



SPEED POST

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

No. MED/Renewable and Sustainable Energy Lab/4653 / 2021-22

Date: 04/03/2022

To,
Institute Website

SUB: - Enquiry for Batch Type Pyrolyzer with necessary instrumentation, control and accessories, for Renewable and Sustainable Energy Laboratory.

Dear Sir,

You are requested to quote your prices for supply of stores listed overleaf in Annexure-1. The quotation may be sent to the undersigned in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. MED/4653 / 2021-22 dtd: 04/03/2022 for supply of Batch Type Pyrolyzer. Your quotation should reach the undersigned on or before **10/03/2022 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 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 45 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.
- 10) 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.
- 11) Your specifications & terms- conditions should be as per the format attached, must be on your company letterhead & signed by an authorized person.
- 12) Offered quotation may be rejected if any ambiguity is found in offered specifications, terms & conditions supplied by party in specified tabular format.
- 13) The Director reserves the right to accept stores, which are not strictly in confirming with the specifications but otherwise, found suitable.
- 14) The fabricated experimental test facility will be placed in space available in Renewable and Sustainable Energy Laboratory.
- 15) Training to operate the test facility must be provided.

Yours faithfully,

Shankar
Head

Dept. of Mechanical Engineering
S.V. National Institute of Technology,
Ichchhanath, Dumas Road,
Surat-395 007, Gujarat

Head

Department of Mech. Engg.
S. V. N. I. T., SURAT-7.



Annexure-1

Detailed specifications of Batch type Pyrolyzer with necessary instrumentation, control and accessories			
Sr. No.	Item	Description/Specifications	Qty.
Batch type Pyrolyzer			
1	Reactor Vessel	OD 216 mm, ID 204 mm, Thickness 12 mm, Height 459 mm	1
2	Top Cover	OD 350 mm, Thickness 15 mm, With "I" Bolt Grooving	1.
3	Vessel Top Cover Flange	"F" Table 8 Inch with "I bolt Grooving	1
4	Feeding Hopper with top cover	120mmx120mm	1
5	Connecting Flange with "I" Bolt	2 Inch "E" Table	4
6	Connecting Pipe	50 mm x 2000 mm	1
7	Gas Outlet Connection	50 mm x 50 mm	1
8	Heat Exchanger with flange	216 mm x 460 mm, 10 mm tube bundle, 17 mm OD – 460 mm L, with top bottom cone and water connections	1
9	Product Receiver with bottom cone, Discharge Valve flange with bolting	216 x 150 x 4 mm, 1/2 inch, 12 mm	1
10	Insulation	Sherawool 30mm with cladding	1
11	Water Circulation pump	0.25 Hp. Submersible	1
12	Water Barrel	200 liter	1
13	Structure Table	800 x 450 x 300	1
14	Vessel bottom	216 x 12 mm	
Instrumentation			
15	Electrical Coil Heater	3 KW I phase	2
16	Thermowell	1/2 tube x 600 mm	1
17	Discharge Valve and receiver with thermowell (optional)	4 inch (High Temp.)	1
18	Thermocouple sensor with sensor wire	"K" type	1
Controls			

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19	Control panel	MCB 32 Amp., Temp. Controller, Switches, Amp. Meter, Emergency Switch, Wiring and contactor, Panel box	1
20	Pressure Safety valve	15 mm Industrial spring	1
21	Pressure Gauge	100 mm -1 to +1 kg/cm ² (Gly.)	1
Accessories			
22	Feedstock Shredder with motor and gearbox	Cutting size 3-15 mm with desired sieving option	1