



VASANTDADA SUGAR INSTITUTE
MANJARI BK., HAVELI, PUNE- 412307
Phone: 020-26902316/26902286 Fax. 020-26902244
WEBSITE: www.vsisugar.com

TENDER NOTICE

Sealed offers in two envelopes (in prescribed format) are invited from reputed firms for supply, installation, commissioning and successful operation as detailed below;

Sr. No.	Item/Description	Tender form fees	EMD Amount
1.	Spectrophotometer	Rs.1,120/- GST Incl.	Rs.10,000/-
2.	RIBBON BLENDER	Rs.560/- GST Incl.	Rs.5,000/-
3.	Pump/Tracks/Etc.	Rs.1,120/- GST Incl.	Rs.10,000/-
4.	Elisa Plate Washer	Rs.560/- GST Incl.	Rs.5,000/-
5.	Elisa Reader (Microplate)	Rs.560/- GST Incl.	Rs.5,000/-
6.	Deep Freezer (-80)	Rs.1,120/- GST Incl.	Rs.10,000/-
7.	Water Purification System	Rs.1,120/- GST Incl.	Rs.10,000/-

For further details please visit website. The tender form can be downloaded from website. The Pre bid meeting will be held on **18/01/2022 (03.PM)**. Last date for submission of Tender form is **27/01/2022**. Institute reserves the right to accept or to reject any or all tenders without assigning any reason thereof.

DIRECTOR GENERAL

Tender Terms & Conditions

1. Please quote for the rate, GST, other taxes, freight, warranty, loading & unloading, installation, commissioning and successful operation at VSI, Manjari Bk., Haveli, Pune separately.
2. Offer should be valid for 90 days.
3. Demand Drafts of Tender form fee and Earnest money deposit (as mentioned in tender notice) should be 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 as liquidated damages.
5. The Institute is not responsible for any accidents/claims during the transportation/work/installation of the material/equipment.
6. Supplier/Agency should submit the delivery challan, without delivery challan/invoice unloading will not be allowed.
7. The Supplier/Agency should give prior intimation before unloading.
8. No advance payment is allowed.
9. Earnest money deposit will be forfeited if supplier withdraw his offer or refuse to sign an agreement of supply.
10. The decision of Director General, Vasantdada Sugar Institute is binding on supplier in respect of the entire dispute.
11. T.D.S. provisions of I.T. Act are applicable, and according T.D.S. at applicable rate would be deducted from bill amount.
12. 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 purchase order on non-judicial stamp paper of Rs.500/-.
13. The demand drafts of tender form fee and earnest money deposit should be submitted along with offer in envelope no.1 (Technical bid)
14. 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.
15. 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 Tender form fee and EMD, 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

(Tender form for _____)

From: _____

Ph/Mobile No. _____

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

Sub: Tender for “ _____ ” . . .

Dear Sir,

As per your tender notice published in Daily _____ dated: /12/2021,
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:

SPECIFICATION DETAILS

1. Specifications for Spectrophotometer, Qty. : 1 No. **(Double Beam UV visible spectrophotometer with plate Reader)**

UV/Vis/IR absorbance spectrometer wavelength range 190nm to 1000nm for IR up to 4500cm⁻¹

- Selectable spectral resolution facility.
- 96 well Microplate reading facility.
- Low volume microplate (2ul) sample reading compatibility with low volume plate.
- Standard cuvette (1 to 5ml) port for sample and standard measurement.
- Multimode measurement facility (well scanning ,kinetic and endpoint measurement)
- Computer as well as onboard operating facility, should have user friendly interface software with data analysis facility (full version lifetime license validity of software is mandatory).
- Microplate shaking facility.
- Temperature control facility for both microplate and cuvette reading.
- Corrosion resistant machine material including packing screw.
- Protective cover for machine (all cooling fan as well opening should be covered with small protective net)
- CE compliance certified.

2. Specifications for Ribbon Blender, (Stainless Steel) Qty. : 1 No.

-1000 kg. capacity

Chamber and blending blades should be 316 ss material

Other parts 304 SS

- Motor should be 5- 10 HP with 50 rpm
- High torque capacity
- With necessary spares and facilities on loading and unloading material, Side discharge facility.

