सरदार वल्लभभाईराष्ट्रीय प्रौधोगिकी संस्थान, सूरत
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT
विधुत इंजीनियरिंगविभाग
ELECTRICAL ENGINEERING DEPARTMENT
SVNIT

No. DoEE/ APG / 1283 **/ 2026-27** **Date : 20-11-2026**

To,

Sub: Enquiry for Supply of **"Laboratory items – Kits for Power Electronics Laboratory"**

Dear Sir,

You are requested to quote your prices for supply of stores listed overleaf. The quotations may be sent to the undersigned in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. DoEE/APG / 1283 /2026-27, dated: 20-11-2026" Your quotation should reach the undersigned on or before **07-12-2026 at 5:00 PM.**

The quotations should be furnished with the following information.

1. The brand or make of each item should be specifically stated and wherever Necessary, Complete set of specifications and dimensions should be given.
2. If asked, samples accompanying the quotations or demonstration to be provided in the Department at any stage of purchase without claiming any financial benefits.
3. Sales tax, General tax, Central Sales tax, Custom duty, Insurance charges, Packing and Forwarding charges, if not included in the prices quoted, should be clearly specified.
4. The period of validity of the quotation should be at least ***120 Days or more***. Offers subject to prior sale may please be avoided.
5. The delivery period is to be clearly mentioned in the quotation. The work completion period is ***maximum 30 Days.***
6. The mode of delivery of the stores may be mentioned. The delivery should be F.O.R. Surat or at the Institute.
7. All concessions available to an educational institution should be specified and also taken into account while quoting.
8. This Institute is located within the limits of S.M.C. & exempted from the paying of Octroi duty on incoming goods from outside limits of S.M.C.



9. Payment is normally made by Account pay/cheque/PFMS on the S.V.N.I.T. Branch Office of State Bank of India, Surat-395007 after satisfactory installation, successful testing in department and official procedure from account section with Institute terms and conditions. If case of any official delay, any type of claimed extra payment will not be considered.
10. Your Specification & terms-conditions should be as per the format attached, must be on your company letterhead & signed by an authorized person.
11. Offered quotation may be rejected if any ambiguity is found in offered specification, terms & conditions supplied by party in specified tabular format.
12. Preference may be given to the supplier having status of authorized dealer of manufacturer, with a view to ensure reliable after sales service for the item.
13. **Items will be accepted after satisfactory performance in our laboratory according to our requirement.**
14. At least one year warranty certificate is compulsory along with quotation as well as invoice of the consignment.
15. The Director reserves the right to accept stores, which are not strictly in confirming with the specifications but otherwise, found suitable.
16. The Head of Department /Director reserves the right to stop the purchase process at any stage.
17. An enquiry may send in the following address.

    To

    The Director,

    (kind attention, Head, Department of Electrical Engineering),

    Sardar Vallabhbhai National Institute of Technology (SVNIT), Dumas road, Ichchhnath,

    Surat-395007 (Gujarat)

    Ph 0261-2201572 (office, DoEE)

Yours faithfully,

Power Electronics Laboratory Lab In-charges, DoEE

Head, DoEE
विभागाध्यक्ष / Head
इलेक्ट्रीकल इंजीनियरींग विभाग
Department of Electrical Engineering
स.व.रा.प्रौ.सं., सूरत-७ / S.V.N.I.T., Surat-7

स.व.राष्ट्रीय प्रौद्योगिकी संस्थान
डी.ऑ.ई.ई.
D.o.E.E.
S.V. National Institute of Technology

