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SARDAR VALLABHBHAI NATIONAL INSTITUTE OF
TECHNOLOGY, SURAT-395 007.

No.: AMD/SVNIT/ 2018-19/ 3114

Date: 09/01/2019

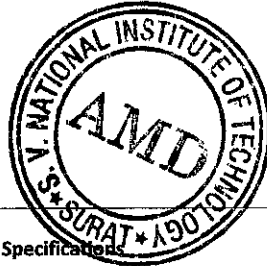
SUB: - ENQUIRY FOR SUPPLY OF -
COMPRESSION TESTING MACHINE 5 T (50 kN)

Dear Sir,

You are requested to quote your prices for supply of stores listed below. The quotations may be sent to the undersigned in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. AMD/SVNIT/2018-19/3114, dated 09/01/2019 on or before 18/01/2019

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 are accompany the quotations
- 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 30 Days. Offers subject to prior sale may please be avoided.
- 5) The delivery period is to be clearly mentioned in the quotation.
- 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) This Institute is registered with the dept. of scientific & industrial Research (DSIR) for the purpose of availing custom duty exemption & central excise duty exemption, and hence the certificate to this effect will be issued wherever it is necessary on demand.
- 11) Payment is normally made by cheque drawn on the S.V.N.I.T. Branch Office of State Bank of India, Surat-395007 within a period of thirty days from the date of receipt of stores.
- 12) The Director reserves the right to accept stores, which are not strictly in confirming with the specifications but otherwise, found suitable.



Yours faithfully,

[Signature]
10.01.19

Head, Applied Mechanics Department

Sr. No.	Item/Stores with Specifications	Probable quantity required	Whether sample of paper/Register/Item is to be sent or not
1.	COMPRESSION TESTING MACHINE 5 T (50 kN) Salient Features: CTM capacity 5 T (50KN) Maximum Span of beam 760 mm Maximum Height of Beam 450 mm Servo controlled CMOD measuring setup Imported Ball Screw Hywin Taiwan with zero backlash. Closed Loop control using servo drive Fuji or equivalent drive (Refer : Annexure-1 for Detail specification	01	-

ANNEXURE - I

COMPRESSION TESTING MACHINE 5 T (50 kN)

Salient Features:

CTM capacity 5 T (50KN)

Maximum Span of beam 760 mm

Maximum Height of Beam 450 mm

Servo controlled CMOD measuring setup

Imported Ball Screw Hywin Taiwan with zero backlash.

Closed Loop control using servo drive Fuji or equivalent drive

Displacement rate control with feedback from CMOD

MCS Make control panel with data Interface from high precision Load Cell, rotary Encoder and CMOD.

Technical Specifications

- 1) 16 bit flash Microcontroller with USB On- The- Go
- 2) 24 bit dual channel dedicated bridge input ADC for load & extension measurement.
- 3) 16 bit voltage output DAC for servo controller (0-10V output).
- 4) Supports low speed (1.5Mb/s) and Full speed (12Mb/s)
- 5) Digital Tare for load and extension and Digital Reset for cross head displacement
- 6) Rotary Encoder interface with resolution of 0.01, 0.1 etc.
- 7) High intensity 7 segment display (7x2).
- 8) 3 nos. NPN output for relays for START/STOP, Direction.
- 9) PWM output for servo drive.
- 10) Limit switches- 2 nos. for detection of lower & upper limit.
- 11) USB v2.0 On- The- Go compliant
- 12) Supports RS232, RS485, LIN/J2602 Protocols.
- 13) On board stepper motor driver with micro stepping facility. (Optional) 14) Onboard EEPROM memory for calibration.
- 15) Auto selection of Load Cell/Pressure cell.
- 16) Auto calibration for load cell & extensometer.
- 17) Load rate control with real time graph.
- 18) Load measurement accuracy $\pm 1\%$
- 19) Displacement resolution 0.01mm
- 20) Testing speed range 0.02mm/min to 100mm/min
- 21) Load resolution 1/50000 counts.
- 22) Up to 4 different load cell connection & calibration.
- 23) Encoder calibration factor setting facility using keyboard.
- 24) UTE & TNE panel selection on jumper.
- 25) Panel control & PC control mode for testing.
- 26) Matrix keyboard interface
- 27) On- The- Fly clock switching allowing user to incorporate power saving ideas into software designs.



