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Grams: SVRCET

SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY,
SURAT - 395007. (GUJARAT)

CHEMICAL ENGINEERING DEPARTMENT

**INVITATION FOR QUOTATION FOR SUPPLY OF
Goods under national shopping procedures**

REF.: ChED/Annual Grant Fund/ Autoclave/AAM/ ¹³⁵⁸ / ¹³⁶⁰ / 2018- 19

Date: 23/01/19

To,

24 JAN 2019

Sub: Invitation for Quotation for Supply of Autoclave

Dear Sir,

You are invited to quote your prices for supply of stores listed overleaf. The quotations may be sent to "The Director, Chemical Engg. Deptt. SVNIT" in a sealed envelope and subscribed as: "Quotation with reference to enquiry No. as above dated". Your quotation should reach the undersigned on or before 04/02/2019.

Sr. No.	Product Name	Quantity	Specification and Quantity
1.	Autoclave	1	Autoclave Volume: - 1000ml reactor, MOC: - SS316 Design Pressure: - 100bar Design Temperature: - 300 °C Overhead stirring arrangement and other standard fittings

*Detailed specifications
on page '3'*

Contd. 2

The quotations furnish 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 accompanying the quotations.
- (3) **Goods and Service Tax, Sales tax, General tax, Central Sales tax, Custom duty, Insurance charges, Packing and Forwarding charges.** If not included the prices quoted, **should be clearly specified.**
- (4) The period of validity of the quotation may be specified. 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 the Institute.** The Institute is located in the Municipal Limits & **exempted from paying of Octroi Duty.**
- (7) All concessions available to an Educational Institution should be specified and also taken into account while quoting.
- (8) The Director and Secretary reserves the right to accept stores which are not strictly in conformity with the specifications but otherwise found suitable.
- (9) **Payment is normally made by Cheque drawn on the S. V. R. C. E. T. Branch Office of State Bank of India, SURAT – 395 007. Within a period of thirty days from the date of receipt of store.**

Mausumi M
23/01/19

Dr. Mausumi Mukhopadhyay
Head, ChED.

AMM

Detailed Technical specification for the supply of Autoclave

(As per Reference No: ChED/Annual Grant Fund/Autoclave/AAM/1350/4360/2018-19;
Dated: 24th Jan., 2019)

Sr. No.	Content	Specification
1.	Volume	1000 ml capacity
2.	Design pressure	100 bar
3.	Working temperature	300°C
4.	Material of construction	SS 316
5.	Head mounting	Removable head and vessel
6.	Heating	External electrical ceramic band heater with insulation and high temperature steel cladding. It shall have insulated heater plate to prevent thermal shock to operator.
7.	Power supply	220VAC 50Hz
8.	Stirrer	2 stage 6 bladed turbine stirrer
9.	Shaft sealing	Zero leakage Magnetic drive coupling with the MOC of Bush-carbon filled PTFE
10.	Gasket	PTFE Gasket with split clamp type quick opening system with clamp bolts. Body clamp shall be with latches to prevent flying off of clamps in case of over pressure
11.	Closure type	Split clamp with clamp bolts
12.	Motor and drive	1/8 H.P. AC Motor and variable frequency drive with 100-1500 RPM infinitely variable speed and digital RPM indication. Motor shall have 3 pieces quick and maintenance free connect/disconnect motor coupling for ease of operation
13.	Control Panel	SS control panel with programable P.I.D temperature controller
14.	SS Pressure Regulator	With self-venting for releasing the pressure, pressure gauge and 5m long flexible hose pipe with NVR for 0-140 bar O/P pressure for H2 gas and adaptor for N2, O2 or air cylinder.
15.	Mounting	SS trolley
16.	Standard fittings	Internal Fittings: Helical cooling coil Thermowell (with RTD PT100 temperature sensor) Dip tube External Valves and fittings: Pressure gauge with vacuum protection Safety rupture disc with vacuum protection Gas inlet-valve and liquid sampling valve mounted on common dip tube Vent needle valve All needle valve shall be 1/4" BSP(M) end connections

Ans.