



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

REQUEST FOR PROPOSAL (RFP)

AFDG: Utility: Power: Energy audit

16 October 2019

Dear Sir,

Sub: **Request for Proposal (RFP)** for "Carrying out Total (Electrical & Thermal) Energy audit of approximately 85 units (Dairy, Chilling Centre, Cattle Feed Plant) " as per given scope of work.

We invite your most competitive offer as per the milestone schedule (final report submission before 31 March 2020 for 14 Units and rest by 31 March 2021) for the Total Energy Audit as per detailed specifications mentioned in Annexure. Your offer should be based on following considerations:

1. The offer should reach AmulFed Dairy (A Unit of GCMMF Ltd) near Indira Bridge, Ahmedabad - Gandhinagar Highway, Bhat, Gandhinagar 382 424.
2. Due Date: 10 November 2019
3. The offer should be submitted in sealed cover superscribing on the top left hand corner offer for AFDG: Utility: Power: Energy audit 85 Units
4. If it is not superscribed it can be liable for rejection.
5. Offer received after due date for whatsoever reason may be rejected. We will not be responsible for postal delays.
6. Offer should valid for acceptance for 120 days from date for submission of offer.
7. It will not be binding on us to accept the lowest offer.
8. Right to accept/reject any/all offers without assigning reason is reserved by us.
9. Offers which are incomplete or not meeting the conditions are liable for rejection.
10. Payment terms deviation is not acceptable.
11. Herewith we are attaching vendor registration form please fill it up & provide along with offer. Without vendor form duly filled in with the supporting documents offer will be rejected.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

12. We are an IMS (Integrated Management System containing) ISO 9001: 2015, ISO 14001:2015, ISO 22000:2018 and FSSC 5.0) certified and ISO 45001:2018 and ISO 50001:2011 self-certified food manufacturing organization. We follow sustainable eco-friendly processes in our organization and expect the same to be followed at your end.

13. Contact persons are as below for any further queries:

Name	Department	Mobile	e-mail
Prashant Sheth	Utility	9327088069	prashant.sheth@amul.coop
Gaurav Desai	Power & Telecommunication	9374631667	gaurav.desai@amul.coop
Hardik Gajjar	Purchase	7046038777	hardik.gajjar@amul.coop

Yours Faithfully,

For AmulFed Dairy

Sr. Manager -Purchase



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

SCOPE OF WORK

Total Energy Audit – Thermal as well as Electrical

Total (Electrical and Thermal) Energy Audit of approximately 85 units due in the Financial Year 20192020 (14 Units) and 20202021 (approximately 71 Units)

OBJECTIVES

1. Mandatory Electrical Energy Audit as per Gujarat Use of Electric Energy (Regulation) Order, 1999 with amendment as on date for the Industrial Consumers and submission of the same to the concerned departments
2. Total Energy Audit for establishment of Total Energy Management
3. Benchmarking of Specific Energy Consumption per unit of production
4. Gap Analysis and Technology Upgradation
5. Establishment of best practices
6. Reduction in energy cost and environment protection implementing energy efficient total energy management systems
7. Identification of potential areas for improving energy efficiency
8. Financial and Economic Evaluation of Energy Efficiency Investments

THERMAL

1. To collect and review monthly production data and energy consumption data of fuel oil for period of two years and analyze to establish consumption trend. This exercise purely depends upon the monitoring system available at the plant.
2. To study and review of NG/FO/Diesel handling practices and suggest improvements, if any.
3. To study and review Boiler operating efficiency and improvement thereupon.
4. To undertake steam trap survey for all traps to analyze its performance to reduce steam losses.
5. To check the insulation of the boilers and main steam headers to determine the heat losses and suggest improvements accordingly.
6. Condensate Recovery system and Flash steam utilization study.
7. To study and review heat recovery system or feasibility of installation of heat recovery systems, if any.
8. To study and review of fuel oil handling and suggest improvement, if any.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

9. To study combustion of fuel oil in boiler and blow down system and to suggest improvements for the same, if any.
10. To study scope of waste heat recovery wherever possible and suggest improvement in existing system.
11. To study efficient utilization of steam in the plant.
12. Energy saving potential in the generation, distribution and consumption of steam and or hot water system.
13. Exploring the potential of huge energy saving by way of hot and cold stream segregation and actionable implementation blue print to be suggested after study of the total hot water and cold water consumption at various departments and locations.
14. Steam audits are customised specifically for each individual client, and typically investigate areas from the following criteria:
15. Catalogue of key equipment
16. Design of distribution system and condensate return system (steam traps, drop out points, pipe sizing etc)
17. Steam trap survey
18. This will show leaking or blocked traps. Losses are shown in kilograms per hour along with cost.
19. Establish Flue Loss
20. Consider economisers
21. Establish Blowdown Loss
22. Consider automated blow down
23. Establish TDS Loss
24. Consider automated TDS control
25. Establish hot well/Feed Water Temperature
26. Consideration shall be given to raising hot well temperature vide steam injection and/or TDS recovery system. Other methods may also be considered, dependent upon the client's installation.
27. Establish radiated heat loss (boiler ends, pipe work, and valves)
28. Consider lagging and insulation options
29. Establish burner efficiency



