



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

Ref. No. 2011-22/63 (PR: 1000023077)

RFx. 61000001009

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 Temperature should not exceed the 65 °C for the surface
Target size	10000 mm ² (minimum)
Type of treatment	Batch or Roll to Roll
Treatment type	To change the surface properties like establishing hydrophilicity, surface activation
RF frequency	<ul style="list-style-type: none">Adjustable RF frequency Low, Mid and High
RF power	<ul style="list-style-type: none">Upto 18 watt or above
Quartz glass	<ul style="list-style-type: none">Transparent Window to see the treatment process
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
Plasma on and off indicator	<ul style="list-style-type: none">Required
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
AMC	<ul style="list-style-type: none">3 years

<p>Articles with similar applications</p>	<ul style="list-style-type: none"> • Laser-Induced Graphene Biofilm Inhibition: Texture Does Matter • Antifouling Ultrafiltration Membranes via Post-Fabrication Grafting of Biocidal Nanomaterials • 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. • All the system components supplied, should have warranty for two years from date of installations (except mentioned earlier) 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. • Warranty should include preventive maintenance kit, calibration kit. • 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. • On-site training of staff and students (at least twice in a year for 2 days each) during the first 3 years. • 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

	<p>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.</p> <ul style="list-style-type: none">• 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.
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