



संशोधनेन संवृद्धिः

VASANTDADA SUGAR INSTITUTE

MANJARI (Bk), 412 307, Tal. Haveli, Dist. Pune

Phone 020-26902100 (15 lines)/ 286 Fax No. : 020-26902244

Website: www.vsisugar.com

COMMERCIAL BID

(Tender Notice No. 10-2018, Tender form for Pilot Scale Fermentation System)

TENDER FORM NO.

(Total Pages-09)

From: _____

Ph/Mobile No. _____

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

Sub: Tender for pellet machine.

Dear Sir,

As per your tender notice published in Daily _____ dated: / /2018, 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 :
3. Validity :

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

Yours faithfully,

Signature:

Name :

Stamp of the firm:

**(Tender Notice No. 10-2018, Tender form for Pilot Scale Fermentation System)
Sub: Tender Terms & Conditions**

4. Please quote the rate including freight, all taxes, loading & unloading, fabrication, installation, and successful commissioning of plant/system at our site/premises of M/s. Daund Sugars Pvt. Ltd., A/p: Alegaon, Daund, Pune-413801
5. Demand Draft of Rs.1, 00, 000/- of Nationalized/schedule Bank in favor of Vasantdada Sugar Institute, Pune towards Earnest Money Deposit.
6. Supplier will have to complete the order within 30 days from the date of order. If the supplier failed to complete the job within 30 days, penalty equal 0.5 of cost of contract value per week will be recovered.
7. All Taxes, Road Tolls etc. on the suppliers account.
8. The Institute is not responsible for any accidents/claims during the transportation/installation of the system/material.
9. Supplier should submit the delivery challan, without this unloading will not be allowed.
10. The supplier should give prior intimation before unloading.
11. No advance payment is allowed.
12. The decision of Director General VSI is binding on supplier in respect of the entire dispute.
13. T.D.S. provisions of I.T. Act are applicable, and according T.D.S. at applicable rate would be deducted from bill amount.
14. Selected 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.
15. 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)
16. 95% payment will be made within 15 days against supply/installation/successful commissioning of system as per specification at our site. ii. Balance 5 % amount will be made after expiry of warranty period/inspection within 30 days from the date of receipt of bill.
17. If the supplier failed to supply the equipment ordered, the same would be purchased from other agency at the risk & cost of the firm.
18. The liquidated damages for delay in supply would be levied @ 1 % of the cost of equipment.

IMPORTANT: The Tender should be submitted in two separate sealed envelopes in the following manner.

Envelope No. 1. : D.D. of EMD, Cost of tender form, technical manpower available, the list of customers for whom similar works have been done during last two years, a copy of registration, a copy of VAT registration, a copy of PAN card, a copy of Authorized dealership, Technical Information & brochure of the equipment offered and the list of the customers to whom similar equipment supplied.

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 Notice No. 10-2018, Tender form for Pilot Scale Fermentation System)

Specifications:

Qty.:-1 No.

1. BASIC INFORMATION OF SPECIFICATION

- The specification is intended to cover the design, engineering, manufacture, shop fabrication, assembly, pre-assembly, tests and inspection at manufacturer's works, packing, supply, erection and commissioning of skid mounted fermentation pilot scale Plant.
- The equipment and services furnished shall meet all the requirement of this specification, data sheets etc., In case of any conflict/ contradiction among various parts of the specification and data sheets, the same shall be referred to the VSI for clarification.
- It is not the intent to specify completely herein all aspects of design and construction of equipment. Nevertheless, the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in a manner acceptable to the owner who will interpret the meaning of the specification, drawings and shall have right to reject or accept any work or material which in their assessment is not complete to meet the requirements of this specification and / or applicable national and / or international standards mentioned elsewhere in the specification.
- If any provision of this specification departs from the Bidder's usual construction sufficiently to materially increase cost of equipment without (in Bidder's opinion) providing a corresponding increase in quality or if the Bidder considers that their usual construction would provide better quality, the Bidder shall call this to the attention of the owner by submitting an alternative bid. However, in any case, a base bid shall be submitted based on the equipment and services as specified.
- Whenever material or item is specified or described by the name of a particular brand, manufacturer or trade mark, the specific item shall be understood as establishing type, function and quality desired. Other manufacturer's products may also be considered provided sufficient information is furnished so as to enable the owner to determine that the products are equivalent to those named.

