



**Gujarat Cooperative Milk Marketing Federation Ltd, Anand
AmulFed Dairy (Previously known as AmulFed Dairy)**

Plot No. 35, Nr. Indira Bridge,
Ahmedabad-Gandhinagar Highway
Village: Bhat, Dist: Gandhinagar
Gujarat, India-382428

Request for Bid (RFB) for “**Design, supply (FOR Site basis including unloading), Installation, modification, testing and commissioning of Butter cold storage on turnkey basis**” as per given scope of work.

AFD: PUR: ENQ: 2022: 19





AMULFED DAIRY

(A Unit of Gujarat Co-operative Milk Marketing Limited)
Plot No. 35, Near Indira Bridge, Ahmedabad-Gandhinagar Highway
Village - Bhat, Dist - Gandhinagar - 382428
Phone : +91-79-3969055/56 Fax : +91-79-3969059

We invite sealed bids from eligible bidders for the following works: “**Design, supply (FOR Site basis including unloading), Installation, modification, testing and commissioning of Butter cold storage on turnkey basis.**” as per the scope of supply mentioned in the Inquiry”.

Bid Reference	AFD: PUR: ENQ: 2022: 19
Bid Start	Starts from 08.01.2022
Submission	Up to 02.00 pm of 08.02.2022
Bid Opening	07.02.2022 at 3.00 PM
Completion period	4 months
EMD (Rs. in Lac)	2.00

Eligibility Criteria

- 1) Bidder should be having minimum 5 numbers of successful installations of similar nature (Cold Store for Butter and Ice Cream) working in India.
- 2) The Bidder/Supplier shall have turnover, in each of the last three years (2018-19, 2019-20, 2020-21, at least Rs. 5 Cr and must have executed, in the last five years at three contract of similar nature and of value not less Rs. 1.5 Cr.

Technical Specification : As per the Annexure-I

Bid Security:

1. All bids must be accompanied by bid security (Earnest Money Deposit – EMD) in the form DD or RTGS/Fund Transfer. The bids not accompanied with EMD shall be summarily rejected. The bid security shall be denominated in Indian Rupees of value as specified and shall be in the form of Demand draft or RTGS/Fund Transfer to below specified account in favor of AmulFed Dairy (A unit of GCMMF Ltd), payable at Ahmedabad.

The Bid security may be forfeited if

- ❖ A bidder or supplier withdraw its bid during the period of bid validity specified by the bidder/ supplier on the bid form or
- ❖ In case of successful bidder/ supplier, if the bidder/ supplier fails to sign the contract.

2. Bank Detail for RTGS:

AmulFed Dairy, Gandhinagar (A unit of GCMMF Ltd)

HDFC Bank A/c. No: A/c. No.00060310001593

Branch Code: 0006 (NAVRANGPURA BRANCH)

Bank AD Code : 0510007-5700009

Swift code : HDFCINBB

IFSC Code : HDFC0000006

Submission of Bid :

Bidders fulfilling above eligibility criteria eligible for submission of bids in their name only.

- 1.1 The bid shall be submitted through hardcopy before above due date is acceptable.
- 1.2 The Price Break up sheet (in separate sealed Envelope) and technical document shall be submitted at the office address mentioned below.
- 1.3 The price Break up sheet should be entitled with reference of "Price Break Up for, **Design, supply (FOR Site basis including unloading), Installation, modification, testing and commissioning of Butter cold storage on turnkey basis**".

Rights Reserved by AmulFed Dairy (A unit of GCMMF Ltd).

AmulFed Dairy (A unit of GCMMLtd), at its sole discretion and without assigning any reason thereof, reserves the right to accept and / or reject the whole or part of any or all the bids received.

Validity :

The offer should be valid for 6 Months from the date of Bid opening.

Contact details: For any techno-commercial query you may contact Palak Shah (7359001666), or (E-mail-palak.shah@amul.coop) of Purchase department.