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

30. Consider replacing mechanical or linked burner controls with modern independent motor-driven fuel air-mixture controls
31. Consider fixed speed fans and motors with variable speed units
32. Consider reducing burner size on a boiler that consistently runs below optimum load
33. Consider sequencing multiple boilers using a boiler management system controlled by a plant management programme
34. Establish Production Steam Load Requirements
35. Consider a load balancing system which will determine when an additional boiler should be brought online as well as which units will be most efficient at given total load.
36. Establish Current Operating Parameters
37. Consider Operating 'No/Low Cost' Operating Improvements

E L E C T R I C A L

1. To review monthly production data and energy consumption (Electrical) of for period of two years to establish the consumption trends.
2. To study rationalization of transformer capacity.
3. To review the power factor and load factor in the plant and suggest improvements, if any.
4. To check Air conditioning system with respect to energy efficiency and suggest improvements.
5. To check the illumination load in various areas of the plant and suggest improvements accordingly.
6. To check motor loading in the plant for rationalization and identifying the inefficient and over loaded motors.
7. To study performance of compressed air system and suggest improvements.
8. To study the performance of cooling towers and suggest improvements.
9. To study and review the performance of the chilling plant and suggest improvements.
10. To provide feasibility report for recommendations of energy audit.
11. Training Program for work force on importance of energy conservation and energy conservation tips.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

A U D I T S T R U C T U R E R E P O R T D E L I V E R A B L E S

A report will be issued to the client and, depending on the breadth of the audit, deliver the following information;

- Inventory of equipment
- Current boiler efficiency
- Recommendation of areas of improvements

Cost of improvement

Return on investment (where applicable)

Efficiency percentage improvement

- Overall efficiency after recommendations has been carried out.

Benefits of Steam and Condensate System Audit

- Energy savings
- Quality improvements
- Productivity improvements
- Reduced maintenance
- Fewer breakdowns
- Improved Health and safety
- A focused route to cost reductions

If you'd like any further information or to discuss your particular requirements, please do not hesitate to get in touch with no obligation whatsoever.

T O T A L E N E R G Y A U D I T

1. To collect monthly production data for the main product, fuel and electricity consumption for the period of the two years/ over a period of normal operation not less than one year to establish benchmark value for consumption
2. To study existing electrical energy metering/consumption electricity consumption for the period of Two year, monitoring and control system improvement in recording and monitoring system.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

3. To collect data regarding existing connected load and to study section wise connected load.
4. To study preliminary distribution system including system including transformers capacities and utilization and actual loading of individual transformers.
5. To study the performance of various electrically operated machines/ equipments for the point of view of conservation of electricity.
6. To undertake motor loading study at different operating conditions for all motors of 10 HP and above so as to identify specific ways of motor rationalization.
7. To study lighting and illumination system in the premises and in offices and suggested ways means to rationalize lighting load and save energy.
8. To study air conditioning system and suggest possible improvements.
9. To study refrigeration/ chilling plants/ air conditioning/ VAM (Vapor absorption machine) systems and suggest possible improvements.
10. To study compressed air system including compressed air generation, distribution and use, rationalization and suggest possible improvements.
11. To study power factor correction capacitor system, check the power factor at individual distribution system, maximum demand, load factor etc. for the reference period to evolve a scheme for stabilization, of maximum demand by improvement in both power factor and load factor.
12. Performance evaluation of cooling towers and suggests ways and measures for energy cost reduction in cooling towers.
13. Performance evaluation and analysis of boiler/thermic fluid heaters/ fuel fired heaters for direct and indirect efficiency and suggest ways and means to reduce energy consumption.
14. Steam line tracing, insulation survey, steam trap survey, condensate recovery system and suggest ways and measures to reduce energy consumption losses.
15. Analysis of present and past trend of energy consumption.
16. Performance evaluation of pumps, blowers etc.

M E T H O D O L O G Y

1. You shall depute a team of engineers/ empanelled energy auditors for undertaking the Energy Audit as per scope mentioned above.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

2. The field trials will be undertaken along with the coordinator or the person deputed by Gujarat Cooperative Milk marketing Federation Ltd. Gujarat and respective plants.
3. All portable measuring and monitoring instruments required for undertaking the energy audit will be under your scope.
4. Company shall depute a team of engineers empanelled energy auditors for undertaking the energy audit as per the scope mentioned above.
5. The field trials will be undertaken along with the co-coordinator or the person deputed by M/s Gujarat Co-operative Milk Marketing Federation (GCMMF).
6. All portable measuring and monitoring instruments required for undertaking energy audit will be under the scope of Company.
7. Report should be submitted to Electrical inspector office as per the statutory norms before 31.03.2017 for 14 units and before 31 Mar 2018 for 65 units and follow-ups study reports accordingly
8. Reports to be submitted to Unit Head, Union Head and GCMMF Anand and AmulFed Dairy and Chief Electrical Inspector Office and acknowledgement should be produced with invoice

COMPLETION PERIOD

1. Field study will be carried out within a period of mutually agreed schedule from the date of placement of order.
2. Individual reports for each plant will be submitted within the mutually agreed schedule from the date of completion of field study.
3. Target date of completion with final report is by March 31 2020 (date of submission of final report to the respective unit, GCMMF and electrical inspector office and acknowledgement will be produced with invoice) for 14 units specified and balance approximately 71 units by March 2021.
4. Energy audit will be carried out in staggered manner as per mutually agreed schedule
5. Completion period for all balance approximately 71 units will be before 31.03.2021 (date of submission of final report to the respective unit, GCMMF and electrical inspector office and acknowledgement will be produced with invoice).
6. Energy audit will be carried out in staggered manner as per jointly prepared schedule to be submitted by the successful bidder and shall be approved by us.
7. Completion period (submission of final report hard copy spiral bound to the respective units, AmulFed Dairy Gandhinagar, GCMMF Anand and electrical



