



**VASANTDADA SUGAR INSTITUTE**  
**MANJARI BK., HAVELI, PUNE- 412307**  
**Phone: 020-26902316/26902286 Fax. 020-26902244**  
**WEBSITE: [www.vsisugar.com](http://www.vsisugar.com)**

**TENDER NOTICE**

Sealed offers are invited in two envelopes (in prescribed format) from manufacturers/suppliers for supply, installation, commissioning.

Sr. No.	Item/Description	Tender form fees	EMD Amount
1.	CHNSO Analyzer, Qty.: 1 No. (with Desktop, Printer & UPS system)	Rs.5,600/- (GST Rs.600/- Incl.)	Rs.1,00,000/-

The detailed tender notice, tender forms & Specifications are available on website [www.vsisugar.com](http://www.vsisugar.com) Blank Tender forms are available from - **27/09/2021**. The tender form can be downloaded from website. The Pre bid meeting will be held on **08/10/2021 (11.00AM)**. Last date for submission of Tender form is **14/10/2021**. Postal delay will not be considered. Institute reserves the right to accept or to reject any or all tenders without assigning any reason thereof.

**Note: The submission date is extended till 02.11.2021**

DIRECTOR GENERAL

**COMMERCIAL BID**  
**(Tender form for CHNSO Analyzer)**

From: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Ph/Mobile No. \_\_\_\_\_

To,  
The Director General,  
Vasantdada Sugar Institute,  
Manjari Bk., 412 307,  
Tal.- Haveli, Dist.- Pune

Sub: Tender for "CHNSO Analyser". ..

Dear Sir,

As per your tender notice published in Daily \_\_\_\_\_ dated: /09/2021,  
we are submitting herewith our lowest offer as under.

Sr.No.	Particulars	Rate	Quantity	Amount Rs.

Note: The rate should be quoted in words & figure.

**Terms & Conditions:**

1. Taxes :
2. Delivery :

**Declaration:** I/We agreed to supply the material/complete the work within stipulated period and also accept all terms and conditions mentioned in tender.

Yours faithfully,

Signature:

Name :  
Stamp of the firm:

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**(Tender form for CHNSO Analyzer)**  
**Sub: Tender Terms & Conditions**

1. Please quote the rate of CHNSO Analyzer with desktop, printer and UPS system, all taxes, freight, warranty, loading & unloading, installation, commissioning and successful operation at VSI, Manjari Bk., Haveli, Pune.
2. Offer should be valid for 90 days.
3. Demand Drafts of Tender form fee and Earnest money deposit (as mentioned in tender notice) of Nationalized/schedule Bank in favor of Vasantdada Sugar Institute, Pune.
4. Supplier/Agency will have to complete the order/work as per the purchase/work order. If the supplier/agency failed to complete the job within 30 days, penalty equal 0.5 of cost of contract value per week will be recovered.
5. All Taxes, Insurance, Road Toll etc. on the suppliers account.
6. The Institute is not responsible for any accidents/claims during the transportation/work/installation of the material/equipment.
7. Supplier/Agency should submit the delivery challan, without delivery challan/invoice unloading will not be allowed.
8. The Supplier/Agency should give prior intimation before unloading.
9. No advance payment is allowed.
10. Earnest money deposit will be forfeited if supplier withdraw his offer or refuse to sign an agreement of supply.
11. The decision of Director General, Vasantdada Sugar Institute is binding on supplier in respect of the entire dispute.
12. T.D.S. provisions of I.T. Act are applicable, and according T.D.S. at applicable rate would be deducted from bill amount.
13. Selected Supplier/Agency will have to deposit the security deposit of 4 % of the total order cost and sign an Agreement before placement/receiving of order on Rs.500/- non-judicial stamp paper.
14. In case of down load of tender form from website, the cost of the tender form by DD should be submitted along with offer in envelope no.1 (Technical bid)
15. 90% payment will be made within 15 days against supply/installation/completion of work/commissioning as per order/specification at our site. ii. Balance 10 % amount will be made after expiry of warranty period/inspection within 30 days from the date of receipt of bill.
16. If the Supplier/Agency failed to supply the equipment/to complete the work ordered, the same would be purchased from other agency at the risk & cost of the firm.

