



भारतीय पैकेजिंग संस्थान
Indian Institute of Packaging

An autonomous body under the Ministry of Commerce & Industry, Govt. of India
E-2, Road No. 8, MIDC Area, Andheri East, Post Box No. 9432, Mumbai-400093, INDIA
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Notice No: IIP/ADMN/2017-18

09th October, 2017

Tender Notice No. 10/2017 Dated 09th October, 2017

**Notice Inviting Tender for Supply, Installation & Commissioning of Equipments
for Chemical Engineering Laboratory**

Indian Institute of Packaging (IIP) an autonomous body under Ministry of Commerce & Industry, Government of India, invites online Bids (Technical bid and Commercial bid) through eProcurement from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for supply, installation & commissioning of above mentioned item.

The details of the tender can also be down loaded from our web-site www.iip-in.com.

Important information

1	Location of Supply	Indian Institute of Packaging, E-2; Road No. 8; Near Marol Depot MIDC; Andheri east; Mumbai - 400093
2	Estimated Time of Supply	One Month
3	Tender Document Fees	Nil
4	Earnest Money Deposit (EMD)	Nil
5	Date of Publishing Tender Online	11-10-2017
6	Last Date of Submission of Bid (Online)	31-10-2017 till 05:00 pm IST
4	Date of opening of technical bid	02-11-2017
5	Clarification needed on bidding document may be inquired through mail	Dr. Badal Devangan / Dr. Amit Singla, Joint Director Education /R & D Wing; IIP Mumbai E-mail id: tneiip1@iip-in.com ; iipic@iip-in.com
6	Validity of Bids	180 days

The screening committee will shortlist the vendor /s based on the documents submitted by them. The committee reserves all the rights of selection/rejection.

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Deputy Director (Admin & Accounts)

I. CHEMICAL ENGINEERING LABORATORY

Sr. No.	Item Name	Specifications
1.	Continuous Stirred Tank Reactor with Hot Water Circulator (Only Service Bench)	<ul style="list-style-type: none"> • The Chemical Reactor Service Unit should be supplied a self contained bench top service unit designed to accommodate three different chemical reactors: • This attachment should be a small scale continuous stirred tank reactor with an adjustable volume of 0.4 - 1.5 litres. • The vessel should be equipped with a variable speed square blade turbine agitator with a speed range 0-230rpm. • The vessel should be constructed from borosilicate glass and PVC with stainless steel heat transfer coil and removable baffle. • Glands should be mounted in the lid for fitting of appropriate sensors. • The vessel should be mounted on a PVC baseplate which fits directly onto the service unit. <p><u>Experiment Capabilities:</u></p> <ul style="list-style-type: none"> • Determination of reaction rate constant • Effect of temperature and mixing efficiency on reaction kinetics • Evaluation of empirical rate expressions from experimental data • Variation of conversion with residence time • Residence time distribution
2.	Stirred Tank Reactor in Series	<ul style="list-style-type: none"> • A self-contained bench mounted small scale unit fitted with three continuous stirred reactors in series which should be fed from two 5 litre tanks. • There are two independent, variable speed feed pumps. • A dead-time residence coil can also be attached to the exit of the last reactor in the series. • Educational Software and Data Logging Package <p><u>Demonstration capabilities:</u></p> <ul style="list-style-type: none"> • Investigation of dynamic behaviour of stirred tank reactors in series • Influence of flow rate and step input change • Investigation of chemical reaction in a three tank system • Investigation of time constant using a dead-time coil <p><u>Experiment Capabilities:</u></p> <ul style="list-style-type: none"> • Effect of step input change • Influence of flow rate • Investigation of chemical reaction in a three tank system • Investigation of dynamic behaviour of stirred tank reactors in series • Investigation of time constant using 'dead time' coil • Response to an impulse change
3.	Batch Reactor with Chilled Water Circulator (Only Service Bench)	<ul style="list-style-type: none"> • A small scale batch reactor (1 litre working volume) designed to demonstrate both adiabatic and isothermal operation (isothermal operation requires an additional chiller unit). • The unit is vacuum insulated and equipped with a variable speed agitator, heat transfer coil, temperature and conductivity sensors. • The unit has a stainless steel casing and is mounted on a PVC baseplate which