Continuous Ribbon design for complete discharge of

The finished product.

Three phase induction motor

Triple Blending action

Contd.

3. Specifications for Automated Media Dispenser Peristaltic Pump, Qty. : 1 No.

- Model – 520 Din Drive , 350rpm IP66 115/230V 1ph 50/60Hz
- 505L low pulse pump headed twin offset tracks
- Pumpsil 9.6mm/2.4mm. double segment Knyar ‘Y’ element

4. Specifications for Elisa Reader (Microplate Reader), Qty. : 1 No.

General:

Detection modes	: Absorbance
Read methods	: Endpoint. Kinetic, well area scanning
Microplate	: Types 6-, 12-, 24-, 48-, 96-well microplates Maximum plate height 0.9" (22.86 cm)
Shaking	: Linear
Onboard software	: User-programmable protocols Save results to USB thumb drive
User interface	: Color LCD touch screen display

Absorbance:

Light source	: Tungsten halogen
Detector	: Photodiode
Wavelength selection	: Filters
Wavelength range	: 400 to 750 nm
Dynamic range	: 0 to 4.0 OD
Resolution	: 0.0001 OD
Filter wheel capacity	: 5
Filters supplied	: 405, 450, 490, 630 nm
OD accuracy	: $\pm 1.0\%$ ± 0.010 OD from 0.0 to 2.0 OD @ 405 nm
Reading speed	: 96 wells, single wavelength Sweep read mode: 11 seconds

Software: Single integrated windows based software for Reader control and data analysis with multiple user licenses should be supplied with the instrument. The software should be able to analyze the data and perform the calculations. Software must have Quick Read function to enable read the plate without lengthy protocol definition.

Power: External 24VDC power supply compatible with 100-240VAC @50-60Hz
Power consumption: 40 Watts

Contd.

5. Specifications for Elisa Washer (Microplate washer) Qty.: 1 No.

- Should be capable of washing all 96 well Microplates and Strips – Flat, Round and ‘V’ bottom wells.
- Should have programmable dispense volume from 50 to 3000 μ / per well
- Residual volume should be < 2 μ /well in solid bottom plates
- Dispense Precision should be < 3% CV
- Programmable soak time from 1 to 30 minutes
- Programmable Microplate shaking in minutes and seconds up to 30 minutes and different intensities from 15 – 19 Hz
- Should have minimum 4.3" Colour LCD Touchscreen display
- Fluid delivery system: Positive displacement syringe drive pump with adjustable flow rates. Non-pressurized dispensing to eliminate the need of specific shape & capacity reagent bottles.
- Allow user to use any shape & Capacity of containers (open end bottles, flasks, beakers, etc.) On board software should allow user to store programmable protocols including Wash, Dispense, Aspirate, Shaking, Rinse and Prime
- Should have Quick Menu function to allow using the instrument without defining any protocol
- Should have Wash cycles from 1 to 10
- Should have provision to program Variable fluid flow rates of 150 – 1000 ul/ well / second
- Wash speed for 96 wells using 8- well manifold, 3 cycles, 300 μ L/well should be less 130 seconds
- Should have facility for Multi speed shaking, Auto Prime and Rinse Programs, Bottom Washing, Crosswise Aspiration and Program to Program Linking
- Aerosol cover should be supplied for user protection
- Should have Spill over protection, In Line Vacuum filter
- Should have pre-programmed maintenance Protocols including Rinse and Decontamination. 8 channel manifold, Plate carrier for solid bottom plate, Wash, Rinse and Waste Bottles – 2 litres each Maintenance kit should be supplied with the instrument.
- Power Supply : 100 to 240V, 50-60 Hz, 40 Watts

Contd.