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

inspector office and acknowledgement will be produced with invoice) will before 31 March 2020 for 14 Units and rest before 31 March 2021

IMPLEMENTATION FOLLOW-UPS AND REPORTS

1. First implementation follow-ups and results achieved survey will begin from January 2021 and reports by March 2021 for specified 14 Units
2. Second implementation follow-ups and results achieved survey will begin from January 2022 and reports by March 2022 for specified 14 Units
3. First implementation follow-ups and results achieved survey will begin from January 2022 and reports by March 2022 for specified approximately 71 Units
4. Second implementation follow-ups and results achieved survey will begin from January 2023 and reports by March 2023 for specified approximately 71 Units

REPORTS SUBMISSION

1. Draft reports should be discussed and presented to the respective units head and AmulFed Dairy & GCMMFL representative before finalization of the reports.
2. Soft copy and one hard copy of reports should be submitted to GCMMFL coordinator, respective plant in-charge and Managing Director of respective union and to the government department as per statutory requirement
3. Consolidated reports for all plants should be submitted to GCMMFL representative

REPORTS FORMAT

Besides your standard report, you shall provide us the report in the format specified time to time

ENERGY AUDIT EQUIPMENT

Minimum requirement

SN	Model No	Make/ EQUIVALENT
1	Power & Harmonics Analyzer	KRY KARD
2	3 Phase Power Meter	MECO



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

3	AVM-01 Anemometer	PROVA INSTRUMENTS
4	62 MINI IR Thermometer	FLUKE
5	Digital Lux meter	Lutron
6	Transit time flow meter DCT7088	Polysonic, USA
7	Digital Thermo Hygrometer	Lutron
8	Psychrometer/ Hygrometer	Dimple
9	16 Channel Process Data Logger	NIPPON
10	Thermal Imager	FLIR (E-30)

E N E R G Y A U D I T T E A M

EACH Energy Audit Team shall consist of Experienced and Qualified (at least one Certified Energy Manager of BEE) and at least 2 graduate engineers (Mechanical, Electrical/ Instrumentation, Dairy Technologists for some plants initially if felt necessary to understand dairy processes)

M I N I M U M C O M M I T T E D D A Y S F O R A U D I T I N E A C H P L A N T

Minimum 3 Days (Chilling Centres) for small plants and 5 Days for large plants (Dairy, CFP)

S U B M I S S I O N O F A U D I T S C H E D U L E & K O M

You have to submit audit schedule plant wise within 15 days of receipt of PO and personally shall visit AFDG for schedule approval and KICK OFF MEETING.

P A Y M E N T T E R M S

No advance

Progressive payment shall be made on receipt of invoice with all supporting documentary evidences as per following milestones:



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

SN	Milestones	% of Total Value
1	Field study completion & Draft report submission	0
2	Final Report submission to be billed (GST invoice) to and shall be paid by respective District Cooperative Milk Unions	30%
3	Consolidated Report to be billed (GST invoice) to and shall be paid by GCMMF Ltd	30%
4	First follow –up study with report to be billed (GST invoice) to and shall be paid by respective District Cooperative Milk Unions	10%
5	First follow –up Consolidated Report to be billed (GST invoice) to and shall be paid by GCMMF Ltd	10%
6	Second follow –up study with report to be billed (GST invoice) to and shall be paid by respective District Cooperative Milk Unions	10%
7	Second follow –up Consolidated Report to be billed (GST invoice) to and shall be paid by GCMMF Ltd	10%

Invoice can be raised to a DCMPU Ltd only after completion of a milestone activity for all the units under a District Cooperative Milk Union Ltd.

Consolidated report and invoicing to GCMMF Ltd can be raised only after completion of a milestone of all the units falling in a financial year.

GST invoice must be raised in the FY in which the service is provided and at least 15 days before the completion of the FY.

Delay in invoice will be returned and will not be paid.

DEVIATION in payment terms is NOT acceptable.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

C H A R G E S

Particulars	Rs/Unit	Units	Amount (Rs)
Total Energy Audit as per scope and 7 milestones			
Goods & Service Tax (GST)			
Total including GST			

Kindly note that the charges shall be inclusive of all financial implication with regard to boarding, lodging and traveling expenditure involved for the engineers who will be visiting the plants for the purpose, all other expenses for reports, communications, emails, soft copies, hard copies, stationeries and so on – in other words inclusive of all costs.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

VENDOR REGISTRATION FORM

(For Authorized Distributors/ Dealers/ Stockists/Traders/ Service Providers)

(1) Category of item/Service for

Which registration is sought :

(2) Name Of Firm :

(3) Add. Of Register Office :

Phone No. & Fax No. :

e-mail :

(4) Name Of Contact Person (A'bad/Gujarat) :

Status of Firm (outside Gujarat, if any)

(5) In case of Partnership firm, :

(a)

(b)

(c)

(6) If Proprietary Concern Name & :

Address of proprietary

(7) If Private/Public Limited Co. (Memorandum Of Association to be enclosed)

(8) Year of establishment of firm :

(9) Category of items to be handled by you and their details

Item Catg.	Size	Make Manufacturer	Nature Of Agency
------------	------	-------------------	------------------

(Enclose copy of Dealership/Agency approval letter of manufacturer)

(10) Name and address of the dealer/depot from where you get delivery of item offered to us.

