

QUOTATION ENQUIRY

No:-IIT Mandi/PUR-84/2011/4709

Date: 30.12.2011

Sealed quotations are invited for supply of “**Integrated Synchronous Machine Training System**” of reputed brand as per specifications mentioned below: -

Sr. No.	PARTICULARS
1.	<p>INTEGRATED SYNCHRONOUS MACHINE TRAINING SYSTEM</p> <p>Scope of learning of the following experiments:</p> <ul style="list-style-type: none">➤ Synchronization of two Three Phase Alternators, by synchronization method➤ Three dark lamp method➤ Two bright one dark lamp method➤ Study of power (Load) sharing between tow Three Phase Alternator in parallel operation condition➤ Transfer of power from on Alternator to other Alternator in parallel operation➤ Regulation of Three Phase Alternator by open circuit test, Short circuit test➤ Study & Analysis of V-curve & Inverse V-curve of Synchronous Motor <p><u>TECHNICAL SPECIFICATION:</u></p> <p>AC Measurement Unit Voltage: $\geq 50 \leq 500$ V Current: $\geq 0.2 \leq 10$ A Power : $\geq 20 \leq 2000$ W Power Factor: 0.99 Lead, Lag Frequency: $\geq 45 \leq 55$ Hz</p> <p>Phase Sequence Indicator: For both generators</p> <p>DC Measurement Unit Voltage: $\geq 25 \leq 500$ V Current: $\geq 0.2 \leq 10$ A</p> <p>DC Power Supply Fixed: 180 - 200 V Variable: 0 - 180/200 V</p> <p>Machines Specification: Both the M-G Sets are Flexibly Coupled and Mounted on a “C” channel base</p> <p>DC Machine (Prime Mover) Type: DC Shunt Voltage Rating: 200 V Rating: 2 HP RPM: 1500 (no load)</p>

Insulation: Class “B”
Three Phase Machine (Generator)
Type: Salient Pole
Rating: 3 HP
RPM: 1500 (no load)
Excitation Voltage: 120 V
Insulation: Class “B”

Following salient features should be present: -

- Two identical Motor Generator set
- Electrical loading arrangement
- 240 x 128 Graphical LCD Display
- RISC Microcontroller based design for measurement
- High Resolution ADC for accurate measurement
- Highly sensitive to change in reading for better controlling
- Exhaustive Learning Material
Inbuilt digital Phase Sequence Indicator
- Equipped with Synchroscope
- Inbuilt multifunction meter for AC & DC Measurement
- Dark lamps provided on front panel
- Designed considering all the safety precautions
- Diagrammatic representation for the ease of connections
Connecting cables/Patch cords

The Quotations will be received up to **13.01.2012 at 11.00am.**

Quotations will be opened on **13.01.2012 at 11.30am.**

Representatives of the firm(s) may be present at the time of opening the quotation if they so desire. The quotations should bear full details and where ever possible, be duly supported with catalogues, pamphlets, literature as the case may be for comparing the quality and rates of the item. The following instructions should be strictly observed for submitting the quotations failing which the quotations shall be liable for rejection.

1. The quotations should be submitted on **printed pad preferably with sales tax number** of the firm. The quotation must bear original signature.
2. The quotations shall be submitted at the Administrative Block in a sealed envelope duly marked “Quotation against enquiry no. ____ dated ____ due on ____” on the corner of the envelope.
3. The **rates must be quoted both in figures and words** and over writing should be avoided. However all cuttings/corrections must be duly authenticated.
4. The rates quoted **should include transportation costs upto Mandi** clearly mentioning the percentage/rate of **Sales Tax / VAT** or all other Taxes and Duties and the rates quoted should be valid for at-least 60 days from the date of opening of the quotation.
5. While sending rates, the firm shall give an undertaking to the effect that the terms/conditions mentioned in the enquiry letter against which the rates are being given are acceptable to the firm. In case the firm does not give this undertaking their rates will not be considered

6. Quotation received after closing date/time will not be considered
7. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached with quotation.
8. The payment will be made on receipt of material and check with regard to quality and quantity of the material supplied and on submission of pre-receipted bill by the firm.
9. The quantity may vary as per demand of the department at the time of placing the order.
10. **Period required for Delivery should be clearly mentioned.**
11. **Warranty period should also be mentioned.**
12. The IIT Mandi reserves the right to reject any quotation wholly or partly without assigning any reason

O.S.D.