Scope of Supply

BOQ for Butter cold storage

Sr. No	Equipment	Capacity		Quantity	
		Value	UoM	Value	UoM
1	Wall Insulation Sandwich PCGI Panel for Butter Cold room including columns. PUF density 40 ± 2 Kg/m ³	80	mm	475	Sq mtr
2	Ceiling insulation Sandwich PCGI panel for butter cold room including columns. PUF density 40 ± 2 Kg/m ³	80	mm	500	Sq mtr
3	Floor insulation for buuter cold including columns in two layers. PUF density 40 ± 2 Kg/m ³	80	mm	500	Sq mtr
4	Cold room Flashing and Accessories			1	Lot
5	Manual sliding/Hinge door of Metaflex make for cold storage. Door heater and frame heater shall be provide. Height shall finalize as per layout. Approval must taken before finalizing.	80 mm Thick, 1.5X2.1 Mt	mm	4	Nos
6	Air curtains shall install at each door with proxy switch. Air curtains shall supply by AFD.	1.5* 2.1	mtrs	4	Nos
7	PVC strip curtains supply and installation at each door.	1.8 X 2.1	mtrs	4	Nos
8	Safety system including emergency switch with protection cap inside cold room, pop up indication, hooters etc. at outside butter cold storage.			1	Lot
9	Internal electrification of Butter cold store including supply & laying of FRLS conduits, wires, MCBs, switch plates & switch boxes with DB, supply and installation of IP 65 light fixtures, Distrubution board etc. Main cables shall provide from nearby MCC panel.			1	Lot
10	Low height Imported Force draft coolers with SS coil,SS Casing, SS bottom insulated Sandwich tray for Butter cold storage Make - Kelvion goedhart/Alfaluve. Rewindable motor of IE3 efficiency shall use for high efficiency fans.	10	TR	4	Nos
11	SA 106 Ammonia piping for connection of all the Forced draft coolers liquid feed line from existing accumulator, wet return line upto existing accumulator, Liquid line bypass assembly, wet return line with isolation valve, fittings, instrumentations, gauges etc. complete in all respect as per approved P&ID.			1	Lot
12	GI drain line for all cold storage units with U traps. Common drain line shall left up to nearby drain.			1	Lot
13	SS304 supports shall provide for ammonia pipeline, cable trays, which are laying in side cold room.			1	Lot
14	Online air breathing system Shall install with SS air lines with breathing (Charcol) filter near butter cold storage of Venus make only			1	Nos

15	Ammonia leak detection system of Danfoss make only with sensors installed at Butter cold storage area, Ammonia liquid line assemblies etc. Warning shall give at R2 control room.			3	Lot
16	Common Local temperature display (05 nos.) at butter cold storage dock.			1	lot
17	Platform and approach shall provide to work on ammonia Liquid line assembly of FDC.			1	Lot
18	Off White cream color coated MS Mezzanine shall provide in butter cold room in such a way that both the floors are of same height. Suitable size square box shall use with gap for proper circulation of air flow. Approx. weight of load - 1.6 ton/sq mtr. Gap shall left in front of units, at loading and unloading point of pallets, surrounding walls for circulation of air flow.			1	Lot
19	SS 304 conveyor system for loading and unloading of box on the upper floor of cold room from dock with proper slope. Conveyor size shall design as per butter box size.			1	job
20	Suitable scissor movement type hydraulic Loading unloading lift for pallet with butter materials on bottom floor of cold room. Loading unloading capacity - 1.2 ton, Pallet size 1200 mm *1100mm. Approx Height movement - 2000mm			1	job
21	Evaporative Condenser BAC/EVAPCO make with capacity rating at 28 Deg C Wet Bulb Temp and 38 Deg C Condensing temp. Fan Motors and pump motors are of IE3 efficiency only. Dual make up valve and float valves must be provided for condenser. MOC for the Pan + all surrounding casings + internal supports - SS316. MOC for coil = Hot deep galvanizing CS coil. Isolation inlet and outlet valves, Pressure gauge with isolation valve, vent valve, safety valve, thermowell with temperature transmitter in outlet line shall provide	430	TR	1	Nos
22	Witt make Hermetic construction type (HRP 8050) Ammonia pump 18 KLPH, 35 m head suitable for butter cold storage with suction strainer, suction & discharge isolation valves, discharge NRV, PDC system etc.	18	KLPH	1	Nos
23	SA 106 Ammonia piping for connection of 1 numbers Evaporative Condensers (on terrace) with existing system (with isolation valve), 1 number of ammonia pumps, fittings, instrumentations, gauges etc. complete in all respect as per approved P&ID.	-	-	1	Lot
24	MS Structural (Epoxy painted) supports for road crossing shall provide for ammonia pipe lines, power cable trays, control cable trays. All structures should be ISI mark. Painting of the MS structure done with Epoxy painting. Grey primer shall provide before painting.			1	Lot

