

Ahmedabad University

Procurement of Resin Infusion Kit

Vendor Technical Pre-Qualification

Sr No.	Criteria
1	Bidder must have a minimum of more than 05 years of experience in the supply of related products within the respective industry.
2	Should have installed at least 25 machines at different educational / private / public institutions and organizations.
3	Authorized dealer/distributor certification from original equipment manufacturers.
4	Bidder/authorized dealers' OEM must be capable of providing supply, servicing, spare parts, technical assistance, and training, along with periodic technical updates, for a minimum of 5 years after the machine's supply.
5	The warranty period should be clearly 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. Annual maintenance charge (AMC) post-warranty period should be specified.

Technical Specifications

AURIS Requisition Number: 3053

Machine Type: Resin Infusion Kit

Quantity: One (01)

Technical Criteria: The technical evaluation of all the proposals will be done in the following parameters:

The resin infusion kit should comprise the following sub-components, features, and should be capable of performing Vacuum-assisted Resin Transfer Molding (VaRTM) as applicable to composites manufacturing using the Resin Infusion Kit.

1. The system must have a provision for vacuum application.
2. A suitable resin transfer unit.
3. Capable of working with polyester and vinyl ester resin systems with glass, carbon and other fibers as reinforcement.
4. Catalyst pumps should work on a positive feed system, allowing for the adjustment of the catalyst/hardener to resin ratio.
5. Suitable arrangement and port with provision for solvent flushing.
6. Suitable arrangement and port with provision for air purge for cleaning purposes.
7. Applicable air pressure > 8 bar.

8. Resin output > 1.5 liter/min.
9. The equipment should be double stroke.
10. Volume per stroke > 150 cc.
11. The pressure ratio should be: 11:01.
12. Catalyst ratio: 1% to 3%.
13. Recirculation should be independent and complete for all operations.
14. Equipment should be provided with a head with static mixer.
15. The stroking counter should be an integral part of the equipment
16. The control of the panel should be based on Ball values.
17. Should have provision of mould back pressure control and adjustment.
18. A vacuum pump of suitable rating but not less than,
 - i. Normal pumping > 15 cu.m / hr
 - ii. Speed at 50 Hz AC > 250 lpm (liter per min.)
 - iii. With a suitable catch pot of > 5 kg, it is to be supplied.
19. All necessary utilities and auxiliary equipment required to run/operate the equipment must be supplied as part of this quotation.
20. Information to be provided by Vendor: The vendor will specify all requirements for the installation, commissioning, and operation of the equipment.
21. Installation:
 - i. On-site installation and commissioning by experienced engineers at Ahmedabad University, Ahmedabad.
 - ii. Training for operation and maintenance at Ahmedabad University, Ahmedabad along with an operations and maintenance manual.
 - iii. A list of items to be supplied along with the equipment is specified in the following Table 1.

Sr No.	Description	Qty
1	Resin Infusion Kit	1
2	Vacuum Station	1
3	Flat surface mold: 5mm thickness with additional plates to vary part thickness	1
4	Vacuum probe	2
5	Brass tube connector for resin and vacuum connections	2
6	Internal line connectors	2
7	Internal cross connectors	2
8	T – connector	50
9	PU Tube (in meters)	20 m
10	Catch pot: minimum 1 kg	1
11	Scissors (Aramid)	1
12	Scissors (Carbon)	1
13	Wax Fillet stick set (3 to 10 mm)	1
14	Barrier Gown	10
15	Steel resin mixer	1

Terms & Conditions

1. General Overview

This document outlines the terms and conditions (T&Cs) that apply to the procurement of Resin Infusion Kit , which will be provided as part of this tender. All prospective suppliers must adhere to these T&Cs to participate in the tender process.

