

**NATIONAL POWER TRAINING INSTITUTE,**  
(Under the Ministry of Power, Govt. of India),  
Southern Region,  
Block-14, Neyveli 607 803

## **TENDER DOCUMENTS**

Supply, Installation & commissioning  
of Distributed Control System for NPTI(SR), Neyveli

**NATIONAL POWER TRAINING INSTITUTE,**  
(Under the Ministry of Power, Govt. of India),  
Southern Region,  
Block-14, Neyveli 607 803

No.NPTI(SR)/NEY/STR/2009-2010/

Dated: .08.2009

**NOTICE INVITING TENDER**

Sealed tenders are hereby invited by the Principal Director, National Power Training Institute (Under the Ministry of Power, Govt. of India) for the work / purchase as per schedule, specifications and as per the terms and conditions enclosed herewith from the authorized dealers / distributors / manufacturer of branded suppliers.

1. Name of work : Supply, installation and commissioning of 01 No. Distributed Control System in institute building at NPTI(SR), Neyveli.
2. Estimated cost : Rs.4,25,000/-
3. Earnest Money : Rs.8,500/-
4. Last date of receipt of tender : 05.10.2009 up to 03.00 pm
5. Date of opening the tender (Technical Bid) : 05.10.2009 at 04.00 pm
6. Time of completion of job : As per terms & conditions enclosed

The offer shall remain open for at least 90 days. Earnest money shall be accepted only in the form of demand draft drawn in favour of the NPTI(SR), Neyveli.

**Sd/-**  
**PRINCIPAL DIRECTOR**

## **NOTICE INVITING TENDER**

### **Important instructions: Terms & Conditions**

**Bid should be in two parts, a) Technical Bid, b) Price Bid in separate sealed envelopes. Both Bids envelope to be placed in a another single sealed envelope super-scribing tender No. Dt.** The cover should be addressed to The Principal Director, National Power Training Institute, Southern Region, Block-14, Neyveli – 607 803

### **Sealed Bids in two envelopes are to be submitted as follows:**

a. **Technical Bid:** This Envelope namely Technical Bid should contain only technical specification. This cover should be super-scribed **TECHNICAL BID** for '**Supply and Commissioning of Distributed Control System**'. The Technical Bid should contain the following:

1. EMD in the form of Demand Draft drawn in favour of NPTI(SR) payable at Neyveli.
2. If the tender document is downloaded from website, the cost of the tender document in the form of DD is to be enclosed.
3. Income tax clearance certificate of last three years
4. Warranty for one year
5. Delivery period is to be indicated and maximum allowable period is six weeks from the placement of orders.
6. Validity period to be indicated and should be minimum 90 days from the date of opening of the tenders
7. Agreement towards the payment terms of NPTI
8. The tender must contain all the relevant technical specifications of the equipments as per the tender document along with the relevant technical literatures / brochures / pamphlets / drawings and alternate proposal. All the documents, technical specifications should be signed by authorized bidders with seal of the firm and date.

b. **Price Bid:** Second envelope namely Price Bid should contain only the price part and other information given below. This cover should be super-scribed Price Bid for '**Supply and Commissioning of Distributed Control System**'

1. Details of Make of equipment, their rates should be included in the original price bid form
2. The price must be firm and final till the deliver of equipment inclusive of all taxes, Govt. levies and other duties on FOR destination basis.
3. The price must be quoted in figures and words.

## **General Terms and Conditions:**

01. Delivery should be F.O.R destination basis i.e. NPTI (SR), Neyveli
02. Part supply is not allowed.
03. The equipment should be loaded with original software and supplied along with necessary backup / recovery CD's & Manuals.
- 04. 90% of payment will be made on successful supply, installation & commissioning. Balance 10% of payment will be kept as Performance Guarantee for the period of warranty after installation & commissioning or against the Bank Guarantee for the period of warranty.**
05. Offer should include freight, packing, forwarding, delivery, warranty, Installation and Commissioning charges. Taxes payable may be indicated separately.
06. If the last date for receipt of the tenders happens to be a holiday, the next working day shall be the due date.
07. In the event of successful bidder's failure to deliver the material as per order within the stipulated delivery period, the order is liable for cancellation and EMD will be forfeited.
08. The tender document is not transferable
09. The tenderers are advised to go through the tender documents, terms and conditions thoroughly and must sign all the pages.
10. In case of any dispute, the decision of Principal Director will be binding and final
11. NPTI will not be responsible for transit damages.
12. This institute is a training institution under Ministry of Power, Govt. of India, if any discount applicable for educational / training institution, the same may be indicated in your Price Bid.
13. NPTI reserves the right to cancel the tender without assigning any reason and to increase or decrease the quantity of any items mentioned overleaf.
14. The suppliers shall be responsible for the safety of the material during transit and loading and unloading. This office does not own any responsibility if the material is damaged during transit, erection and commissioning.

15. The bidder should follow all safety measures at site and ensure that no damage is caused at the site. If any damage occurs as a result of the work, the bidder will restore the same or the cost of the same will be realized from the bill.

16. The supplier shall be responsible for the safety of his erection and commissioning team manpower.

17. All stores should be delivered in fully packed conditions and opened in front of NPTI representative.

20. The supplier has to make his own arrangement for the ordinary / special tools, machinery, and other consumables required for successful completion of Erection and Commissioning and testing

## PRICE BID FORM

**Quotation No.** \_\_\_\_\_

**Date:** \_\_\_\_\_

To  
The Principal Director,  
National Power Training Institute,  
Block-14,  
NEYVELI-607 803.

