

SPECIFICATIONS (by IIT Madras)	COMPLIANCE (YES/NO)	REMARKS
<p><b>TECHNICAL SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>• Programmable spraying system for spray coating liquid precursors and polymers onto substrates</li> <li>• One channel with interchangeable syringe pump nozzle and piston nozzle system</li> <li>• Movement of spraying head in XY plane controlled by stepper motor</li> <li>• Approximate spray area: at least 15 cm x 15 cm (exact spray area may be specified)</li> <li>• Approximate X/Y travel distance: at least 18 cm / 18 cm (exact travel distance may be specified)</li> <li>• Manual height adjustment of spraying head approximately 10 cm (exact range may be specified)</li> <li>• Approximate flow rate of syringe pump 50 µL/min to 10 mL/min (exact flow rates may be specified)</li> <li>• Air compressor, to atomize the spray, with air pressure regulator (technical details of the compressor may be provided)</li> <li>• Software should be able to control X/Y travel distance, X/Y speed, hold duration and coating duration. Software compatibility with Windows 10 operating system</li> </ul>		

<ul style="list-style-type: none"> <li>• USB connectivity with computer system</li> </ul>		
<p><b>GENERAL FEATURES</b></p> <ul style="list-style-type: none"> <li>• Good laboratory practice and Good manufacture practice compliant rust-proof casing</li> </ul>		

### Terms and conditions

(1) A compliance statement must be provided clearly mentioning if the proposed technical specifications are matched and any additional features that the company may offer may be clearly indicated.

(2) Warranty of at least one year must be provided.

(3) Details on annual maintenance contract upon installation may be provided.

(4) Installation, calibration and onsite training for the equipment are mandatory.

(5) Spares and consumables should be provided.

(7) Calibration samples must be provided, if necessary.

(8) Details regarding installation in India during the past three years specifically to central funded technical institutions, government national laboratories should be provided. Certification from customers from the aforementioned institutions and laboratories will carry value.

(9) Necessary optional spares should be quoted separately.

**The firms are also required to submit/upload copies of the following documents along with the bid**

- a) Copy of PAN card in the name of firm/proprietor
- b) Copy of GST certificate/ GST number of the firm/proprietor
- c) Copy of RTGS/Bank details
- d) Manufacturer's authorization form if applicable
- e) The bidder must be a registered company as per the Companies Act 1956/2013. Necessary certificate shall be attached. The authorization business partner must submit letter of endorsement from the OEM, if applicable.
- f) The bidder should not have been banned/suspended/blacklisted for any reasons by any government organizations/PSU/CSIR lab in the last 3 years. A self-certified letter must be submitted along with bid.