Sr. No.	Item Name	Specifications
		<p>itself fits onto the service unit.</p> <p>Experiment Capabilities:</p> <ul style="list-style-type: none"> • Effect of temperature on reaction kinetics • Determination of the rate equation and activation energy through mass and energy balances • Determination of the rate equation and activation energy through mass and energy balances
4.	Plug Flow Reactor	<ul style="list-style-type: none"> • A small scale plug flow reactor for use with the Chemical Reactors Service Unit, designed to demonstrate both flow pattern characterisation and steady state conversion in a packed tubular reactor with axial dispersion • The reactor column should be 1000 mm long approx., with a 1 litre working volume. It is packed with 3 mm diameter glass beads • A feed assembly is supplied with the reactor which consists of a 6- port injection valve mounted on a base plate and a feed vessel assembly with heat exchangers for cooling for use with the Chemical Reactors Service Unit and Chilled Water Circulation Unit • The reactor assembly is mounted on a painted frame and includes a sensor block for the conductivity and temperature sensors from the Chemical Reactors Service Unit • Can perform flow visualization where the progress of the reaction can be monitored visually using colour • Can also perform true reactions where the progress of the reaction is recorded using the Service Unit conductivity sensor and compared with the theory <p>Demonstration capabilities include:</p> <ul style="list-style-type: none"> • Flow pattern characterisation in a packed Plug Flow reactor with axial dispersion • Steady state conversion for a chemical reaction in a packed reactor • Understanding the principles of tracer techniques in flow pattern characterisation • Visual monitoring of the tracer and conversion experiments using colour • Determination of the residence time distribution of the reactor • Study of the reactor response to different perturbations: step and pulse change • Effect of flow rate and feed concentration on the determination of flow pattern • Demonstration of the flow pattern in the reactor and comparison with the theoretical model • Determination of the steady state conversion of a second order reaction • Effect of flow rate and feed concentration on the steady state conversion • Visual demonstration of the reactor response with tracer techniques • Visual monitoring of the steady state conversion for a chemical reaction
5.	Plate & Frame Filter Press	<ul style="list-style-type: none"> • This trainer is a fully self-contained plate and frame type filter press constructed entirely in stainless steel.

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		<ul style="list-style-type: none"> • A centrifugal pump is mounted integrally in the framework and is connected to the filter inlet via a throttle valve and pressure gauge. • The filter pack is made up of four plates and four frames which will accept a dressing of seven filter sheets 200mm x 200mm. • The filter pack and sheets is compressed manually using a hardened steel screw thread. Filter surface is 0.22m² and solids holding capacity is 1.5 litres. • A back pressure valve is located at the filter outlet <p>FEED/CIRCULATING PUMP</p> <ul style="list-style-type: none"> • Centrifugal pump of all stainless steel construction with polished internals. • Maximum flow rate: 18.0 litres/min • Maximum head: 2.0 bar • Motor: 0.25kW, 2800 rpm
6.	Fixed Bed Adsorption Unit	<ul style="list-style-type: none"> • A bench top unit comprising a vacuum formed ABS plastic plinth with integral electrical console onto which should be mounted the stainless steel, packed fixed bed adsorption column, hot water circulation system and infrared detector. • The hot water circulator system connected to the column jacket allows automatic control of temperature adsorption to a set point value. • Gas feed flow rate should be controlled b/w 0 and 5 l/min. • The Bed Adsorption column has the following specifications: <ul style="list-style-type: none"> - Height 325 mm, diameter 58 mm - Stainless steel jacket for temperature control - Gas distribution plate at entry to column - Bed of glass beads for good Gas distribution & maintenance of steady-state temperature - Six thermocouples spaced evenly along the length of the column • All electrical circuits should be protected by appropriate safety devices. • The control console incorporates an electronic display: PID controller display, including the set-point temperature. • USB interface and sophisticated data logging software should be supplied <p><u>Technical Specifications:</u></p> <ul style="list-style-type: none"> • Operation pressure: 0-0.5 bars • Gas flow rates: 0 < 5 SLPM (He) 0 < 1 SLPM (CO₂) • Column capacity: 480 cm³ • Gases: CO₂, He • Relief valve pressure: 20 psi • Column operating temperature: 25 – 45 °C <p><u>Detail Experimental Capabilities:</u></p> <ul style="list-style-type: none"> • Teaching exercises should be included to familiarize students with the following aspects of a relevant technology: • Study of the Adsorption/Desorption processes under different operational conditions: temperature, flow rates, molar fraction and pressure • Study of the breakthrough curves of temperature profiles during the