(11) Please enclose details of manufacturer for the products offered to us.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

- (12) Central Sales Tax No.
- (13) If excise applicable, current excise duty and details
- (14) Applicable CST/ST rate.
- (15) Last 03years sales (business) of your firm (Average in Rs. Lacs)
- (16) List of leading buyers from you for the products (services) offered to us.
- (17) Item category Name and address of buyer Annual business (Rs. Lacs)
- (18) Name Of Bankers
- (19) IT clearance certificate no. and date (Photocopy to be enclosed)
- (20) Latest Annual Report / Auditors' certificate
- (21) In case your are/were a supplier/service provider to co-op. Dairies in Gujarat, please mention
(If then attach purchase order copy with form)
- (a) Name of Diary
 - (b) Item Supplied
 - (c) Quantities supplied per year
- (22) If the business is discontinued with any of them reasons:
- (23) Whether any of your relatives is working with us or with our member dairies, if so, details
- (24) Any other information you would like to furnish to us

DECLARATION

THE ABOVE IS TRUE IN ALL RESPECTS AND WE UNDER TAKE TO INFORM YOU IF ANY CHANGE IN THE ABOVE PARTICULARS REGARDING OUR BUSINESS FROM TIME TO TIME

PLACE :

SIGNATURE OF AUTHORISED REPRESENTATIVE
OF THE FIRM UNDER PROPER SEAL

DATE :



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

FOR OFFICE USE

VENDOR REGISTRATION NO.

DATE

CATEGORY

VENDOR NO.

INFORMATION RECEIVED
COMPLETELY SATISFACTORY

RECOMMENDED

APPROVED

PURCHASE EXECUTIVE

. PURCHASE

OSD



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

ELIGIBILITY CRITERIA

1. Proven track record of carrying out Total Energy Audit (Thermal and Electrical) of several continuous processing plant involving use of steam, hot water, electrical energy – preferably Dairy plants and having technical and financial capability to successfully carrying out our approximately 85 units Total Energy Audit within the time frame specified – this will be judged by our technical committee based on the documentary evidences provided by the bidders in the submitted bids. No further communication will be made in this respect for obtaining any further document.
2. Approved by the Chief Electrical Inspector of Gujarat (CEIG)
3. Must possess at least the following list of energy audit equipment – owned or hired basis at least for one year at the time of submission of tender

Sr No	Model No	Make
1	Power & Harmonics Analyzer	KRY KARD
2	3 Phase Power Meter	MECO
3	AVM-01 Anemometer	PROVA INSTRUMENTS
4	62 MINI IR Thermometer	FLUKE
5	Digital Lux meter	Lutron
6	Transit time flow meter DCT7088	Polysonic, USA
7	Digital Thermo Hygrometer	Lutron
8	Psychrometer	Dimple
9	16 Channel Process Data Logger	NIPPON
10	Thermal Imager	FLIR (E-30)
11	Flue gas analyzer	TESTO



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

4. Experienced and qualified (certified energy manager of BEE) at least 2 persons in the organization payroll/ associates/ partners
5. All the necessary documents and supporting must be provided to establish the eligibility criteria. All the documents asked in the vendor registration form also must be submitted. Eligibility criteria shall be evaluated based on the supporting documents provided. No opportunity will be given for furnishing any further document. So, bid must be complete in all respect with all information and supporting documents.
6. Minimum documents to be submitted for evaluation of eligibility are as under:
 - a. Details list of Energy audit carried Out – name and address of plant, contact person (mobile and email), plant type, production capacity, products, electrical energy and thermal energy use per annum, year of audit (start date and end date), saving potential suggested
 - b. Company profile giving all details – type of organization, Article of association, Memorandum of Understanding, Company registration certificate, IT returns, Financial statements
 - c. You are requested to establish your eligibility furnishing the minimum qualifications required with necessary supporting documents
 - d. You must submit this form (*Table 2 and 3*), duly filled in, along with the supporting documents as per following checklist given in *Table 1*:



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Table 1 Checklist for Supportings	
Supportings Required	Please (√)
Latest Balance sheet filed with (<i>Name of Authority</i>) on (<i>Date</i>)	
Latest Profit & Loss Statement from (<i>date</i>) to (<i>date</i>) filed with (<i>Name of Authority</i>) on (<i>date</i>).	
Audited copies ¹ of annual accounts and P & L account of past 3 years	
Certificate of Financial Soundness from Bankers of bidders	
Income Tax returns (Latest)	
Service Tax Returns (Latest)	
Details of Income Tax Registration PAN	
Details of Service Tax Registration	
Organization Chart showing positions of key persons with qualifications	
Annual Report of last three years	

¹ Indigenous bidders must attach copy of accounts audited under section **44 AB of Income Tax Act**. In case the accounts need not be audited, a Chartered Accountant or Manager of a Nationalized Bank should attest the information in this statement.