25	Galvanized supports shall provide for evaporative condenser, ammonia pipeline, cable trays, which are laying out side of the plant and cold room. All structures should be ISI mark.			1	Lot
26	Ammonia valves of Danfoss make only as per complete requirement.	-	-	1	Lot
27	Refrigerant controls of Danfoss make only as per complete requirement.			1	Lot
28	First charge of ammonia.			1	Lot
29	Spares for normal operation. List with break-up prices shall be provided. Mechanical seal of condenser pump, gasket set & bearing sets for nh3 Pumps and Supply fan with motor for Cold storage units.			1	Lot
30	Design, installation, testing & commissioning, project management, training, documentation, manuals and 3 months continuous performance trial			1	Job
31	Switchgear Modification in existing MCC panel feeder to give supply to condenser fans, Condenser pump, Cold Storage AHU, Air curtains, Door heaters For each equipment feeder shall prepare with necessary required materials and supply given from that. VFD for condenser fan and soft starter for condenser pump shall provide.			1	Lot
32	Power Copper Armoured cables of RR/Polycab/KEI/HAVELLS for condenser, Hermetic ammonia pump, Air handling units of butter cold storage, Air curtains, door heaters, Lighting etc.			1	lot
33	Screened Control copper cables Multi core for evaporative condenser, ammonia pumps, forced draft coolers of cold storage, all pressure and temperature measurements, all liquid, suction, hot gas solenoid on/off, required temp. Sensor in different location as per our requirement. Paired cables shall be used for temperature and pressure measurement.			1	Lot
34	All the evaporative condenser, ammonia pump, cold storage units, cold storage temperature shall take in the respective existing scada. If the bidder cannot able to take all this Equipments in the existing scada than bidder shall provide new scada for the new system.			1	lot
35	Perforated GI Cable Trays for condenser, ammonia pump, cold storage units (Outside of cold storage) & Cable conduits etc. as required. Bidders to assess quantity and must submit unit rates for payment against Joint Measurement sheet (JMS)			1	Lot
36	Cable glands, Lugs and other electrical accessories as required.			1	Lot
37	Junction boxes, Emergency button etc. as required. All Evapco Fan, Ammonia pump, cold water pumps with Emergency Push button at field level.			1	Lot

38	Interlocking system as per the requirement – scheme to be submitted and got approved			1	Lot
39	Chemical Earth pits with FRP chamber as per spec (Power and instrument earthing must be separate) . Earthing Grids as per the requirement of the total job. Copper earthing should be provide for instrument earthing. Double GI earthing should be provide for all power earthing.			1	Lot
40	Refrigerant line insulation with in situ PUF injection. Density of 40±2 kg/cm2			1	Lot
41	22 g Aluminium cladding for all refrigerant lines, drain lines			1	Lot

Warranty for Machine: 1 Years from Date of Commissioning for new Unit

LIST OF APPROVED MAKES OF BOUGHT OUT ITEMS

Description	Make
Electric Motor	Siemens / ABB / Bharat Bijlee/ Crompton Greaves Siemens/ABB/Baldoor – for compressor
Electronic soft starter	Rockwell/Siemens/Danfoss
Liquid ammonia pumps	WITT
Water Pipes	TATA / Jindal
Sandwich panel insulation for cold rooms	Jindal /Lloyds / Beardsell/ Frick/ ICE MAKE/Equivalent
Cold store doors	Metaflex
PVC strip curtains	AVALANI/EQUIVALENT
Saddles for cold insulation	Supertherm (Lloyds) / Beardsell
Refrigerant / Oil pipes	TATA / Jindal
Ammonia valves	DANFOSS
Water valves	Saunders / Audco / BDK / Intervolve
Structural Steel	SAIL / TISCO /RINL / ESSAR
Flow Switch	Danfoss/ Honeywell
Pressure switch / Pressure transmitter / Liquid level controller / LP/HP/OP Cut-outs / Solenoid valves / Back pressure r Regulating valve / Thermo stat / humidistat	Danfoss / Parker

