



VASANTDADA SUGAR INSTITUTE, MANJARI BK.
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TENDER NOTICE

Sealed offers in two envelopes are invited for the following instruments from reputed, standard & experienced manufacturer/suppliers

Tender No	Name of work	Earnest Money (Rs)	Time Limit	Cost of Tender(Rs)
1	DNA sequencer machine & its consumables, Gentle rotator mixer, Bioanalyzer, Gel Documentation system with Computer, software & printer	50,000/-	3 Months	5310/-
2	Liquid Nitrogen container for Cryopreservation of microorganisms	25,000/-	3 Months	3540/-

The blank tender forms will be issued from **29/10/2022 to 18/11/2022** in the office of Director General, Vasantdada Sugar Institute, Manjari Bk. Tal. Haveli, Dist. Pune (020 26902312 / 02026902100) on working dates on production of certified copies of following documents

- 1) Copy of firm registration /Company registration
- 2) Registration certificate GST
- 3) Copies of income tax return from last three years
- 4) Pan Card Copy
- 5) The list of customers to whom the item no. 1 & 2 are supplied during the last three years, documentary evidence is necessary.

The Pre-bid Conference will be held in the Office of Director General, Vasantdada Sugar Institute, Manjari Bk Pune on **14/11/2022** at 14.00 Hours.

The sealed Tender will be received in the office of Director General, Vasantdada Sugar Institute, Manjari Bk., Tal. Haveli, Dist. Pune on **18/11/2022** up to **17.30** hours

VSI reserves the right to reject one or all tenders or any item/items of the tender without assigning any reason there to.

Director General

Offers are invited from the standard manufacturer of DNA sequencer machine, Gentle rotator mixer, Bioanalyzer, Gel Documentation system with Computer, software & printer and Liquid Nitrogen container for Cryopreservation of microorganisms

1. DNA sequencer machine for the 16s rRNA identification of microorganisms (Nanopore Technology - Ligation Sequencing)

- It should work by passing DNA/RNA strands through a tiny hole — a Nanopore — that sits in an electrically resistant membrane.
- As the strand passes through, the individual building blocks of the DNA/RNA should cause disruptions in the current, which can be decoded to interpret the sequence in real time.
- It should have the ability to sequence a range of DNA/RNA fragments from short to ultralong(>4 Mb).
- It should have the ability to sequence the native DNA/RNA molecule, real time data streaming, and scalability— eliminate amplification-bias and directly identify epigenetic modifications (i.e. methylation).
- It should provide scalable, rapid insights and rich biological data.
- Real-time data streaming should immediately access to actionable results
- It should give flexible throughput with modular GridION and PromethION
- It should be ultimate flexible to optimize application • Easier to genome assembly • should resolve structural variants, repeats, and phasing • should characterize and quantify full-length transcripts.
- It should enrich regions of interest without additional sample prep using adaptive sampling.
- Consumables should be supplied by manufacturer / supplier

1a. Gentle rotator mixer

Rocking Angle	0 to 12 °
Electrical Requirements	230 V, 50/60 Hz
Amperage	0.7 A
Load Bearing Capacity (English)	20 lb.
Frequency	50/60 Hz
Depth (Metric)	33.02 cm
Height (English)	11 in.
Length (English)	14 in.
Width (English)	14 in.
Timer Range	Up to 12 hr., Continuous
Speed Range	5 to 120 rpm
Voltage	230 V
Product Type	Wave Action Shaker
Certifications/Compliance	CE
Depth (English)	13 in.
Dimensions (L x W x H)	14 x 14 x 11 in. (35.6 x 35.56 x 27.94cm)

1b. Bioanalyzer

Sample volumes 1 - 5 μ l. 10 -12 samples depending on Assay Separation, staining, detection of samples
Results in 5-30 minutes available No extra waste removal needed Disposable Chip, no cross contamination.

Should have exchangeable cartridge for different assays, 16 pin electrodes connected to HV source, DNA- 1000, 7500, 12000 Sizing, PCR products should digests, larger DNA fragments. 12 samples in 30 min.

RNA - Quantitation (Sizing in Small RNA), total RNA, mRNA, purity & integrity determination, 10 samples in 30 min.

Protein Assays: P80, P230, HSP-250, Sizing, Quantitation, cell lysates, column fractions, purified proteins, antibodies etc. & 10 samples in 40 min.

Gel Documentation system with Computer, software & printer

- Low Noise CMOS imaging sensor
- It should have ability of imaging of diverse samples on 1-D and 2-D gels, colorimetric dot and slot blots, film-based chemiluminescent blots and autoradiograms.
- It should give protein quantitation for Coomassie Blue- and silver-stained gels over a wide dynamic range of 0–3.4 OD.
- It should scan large gels — Upto 29 \times 33 cm imaging area.
- It should give rapid image acquisition and analysis with intuitive, user-friendly Lab Software.
- It should have automatic self-calibration before each run.
- It should use built-in NIST-traceable step tablets for internal calibration to ensure the accuracy of each scan.
- It should have one-touch operation button for further ease of image acquisition.
- Lab Software should be as to simplify image analysis.
- It should have automated analysis for saving time and should ensure consistency between runs.
- Includes detailed tutorials; no previous imaging experience required to produce optimum gel and blot images.
- Flexible analysis — simply modify user settings to match SOPs and fine-tune band detection, background level, and other settings.
- Easy reporting with the ability to create customized reports.
- It should have 16-bit precision and 36.3 μ m resolution for the analysis of very close bands on a gel.
- Sealed imaging area to accommodate wet samples of variable thickness.

2. Liquid Nitrogen container for Cryopreservation of microorganisms

Max Design Pressure	10-15 bar
Capacity	50 - 150 Liter
Storage Material	Liquid Nitrogen
Material	Stainless Steel
Surface Treatment	Mirror
Material Grade	SS304
Sticks	8-10 no.s