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Table 2		
Financial Soundness		
General Information		
Name		
Address		
Phones		
Mobile		
Fax		
E-mail		
Contact Personnel with designation		
Financial Information		
SN	Description	Value (Rs)
1	Cash Balance	In Bank
		In Hand
		Total
2	Fixed Assets	Gross
		Net



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

3	Current Assets	Inventories	
		Others	
		Total	
4	Current liabilities	Bank Cash Credit	
		Sundry creditors	
		Others	
		Provisions	
		Contingent Liabilities (including claims not acknowledged, please specify)	
		Total	
5	Capital	Share capital	
		Free reserves	
		Other reserves (please specify)	
6	Term loans from financial institutions and banks		
7	Working capital		
8	Net worth		
9	Debtors and advances considered good	More than 6 months	
		Less than 6 months	



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Significant Financial Ratios			
S N	Ratio	Definition	Value
1	Current	Current Assets to Current Liabilities	
2	Acid Test	(Cash + temporary investment held in lieu of cash + current receivable) / current liabilities	
3	Solvency	Total Liability to Net Worth	
Net Profit before Tax			
S N	Period		Value
1	Current period		
2	During the last Financial Year		
3	During the year before last Financial Year		
Financial Arrangements			
S N	Resources		Amount
1	Own		
2	Bank Credits		
3	Others (Specify)		



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Energy Audit Services Income			
S N	Category of Customers	Value of orders to be executed/ anticipated	
		Current	Next Financial Year
1	Government Department		
2	Commercial		
3	Others		
	Total		
Table Annual Turnover			
S N	Financial Year (Please begin with current year)	Turnover	
1			
2			
3			
4			
5			
6			



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Rate Contracts for the Energy Audit Services to be provided			
S N	Organization	Energy Audit Description	Valid till
1			
2			
3			
4			
5			
6			



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Table 3 Technical Competency		
Classifications		
S N	Category	Please (✓)
1	Energy Audit service Provider	
	Others (please specify)	
Details on Office Facilities		
S N	Plant	Details
1	Location	
2	Description	
3	Type	
4	Size of building	
5	Is property on lease or free hold?	
6	If on lease, indicate date of expiry of lease in each case.	
7	Others (please specify)	



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Plant Facilities (if any)			
S N	Facilities	Answer	Remarks
1	Space available for manufacturing (in m ²)		
2	Space available for storage (in m ²)		
3	Space available for inspection (in m ²)		
4	Are buildings fire resistant? (Y/N)		
5	Are premises approved by Municipal fire Department? (Y/N)		
6	Are buildings under Municipal fire protection? (Y/N)		
7	Are power & fuel supply adequate to meet production requirements? (Y/N)		
8	Are adequate transportation facilities available? (Y/N)		
9	Are safety measures adequate for performance of proposed contract? (Y/N)		
10	Is adequate material handling equipment available? (Y/N)		
Testing Facilities			



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

S N	Facilities	Details
1	List testing equipment available	
2	Give details of tests to be carried out on items offered.	
3	Details of the testing organizations available.	

Quality Control Organization

S N	Quality Control Method	Response
1	Are goods offered subject to <i>Batch Test</i> , <i>Random Sampling</i> or full <i>100% test</i> for quality?	
2	Are tests carried out by factory employees or by a separate testing agency?	
3	Are independent Quality Control Organization checks made and certificates issued?	

Energy Audit Capacity

S N	Description of Equipment	Capacity	Units Audited		
			Current year	Last Year	2 nd last year
1					
2					



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Personnel/ Organization						
S N	Personnel in			Numbers in levels		
				Managerial	Supervisory	Skilled Workmen
1	Energy	Audit	Field			
	Study					
2	Report Preparation					
3	Reports Evaluation					
4	Other Services					
5						
6	Administrative					
Service Center nearest to our site location						
Location						
Phone no						
S N	Information required on				Details	
1	Number of skilled employees					
2	Number of unskilled employees					
3	Number of engineering employees					



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

4	Number of administrative employees	
5	List of special repair/ workshop facility available	
6	The storage space available for spare parts (in m ²)	
7	Value of minimum stock of spares available at all the service centres in respective currency	
8	List of the models/ types of equipment serviced by the Centre in last 2 years	



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

References²						
S N	Name of Organization	Address, Telephone, Fax, Contact Person				
1						
2						
List of Instruments usually outsourced						
1						
2						
Workload for the current and forth coming financial year on quarterly basis						
S N	Financial Year	Quarterly Workload as % of Total Capacity				
		I	II	III	IV	
1	Current Financial Year					
2	Next Financial Year					
List of major projects of similar size and nature previously executed						
S	Name of	Project	Year of	Year of	Capacity/	Value

² Names of two buyers to whom similar equipment are supplied, installed and commissioned in the past and to whom reference may be made by the GCOMMFL regarding the bidder's technical and delivery ability:



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

N	the client		award	completi on	Products	(Currency)
1						
2						
3						
4						

Type of Energy Audits carried out during last 2 years

S N	Plant	Capacity	Value	Projects	On Hand Order
1					
2					
3					
4					

Type of equipment used in Energy audits

S N	Equipment	Capacity	Qty	Projects	On Hand Order
1					
2					
3					



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

4					
Schedules for furnishing technical data and work plan schedules after receipt of orders					
1					
2					
Number of weeks required for preparing a bid proposal					



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

BID FORM

(Please furnish this on your letterhead)

Reference

Date

General Manager

AmulFed Dairy Gandhinagar

Plot 35, Bhat, Ahmedabad Gandhinagar Highway

Gandhinagar 382 428

Subject Submission of Bid for

Reference Your Bidding Document

Dear Sir,

Having examined the **Bidding Documents** including Addenda (Insert Numbers), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and /or supply and deliver Goods and Services including installation and commissioning as detailed in the **price schedule**, in **conformity** with the said **Bidding Documents** including the technical **specifications and drawings (except to the extent of deviation statement furnished in our bid)** and the Conditions of **Contract** as mentioned in or referred to therein for the sum of **(Total Bid Amount in words and Figures)** or such other sums as may be ascertained in accordance with the **Schedule of Prices** attached herewith and made part of this bid and the said conditions.