Annexure-A

Sr. No.	Product Description and Specification
1	**Device Characteristic Trainer - SCR, TRIAC, DIAC, MOSFET, IGBT** • Trainer providing all general-purpose semiconductor devices with an arrangement to study their characteristics. • Issues related to high-frequency switching of MOSFET and IGBT (switching characteristics) are studied. A PWM pulse generator of >2kHz, stray inductance and a snubber circuit are provided. • The kit should work directly with a 230 V, 50 Hz, AC supply and other low-power supplies required for the operation are derived internally. • Trainers incorporate necessary power supplies (12 V & 40 V DC, 30 V AC) and measuring instruments (03 multi-meters) for deriving the characteristics. • Proper isolation between the control and power circuits is provided.
2	**Gate/Base Triggering Circuit Trainer - SCR / MOSFET** • Different types of triggering circuits for latching devices like SCR are provided. • Triggering circuits for voltage-controlled devices with electrical isolation are provided. • Oscillators with switching frequency >2 kHz, PWM circuit and optical isolation are provided. • Analogue as well as digital implementation of gate or base drive circuit is demonstrated. • Both triggering circuits and a small, rated power circuit are provided for experimentation. • Power circuit of SCR working with 30 V AC supply connected to resistive load of 100 E is provided. • Power circuit of MOSFET working with 20 V DC supply connected to resistive load of 100 E is provided. • The kit works directly with 230 V 50 Hz AC supply and other low power supplies required for the operation are derived internally. • Proper isolation between control and power circuit is provided.
3	**Single-Phase AC Voltage Controller SCR & TRIAC** • Various experimentations on single-phase AC voltage controller circuit. • Single phase half controlled and fully controlled configurations are possible • TRIAC Based controller (Fan regulator circuit) section is provided. • Trainers include step down power supply, control circuit, power circuit and different types of loads internally. • The kit works directly with 230V; 50Hz, AC supply and all measuring meters connected externally. • Step down supply voltage of 30 V AC, Load resistor and inductor are provided. • Proper isolation between control and power circuit is provided.
4	**Three-Phase AC Voltage Regulator** • Various experimentation on three-phase AC voltage controller. • All possible configurations of three-phase AC voltage controller are experimented. • The kit works directly with three-phase 440V; 50Hz AC supply and all measuring meters connected externally. • Step down three-phase supply voltage of 30 V AC, three load resistors and inductors are provided. • Proper isolation between control and power circuits should be provided. • Test points for observing intermediate waveforms of gate pulse generation are provided for observation.

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5	**Three-phase fully controlled rectifier** • Controlled (SCR based) as well as uncontrolled (Diode based) rectifier. • Trainers include step down power supply, control circuit, power circuit and different types of loads internally. • The kit works directly with 415 V, 50 Hz, AC supply and other low power supplies required for the operation are derived internally. • Step down three-phase supply voltage of 30 V AC, load resistor and inductor are provided. • Proper isolation between control and power circuit is provided.
6	**Single-phase fully controlled rectifier** • Controlled (SCR based) as well as uncontrolled (Diode based) rectification. • Trainers include step down power supply, control circuit, power circuit and different types of loads. • The kit works directly with 230 V, 50 Hz, AC supply and other low power supplies required for the operation are derived internally. • Step down supply voltage of 30 V AC, Load resistor and inductor are provided. • Proper isolation between control and power circuit is provided. • Loading arrangements should be a part of trainer and experiment R Load and R-L Load with Freewheeling diode should be provided.



PRICE LIST

Enquiry for Supply of Laboratory items

No	Description	Specification	Qty.	Unit/1 no cost including all charges (in Rs.) without GST	Total cost (in Rs.) without GST
1	**Device Characteristic Trainer - SCR, TRIAC, DIAC, MOSFET, IGBT**	**(as per the Product Specification given in Annexure A)**	02		
2	**Gate/Base Triggering Circuit Trainer - SCR / MOSFET**		02		
3	**Single-Phase AC Voltage Controller SCR & TRIAC**		02		
4	**Three-Phase AC Voltage Regulator**		01		
5	**Three-phase fully controlled rectifier**		01		
6	**Single-phase fully controlled rectifier**		02		
				Total Rs.	
				GST @ _____%	
				Grand Total with GST Rs.	

Note:

1. Quote item cost/price including all type of charges and GST.
2. Attached Photograph of above items (if possible)
3. **Quotation will not be considered for further process without Compliance Report in form of ANNEXURE-B.**

Terms & Conditions

1.	Percentage of GST	
2.	Work Completion Period	
3.	Validity of the quotation	
4.	Warranty/Guarantee	
5.	Make and model for each items	
6.	Other Terms & conditions	
7.	Submission of Compliance Report in **ANNEXURE-B**	**Yes/ No**

Place:
Date :

Signature and stamp of agency



ANNEXURE-B

Compliance Report submitted by Agency

Sr. No.	Item Description for Calibration and servicing	Estimated value according to standard/ attached Documents	Compliance Yes/No
1.	**Device Characteristic Trainer - SCR, TRIAC, DIAC, MOSFET, IGBT** (as per the **Product Description and Specification given in Annexure A)**		
2.	**Gate/Base Triggering Circuit Trainer - SCR / MOSFET** (as per the **Product Description and Specification given in Annexure A)**		
3.	**Single-Phase AC Voltage Controller SCR & TRIAC** (as per the **Product Description and Specification given in Annexure A)**		
4.	**Three-Phase AC Voltage Regulator** (as per the **Product Description and Specification given in Annexure A)**		
5.	**Three-phase fully controlled rectifier** (as per the **Product Description and Specification given in Annexure A)**		
6.	**Single-phase fully controlled rectifier** (as per the **Product Description and Specification given in Annexure A)**		

Place:

Date :

Signature and stamp of agency

