



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
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RFx. 61000001139

Technical Specification of Plasma Surface Treater

Specifications	Requirements
Instrument name	Plasma surface treater
Plasma	O ₂ /Ar plasma
Target material	Polymeric sheet with thickness ~200 µm or more
Target size	95000 mm ² (minimum)
Type of treatment	Batch (One sample at a time)
Treatment type	To change the surface properties like establishing hydrophilicity, surface activation
RF power	<ul style="list-style-type: none">• Upto 18 watt or above
Metering valves	<ul style="list-style-type: none">• System should include sufficient valves to qualitatively and quantitatively control the flow
Vacuum	<ul style="list-style-type: none">• Please mention the requirement for operating the system
Upgradability	<ul style="list-style-type: none">• Provide with upgradability with other operating gases or mixing
Accessories	<ul style="list-style-type: none">• All relevant accessories for the running of the system at user end should be provided with the quotation
Warranty	<ul style="list-style-type: none">• 2 years• (<2 years can be accepted on accessories in some cases)
AMC	<ul style="list-style-type: none">• 3 years
Articles with similar applications	<ul style="list-style-type: none">• Laser-Induced Graphene Biofilm Inhibition: Texture Does Matter• Antifouling Ultrafiltration Membranes via Post-Fabrication Grafting of Biocidal Nanomaterials

	<ul style="list-style-type: none"> • Please confirm that the operation done here can be replicated with the quoted model
<p>Terms and Conditions</p>	<ul style="list-style-type: none"> • System performance should be demonstrated with necessary standards and calibration kits which will be provided by the vendor as part of standard delivery. • 2 Years on Equipment and Accessories (<2 years can be accepted on accessories in some cases) and 3 years AMC after that including all labor cost. Payment of spare parts, if necessary, will be made on as and when required basis. • No conditional warranty will be accepted. • Basic training for a period of 2 days after installation & commissioning of the equipment to technical personnel to be provided at our site. • Good technical support should be provided after the installation of the instrument and the service engineer should be able to attend unlimited breakdown calls and should visit the installation site within 24 hours without fail. • Service support should be available for 6 days a week. • Training on troubleshooting the issues associated with instrumentation or application should be provided free of cost whenever required by the user. • Manufacturer should provide the service support details in India. Details of the service engineers and application specialists should be provided along with their experience on these kinds of systems. • Evaluation will be done on the basis of technical specifications as per our tender notice. • The delivery period should be specifically stated. Earlier delivery may be preferred. • The vendor should have supplied at least 3 of the same or similar instruments to IITs, NITs, CSIR Labs or similar important institutes/organizations in last 5 years. Relevant documents like PO, Installation certificate to be enclosed. Provide the relevant testimonials details of the users (name, phone number and email ID) in India for the quoted instrument in the bid. • We may provide unknown samples to the vendors for analysis on the quoted models to verify their claims on technical specifications, and may ask for technical presentation also and reserve the rights to reject any or all quotations based on the results.