We **accept all the conditions of the Bidding Document** in this Bid Form and this **acceptance shall prevail over any other conditions, if any, given in our Bid.**

We undertake, if our bid is accepted, to commence and complete delivery of all the Services as specified in the Schedule of Requirements of the Bid Document, from the date of receipt of your **Purchase Order/ Notification of Award.**

If our bid is accepted we will carry out the energy audit service as per the conditions of the Contract for the due **performance of the Contract.**



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

We agree to abide by this bid for the period of **120 days** from the date fixed for **bid opening** and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your acceptance thereof and your Purchase Order/ Notification of Award of Contract (NOAC) shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of _____ 20

Signature

(In the Capacity of)

Duly authorized to sign bid for and on behalf of

(Name & Address of Bidder)

Name of Witness:

Signature

Address



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Gujarat Co-Operative Milk Marketing Federation Ltd 14 Units Energy Audit by 31 Mar 2017																
SN	Union	SN	Plant	Type	Capacity (TPD)		Contract Demand KVA	LIST OF PLANT			Total Electricity consumption MWH/annum			Thermal energy Consumption Giga Cal/ annum	Contact mobile	Contact email
					Strength of Employees	Grid Supply Voltage KV		CPP Capacity KW	From Grid	CPP	Total					
1	Banaskantha	1	Banas, Palanpur	CFP	500	110	550	11	500	5,000	5,000	5,000	9429407737	pravin@banasdairy.coop		
		2	Banas Dairy Palanpur	Dairy	3,000	1,657	7,500	66	3,250	32,809	32,809	1,50,000	9429407737	pravin@banasdairy.coop		
2	Kaira (Amul)	1	Kaira Amul Anand	Dairy	2,500	836	3,200	11	1,250	25,316	25,316	1,00,000	9727703208	avzala@amuldairy.com		
		2	Khatraj Dudhsagar Dairy,	Cheese	250	248	2,400	11	-	14,020	14,020	30,000	9727703259	hdshah@amuldairy.com		
3	Mehsana	1	Mehsana	Dairy	2,600	2,000	2,600	14	6,160	26,720	26,720	1,43,760		adc@mehsanaunion.coop/ kdc2@mehsanaunion.coop		
		2	Vihar	CC	1,000	100	850	11	1,673	3,500	3,500	10,000	9974059247	bvpatel@mehsanaunion.coop		
4	Panchmahal	1	Godhra Dairy	Dairy	1,000	1,350	1,000	11	8,286	-	-	25,000	9979655033	nnp@panchmahalunion.coop		
5	Sabar	1	Himmatnagar	Dairy	1,500	1,221	4,000	11	1,720	21,930	21,930	85,850	9727773751	Mr.R J Desai		
6	Surat	1	Surat	Dairy	1,500	578	3,000	11	-	16,112	-	20,000	8980010378	rdp@sumul.coop		
		2	Chalthan	CFP	300	70	600	11	-	2,277	2,277	-	9979888031	pdt@sumul.coop		
7	Valsad	1	Vasudhara Chikhli (ALIPUR)	Dairy	500	305	1,200	11	560	4,957	4,957	5,000	9377040682	mns@valsadunion.com		
8	Fedn	1	Packaging Film plant	CFP	100	72	3,000	11	-	-	-	-	8000240055	rcbuth@amul.coop		
		2	GTDC Gandhinagar AmulFed Dairy	Dairy	3,500	725	12,000	66	3,600	40,500	6,000	46,500	1,25,000	9376977261	pkarkare@amul.coop	
9	Baroda	1	Baroda	Dairy	400	824	650	11	-	-	-	-	9377040694	md@barodaunion.coop		

CPP - Captive Power Plant
Approximate Estimated Information is tender purpose only. Actual information to be obtained during audit



