

Maahi Milk Producer Company Limited

3rd and 4th Floor Sakar Building, Opposite Rajkumar College
Dr. Radhakrishnan Road, Rajkot 360001, Gujarat
Phone: (0281) 2460732, Toll Free: 1800 2740 732

**INVITATION OF BIDS FOR PVC COATED FLEXIBLE TYPE PREFABRICATED
BIOGAS PLANTS**

Maahi Milk Producer Company Limited (MMPCL) is an Implementing Agency of the project under MNRE's National Biogas Programme. MMPCL invites Suppliers which are approved by Ministry of New & Renewable Energy (MNRE), Government of India to submit their bids for Turn Key Job for the supply, installation, supervision, commissioning and training for total 38 units of 2 M³ PVC Coated Flexible type Prefabricated Biogas Plants as specified in the bid document.

Bidding documents are available from the above office or may be downloaded from www.maahimilk.com . Eligible bidders may submit their bids on or before 18:00 hrs on 22/02/2024. For any further details, visit the company website or contact at the above address.

Note: Any corrigendum/modification etc. will be posted only on above mentioned website.

**Chief Executive
Maahi Milk Producer Company Limited**

INVITATION FOR QUOTATIONS
For the supply of 2 M³ PVC Coated Flexible Prefabricated Biogas Plants

REF No.: MMPCL/2023-24/FLEXI BIOGAS PLANT/01

Date : 12.02.2024

To
MNRE approved Suppliers
2 M³ PVC Coated Flexible Prefabricated Biogas Plants

Dear Sir,

Sub : INVITATION OF QUOTATIONS FOR SUPPLY OF 2 M³ PVC COATED FLEXIBLE PREFABRICATED BIOGAS PLANTS

1. You are invited to submit your most competitive quotation for the following goods: -

Brief Description of the Goods	Specifications	Quantity	Delivery & Installation Period	Place of Delivery	Installation Requirement if any
2 M ³ PVC Coated Flexible Prefabricated Biogas Plants -As per specification attached.	As per attached Annexure I	38 Nos.	Within 30 Days from the date of PO	As per attached list Annexure III	YES

2. Bid Price

- i. All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
 - ii. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - iii. The Prices shall be quoted in Indian Rupees only.
 - iv. For ready reference, we are providing standard quotation format for quoting the price. However, if any change is required by the bidder in the quotation format, you can incorporate the same.
 - v. Quotation would be evaluated for all the items together
3. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.
4. **Validity of Quotation:** Quotation shall remain valid for a period not less than 30 days after the deadline date specified for submission.
5. **Evaluation of Quotations:** The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
- a) are properly signed; and
 - b) conform to the terms and conditions, and specifications.
 - c) Quotation would be evaluated for all items together

GST, Packing, Forwarding, Freight & Insurance charges in connection with sale of goods shall be taken into account in evaluation.

6. **Award of contract:** The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive.
 - a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - b) The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the Purchase/Supply Order.
7. **Payment Terms:** 50 % payment on receipt of material within 30 days and remaining will be release within 30 days after proper installation and commissioning.
8. Warranty/ guarantee shall be applicable to the supplied goods as described in Annexure I.
9. We look forward to receiving your quotations and thank you for your interest in this project.
10. You are requested to send your offer as per attached format (**Annexure- II**) on your company letter head with duly stamped and signed through courier or registered post to reach us latest by 18:00 hours on 22.02.2024 in sealed cover stating "Quotation for Flexi Biogas Plant" on the envelop on following address:

To Chief Executive, Maahi Milk Producer Company Limited

3rd and 4th Floor Sakar Building, Opposite Rajkumar College, Dr. Radhakrishnan Road, Rajkot 360001, Gujarat

Phone: (0281) 2460732, Toll Free: 1800 2740 732

Annexure- I

(E File No. 344/2/2017-BIOGAS)

Technical Specifications for 2 M³ PVC Coated Flexible Type Prefabricated Biogas Plants

General Conditions:

- MNRE approved suppliers only allowed to quote the Bid. Quotation shall be as per specifications approved by MNRE
- At the time the Contract is awarded, the Purchaser reserves the right to decrease the quantity of Goods and Related Services originally specified in invitation of Bid
- “Final destination (Project Site)” are as per annexure- III.
- The Bidder shall submit the following additional documents in its bid
 - Documents/Letter from MNRE as approved supplier

1. General Specification:

2m³ PVC Coated Polyester yarn based flexible Type Prefabricated biogas plant with inlet pipe, inlet connections, outlet pipe, outlet connections, gas pipe & Biogas Double Burner.