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		adsorption/desorption process <ul style="list-style-type: none"> • Study of the quasi-isothermal regime at low concentrations and pressures and how these variables should affect it • Study of the Solute Movement Theory model which describes the adsorption/desorption process • Familiarization with the formation of the compressive and dispersive fronts in adsorption processes • Analysis of the breakthrough curves of CO₂ during the adsorption and desorption/regeneration processes • Obtain the adsorption equilibrium isotherm of CO₂ from the desorption curve (dispersive wave)
7.	Bernoulli's Theorem Experimental Set-up	Purpose: To verify Bernoulli's Theorem experimentally. <ul style="list-style-type: none"> • Test Section: Material Acrylic, Size • Inlet Tank: Capacity 20 Liters., Stainless Steel • Supply Tank: Capacity 70 Liters., Stainless Steel • Measuring Tank: Capacity 20 Ltrs. Fitted with Piezometer Tube & Scale • Piezometer Tubes: Material P.U. Tubes (9 Nos.) • Pump: FHP Capacity • Piping: GI / PVC Size BSP • Stop Watch: Electronic The experimental set-up should have: <ul style="list-style-type: none"> • Clear test section • Closed loop water circulation • Compact & stand alone setup • Stainless Steel tanks and wetted parts • Superb Painted structure • Simple to operate & maintain • Excellent design
8.	Flow Measurement Experiment Set-up	<ol style="list-style-type: none"> 1. Open Flow channel: 1000 x 250 mm 2. Rectangular Notch: 80 mm (Brass) 3. Triangular Notch: 600 (Brass) 4. Flow control valve to change Discharge. 5. Transparent pizometer tubes with scale to measure head and measuring tank discharge. 6. Measuring tank: 295 x 345 x 345 mm 7. Sump tank: 900 x 350 x 350 mm 8. Usha or Crompton Greaves motor for recalculating type unit: 0.5 H.P. Self Priming 9. Stop watch: Electronic
9.	Multi-stage Centrifugal Pump Test Set-up	Purpose: To study the performance of multi-stage centrifugal pump. The experimental set-up should consist of: <ol style="list-style-type: none"> 1. Centrifugal Pumps (02 Nos.): Kirloskar make; Capacity: 1 H.P.; Speed: 3000 rpm; Head: 12 m 2. Drive: DC drive along with non-contact type digital rpm indicator 3. Supply Tank: S.S; Capacity: 150 ltr

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		4. Measuring Tank: S.S.; Capacity: 100 ltr; fitted with piezometer tube & scale 5. Piping: MS / UPVC 6. Control Panel: PLC controlled 7. Water flow energy meter for measuring the discharge 8. Stop watch: Electronic 9. Closed circuit type with S.S. tanks, ISI mark pump and motors, anti-corrosive powder coated. 10. Vacuum gauge on suction pipe and a pressure gauge on discharge pipe. 11. Gate valve to adjust the head on the pump.
10.	Boundary Layer Apparatus	Purpose: To study the boundary layer thickness on a flat plate with flow along the plate The apparatus should consist of: <u>Two plates with scale and with different surface roughnesses:</u> <ul style="list-style-type: none"> • aluminium, anodized black • L x W: 250 x 279 mm, Thickness: 3 mm • Chamfer: 15° • Smooth Surface: 25µm • Rough Surface: 400µm • Horizontal Adjustment: 180 mm <u>Pitot tube</u> (for measuring the total pressure at the plate): <ul style="list-style-type: none"> • Inner diameter: 0.7 mm • Vertical adjustment: 25mm <u>Micrometer screw</u> <ul style="list-style-type: none"> • Resolution: 0.01 mm <u>Other Requirements:</u> To be supplied with a comprehensive User Guide Three-year warranty Additional measuring point for measuring the static pressure
11.	Losses due to Pipe Friction – Experimental Set-up	Purpose: To determine major flow losses in Pipes due to friction (Friction factor by Darcy –Weisbach equation). The apparatus should consist of : <ol style="list-style-type: none"> 1. Piping of diameter ½" 2. Block Type Acrylic Differential Manometer (250-0-250 mm) 3. Flow control valve to change Discharge. 4. Length of pipe between two pressure tapings: 1 mtr. 5. Transparent piezometer tube with scale to measure measuring tank discharge. 6. Measuring tank: 295 x 345 x 345 mm 7. Sump tank: 900 x 350 x 350 mm 8. Usha or Crompton Greaves motor - 0.5 H.P. (Self Priming) 9. Stop watch: Electronic

Instructions for Online Bid Submission

As per the directives of Department of Expenditure, the tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>). 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 useful information 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:<http://eprocure.gov.in/eprocure/app>) 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 user ID/ password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS:

1. 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 “on-line” to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS.
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 colored (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.
9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

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 <http://eprocure.gov.in/eprocure/app>. 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/e-token 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>.