Description	Make
Automation system	Rockwell /Siemens
Intelligent motor protection relay	Rockwell/Siemens
Reflux type ammonia liquid level gauge	Revathi / RK Dutta
Dial type Pressure/ Temperature gauges	H.GURU / PRICOL / FIEBIG/ WARREE
Digital temperature sensors/ indicator / controller	Yokogawa /Chino / Tata Honeywell
ACB/ MCCB	SIEMENS/ L&T
Switch fuse units	SIEMENS/L&T
MCB	HAGER/SIEMENS/MDS-LEGRAND
LT XLPE Aluminium armoured cable (From PCC to IMCC)	CCI.GLOASTER/TORRENT/UNIVERSAL/POLY CAB/RR/KEI
LT XLPE copper cables (From IMCC to individual motors) armoured cable	LAPP/ CONCAB/ESBEE/POLYCAB/RR/KEI
Control cables	Lapp/Concab/CCI/ FINOLEX / LAPP KABEL / POLYCAB /RPG ASIAN
Protective relays / Over-load relays / Contractors/ Timer / MPCB	L & T/SIEMENS/ SCHNEIDER/ABB
Push button	L&T/SIEMENS/SCHNEIDER/ABB/TECHNIC/ VAISHNAV / GE
LED type indication lamp	L&T/SIEMENS/ BINAY/ PRECIFINE / TECHNIC/ VAISHNAV
Terminal block	WAGO / LAPP INDIA /CONNECTWELL
HRC fuse	L & T/SIEMENS /EE/GE POWER / C&S
Measuring instruments	L&T / Enercon / CADEL / IMP/ MECO / AE
Current transformer	KAPPA/ IMP/ MECO/ AE
Rotary switches	L&T / SIEMENS/ SALZER /TECHNIC
Capacitors	UNISTAR/ MEHER/ SIEMENS /EPCOS
Lugs	DOWELLS/ COMET / LAPP KABEL/ 3D
Gland	DOWELLS/ COMMET / LAPP KABEL
Mechanical Interlock	L & T/ SCHNEIDER/ ABB
LT Energy meter/ Digital Voltmeter / Ammeter	L&T/ ENERCON/ INDIAMETER /CADEL
Vapour proof Light fittings for cold store /deep freezes	Philips / Wipro

Payment term for the tender:

Payment for supply, installation and commissioning contracts must be strictly as below:

- 1) 20% advance of total contract value (Supply + Erection & Commissioning) on submission of following:
 - (i) Acceptance of the order i.e.
 - a. Submission of the Duplicate copy of the order duly signed by the authorised signatory putting stamp of the Organisation.
 - b. Against a bank guarantee for equivalent amount valid for 60 days beyond the stipulated delivery (as per schedule of delivery/supply)/ completion period.
- 2) Payment against Supply and erection of equipments/material:
 - a. 65% progressive payment of supply value against safe receipt of goods at site.
 - b. 65 % payable on erection value on progression of erection within 30 days.
- 3) 15% balance payment within 30 days of satisfactory commissioning of the Machine. On submission of:
 1. The Performance Security shall be in the amount of 15% of the Contract price up to sixty days after the date of completion of performance obligations including warranty obligations.

Notes: a) Payment shall be made on complete supply of an item/group of items specified in the contract. No payment specified in the contract. No payment shall be made if supply of an item/group of items is incomplete.

b) For all the payments to be made against bank guarantees, The Bank Guarantees should be obtained from Nationalized Bank or ICICI Bank, HDFC Bank, Yes Bank, IDBI Bank, Kotak Mahindra Bank or acceptable Bank by AFD. Vendor will take our consent before issue/submission of BG.

Liquidated Damages

Bidder/Supplier fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages as under:

- a. **For the Supply Component:**
A sum equivalent to 0.5% of the delivered price of the delayed goods (As per the price break up furnished by the supplier and accepted by the Purchaser, which the supplier fails to supply within the time period specified in the contract for each week of delay.
- b. **For the Erection and Commissioning Component:**
A sum equivalent to **0.5%** of the un – executed portion of each week of delay or part thereof beyond the time specified in the contract for the successful completion of the plant.

The total amount so deducted as per above, shall not exceed **5%** of the Contract value. Once the maximum is reached, the Purchaser may consider termination of the Contract.

QUALIFICATION APPLICATION

Qualification Application Form

You must submit this form (Table 2 and 3), duly filled in, along with the supporting as per following checklist given in Table 1:

Table 1 Checklist for Supportings	
Supportings Required	Please (√)
Latest Balance sheet filed with (Name of Authority) on (Date)	
Latest Profit & Loss Statement from (date) to (date) filed with (Name of Authority) on (date).	
Audited copies ¹ of annual accounts and P & L account of past 3 years	
Certificate of Financial Soundness from Bankers of Bidder /Suppliers	
Income Tax Clearance Certificate (Latest)	
Sales Tax Clearance Certificate (Latest)	
Details of Income Tax Registration	
Details of Sales Tax Registration	
Organization Chart	
Annual Report of last three years	

¹ Indigenous Bidder/Suppliers 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.