(Tender Notice No. 10-2018, Tender form for Pilot Scale Fermentation System)

2. SCOPE OF SUPPLY AND SERVICES

The scope of work shall include, but shall not necessarily be limited to the following:

- Design, Engineering, Manufacturing, Quality control, Shop cleaning, Calibration and testing, complete painting, transportation / shipment to site, receiving and unloading of materials and safe storage, leading the material from the storage to the erection site, erection, pre-commissioning, commissioning, and performance testing of Fermentation Pilot plant with the configuration given below: -
- The Bidder shall provide all the data for construction of skid mounted fermentation pilot scale Plant Civil work. The Layout drawing prepared by Bidder shall be approved by Consultant / Architect.
- Bidder shall note that the complete civil work will be carried out by Purchaser's contractor and is not included in the Bidder's scope.

A. SCOPE OF SERVICE:

- Process engineering, Basic engineering, detailed engineering, Control loops and P & I of the Fermentation pilot plant.
- Erection & commissioning of Plant.
- 15 days of continuous operation to be conducted jointly.
- Training of plant personnel is also to be done.
- Minor modification after commissioning, if required, will be in the scope of supplier.

B. EXCLUSIONS:

- The civil work is excluded from Bidder's scope.
- All cables beyond terminal points.

NOTE: 1. Any deviation taken on commercial & technical specification shall be clearly brought out as per the enclosed format of "Schedule of Deviations", indicating the section No. clause and description of deviation taken as against that specified. Changes or deviation or clarification indicated in any other place of the offer other than schedule of deviation will not be taken note of

(Tender Notice No. 10-2018, Tender form for Pilot Scale Fermentation System)

Technical Specifications for skid mounted Pilot Scale Pre-Clarification Plant

3. BASIC INFORMATION OF SPECIFICATION

- The specification is intended to cover the design, engineering, manufacture, shop fabrication, assembly, pre-assembly, tests and inspection at manufacturer's works, packing, supply, erection and commissioning of skid mounted fermentation pilot scale Plant.
- The equipment and services furnished shall meet all the requirement of this specification, data sheets etc., In case of any conflict/ contradiction among various parts of the specification and data sheets, the same shall be referred to the VSI for clarification.
- It is not the intent to specify completely herein all aspects of design and construction of equipment. Nevertheless, the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in a manner acceptable to the owner who will interpret the meaning of the specification, drawings and shall have right to reject or accept any work or material which in their assessment is not complete to meet the requirements of this specification and / or applicable national and / or international standards mentioned elsewhere in the specification.
- If any provision of this specification departs from the Bidder's usual construction sufficiently to materially increase cost of equipment without (in Bidder's opinion) providing a corresponding increase in quality or if the Bidder considers that their usual construction would provide better quality, the Bidder shall call this to the attention of the owner by submitting an alternative bid. However, in any case, a base bid shall be submitted based on the equipment and services as specified.
- Whenever material or item is specified or described by the name of a particular brand, manufacturer or trade mark, the specific item shall be understood as establishing type, function and quality desired. Other manufacturer's products may also be considered provided sufficient information is furnished so as to enable the owner to determine that the products are equivalent to those named.

4. SCOPE OF SUPPLY AND SERVICES

The scope of work shall include, but shall not necessarily be limited to the following:

- Design, Engineering, Manufacturing, Quality control, Shop cleaning, Calibration and testing, complete painting, transportation / shipment to site, receiving and unloading of materials and safe storage, leading the material from the storage to the erection site, erection, pre-commissioning, commissioning, and performance testing of Fermentation Pilot plant with the configuration given below: -
- The Bidder shall provide all the data for construction of skid mounted fermentation pilot scale Plant Civil work. The Layout drawing prepared by Bidder shall be approved by Consultant / Architect.
- Bidder shall note that the complete civil work will be carried out by Purchaser's contractor and is not included in the Bidder's scope.

C. SCOPE OF SERVICE:

- Process engineering, Basic engineering, detailed engineering, Control loops and P & I of the Fermentation pilot plant.
- Erection & commissioning of Plant.
- 15 days of continuous operation to be conducted jointly.
- Training of plant personnel is also to be done.
- Minor modification after commissioning, if required, will be in the scope of supplier.
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D. EXCLUSIONS:

- The civil work is excluded from Bidder's scope.
- All cables beyond terminal points.