**IMPORTANT:** The Tender should be submitted in two separate sealed envelopes in the following manner with clearly mentioning the subject of the tender.

**Envelope No. 1 :** D.D. of EMD, Cost of tender form, a copy of firm registration, a copy of GST registration, a copy of PAN card, a copy of Authorized dealership, technical manpower available, the list of customers to whom similar equipment supplied. Technical Information & brochure of the equipment.

**Envelope No. 2.** Commercial offer only. The rates should be quoted both in words and in figures. In case of variation in rate quoted in figures & word, the rate quoted in word shall be acceptable.

**Chief Accountant & I/c. Purchase**

**(Tender form for CHNSO Analyzer)**

**CHNSO ANALYSER with Desktop, Printer and UPS System, Qty.: 1 No.  
TECHNICAL SPECIFICATIONS for CHNSO Analyzer**

Fully Automated PC controlled Elemental Analyzer for Solid, Liquid and semi solid samples.

Operating modes for measurement of CHNS, CHN, CNS, S, and O-TCD, **Cl (optional)**

- 1. Sample weight range:** 0.1 to 1000mg
- 2. Furnace System:-**
  - i. Should have two zone furnace system, separate for combustion and reduction with independent temperature control for each furnace. It should be possible to set difference temperature for combustion and reduction.
  - ii. Automated switch from CHNS to oxygen and vice versa.
  - iii. The instrument should have provision to remove residual ash.
  - iv. Temperature range:-1000<sup>o</sup>C to 1800<sup>o</sup>C
  - v. Warranty:- Minimum 10 years
- 3. Auto sampler System:-**
  - i. At least 32 positions for solid, semi-solid samples and liquid samples.
  - ii. Auto sampler should have the provision to upgrade in future.
- 4. Microbalance:-**
  - i. The instrument should be supplied with Microbalance.
  - ii. Weighing range:-0.001mg to 2000mg.
- 5. Carrier gas:-** The instrument should use Helium as carrier gas and Oxygen as combustion gas with purity of min.99.995%
- 6. Separation system:-**
  - i. Advanced Chromatographic separation of gases using temperature programmed desorption column or equivalent.
  - ii. Complete instrument control over elution process with provision of auto zero of baseline after each element elution.
  - iii. Full separation of all analytes and there should be no peak tailing or peak overlap.
- 7. Consumables:-**
  - i. The vendor should make all the necessary arrangements related to gas connection, tubing, gas purification system etc. which connect gas cylinders to CHNSO analyser. Vendors should inspect our proposed location of installation of CHNSO analyzer and location of cylinders. ( He & O<sub>2</sub>).
  - ii. To be supplied with consumables sufficient for 5,000 sample analysis in CHNS/CNS mode, and 1000 sample analysis in Oxygen mode.
  - iii. To be supplied with sample preparation device for solid, semi-solid and liquid samples.

**8. Detector system:-**

- i. The instrument should work on the principle of Thermal Conductivity detector for C,H,N,S and O.
- ii. The separation of gases should be done through GC column.
- iii. The analysis time should be less than 10 minutes.
- iv. Detection range:- 0.002 to 100 % for all elements (C,H,N,S,O).
- v. Standard deviation:-  $\leq 0.1\%$  of absolute.

**9. Warranty:-** The vendor should give minimum 10 years warranty on TCD and Furnace. Documentary proof of the same should be submitted during tender.

**10. Comprehensive Maintenance contract:-** The vendor should give minimum 3 years CMC on instrument.

**11. Desktop/Computer:-** Intel Core i3 or better , RAM-At least 4GB RAM, Hard drive-512 GB or more, Screen size-18" or more, At least 3 USB 2.0 ports  
Windows 10, 64-bit.

**12. Printer:-** Black & white laserjet Multi Functional Printer (Print, Copy, Scan)

**13. UPS system:-** 5KVA online UPS with 30 min backup.

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