



Ref. No: 66/NITS/Physics Lab. Instruments/RO/362

Date: 12.09.2022

NOTICE INVITING QUOTATION

The National Institute of Technology Sikkim invites quotations in sealed envelopes for supply of **Components of some Equipment for Engineering Physics Laboratory** to be addressed to the Registrar, NIT Sikkim. The last date for submission of the quotation is 10.10.2022 at 04:00 PM.

Brief Description of the goods	Specifications	Approximate Quantity	Place of Delivery	Installation requirement
Engineering Physics Laboratory Components of Equipments (As per Annexure-I)	As per Annexure-I	As per Annexure-I	Central Store, NIT Sikkim, Ravangla, South Sikkim - 737139	NA

Other Terms and Conditions are as under:

- 1) The quotation shall be in the letterhead of the bidder and must contain the GST& PAN of the bidder. Physical sealed quotations shall only be accepted. Email quotations shall not be considered for evaluation.
- 2) The prices quoted should be FOR NIT Sikkim and must include all incidental charges for delivery up to NIT Sikkim. Taxes if any should be clearly indicated in the quotation. The rates of taxes should be clearly spelt out in the quotation.
- 3) The material must be delivered within 30 days of the issue of the purchase order. Failure to comply with the same shall result in liquidated damages recovered @ 1% per week.
- 4) The institute reserves the right to not accept the lowest price as the sole criteria for award of the purchase order. The quality requirement of the institute shall not be compromised in any case. The institute may ask any bidder to submit the sample of the material before award of the order or visit the site for clarification.
- 5) The institute reserves the right to increase or decrease the quantity of the material depending on the need of the institute.
- 6) Submission of quotation shall be deemed to be the acceptance of the conditions in this document.

-Sd/-
Registrar

SCHEDULE OF REQUIREMENT

Sl. No.	Name of the Components	Specification of the Components	Approximate Quantity
1	Hall Effect Setup (DHE-21)	Hall Effect Set-up, with Provision for Hall Voltage Offset Adjustment on panel. With built in 0-200mV digital Millivoltmeter and 0-20mA Constant Current generator. Complete unit housed in metal cabinet of 260x200x110mm with effective electromagnetic shielding. Cabinet should be powder coated with plastic moulding on edges.	2
2	Hall Probe for Hall Effect Setup	Hall Probe (Ge Crystal-n type and p type) with resistivity 18-19 ohm cm in n-type and 12-14 ohm cm in p-type, Hall voltage 35-60mV/10mA/KG, Contact : Solid Silver, sample size 4x5x0.5mm: One each	2
3	Metallic Multipurpose Stand for Hall Effect Setup	Hall Probe Stand Multipurpose (metal stand with powder coated aluminium holder suitable for all models of Hall Effect Experiment)	2
4	Digital Gaussmeter (DGM-102)	Digital Gaussmeter with GaAs Transverse Probe. Range: 0-2KG, 0-20KG and 7 segment LED display with accuracy 0.5%. Complete unit housed in metal cabinet of 260x200x110mm with effective electromagnetic shielding. Cabinet should be powder coated with plastic moulding on edges.	2
5	Hall Probe for Digital Gauss meter	Hall Probe (GaAs) for Digital Gaussmeter: Specifications: Control Current (suggested) I_h : 4.00mA Max. Control Current I_{max} : 13.00mA Hall Voltage V_H ($I_h = 4mA$, $B = 1KG$) : 70-80mV Linearity (tested upto 10KG) : Better than 0.5% Operating Range : Upto 40KG Offset Voltage at 4mA (CC) : $\leq \pm 3mV$ (a) Input Resistance R_{in} : 650~850W (b) Output Resistance R_{out} : 650~850W	2

		Operating Temperature Range T _A Color code for cable	: -40~100C : Control Current (+ve Red; -ve Black) Hall Voltage (+ve Yellow; -ve Green)	
6	Constant Current Power Supply (DPS-50)	Constant Current Power Supply (transistor based) for above electromagnet (0-4A current) continuously variable. Complete unit housed in metal cabinet of 390x280x160mm with effective electromagnetic shielding. Cabinet should be powder coated with plastic moulding on edges.		4
7	Magnetic Field Measurement Apparatus (MFM- 01)	Magnetic Field Measurement Apparatus, Model MFM-01 <i>Complete with</i> Digital Gaussmeter: 0-200G Range; 0.1G Resolution; $\pm 0.5\%$ Accuracy; 3½ Digit LED Display, Two Coils: 200 mm dia., 1000 turn Constant Current Power Supply: 0-0.5A Smoothly adjustable; $\pm 0.2\%$ Line Regulation; 0.2% Load Regulation; 3½ digit LED Display Can perform experiment- 1) Study of magnetic field due to one coil and calculation of its diameter. 2) Study of Principal of super-imposition of magnetic field due to 2 coils.		2
8	Magnetic Field Measurement Probe Sensor	Magnetic Field Measurement Probe Sensor: Electronic magnetic field sensor housed in 330 x 9.5 mm brass pipe enclosure suitable for magnetic field measurement experiment.		2

-Sd/-
Registrar