

NATIONAL POWER TRAINING INSTITUTE (WR)
(Under the Ministry of Power, Govt. of India),
NAGPUR-440022

TENDER DOCUMENTS

For

Supply, Installation & Testing of Equipments of
Switchgear and protection Laboratory
Estimated cost: Rs. 9, 00,000

NPTI(WR), South Ambazari Road, Gopal Nagar, Opposite
VNIT NAGPUR-440022 MAHARASHTRA

Tender No.NPTI/WR/SGP lab/2010-11 dated 14-02-2011

Cost Rs 500/-

NATIONAL POWER TRAINING INSTITUTE(ER)
(Under the Ministry of Power, Govt. of India),
NAGPUR-440022

No.NPTI(WR)/SGP lab/Nagpur/2010/

Dated:14-02-2011

NOTICE INVITING TENDER

Sealed tenders are hereby invited by the Principal Director/Head of the Institute, 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 testing of Switchgear and Protection Laboratory Equipments in Institute building at NPTI (WR), Nagpur-440 022 |
| 2. Estimated cost | : Rs. 9, 00000 |
| 3. Earnest Money | : Rs. 18000/- |
| 4. Last date of receipt of tender | : 28-02-2011, 14.30 Hrs. |
| 5. Date of opening the tender | : Possibly 28-02-2011, 16.00 Hrs |
| 6. Cost of Tender Documents | : Rs. 500/- |
| 7. Time of Completion of job | : As per terms & conditions enclosed |

The offer quoted shall remain valid for at least 90 days. Earnest money shall be accepted only in the form of demand draft drawn in favour of the NPTI (WR), payable at Nagpur.

The bid document can be obtained from Junior Accounts Officer, NPTI (WR) at institute building NPTI, South Ambazari Road, Gopal Nagar, Nagpur-22 from 14/02/2011to 28/02/2011 between 11:00 hrs – 16:00 hrs on working days on payment of Rs. 500/- by DD in favor of NPTI, Nagpur or by Cash.

Sealed tenders should be dropped in the tender box kept in Principal Director's office at the Institute building latest by 28-02-2011by 1400hrs. The tenders shall be opened at 16:00 hrs same day in the conference hall of the Institute building. Tenders without EMD will be rejected.

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 an another single sealed envelope super-scribing "Supply of Switchgear and Protection Lab Equipments". The cover should be addressed to The Principal Director, National Power Training Institute, Western Region, Nagpur-440022, Maharashtra. Due date of opening the tender should be mentioned on the envelope.

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

- a. **Technical Bid:** This Envelope namely Technical Bid should contain only documents needed as follows. This cover should be super-scribed **"TECHNICAL BID for Supply of Switchgear and Protection Lab Equipments"**.

The Technical Bid should contain the following:

1. EMD in the form of Demand Draft drawn in favour of NPTI(WR) payable at Nagpur, of any nationalised Bank.
2. If the tender document is downloaded from our website www.nptinagpur.com, 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/Guarantee for one year. Warranty/ Guarantee to be provided on all laboratory equipment which covers entire equipment.
5. Delivery period is to be indicated and maximum allowable period is six weeks from the date of placement of supply 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. All the documents, technical specifications should be signed by authorized signatory of bidders with seal of the firm and date.
9. Credentials if any.
10. List of Organizations to which similar lab equipments was supplied within last 3 years, along with order copies.
11. Registration of the firm/ company.
12. Sales Tax Registration/VAT/TIN/CST/BST shall be enclosed.
13. Copy of PAN.

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 of Switchgear and Protection Lab Equipments**"

1. Details of lab equipments, their rates should be included in the original price bid form
2. The price must be firm and final till the delivery 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, as per proforma of price bid form.

A. General Terms and Conditions:

01. Delivery should be F.O.R destination basis i.e. NPTI (WR), Nagpur.

02. Part supply is not allowed.

03. 90% of payment will be made on successful supply, installation & testing. Balance 10% of payment will be kept as security deposit towards Performance Guarantee during the period of warranty or released against the Bank Guarantee for equivalent amount of any nationalized bank. EMD will be released after successful completion of the job.

04. Offer should include freight, packing, forwarding, delivery, warranty, Installation and Testing charges. Taxes payable may be indicated separately.