NOTE: 1. Any deviation taken on commercial & technical specification shall be clearly brought out as per the enclosed format of "Schedule of Deviations", indicating the section No. clause and description of deviation taken as against that specified. Changes or deviation or clarification indicated in any other place of the offer other than schedule of deviation will not be taken note of.

Technical Specifications for skid mounted Pilot Scale Pre-Clarification Plant

Sr. No.	Particular	Technical Specification
1.	Molasses broth mixer or molasses & water mixer (static mixer with non-clogging mixing element)	Capacity- 1 M ³ /hr MOC- SS-304 Pipe schedule 40 mixing element 3 mm
2.	Jacketed type Draft tube reactor with air sparging arrangement, de-mister pad including PVR with pressure indicator. Level indicator. Conical bottom 35° Pressure rating 1-2 bar. Drain valve and sample collection provision Temperature and pH sensor with indicator Flocculent Dosing pump (5 ppm range)	Capacity- 1.5 M ³ MOC- SS 304 Shell thickness- 3mm L/D Ratio- 2:1
3.	Molasses storage tank	Capacity- 1.5 M ³ MOC- PVC Food grade
4.	CO ₂ Blower Twin lobe type Qty. 2 Nos.	Capacity- 150 M ³ /hr Body-CI Type –Water ring
5.	Balance tank with conical bottom with central agitator & necessary fittings	Capacity- 1.5 M ³ MOC- SS 304 Shell thickness- 3mm L/D Ratio- 2:1
6.	Plate type Heat Exchanger (Wide Gap) Qty. – 2 Nos.	Make – Alfa Laval MOC- Plate SS 316 Frame- MS Plate thickness- 0.6 mm
7.	Diluted molasses pumps with motor before Cooler	Capacity- 2 M ³ /hr Contact part- SS 304 Quantity- 1 + 1 nos.
8.	Decanter	Make- Alfa Laval Capacity- 2 M ³ /hr MOC - SS 316 Quantity- 1 no.
9.	Pre-fermenter with air sparging arrangement Temperature probes Level indicator pH indicator probe	Capacity- 0.15 M ³ /hr MOC - SS 304 Quantity- 1 no.
10.	Fermenters with jacket and necessary accessories with L /D of 1.25: 1 Temperature probes Level indicator pH and pO ₂ probe with indicator	Capacity- 1.5 M ³ MOC - SS 304 Quantity- 2 nos.

11.	Fermenter Re-circulation pumps	Capacity- 0.9 M ³ /hr MOC - SS 304 Quantity- 2
12.	Molasses transfer pump	0.5 -1.0 M ³ /hr
13.	Piping & Valve a. For Molasses b. Water c. Steam d. Dilute Molasses e. Polyelectrolyte f. SS pipeline schedule 5 (15 NB) 150 m	MOC MS Class C MS Class B IBR SS 304 SS 304 SS 304
14.	<u>Instrumentation</u> 1. Water Rotameter 2. Magnetic flow meter 3. Online Brix meter 4. Brix control valve 5. Steam control valve 6. CO ₂ Flow transmitter with indicator 7. CO ₂ flow control valve 8. Steam flow meter 9. Temperature sensor with indicator 10. Cooling water control valves 11. Pressure gauge 12. pH sensor with indicator 13. pO ₂ sensor with indicator 14. PID controllers	Quantity 2 Nos. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. Lot Lot 3 No. 1 No. 3 Nos 3 Nos Lot
15.	Electrical including control panel	Existing distillery electrical facility to be used along with additional cabals and electrical accessories.
16.	Cooling Tower with cooling water circulation pump	Existing to be used
17.	Skid mounted total plant Structural work	Total plant structural work

Terms and conditions

- Interested parties should visit VSI for technical discussion and clarification of doubts before submission of technical and commercial offers.
- It's mandatory for all the parties to sign Non-Disclosure Agreement (NDA) along with offer.

Terminal points:

Molasses feed	Molasses will be available through Karkhana and supplier shall make provision for transfer of molasses from distilleries molasses holding tank to pilot plant molasses storage tank
Process water	Provision from the nearest process water points
Cooling water	Cooling water is available at existing distillery so provision for transfer from existing point to the pilot plant has to be made
Steam	Steam is available at existing distillery so provision for transfer from existing point to the pilot plant has to be made
Process Air	Air is available at existing distillery so provision for transfer from existing point to the pilot plant has to be made
CO ₂	CO ₂ is available at existing distillery so provision for transfer from existing point to the pilot plant has to be made.
Electricity	Provision has to be made from nearest electrical points