Terms and Conditions

S. No.	Specification
1.	Due date: The tender has to be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered
2.	Preparation of Bids: 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.	EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful bidders after the award of contract. Refer to Schedule (at page 1 of this document) for its actual place of submission.
4.	Refund of EMD: The EMD will be returned to unsuccessful Tenderer only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.
5.	Opening of the tender: The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened in presence of bidders representative if available. Only one representative will be allowed to participate in the tender opening. Bid received without EMD (if present) will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for further

	<p>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.</p>
6.	<p>Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without assigning any reason</p>
7.	<p>Pre-qualification criteria:</p> <p>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.</p> <p>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. (Ref. Annexure-II)</p> <p>OEM should be internationally reputed Branded Company.</p> <p>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.</p> <p>In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.</p> <p>If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.</p>
8.	<p>Payment:</p> <p>For Indigenous Supplies:</p> <p>Payment for the equipment or for each delivery will be made to the Supplier on submission of bills in accordance with the laid down procedure, as detailed below:-</p> <p>85% payment will be released on delivery and satisfactory installation, commissioning and performance of the equipment.</p> <p>The supplier furnishes the following certificate:</p> <p>I / We have personally examined and verified and do hereby certify that the goods in Respect of which the payment is being claimed have been actually dispatched by me us. Under RR No./ B/L No. / Air Consignment Note No. Postal Receipt datedDrawn in favor of the Purchaser which is genuine and mentioned in the Bills and that I/We hold myself / ourselves personally responsible for the correctness of this statement.</p> <p>I/We further certify that the above mentioned RR No. / Air Consignment Note No. datedhas been forwarded to the consignee mentioned in the contract under registered post acknowledgement due on.</p> <p>The above certificate is to be signed by a duly authorized person of the firm and he should be the same as signing the bill. His designation and name of the firm on whose behalf he has signed the bill is required to be indicated below his dated signature.</p> <p>Fifteen percent (15%) of the balance payment will be released within one month against Bank Guarantee for warrantee period of 36 months.</p>

	<p>In addition to his other remedies under the law and these condition, the purchaser shall have a lien on each consignment in respect of which 85% payment has been made to secured repayment on these amount and recovery of any some due from the supplier, should the equipment not be taken over.</p> <p>For Imported Items:</p> <table border="1" data-bbox="300 405 1406 842"> <thead> <tr> <th data-bbox="300 405 871 501">Procured through authorized agent of Principal Company outside India</th> <th data-bbox="871 405 1406 501">Procured through authorized agent of Principal Company in India</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 501 871 577">LC will be opened for 85% of CIF Value</td> <td data-bbox="871 501 1406 577">LC will be opened for 100% of CIF Value</td> </tr> <tr> <td data-bbox="300 577 871 654">85% Through LC</td> <td data-bbox="871 577 1406 654">85% will be released on dispatch of material in safe on condition.</td> </tr> <tr> <td data-bbox="300 654 871 842">15% (in Indian Rupees) to the agent on satisfactory installation and commissioning of the equipment and submission of bank guarantee for warranty period of 36 months.</td> <td data-bbox="871 654 1406 842">15% will be released to the agent on satisfactory installation and Commissioning of the equipment and submission of bank guarantee for warranty period of 36 months.</td> </tr> </tbody> </table>	Procured through authorized agent of Principal Company outside India	Procured through authorized agent of Principal Company in India	LC will be opened for 85% of CIF Value	LC will be opened for 100% of CIF Value	85% Through LC	85% will be released on dispatch of material in safe on condition.	15% (in Indian Rupees) to the agent on satisfactory installation and commissioning of the equipment and submission of bank guarantee for warranty period of 36 months.	15% will be released to the agent on satisfactory installation and Commissioning of the equipment and submission of bank guarantee for warranty period of 36 months.
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9.	<p>Performance Security: The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC and should be kept valid for a period of 60 days beyond the date of completion of warranty period.</p>								
10.	<p>Delivery Period:</p> <p>Delivery of the goods should be made within a maximum of one month from the date of placement of purchase order or the opening of LC.</p>								
11.	<p>Delayed delivery: If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.</p>								
12.	<p>Prices: The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated.</p> <p>In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only.</p>								
13.	<p>Training:</p> <p>The Supplier is required to provide training to the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.</p>								
14.	<p>Installation & Demonstration:</p> <p>The supplier is required to done the installation and demonstration of the equipment immediately within the arrival of materials at the Indian Institute of Packaging (IIP), site of installation; otherwise the penalty clause will be the same as per the supply of materials.</p> <p>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</p>								