05. If the last date for receipt of the tenders happens to be a holiday, the next working day shall be the due date.

06. 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.

07. The tender document is not transferable

08. The tenderers are advised to go through the tender documents, terms and conditions thoroughly and must sign all the pages.

09. In case of any dispute, the decision of Principal Director / Head of the Institute will be binding and final.

10. 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.

11. NPTI reserves the right to cancel the tender or part of it without assigning any reason and to increase or decrease the quantity of any items mentioned overleaf.

12. The suppliers shall be responsible for the safety of the material during transit, loading and unloading. This office does not own any responsibility if the material is damaged during transit, erection and testing.

13. 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.

14. The supplier shall be responsible for the safety of his erection and testing team manpower.

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

16. The representative of NPTI may visit to your manufacturing unit for testing & Inspection before delivery of materials if required.

17. The Vendor / Supplier may indicate their local network for undertaking after sales services.

18. In case of any disputes, Nagpur Jurisdiction shall be applied.

B. TESTING AND COMMISSIONING

1. The successful bidder shall carry out the testing of the lab equipments and installation under the supervision of concerned section Incharge. Bidder should give trial of relevant experiments for proper performance and supply relevant technical literature of the experiments.

2. After erection and testing is complete, a trial run shall be made. Any defect /faulty material detected during testing shall be rectified or the defective part replaced by the tenderer free of cost until the desired performance is achieved.

3. All spares which may be essential during installation and testing shall be supplied by the supplier; installation and testing shall not be considered complete until all final drawings wherever applicable / Manuals are to be submitted to the purchaser.

4. In case of delay in commissioning/ installation of equipments due to some unavoidable reasons supplier does not relieve of his obligation to commission/install the equipments and to submit test report at site.

C. INSPECTION

1. Inspection / waiver of inspection for equipment does not relieve the supplier of his obligation to replace / rectify the materials which are found defective. (Due to bad workmanship quality or damaged in transit) at the time of final inspection after erection and commissioning at the site free of cost.

D. GUARANTEE / WARRANTY

1. The Tenderer / Supplier shall submit the warranty for the equipment / material supplied by him for a period of one year or more from the date of installation and testing or taking over the installation by NPTI(WR) whichever is later. Any defect noted in this period because of the bad quality of workmanship/ materials of sub-standard design shall be rectified or the defective part / lab equipments has to be replaced by the supplier free of cost during the guarantee / warranty period.

PRICE BID FORM

Quotation No.

Date:

To
The Principal Director,
National Power Training Institute,
Western Region,
Gopal Nagar, Nagpur-440022

Dear Sirs,

I accept your Terms & Conditions as per your Tender No.NPTI/(WR)/SGP Lab/
Dt. 14/02/2011 and quote the following prices.

1.	Name of the Item & Quantity	
2.	Detailed Specifications of the Item	
3.	a. Price which includes Guarantee/ Warranty period, Installation & Testing, Sales Tax & Surcharge, Freight & Forwarding and Delivery charges	Rs. In words (Rs.)
	b. Warranty for	Years
	c. Octroi as applicable (If required, documents for exemption certificate shall be provided.)	
	d. 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 authorized person with date	
	Full address of the firm with seal	

CHECK LIST & CRITICAL DATES

Before submission of 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 Supply of Switchgear and protection Lab Equipments**” and Tender Enquiry No. Tender No.NPTI/WR/SGP lab/2010-11.
3. DD for EMD amount of Rs. 18000/-
4. Specifications / Technical Literature / pamphlet should be enclosed along with the Technical Bid
5. Enclose the list of clients / customers / credentials with proof.
6. Enclose authorization letter in case representing their principals
7. Endorse your signature in the tender
8. Income tax clearance certificate of last 3 years.
9. Registration of the firm/ company.
10. Sales Tax Registration/VAT/TIN/CST/BST shall be enclosed.
11. Copy of PAN card.
12. If the tender document is downloaded from our website www.nptinagpur.com DD for cost of the tender document is to be enclosed.