2. Submission Guidelines

- i) **Submission Deadline:** Bids must be submitted no later than 21 days from publication on the Ahmedabad University Portal. Late submissions will not be accepted.
- ii) **Submission Format:** All tender submissions must be made through a sealed copy to the Procurement Office, Ahmedabad University, Gate No. 2, Commerce Six Roads, Navrangpura, Ahmedabad – 380009.
- iii) **Tender Validity:** The tender must remain valid for a minimum of 60 days from the submission deadline.

3. Technical Specifications

- i) **Product Requirements:** Tenderers must provide a Resin Infusion Kit that meets the specified technical and performance criteria outlined in Technical Specifications Sheet (attached technical specification).
- ii) The Supplier is responsible for ensuring that all equipment and material are delivered in full working order and meet the specified technical requirements.
- iii) The Supplier shall also provide any necessary training, documentation, or additional services as stipulated in the tender.

4. Pricing and Payment Terms

- i) **Price Structure:** The tender price must be inclusive of all costs, including but not limited to delivery, installation, training, and any other charges.
- ii) The bidder should submit an accessory one-year AMC proposal along with the commercial proposal.
- iii) **Payment Schedule:** The payment terms will be processed against satisfactory delivery and installation.
- iv) **The payment shall be processed through the Public Financial Management System (PFMS) Portal upon the receipt of funds from the Ministry of Textiles to Ahmedabad University.**
- v) **Taxes:** The price should be exclusive of any applicable taxes, which must be indicated separately.

5. Delivery and Installation

- i) **Delivery Timeline:** The Resin Infusion Kit Machine must be delivered within 10 weeks of the date of order confirmation.
- ii) **Installation:** The Supplier must be responsible for the installation of the Resin Infusion Kit at the Composites Laboratory or at the dedicated space as instructed by the University.

6. Inspection and Testing

- i) **Pre-Delivery Inspection:** The Contractor must provide pre-delivery inspection and acceptance testing for the Resin Infusion Kit .
- ii) **Post-Delivery Testing:** Upon installation, the machine must undergo functional testing to ensure it meets the specified technical requirements.

- iii) Defects and Non-Conformance: If any defects or non-conformance to specifications are identified during testing, the tenderer shall correct them at their own cost.

7. Training and Documentation

- i) Operator Training: The tenderer must provide on-site training on the operation and maintenance of the Resin Infusion Kit .
- ii) Documentation: The tenderer shall provide detailed user manuals, technical documentation, and maintenance guidelines in both hard copy and electronic format.

8. Warranty and Support

- i) Warranty Period: The Resin Infusion Kit shall have a warranty period of One (01) year from the date of installation.
- ii) Warranty Coverage: The warranty should cover repairs, parts replacement, and labor for any defects in materials or workmanship.
- iii) Service Level Agreement (SLA): The Contractor must provide an SLA for post-installation support, including response times for maintenance and repairs.

9. Confidentiality

- i) Confidential Information: Both parties should treat all information shared during the tender process and contract execution as confidential.

10. Termination Clause

- i) The University reserves the right to terminate the Agreement without cause by providing 30 days written notice to the Supplier. In such cases, the University shall pay for any Goods delivered and accepted by the Buyer up to the date of termination.

11. Dispute Resolution

- i) Any disputes arising out of or in connection with this Agreement shall be resolved through amicable negotiations between the parties.
- ii) If the dispute cannot be resolved through negotiations, the parties agree to submit the dispute to Arbitration in accordance with the rules of Arbitration and Conciliation Act 1996.

12. Force Majeure

- i) Impact on Obligations: Neither party shall be held liable for failure to fulfil obligations under this contract due to force majeure events.

13. Compliance with Laws and Regulations

- i) Legal Compliance: The Contractor must comply with all applicable laws, regulations, and standards governing the manufacture, delivery, and installation of the Ultrasonic Sealing Machine.
- ii) Environmental Compliance: The Resin Infusion Kit must meet environmental standards and regulations related to energy consumption, material disposal, and recycling.

14. Governing Law

- i) Jurisdiction: This contract is governed by the laws of India, and any disputes will be resolved within the courts of Ahmedabad.