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

Gujarat Co Operative Milk Marketing Federation Ltd 65 Units Energy Audit by 31 Mar 2018														
LIST OF PLANT														
SN	Union	SN	Num of Units	Plant	Type	Capacity (TPD)	Strength of Employees	Contract Demand KVA	CPP Capacity KW	Total Electricity consumption MWH/annum	Thermal energy Consumption Giga Cal/ annum	Contact mobile	Contact email	
1	Ahmedabad	1	6	Sarkhej	CFP	100	44	225		614		9727722506	cfp@uttamdairy.com	
		2		Uttam Dairy	Dairy	160	230	500		2,732	5,055	8980015122	pkarora@uttamdairy.com	
		3		Dahegam	CC	30	23	95		298		9925228310	dehgam@uttamdairy.com	
		4		Dhandhuka	CC	35	18	100		235		9925228309	dhandhuka@uttamdairy.com	
		5		Navapura	CC		25	90		203		9925228362	navapura@uttamdairy.com	
		6		Viramgam	CC	35	22	90		202		9925228308	viramgam@uttamdairy.com	
2	Banas	1	8	Dhanera	CC	170	35	180	160	728		9429407737	pravin@banasdairy.coop	
		2		Khimana	CC	220	41	350	250	754		9429407737	pravin@banasdairy.coop	
		3		Radhanpur	CC	140	22	100	160	353		9429407737	pravin@banasdairy.coop	
		4		Tharad	CC	200	48	350	250	697		9429407737	pravin@banasdairy.coop	
		5		Faridabad	Dairy									
		6		Kanpur										
		7		Lucknow										
		8		Katarwa	CFP	1,000	160	1,900	1,500	3,384	12,000	9429407737	pravin@banasdairy.coop	
3	Baroda	1	3	Bodeli	CC	140	97							
		2		Savli (Gothada)	CC		23							
		3		Itola	CFP	280	11							
4	Bharuch	1	2	Bharuch Dairy	Dairy	100	163	250	75			9428511407	hpmathuria@dudhdhara.coop	
		2		Rajpipla	CC	35	12	60	63			9428511415	hpmathuria@dudhdhara.coop	
5	Gandhinagar	1	1	Madhoor Dairy	Dairy	200	406	725	-	4,077		9081922264, 9081922270	mvparikh@gmail.com	
6	Kaira (Amul)	1	6	Pune	Dairy	200	42	200	-	837	2,014	9765392257	pkmishra@amuldairy.com	
		2		Virar	Dairy	600	13	2,700	-			8550999701	mcmundhada@amuldairy.com	
		3		Balasinor	CC	140	32	150	-	452	249	9727703289	amulbcc@amuldairy.com	
		4		Kanjari	CFP	1,050	146	800	-	5,242	9,335	9727703218	tnbhatt@amuldairy.com	
		5		Kapdwanj	CC	140	17	150	-	424	147	9727795702	amulkcc@amuldairy.com	
		6		Mogar	Choco		168	600	-	3,428	5,847	9727703225	dalveer@amuldairy.com	
7	Mehsana	1	8	Hansapur	CC	260	22	225	332	445		9974059250	pdrami@mehsanunion.coop	
		2		Harij	CC	130	21	180	298	3,39,470	810	9974059251	pnadhai@mehsanunion.coop	
		3		Kadi	CC	200	22	425	774	2,109	2,304	9662537525	ikdesai@mehsanunion.coop	
		4		Ubhal	CFP	450	48	475		2,732		9974059245	hch@mehsanunion.coop	
		5		Kheralu	CC	100	20	100						
		6		Jagudan	CFP	1,000	33	1,000	2,820	3,694	4,000	9662027390	gnfcpic@mehsanunion.coop	
		7		Dharuhera	Dairy	3,000								
		8		Delhi Manesar	Dairy	1,000								
8	Panchmahal	1	5	Limbdi	CC	30	37	130		315		8980047839	limdi@panchmahalunion.coop	
		2		Chopada	CC	200	39	260		1,228		9687667984	chopda@panchmahalunion.coop	
		3		Ujjain Dairy	Dairy	100	35	350		935		7069034354	ujjainplant@panchmahalunion.coop	
		4		CFP Godhra	CFP	100	24	800		1,188		9978993974	cfp@panchmahalunion.coop	
		5		Moti Sarsan	CC	100	568	2,350		10,460		9979655033	nnp@panchmahalunion.coop	
9	Rajkot	1	7	Rajkot	Dairy	600	359	1,200	2,020	5,427		9727770716	Dilip M.Hirpara	
		2		Wankaner	CC	115	19	275	625	241		9727770780	Harbham A.Lokhil	
		3		Jam Kandorna	BMC	40	29	100	190	414		9727770719	Itendra Radadiya	
		4		Kalwa	BMC	20	8	64	90	151		9727770715	Alpesh V.Rakholiya	
		5		Lajal	BMC	35	7	100	125	77		9727770846	Bhaves K.Vasiyani	
		6		Majevali	BMC	50	13	180	260	259		9727770841	Atulkumar P.Mavani	
		7		Vichhiya	BMC	35	10	60	135	237		8980036851	Itendra B. Ramani	
10	Sabar	1	5	Bayad	CC	200	16	250	200	777		9727773742	Mr. Arvindbhai S. Patel	
		2		Dhansura	CC	155	15	200	24	687		9727773741	Mr. Nikesh bhai	
		3		Hajipura	CFP	450	46	1,500	-	3,315		9099948068	Mr. Umesh bhai patel	
		4		Rohtak Plant (Hariyana)	Dairy	600	180	3,000	3,000	1,13,66,510		(01262) 244703-704, 7027001501	manoj@sabardairy.coop, gdsarma@sabardairy.coop	
		5		Shamlaji	CC	160	16	190	50	634		9727773745	Mr. Mahendra bhai	
11	Surat	1	8	Bajipura	CC	235	199	400	-	1,007		9979888124	mrc@sumul.coop	
		2		Bajipura	CFP	1,000	36	1,500		2,150		9979888020	ipg@sumul.coop	
		3		Navi Pardi	CC	125	131		-	2,965		9979888121	rkvs@sumul.coop	
		4		Navi Pardi	IC	30	39	2,500		-		9979888033	hkp@sumul.coop	
		5		Navi Pardi	Powder	30	3			-		9979888034	smd@sumul.coop	
		6		Nizar	CC	50	34	400	-	750		9979888142	vgs@sumul.coop	
		7		Uchhal	CC	70	61	250	-	472		9881079668	ssb@sumul.coop	
		8		Lahe	Dairy	100	10	400	-	1,498		9925006767	ppm@sumul.coop	
12	Surendranagar	1	1	Sursagar Dairy	Dairy	175	20							
13	Valsad	1	5	Vasudhara, Boisar	Dairy	400	305	1,600	2,010	5,482	5,749	9764448387	lme23@valsadunion.com	
		2		Vasudhara, Nagpur	Dairy	120	483	600	700	3,256	4,238	9372360250	ceou25@valsadunion.com	
		3		Motaponda	CC	100	30	450	304	1,053	584	9374584961	mcc_pi@valsadunion.com	
		4		Hingna Ice Cream Plant Boiser	Dairy	53	230	1,450	1,250	3,466	1,536	9823522557	servicesm12@valsadunion.com	
14	Amreli	1	1	Amreli	Dairy		80							
15	Bhavnagar	1	2	Sihor	Dairy	250	190					9374221627	lleshpatel@sarvottamdairy.com	
		2		Thadach	CC	75	24							
16	Botad	1	1	Gadhada	CC	60	17							
17	Kutch	1	1	Bhui Sarhad Dairy	Dairy	25	30	100	83	2,483	526	9327088064		
	GAU	1	1	Vidya Dairy Anand	Dairy	150	58	450	-	2,493	2,087	9375031414	drshah@vidyadairy.in	
			71			85								