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	: 14-02-2011
Venue	: NPTI(WR), NAGPUR
Last Date for Bid submission	:28-02-2011, 14.30 Hrs
Bid opening	:Possibly on 28-02-2011, 16.00 Hrs

Detailed Specifications of Switchgear and Protection Lab Equipments

S.No	Item Name	Specifications				
		Sub Item	No's	Range	Make	Remark
1.	Generator Protection Simulation Study Kit.(All grouting/civil work along with Earthing arrangement, & required DCB)	Two sets of 3 Phase Alternator-motor sets with digital DC Drive is provided for parallel operation and protection.				
		Alternator	01	1KVA,Salient pole,415 V,50Hz,1500RPM,Excitation voltage - 200V Dc.		Both motor and Alternator are coupled with Base Plate
		Motor	01	2HP,DC Shunt motor,1500RPM,Armature voltage- 200VDC at 8Amps,Field voltage 200VDC at 0.8 Amps		
		One No of DC Drive is provided for both Alternator Field voltage & Motor Armature,Field Voltage with the following specification				
		One no of 0-200VDC output @ 1Amps Power rating is provided for Alternator-1 Field Voltage ,With Digital Ammeter and Voltmeter Indication				
		One no of 0-200VDC output @ 1Amps Power rating is provided for Motor-1 Field Voltage ,With Digital Ammeter and Voltmeter Indication				
		One no of 0-200VDC output @ 8Amps Power rating is provided for Motor-1ArmatureVoltage ,With Digital Ammeter and Voltmeter Indication				
		One no of 0-200VDC output @ 1Amps Power rating is provided for Alternator-2 Field Voltage ,With Digital Ammeter and Voltmeter Indication				
		Over current relay +Earth fault relay	01	3phase,Numerical	L&T	
		%Differential Relay	01	Numerical	L&T	
		Overvoltage/ Undervoltage	01	Numerical	L&T	
		Negative sequence	01	static	Alstom	
		Microcontroller Reverse Power Relay	01		Alstom	
		Micrcontroller Synchronous relay/Rotating type digital indicator				

		is required				
		Over Frequency/Under frequency	01	Numerical	L&T	
		Event record,display parameter are in build.& Fault Simulation Switches are provided				
		Necessary power analysers DSP Based Meters /Necessary Digital meters to be provided				
		One no of 3Phase Lamp load will be provided (2KVA) with Diff-Load selector switch.				
02.	Electro-mechanical Under Voltage Relay (IDMT)Test kit along with Source Unit	Electro-mechanical Under Voltage Relay (IDMT)	01	PLUG SETTING 50-90%, adjustable in five equal steps,TIME MULTIPLIER SETTING 0.1-1	English Electric	
		PT	01	Sec 110V		
		Output:0.5 Sec 7500 VA with maximum of 30 amps and 660 V Ac/Dc				
		Characteristics:0-5 Sec at Zero Voltage .Time/Voltage Characteristics at TMS 1.0				
03.	Electro-mechanical Over Current Relay (IDMT)Test kit along with Source Unit	Electro-mechanical Over Current Relay (IDMT)	01	Nondirectional,PLUG SETTING 50-200%, TIME MULTIPLIER SETTING 0.1-1	English Electric	
		CT	01	Sec 1/5 Amps		
		Output :8Amps Relay one NO				
		Characteristics:3Sec-10 times				
04.	Insulating oil BDV Test Kit	BDV Test Kit	01	0-100 KV		
		Input 230 VAC,Output 0-100 KV ,Capacity 1KVA				
05.	Fuse Test Kit	Input voltage 230VAc ,1 phase,Output current 50 Amps				
		Range:1A,2A,5A,10A,20A,50A				
		Zero current detector <25mA				
		Inbuild 3 and Half digital Ammeter,Time Interval Meter				
		Fuse wire Testing Zig				
06.	Demo Model of DC Battery	Demo Model of DC Battery (Lead Acid) with Dismantling Facility & Nomenclature (12 Volts).-01 no				
07.	Demo Model of Bucholz Relay .	Demo Model of Bucholz Relay with Fault realization				

		mechanism-01 no				
08.	Working Model of Air Circuit Breaker(ACB)	Working Model of Air Circuit Breaker(ACB) with Operating mechanism & Nomenclature -01 no				
		Total Items: 08				