject : Purchase of <Item>

S. No.	Currency	Description of Item & Specification	Qty. in Units	Unit Price (a)	Agency Commission (b)	Discount (c)	Ex-works price (d=a+b-c)	Packing + Handling + DOC + Inland Frieght (e)	FOB Price (f=d+e)	Insurance + Frieght (g)	CIF Price (f+g)
1											

#### For indigenous items please quote as per following format.

S. No.	Description of Item &	Qty. in Units	Unit Price in	Excise Duty %	CST/VAT%	Octroi%	Total Price in
	Specification		Rs.				Rs.
1.							
2.							