

# NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 620015

## DEPARTMENT OF MECHANICAL ENGINEERING

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431 - 2503418, 2503442, 2503425



## TENDER DOCUMENT

Tender Notification No.: NITT/Mech/Materials Characterization Lab/Plasma Cutting Machine/2012

Dated: 14.05.2012

Name of the Item	<b>Plasma Cutting Machine with CNC unit</b>
Quantity Required	<b>01</b>
Delivery	Within four weeks from the date of purchase order delivery
Last Date of submission of quotation	<b>30.05.2012 up to 3.00 p.m.</b>
Date of opening of quotation	<b>30.05.2012 at 3.30 p.m.</b>



**NATIONAL INSTITUTE OF TECHNOLOGY**  
**TIRUCHIRAPPALLI – 620015**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

Tender Notification No.: NITT/Mech/Materials Characterization Lab/**Plasma Cutting Machine** /2012

**NOTICE INVITING QUOTATION**

The National Institute of Technology, Tiruchirappalli (NITT) is an autonomous body under MHRD, Government of India, University, imparting Technical Education and engaged in Research Activities. It is proposed to procure the following equipment for the departmental academic/research activities.

Sealed quotations are invited for the following equipment subject to the following terms and conditions, from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time. The Quotations will be opened on the same day in the presence of the Registrar.

Requirement: Plasma Cutting Machine with CNC unit – 01 No.

**Specifications:**

**Power source with Straight Neck 15.2m torch**

Mains voltage V/Ph +/-15%	-	3x400, 50 Hz
Fuse (slow)	-	35 A
Mains cable	-	Ø 6 mm <sup>2</sup>
Permitted load at		
60% duty cycle,	-	90 A/115 V
100% duty cycle,	-	70 A /115 V
Air requirements	-	236 l/min
Generator power	-	20 kW
Manual cut capacity Cuts	-	38 mm
Severs	-	44 mm
Mechanized pierce capacity		
(Maximum)	-	19 mm
Pilot arc power source		

## **CNC unit**

Cutting width	-	2 m
Cutting length	-	3 m
Height Control Torch Motorized	-	150 mm
Height Control device	-	Auto height control
Cutting torch	-	High speed cutting torch (Capacity 250 mm thick)
Cutting precision	-	0.3 mm

Oxy-fuel cutting torch (motor driven) is required  
Feeding the NC program (input and output) should be USB based  
Auto-run model and power off protection should be required

## **Terms & Conditions**

1. The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
2. The bidder should give details of their technical soundness and provide list of customers of previous supply of similar items to Universities, Institutes or Government Departments / Undertakings / public sectors with contact details. The details of the agency/profile should be furnished along with the copy of all related documents.
3. **Payment:** No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier. In case of imports, the payment will be made through LC after installation and performance security need to be submitted at the time of LC commitment.
4. Rate shall be inclusive of all taxes. The Institute is eligible for customs duty and excise duty exemption.
5. The sealed cover should be addressed to

**The Director,  
National Institute of Technology,  
Tiruchirappalli – 620 015**

The cover should be subscribed with the following details:

1. **Kind Attention to Dr. T. Ramesh, and Prof. N. Sivashanmugam, Assistant Professors / Mechanical Engineering.**
2. **Quotation Notification No.**

### 3. Date of Opening

6. The clear specification, make, model range etc of product shall be mentioned in the quotation.
7. Guarantee and Warrantee period should be specified.
8. Period required for the supply and installation of item should be specified.
9. The Director reserves the right to reject any or all the offers without assigning any reasons thereto.
10. Time for completion of supply after placing purchase order: One month
11. Last Date of submission of quotation: 30.05.2012
12. Place, Date and time of opening of Quotations

Date : <b>30.05.2012</b>
Time : <b>3:30 PM</b>
Venue : <b>Director Office</b>

13. Note: The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong addressee.