2. Material Construction:

- 2.1** Material of construction used should be PVC coated on Polyester yarn based woven fabric broadly in line with specifications of materials as per IS: 7016 methods of test for coated and treated fabric of BIS, New Delhi.
- 2.2** The material of construction of Biogas digester and Gasholder shall be such that it does not show methane gas permeability, flame retardant, low soiling behavior, UV stabilized, weather resistant and should have good welding properties.
- 2.3** It does not impart any color, odour nor any toxic effect and contaminate biogas slurry.
- 2.4** The Biogas balloon shall be manufactured such that its breaking strength shall be as given below when tested as per IS 7016 II (1981):
(a) **Tensile Strength (Kg. /5 CM)** Warp - 240 Weft — 220
- 2.5** The Biogas balloon shall be manufactured such that its tear strength shall be as given below when tested as per BS 3424 Part 5 Method 7A:
(b) **Tear Strength (Kgs)** Warp - 35 Weft -30
- 2.6** Material shall be flame resistant & shall pass all the test when tested as per DIN 75200.
- 2.7** The materials shall not leak at 220 PSI test pressure as per IS 7016.
- 2.8** The material used for prefabrication/ construction of such Biogas plants shall be guaranteed by the manufacturer to have a minimum useful life of 10years.

3 Overall Dimensions:

Model	Digester volume Dimensions (m)			Gas storage volume Dimensions (m)		
	Height	Diameter	Volume (M ³)	Height	Diameter	Volume (M ³)
2 M ³	1.55	1.9	4.39	0.8	1.9	2.26

Area required for installation of digester: 4 sq. m.

4 Gas generation Capacity: 2 Cu. Mtr. per day.

5 PVC Coated Polyester Fiber based Flexible Balloon Type Biogas Plant:

The PVC Coated Polyester Fiber based Flexible type prefabricated Biogas plants should have broad features / specifications as under:

- a. The total minimum weight of the PVC Coated Polyester Fire based Flexible balloon: 760 Gram/ Sq. Mtr. ($\pm 10\%$)
 - b. The plant has provisions for inlet and outlet connections at suitable location with maximum effective volume.
 - c. Pressure booster pump has suitable capacity to ensure the transfer of gas from Balloon to the stove with minimum delivery pressure of 150 mm WC.
 - d. There are safety provisions to avoid damages and ingress of slurry in the pump in case the gas is completely used, and the pump is still in running condition.
- 6. Inlet Pipe:** Inlet pipe for shall have the following dimensions:
Dia.110 mm (4 Inch.), Length: 1.55 m of UPVC/PVC
- 7. Outlet Connection:**
- i. The Outlet connection and the outlet Pipe shall have the following dimensions:
Dia.110 mm (4 Inch.), Length: 1.5 m PVC
 - ii. Gas Pipe shall be of minimum Diameter- 15 mm, Length: 30 m., PVC braided Medium Density polyethylene (MDPE)
- 8. Booster Pump:** Booster Pump shall be rated to operate at 230 V, 20 Watts with a Minimum flow rates of 20 LPM (1.2 m³ per hour).
- 9. Accessories:** Twin Burner Stove with gas valve (BDTC approved), Cow Dung Mixture Drum (100 liter capacity), Moisture Remover, Lighter (1 No. each).
- 10. Finishing:** The internal and external surface of the Balloon shall be smooth, clean and free from other hidden internal defects, such as air bubbles, scratches and metallic or other foreign material inclusions. The welded joints shall be of smooth edges.
- 11. Marking:** All the Biogas plants manufactured shall be distinctly marked with the following information:
- (a) Manufacturer's name, initials, or recognized trademark
 - (b) Product Code and Capacity in Cubic Meter along with daily quantity in Kg. of cattle dung to be fed along with unique serial number of the unit as a mark of identification by the Manufacturer which shall be clearly visible after installation.
 - (c) Lot or Batch number and year of manufacture.
 - (d) The above detail from "a to d" shall be printed on the external surface of the Biogas Digester during manufacture.
- 12. Installation:** Installation and commissioning of Biogas plant shall be done by the manufacturer's authorized and trained personnel. The beneficiaries of biogas plants shall be provided "Operation and maintenance" Manual in the printed form/ version along with warranty and guarantee clauses.
- 13.** The Manufacturer of the Biogas plant shall bound to carry out any further required change(s) in these approved model of biogas plants, as and when felt

necessary and asked by the Ministry (MNRE), including those required for formulating a new BIS Standard for Standardization of such models of Biogas plants.

