



AMULFED DAIRY

A UNIT OF GUJARAT CO-OPERATIVE MILK MARKETING FEDERATION LIMITED
PURCHASE INQUIRY

Inquiry No : **AFD: PUR: ENQ: 2021: 15, Dated: 6th Jan, 2021**

Description : **Purchase Inquiry for Supply, installation and commissioning of SIBF technology bio digester.**

Qty : **1 Nos.**

Due Date : **15.01.2021**

Dear Sir,

You are requested to give your most competitive rates for **Purchase Inquiry for Supply, installation and commissioning of SIBF technology bio digester**, as per the attached specification/requirement mentioned in the attached annexure.

1. The offer should reach, AmulFed Dairy (A Unit Of Gujarat Co - Operative Milk Marketing Federation Limited.) Plot No. - 35, Near Indira Bridge, Ahmedabad - Gandhinagar Highway, Village: Bhat, Dist.: Gandhinagar. Pin No.382 428.
2. The offer should be sent in sealed cover super scribing on the top left hand corner offer for inquiry No. **AFD: PUR: ENQ: 2021: 15, Dated: 6th Jan, 2021**. Offer received after due date for whatsoever reason may be rejected.
3. Your offer should be sent through Post/Courier/mail or by Fax or personally.
4. Offer should be valid for acceptance, for 45 days from due date of submission of offer.
5. **The price should be quoted on F.O.R basis inclusive of packing and forwarding, taxes, excise duties, freight etc. However if it is separate, it should be clearly mentioned in the quotation.**
6. It should cover a warranty of at least one-year against manufacturing defect.
7. Realistic earliest delivery period should be indicated.
8. It is not binding on us to accept lowest offer.
9. Right to reject any or all the offers without assigning any reason is reserved by us.
10. Offer which are incomplete or not meeting the conditions or only for part items, are liable for rejections.
11. No queries regarding the status of the offer will be entertained at any time.
12. The final supplier will be the combined decision of our technical team and management and no reason of final selection will be conveyed to any bidder.
13. **Payment terms with 30 days credit shall be preferred.**
14. We are an ISO 14001 certified unit. We follow Eco- friendly processes in our factory & also expect same to be followed in your company.
15. For any query, you may contact Mr. Palak Shah, Purchase Department(07359001666),or mail: palak.shah@amul.coop

Amul SAGAR

Plot No. 35, Nr. India Bridge, Ahmedabad – Gandhinagar Highway, Village: Bhat, Dist.: Gandhinagar, PIN 382 428
Tel. No.: (079) 23969055 – 58, Fax No.: (079) 23969059
Website: www.amul.com



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Encl: Annexure-I-Schedule of Quantity

Annexure-I

Technical Specification

Preamble

AmulFed Dairy, Gandhinagar is the largest dairy plant in India with milk handling capacity of 5 million litres per day. The company has set up the plant with state of the art manufacturing facilities.

Objective

With an objective of recycling the domestic effluent, the company requires modular effluent treatment plant for treatment of domestic effluent. A drawing showing proposed location is attached herewith.

Technical specifications are as under:

Effluent Characteristics:

Typical effluent characteristics are as under:

SR.	PARAMETER	RAW EFFLUENT	TREATED EFFLUENT
1	Effluent flow rate	30 m ³ /d	25-30 m ³ /d
2	pH	6.5– 8.5	6.5 – 8.5
3	Chemical Oxygen demand	500-700 mg/L	<100 mg/L
4	Biochemical Oxygen demand	250-300 mg/L	<30 mg/L
5	Total Dissolved Solids	1500-2000 mg/L	< 2100 mg/L
6	Total Suspended Solids	300-400 mg/L	<30 mg/L
7	Oil & Grease	150-200 mg/L	< 10 mg/L

Technology to be adapted:

Taking into consideration the location of proposed domestic effluent treatment plant, future requirement of such plants at multiple locations and availability of skilled operating manpower, it is decided to install the plant with Phytoremediation/Solid Immobilized Bio Filtration (SIBF) system.

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Scope of Work:

- Selection of water treatment process including process train / sequences and preparing flow diagram etc.
- Basic process design including preparation of P&I diagram, determination of capacity and specifications of all units, selection of equipment / machinery, preparation of plant lay out etc.
- Execution on turnkey basis including plant and machinery, electrification and instrumentation.
- Pre-commissioning checks, no load trials, plant start-up, commissioning and operations of plant at design load for at least one month.
- Providing details of required civil work with dimensions, levels and structural loads for carrying out civil work by purchaser.
- All material and equipment shall be guaranteed against manufacturing defects for a period of 12 months from the date of commissioning. Also, performance warranty of entire system to meet the specified effluent outlet parameters shall be given for a period of 12 months from the date of commissioning.

Notes:

- The offer should include equipment/system required for handling of sludge generated during the treatment process.
- Bidder shall carry out the site visit, understand the present system configuration and submit most optimal layout & specifications for water recycling project.
- Battery limit shall be primary collection tank for storage of raw effluent for taking inlet water and final treated water storage tank for outlet of recycling water project. Electrical power shall be made available at a single point.
- All civil work shall be in purchaser's scope. However, bidder shall clearly specify the civil work requirement along with the offer like proposed size of length, width and height of inlet and outlet tanks and intermediate tanks, if any.

General Specifications:

Piping Work:

- All piping would be either GI or HDPE.
- All GI piping works shall be done using GI B Class pipes, duly painted as per relevant color codes.
- All HDPE piping work shall be done using pipe with pressure rating of 6 kg/cm²
- All the HDPE pipes and accessories should be suitable to "Electro fusion" jointing. All joints should be made by electro fusion welding only.
- Gravity pipeline sizing shall be done considering gravity difference between the equipment and theoretical pressure drop in piping at 1.2 times the design flow.

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- Pumping pipeline shall be sized at maximum velocity of 1.5 m/sec.

Electrical Work:

- The work shall be carried out in conformity with the relevant specification/codes of practice of the Bureau of Indian Standards.
- All power and control cables for use on 415 V system shall be of 1100 volt grade. All equipment feeder power cable shall be of copper conductor. Use of un-armored cable shall be done only under approval of our engineer in charge. All control cables shall be of copper conductor only.
- The job may require installation of outdoor MCC. Input power to MCC shall be provided by purchaser. Load details shall be given by vendor for deciding the input cable size. MCC shall be of IP 65 rating, free standing, non-compartmental type, except for the feeders requiring installation of VFD. All switchgears shall be of Siemens/L&T/equivalent make only. All variable frequency drives shall be Siemens/Danfoss/equivalent make only.
- Adequate double earthing (plate earthing) shall be provided on all electrical equipment. However, making the earthing pit shall be in the scope of Purchaser.

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