Table 2 Financial Soundness			
General Information			
Name			
Address			
Phones			
Mobile			
Fax			
E-mail			
Contact Personnel with designation			
Financial Information			
S N	Description		Value (Rs)
1	Ca sh Ba la	In Bank	
		In Hand	
		Total	
2	Fixed Assets	Gross	
		Net	
3	Curre nt Asset	Inventories	
		Others	
		Total	
4	Current liabilities	Bank Cash Credit	
		Sundry creditors	
		Others	
		Provisions	
		Contingent Liabilities (including claims not acknowledged, please specify)	
	Total		
5	Capit al	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	
Significant Financial Ratios			
SN	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			
SN	Period		Value
1	Current period		
2	During the last Financial Year		
3	During the year before last Financial Year		
Financial Arrangements			

SN	Resources	Amount
1	Own	
2	Bank Credits	
3	Others (Specify)	

Sales			
SN	Category of Customers	Value of orders to be executed/ anticipated Sales	
		Current	Next Financial Year
1	Government Department		
2	Commercial		
3	Others		
	Total		
Annual Turnover			
SN	Financial Year (Please begin with current year)		Turnover
1			
2			
3			
4			
5			
6			

Table 3 Technical Competency		
Classifications		
SN	Category	Please (√)
1	Manufacturer	
2	Clearing & Forwarding Agent	
3	Stockist	
4	Wholesale Dealer	
5	Authorized Reseller	
6	Authorized Service Agent	
7	Retailer	
8	Trader	
9	Others (please specify)	
Details on Plant		
SN	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)	

Plant Facilities					
SN	Facilities		Ans	Remark	
1	Space available for manufacturing (in m2)				
2	Space available for storage (in m2)				
3	Space available for inspection (in m2)				
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					
SN	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					
SN	Quality Control Method		Response		
1	Are goods offered subject to Batch Test, Random Sampling or full 100% test 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?				
Manufacturing Capacity					
SN	Description of Equipment	Capacity	Units Manufactured		
			Current year	Last Year	2nd last year
1					
2					

Personnel/ Organization				
SN	Personnel in	Numbers in levels		
		Managerial	Supervisory	Skilled Workmen
1	Production			
2	Marketing			
3	Installation and commissioning			
4	Service			
5	Spare parts			
6	Administrative			
Service Center nearest to our site location				
Location				
Phone no				
SN	Information required on	Details		
1	Number of skilled employees			
2	Number of unskilled employees			
3	Number of engineering employees			
4	Number of administrative employees			
5	List of special repair/ workshop facility available			
6	The storage space available for spare parts (in m2)			
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			

References²						
SN	Name of Organization	Address, Telephone, Fax, Contact Person				
1						
2						
List of components usually subcontracted						
1						
2						
Workload for the current and forth coming financial year on quarterly basis						
SN	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 N	Name of the client	Project	Year of award	Year of completion	Capacity/ Products	Value (Currency)
1						
2						
3						

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 AmulFed Dairy, Gandhinagar regarding the Bidder/Supplier's technical and delivery ability:

4						
Type of equipment manufactured and supplied (M & S) during last 2 years						
SN	Equipment	Capacity	Qty	Projects	On Hand Order Qty	
1						
2						
3						
4						
Type of equipment manufactured, supplied, installed and commissioned (MSIC)						
SN	Equipment	Capacity	Qty	Projects	On Hand Order Qty	
1						
2						
3						
4						
Schedules for furnishing technical data and certified drawings after receipt of orders						
1						
2						
Number of weeks required for preparing a bid proposal						

Collaborators' Authorisation Form

Reference

Dated

**General Manager
AmulFed Dairy, Gandhinagar
Plot No. 35, Near Indira Bridge
Ahmedabad - Gandhinagar Highway
Vill.: Bhat, Dist.: Gandhinagar - 382428
Gujarat, India**

Dear Sir,

Bid Reference: MD/EXP/PKS/2015/1

We, (Name of the Collaborator), an established and reputable supplier of Technology and goods (Name of Technology & Goods) do hereby authorize (Name and address of **Agents**) to bid, negotiate and conclude the contract with you against Bid Reference: MD/EXP/PKS/2015/1 for the above technology & goods supplied by us.

No company or firm or individual other than (Name of your sole agent/ distributor) are authorized to bid, negotiate and conclude the contract in regard to this business against this specific Bid. (Strike out this, if not applicable)

We hereby extend our full guarantee and, warranty for the technology and goods offered for supply against this invitation for bid by the above firm.

Yours faithfully,

(NAME)

For and on behalf of

(Name of Manufacturers)

Note:

This letter of authority should be on the Letterhead of the Collaborators' concern and should be signed by a person competent and having the power of attorney to bind the Supplier.