6. Specification for - 80 °C Deep Freezer, Qty.: 1 No.

Technical:

- Cabinet Type : Upright/ Horizontal
- Climate Class : N
- Cooling Type : Direct cooling
- Defrost Mode : Manual
- Refrigerant : HC
- Noise Level (dB) : 50

Performance:

- Cooling performance(°C) : -86
- Temperature Range(°C) : -40~-86

Control:

- Controller : Microprocessor
- Display : LED

Electrical Data:

- Power Supply(V/Hz) : 220-240/50
- Power(W) : 9001000
- Electrical Current(A) : 8 8

Dimensions:

- Interior Dimensions(W*D*H) : 590*630*1310(mm) 23.2*24.8*51.6(in)
- Exterior Dimensions(W*D*H) : 860*900*1980(mm) 33.9*35.4*78.0(in)
- Packing Dimensions(W*D*H) : 925*985*2150(mm) 36.4*38.8*84.6(in)
- Capacity(L/Cu.Ft) : 490/17.3
- Net/Gross Weight(approx) : 295/335(kg) 650.4/738.5(lbs)
- Container load (20'/40'/40'H) : 12/24/24

Functions:

- High/Low Temperature, Remote Alarm, Hot Condenser, Power Failure, Sensor Error
- Low Battery, High Ambient Temp, Door Ajar

Accessories:

- Caster, Foot, Test Hole
 - Shelves/Inner Doors
 - USB Interface
 - Certificate : CE/UL
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Contd.

7. Specification for Water Purification system, Qty. :1 No.

A single compact system should be capable of producing type III & type I water from potable soften feed water.

- An external pre-treatment should be offered as a part of the system for 10", 5 micron particulate filter cartridge and 10" active carbon cartridges.
- System should accept feed water pressure from 0.1 to 5 bar, without the need of additional booster pump installation.
- Should have 2-in-1 pre-treatment cartridge for treatment of feed water with active carbon and 5 micron particulate matter. It should be single cartridge & should not be a dual module.
- System should have Reverse Osmosis technology to produce pure water with recovery rates of minimum of 25- 30% at the **flow rate of 10 liter/hr.**
- System should be equipped with conductivity measurement after RO to measure quality of water after Pre-treatment & RO module.
- A minimum 7 liter PE tank with total draining facility should be a part of the system & it should be integrated into the system. The tank should be equipped with 3 level sensing using float switch.
- Tank should be filled from upward side of the tank to understand & for visually checking of the flow of the Type III water output.
- It should be also equipped with:
 - Vent filter
 - Facility for extraction of Type III water. (Separate Tap should be available)
- System should be equipped with polishing treatment for pre-purified water, to produce Ultra- pure water of type I. Polishing channel should include dual wavelength (185 nm & 254 nm) UV oxidation chamber in Vertical Position, Polishing cartridge with nuclear grade resins and high quality carbon exchanger followed by conductivity measurement and final charged point of use filter of 0.2 micron at the end of the dispenser.
- The UV Oxidation chamber should be in vertical position for better TOC removal.
- System should be equipped with backlit graphical LCD display, which should indicate Purity of water after every stage of purification (minimum 2 - stages) and tank level simultaneously. It should also notify user for any malfunction of the system with warning of change of cartridges if any.

- Microprocessor should monitor operating hours, UV light hours, Temperature and tank level.
- Sterile Filter / Point of use filter of 0.2 micron should be a positively charged filter at the dispenser which removes particles, bacteria & endotoxins eliminating the need for separate UF cartridge. An un-charged 0.2 micron final filter also should be available as option.
- System should have 2 conductivity measurement **one after RO Module & another after Polishing Module.**
- System should have water Circulation using separate Circulation Pump right into the dispenser head & Conductivity Sensor should constantly measure product water quality in the recirculation loop.
- System should have rapid & simple disinfection procedure.
- Simple module exchange via quick release connections.
- It should have protective jacket at the end of the sterile filter.
- It should have energy saving mode (Whisper Mode).
- **Product water specification into the tank:**
Flow rate: 10 Ltr/hr.
 Typical conductivity: It should be type III water with 95-98% rejection.
 Rejection rate for ions (%) 98 max
 Rejection rate for bacteria (%) >99
 Rejection rate for particles (%) >99
- **Product water specifications for Ultra-pure Type I water:**
 Flow: up to 1.2 liter/min
 Conductivity: 0.055 μ S/cm
 Resistivity: 18.2 M Ω -cm.
 Bacteria: < 1 cfu/ml
 TOC: < 1- 5 ppb.
 Endotoxin: < 0.001 EU/ml
 Particles > 0.2 micron: < 1 per ml.

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