Dear Sirs,

I accept your Terms & Conditions as per your Tender  
No.NPTI(SR)/STR/2009-10/  
and quote the following prices.

Dt.

1.	Name of the Item & Quantity	
2.	Detailed Specification of the Item	
3.	a. Price which includes Guarantee / Warranty period, Installing & Commissioning, Sales Tax & Surcharge, Freight & Forwarding and Delivery charges	Rs.
	b. Warranty for	Years
	c. Discount if any	
4.	VAT & Surcharge if any	
5.	Delivery Period	
6.	Other provisions or facilities over and above the minimum specification	
7.	List of Enclosures	
	Signature of the Authorised Person with Date	
	Full Address of the Firm with seal	

## TECHNICAL SPECIFICATIONS

Sl. No.	Description	Quantity
1.	Distributed Control System Specification given below:	01 No.

<b>DISTRIBUTED CONTROL SYSTEM</b>		
<b>SCOPE OF SUPPLY</b>		
Sl. No.	Description	Quantity
1.	<b>MASTER</b>	
	-CPU E05, with two serial & one Ethernet	01 No.
	Power supply module	01 No.
	DC I/P module with 16 I/P	01 No.
	DC O/P module with 16 O/P	01 No.
	Analog Mixed Module	01 No.
	Carrier	03 Nos.
2.	<b>PROGRAMMING SOFTWARE:</b>	
	Cimplicity machine edition	01 No.
3.	<b>QUICK PANEL</b>	01 No.
<b>DETAILED TECHNICAL SPECIFICATIONS</b>		
<b>CPU</b>		
<ul style="list-style-type: none"> <li>➤ 64K bytes of programmable memory.</li> <li>➤ User-allocated to program, word reference and I/O configuration memory.</li> <li>➤ Embedded Ethernet configuration upto 10M baud/100M baud</li> <li>➤ Supports configuration of 32 exchanges</li> </ul>		
<b>POWER SUPPLY MODULE</b>		
<ul style="list-style-type: none"> <li>➤ Supports 24V DC power supply</li> <li>➤ Back panel power for CPU &amp; network interface unit and I/O modules.</li> <li>➤ Upto 1.5amps output current via 3.3 volt and 5volt outputs, with upto 1.0 amp on the 3.3 volt output</li> </ul>		
<b>DISCRETE I/P MODULE</b>		
<ul style="list-style-type: none"> <li>➤ Digital input module</li> <li>➤ Provides two groups of 8 discrete input</li> <li>➤ 24V DC positive/negative logic inputs.</li> <li>➤ Negative logic functionally requires module higher version.</li> </ul>		
<b>DISCRETE OUTPUT MODULE</b>		
<ul style="list-style-type: none"> <li>➤ This is a 16 point 24V DC positive logic discrete output module</li> <li>➤ With stands upto 2.0 amps per point with electronic short circuit protection.</li> <li>➤ The outputs are positive or sourcing type outputs</li> <li>➤ The switch loads to the positive side of the DC supply, supplying current to the loads</li> </ul>		

<b>ANALOG MIXED MODULE</b>
<ul style="list-style-type: none"> <li>➤ Providing four channel analog input</li> <li>➤ Providing two No. 4 to 20mA analog current outputs</li> </ul>
<b>DEMONSTRATION PANEL</b>
<ul style="list-style-type: none"> <li>➤ 16 Nos of SPDT Switches provided to simulate the Digital inputs</li> <li>➤ 16 Nos of LEDs provided for the Simulation of Digital output6s with fuse protection</li> <li>➤ All I/P and O/P are terminated on the panel on socket type connector for easy interconnection of applications.</li> <li>➤ One 24VDC supply provided</li> <li>➤ Connection provision provided for 4 analog input and 2 analog output</li> <li>➤ Voltage &amp; Current displays are to be provided</li> <li>➤ All components are to be mounted in the attractive powder coated metal frame</li> </ul>
<b>PROGRAMMING SOFTWARE</b>
<b>Cimplicity machine edition</b>
<ul style="list-style-type: none"> <li>➤ Ladder development program (WINDOWS based and support PID algorithm)</li> <li>➤ It provides support for instruction list and relay ladder diagram editors, providing the ability to switch between the 2 layers.</li> </ul>
<b>QUICK PANEL</b>
<ul style="list-style-type: none"> <li>➤ 6" quick panel, color, touch panel</li> </ul>

## **CHECK LIST & CRITICAL DATES**

Before submit your quotation please confirm the following:

1. Sealed quotation in 2 parts – Technical & Price Bid in separate covers
2. Superscribe in the outer cover "Tender for \_\_\_\_\_" and Tender Enquiry No. \_\_\_\_\_ due on
3. DD for EMD amount of Rs.
4. Technical Literature / pamphlet should be enclosed along with the Technical Bid
5. Enclose the list of clients / customers
6. Enclose authorization letter in case representing their principals
7. Endorse your signature in the tender

### **CRITICAL DATES**

The NPTI reserves the right to amend the dates shown below.

The critical dates are as follows:

Date of release of the tender	: 21.08.2009
Venue	: NPTI(SR), Neyveli
Last Date for Bid submission	: 05.10.2009 at 03.00 pm
Technical Bid opening	: 05.10.2009 at 04.00 pm
Price Bid Opening	: Will be intimated to the qualified bidders.