- 14. Warranty** : Vendor will be responsible for Turn key Job to supply units, installation, supervision, commissioning, training and free O & M warranty for **Five years** trouble free operations of plant including quality control at all level.

Annexure- II
FORMAT OF QUOTATION

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1	2 M ³ PVC Coated Flexible Prefabricated Biogas Plants	As per specifications approved by MNRE described in Annexure I					
TOTAL							
Packing, Forwarding, Freight & Insurance.							
GST @ %							
Total Amount in Rs.							
PAYMENT TERMS							

Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs..... amount in words) within the period specified in the Invitation for Quotations.

We also confirm that, we are responsible for Turn key Job to supply units, installation, supervision, commissioning, training and free O & M warranty for Five years trouble free operations of plant including quality control at all level.

We hereby certify that we are MNRE approved supplier of 2 M³ PVC Coated Flexible Prefabricated Biogas Plants As per specification approved by MNRE. The material used for prefabrication/construction of these biogas plants have minimum useful life of 10 years.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank's sanctions procedures) in competing for or in performing the Contract.

Signature of Supplier

Annexure- III

Delivery Locations					
Sr. No.	District	Taluka	BMC	MPP	Village
1	Amreli	Khambha	Adasang Cc	Gorana	Gorana
2	Amreli	Amreli	Chalala Bmc	Sarambhada	Sarambhada
3	Amreli	Savarkundala	Jesar	Bhonkarva	Bhonkarva
4	Amreli	Savarkundala	Jesar	Likhala	Likhala
5	Amreli	Savarkundala	Jesar	Likhala	Likhala
6	Amreli	Savarkundala	Jesar	Bhonkarva	Bhonkarva
7	Amreli	Savarkundala	Jesar	Vansiyali	Vansiyali
8	Amreli	Babra	Kidi	Kidi	Kidi
9	Amreli	Lathi	Babra	Jarakhiya	Jarakhiya
10	Amreli	Kukavav	Babra	Lunidhar	Lunidhar
11	Bhavanaga	Jesar	Jesar	Chhapariyali	Chhapariyali
12	Bhavanaga	Jesar	Jesar	Virpur Chowk	Virpur Chowk
13	Bhavanaga	Jesar	Jesar	Chok	Juna Padar
14	Bhavnagar	Mahuva	Mahuva	Kumbhan	Sanganiya
15	Bhavnagar	Vallabhipur	Vallabhipur BMC	Ratanpar	Ratanpar
16	Devbhumi Dwarka	Jam Kalyanpur	Bhogat	Gandhvi	Gandhvi
17	Devbhumi Dwarka	Jam Khambhaliya	Jam Khambhaliya	Lalparada	Lalparada
18	Gir Somnath	Gir Gadhada	Malgam	Bodidar	Bodidar
19	Gir Somnath	Gir Gadhada	Malgam	Bodidar	Bodidar
20	Gir Somnath	Gir Gadhada	Malgam	Bodidar	Bodidar
21	Gir Somnath	Gir Gadhada	Malgam	Bodidar	Bodidar
22	Gir Somnath	Gir Gadhada	Malgam	Bodidar	Bodidar
23	Gir Somnath	Kodinar	Malgam	Mitiyaj	Mitiyaj
24	Gir Somnath	Kodinar	Malgam	Dolasa	Dolasa
25	Gir Somnath	Kodinar	Malgam	Mitiyaj	Mitiyaj
26	Gir-Somnath	Veraval	Talala	Savani	Savani
27	Gir-Somnath	Sutrapada	Prachi CC	Lodhva	Lodhava
28	Gir-Somnath	Sutrapada	Prachi CC	Prashnavda	Prashnavada
29	Jamnagar	Jamnagar	Dhrol	Khijadiya Ravani	Khijadiya Ravani
30	Jamnagar	Jamjodhpur	Jamjodhpur	Melan	Melan
31	Jamnagar	Jamnagar	Jamnagar	Jogvad	Nani Khavdi
32	Junagadh	Vishavadar	Chalala Bmc	Ravani Mundiya	Ravni Mudiya
33	Junagadh	Mendarda	Baradiya	Nazapur	Nazapur
34	Junagadh	Keshod	Keshod	Sarod	Sarod
35	Junagadh	Vanthali	Manavadar	Navda	Navda
36	Porbandar	Porbandar	Madhavpur	Ratia	Ratia
37	Porbandar	Ranavav	Kutiyana CC	Pipaliya	Pipaliya
38	Porbandar	Kutiyana	Manavadar	Tarkhay	Tarkhay