



**Indian Institute of Technology, Kanpur
Department of Physics**

Enquiry no.: IITK/PHY/162

Enquiry date: 10.9.2013

Closing date: 22.9. 2013

Sealed quotations are invited for one Argon-arc welder.

Technical specifications for the component should comply with the following standards:

Item: Argon-arc welder Qty: 1

Power Source	Thyristor control AC/DC Tig welding machine
Welding Modes	The following modes should be available: DC Pulse, DC Tig, DC Stick, AC Pulse Tig, AC Tig, AC Stick, DC Arc Spot welding
Input Power consumption at max current	Not more than: 18KVA / 12 KW
Duty Cycle	60% Not more than 20 minutes based duty cycle
DC output current	With Trigger, at least 5-300 Amps and manual 5-300 Amps
DC output Voltage	With trigger between 10 and 25 V and manual between 20 and 35 V
AC output current	With Trigger, at least 5-300 Amps and manual 5-300 Amps
AC output voltage	With trigger between 10 and 25 V and manual between 20 and 35 V
DC initial and crator current	Atleast between 5- 300 Amp

AC initial and crator current	Between 20-300 amps
Up slope time	Yes and between 0.5 to 10 sec
Down slope time	Yes and between 0.5 to 10 sec
Gas pre flow	Minimum of 0.5 sec or less
Gas after flow	Between 10 - 25 sec
Arc spot time	At least 0.5 to 5 sec
Cleaning with adjustment	Should be available
Cooling mode	Forced air-cooling
Arc starting mode	High Frequency Start
Accessories (all components should be included in The quotation)	Gas Cyliner(Argon) Air-cooled Hand Torch Argon Gas Regulator Argon Gas Flow meter Welding-screen with Helmet Cable and Gas pipe(Approx. 5 m in length)

Terms and conditions:

The sealed envelopes with the quotes should be superscribed with the Inquiry number.

The delivery period should be specifically stated.

Quotes should be made options for the either of the following delivery modes

- Ex-works for pickup by our world-wide transport provider
- FOB in country of origin
- CIF, New Delhi
- For delivery to IIT Kanpur

Maximum educational discounts should be applied – this equipment will be used for research as well as teach and trainstudents.

Quotes should have a minimum validity of 60 days

Address the quotations to

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