	settle his claim with the insurance company as per his convenience. IIP will not be liable to any type of losses in any form.
15.	<p>Warranty:</p> <p>Warranty period of THIRTY SIX calendar months from date of installation of Goods at the IIP site including supply of spare parts during the warranty period.</p> <p>Performance Guarantee clause: Successful bidder shall furnish an unconditional performance Bank guarantee @ 15% (or higher if decided) of the order value valid for thirty six months within 15 days after placement of the order.</p> <p>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 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.</p> <p>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 comprehensive warranty 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.</p> <p>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.</p>
16.	<p>Taxes:</p> <p>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, GST in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.</p>
17.	<p>Manuals and Drawings:</p> <p>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 operate, maintain, adjust and repair all parts of the works as stated in the specifications.</p> <p>The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.</p> <p>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.</p>
18.	<p>Application Specialist:</p> <p>The Tenderer should mention in the Techno-Commercial bid the availability and names of Application Specialist and Service Engineers in the nearest regional office.</p>

	(Ref. to Annexure-III)
19.	Training of Personnel: 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.
20.	Disputes and Jurisdiction: Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within Mumbai.
21.	Compliance certificate: This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)

<<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. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent
1. Phone No. (Landline)	
2. E-mail Id	
3. Contact Person Name	
4. Mobile No.	
5. GST Number	
6 TIN / VAT Number	
7 PAN Number	
8. In case of payment of Tender Fees Mode: Online /Offline UTR No. & Date (if Online payment)	
9. In case of payment of EMD Mode: Online / DD UTR No. & Date (if Online payment) In Case of DD a) Issuing Bank Details b) DD No. & date	

(Signature of the Tenderer)

Name:
Seal of the Company

Bid Submission

Online Bid Submission:

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

Envelope – 1			
(Following documents to be provided as single PDF file)			
Sl. No.	Document	Content	File Types
1.	Technical Bid	Compliance Sheet as per Annexure – I (With Supporting Documents)	.PDF
2.		Organization Declaration Sheet with supporting documents as per Annexure - II	.PDF
3.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF
4.		Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)	.PDF
Envelope – 2			
Sl. No.	Document	Content	File Type
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF

Tender Inviting Authority: Deputy Director, Admin & Accounts, Indian Institute of Packaging, Mumbai

NIT No.:

Name of Vender:

A. For Import items please quote as per following format

S. No.	Description and Specification of the Item	Quoted Currency	Unit Price (A)	Quantity (B)	Total Price C = (A) x (B)	Discount (D)	Total Ex-works Price after Discount E = (C - D)	Packing + Handling + Freight and Insurance & FCA/FOB Charges (F)	Insurance, freight charges / CIP/CIF Charges (G)	Custom Clearance, Airport Charge, Transportation Charges & Insurance Charges upto IIP, Mumbai (H)	Grand Total FOR IIP, Mumbai, Price (I) = (E+F+G+H)

* Note:- Agency Commission, if any, payable in Indian rupees should be mentioned separately = Rs.

B. For indigenous items in INR currency please quote as per following format

S. No.	Description and Specification of the Item	Quoted Currency	Unit Price (A)	Quantity (B)	Total Price C = (A) x (B)	Discount (D)	Total Ex-works Price after Discount E = (C - D)	GST % (F)	G. Total FOR IIP, Mumbai, Price (G) = (E+F)

- Note:**
- The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender.
 - Also submit scanned copy in PDF format having clearly mentioned AMC charges and any other taxes/charges etc. alongwith above Financial bid and upload the same in a single **PDF sheet**.