CPP - Captive Power Plant

Approximate Estimated Information is tender purpose only. Actual information to be obtained during audit

GAU - Gujarat Agricultural University

CC Chilling Centre

CFP Cattle Feed Plant

IC Ice-cream Plant



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

GCMMF & Member Union Plants

SN	Union	SN	Plant	Type	No Of Units
1	Ahmedabad	1	Sarkhej	CFP	6
		2	Uttam Dairy	Dairy	
		3	Dahegam	CC	
		4	Dhandhuka	CC	
		5	Navapura	CC	
		6	Viramgam	CC	
2	Banaskantha	1	Banas, Palanpur	CFP	8
		2	Banas - I, II & III	Dairy	
		3	Dhanera	CC	
		4	Khimana	CC	
		5	Radhanpur	CC	
		6	Tharad	CC	
		7	Faridabad	Dairy	
		8	Katarwa	CFP	
3	Baroda	1	Baroda	Dairy	4
		2	Bodeli	CC	
		3	Savli (Gothada)	CC	
		4	Itola	CFP	
4	Bharuch	1	Bharuch Dairy	Dairy	2
		2	Rajpipla	CC	
5	Gandhinagar	1	Madhoor Dairy	Dairy	1
6	Kaira (Amul)	1	Pune	Dairy	8
		2	Virar	Dairy	
		3	Kaira Amul	Dairy	
		4	Balasinor	CC	
		5	Kanjari	CFP	
		6	Kapdwanj	CC	
		7	Khatraj	Cheese	
		8	Mogar	Choco	
7	Mehsana	1	Kheralu	CC	10
		2	Hansapur	CC	
		3	Harij	CC	
		4	Kadi	CC	
		5	Dudhsagar Dairy, Mehsana	Dairy	
		6	Ubkhali	CFP	
		7	Vihar	CC	
		8	Jagudan	CFP	
		9	Dharuhera	Dairy	
		10	Delhi Manesar	Dairy	
8	Panchmahal	1	Godhra Dairy	Dairy	6
		2	Limbdi	CC	
		3	Chopada	CC	



AmulFed Dairy

A Unit of Gujarat Co-operative Milk Marketing Federation Limited

		4	Ujjain Dairy	Dairy	
		5	CFP	CFP	
		6	Moti Sarsan	CC	
9	Rajkot	1	Rajkot	Dairy	7
		2	Wankaner	CC	
		3	Kalwa	BMC	
		4	Jam Kandorna	BMC	
		5	Lajai	BMC	
		6	Majevadi	BMC	
		7	Vichhiya	BMC	
10	Sabar	1	Bayad	CC	6
		2	Dhansura	CC	
		3	Hajipura	CFP	
		4	Himmatnagar	Dairy	
		5	Shamlaji	CC	
		6	Rohtak	Dairy	
11	Surat	1	Surat	Dairy	10
		2	Bajipura	CC	
		3	Bajipura	CFP	
		4	Navi Pardi	CC	
		5	Navi Pardi	IC	
		6	Navi Pardi	Powder	
		7	Chalthan	CFP	
		8	Nizar	CC	
		9	Uchhal	CC	
		10	Lahe	Dairy	
12	Surendranagar	1	Sursagar Dairy	Dairy	1
13	Valsad	1	Vasudhara, Boisar	Dairy	6
		2	Vasudhara Chikhli (ALIPUR-HO)	Dairy	
		3	Vasudhara , Nagpur	Dairy	
		4	Motaponda	CC	
		5	Hingna	Dairy	
		6	Ice Cream Plant Boiser	Dairy	
14	Amreli Milk Union	1	Amreli	Dairy	1
15	Bhavnagar	1	Sihor	Dairy	2
		2	Thadach	CC	
16	Botad	1	Gadhada	CC	1
17	Kutch Milk Union	1	Bhuj Sarhad Dairy	Dairy	1
	Fedn	1	Packaging Film plant ,GIDC	PFP	2
		2	AmulFed Dairy Gandhinagar	Dairy	
	Vidya	1	Anand	Dairy	1
	Total				83