



**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 "**Automatic High Speed Vertical FFS Single Head Pouch Packing Machine (for 500 g) with All Accessories.**" as per given scope of work.

AFD: PUR: ENQ: 2022: 01





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: **"Automatic High Speed Vertical FFS Single Head Pouch Packing Machine (for 500 g) with All Accessories."** as per the scope of supply mentioned in the Inquiry".

Bid Reference	AFD: PUR: ENQ: 2022: 01
Bid Start	Starts from 08.01.2022
Submission	Up to 02.00 pm of 25.01.2022
Bid Opening	25.01.2022 at 2.30 PM
Completion period	6 months
EMD (Rs. in Lac)	1.00

Eligibility Criteria

- 1) Bidder should be having minimum 5 numbers of successful installations of similar nature (VFFS machines for milk powder) 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. 7 Cr and must have executed, in the last five years at three contract of similar nature and of value not less Rs. 1 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, "**Automatic High Speed Vertical FFS Single Head Pouch Packing Machine (for 500 g) with All Accessories**".

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

AmulFed Dairy (A unit of GCMMFLtd), 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

Technical Specifications and Scope for VFFS Machine Single Head

1. FULLY AUTOMATIC HIGH SPEED VERTICAL FFS SINGLE HEAD POUCH PACKING MACHINE

Quantity : 01 No – imported single head machine
Capacity : 500GM to 1000 GM X 75 PPM per head or maximum
Filling accuracy: +/- 0.5 gram in 500 grams (Sigma 3)
MOC : SS 304 (Machine including all support and covers other than electrical/cables)

Product:

SKIMMED MILK POWDER- STANDARD GRADE

SMP AGGLO.	0.48-0.52 BD
SMP NON-AGGLO.	0.62 BD
Moisture	2.5-4.0 % (Avr. 3.0%)

Laminate:

Machine shall be used for packing SMP in Laminate Seal type: Lateral serrated cross seals at top and bottom and plain fin over lap seal at the center (pillow type pouch).

Sr.No	ITEM	MATERIAL	WIDTH OF ROLL (MM)	REPEAT LENGTH (MM)
1	500g Sagar Laminate	12 μ CC PET + 12 μ Met. PET +50 μ Poly (Natural)	365	250
2	1 Kg Amul SMP Laminate	12 μ CC PET + 12 μ Met. PET +50 μ Poly (Natural)	440	305

Machine Mechanical details:

- AmulFed provided powder at end of our existing buffer hopper after that all the arrangement to be provided by bidder for powder conveying to machine through vibratory feeder system or user design system in SS 304 with support also for powder down conveying line should be product hopper level control interlocking system from machine HMI.
- All gear box must be from SEW.
- The machine shall have a closed transparent cabinet for the filling head & Laminate path also with door safety interlock. Suitable lighting arrangements must be given in both sides.
- Dust extraction system should be fitted to take care of any dusting in the machine.
- Discharge conveyer should be designed for check weigher and pouch must not fold on the way while transferring to other conveyors.
- Entire Laminate format collar and shoulder path in SS-304.

- All mechanical moving parts have a lubrication facility.
- All machine frame and support and cover made from SS 304 (except electrical/cable).
- Machine frame, support should be fully welded to prevent any dusting on in-between gap of machine.
- Inside machine have a sufficient space to access all parts for easy maintenance.
- All pneumatic items FESTO make requires.
- Bearing Make SKF.

Machine Electrical details:

- PLC controlled servo auger filling machine require.
- Eye mark sensor (Make- SICK).
- Control cabinet in dust proof and splash proof version of IP 54 or upgradable standard, main isolator with mechanical door interlock with safety interlock.
- Main ON-OFF switch for panel power isolation.
- Operation of the machine through HMI touch panel, machine speed (pouch per minute) should be change through HMI.
- PLC control touch panel HMI operation system with smooth and adjustable touch sensitivity.
- In HMI Multiple recipe storage require, if we select i.e, 500gm recipe then all existing saved data load automatic like packaging material size, output bag length & bag size, product drop time and sealing temperature, etc as require by machine.
- Recipe add, modify and delete option require with login-id and password protected.
- HMI with multiple login ID-password protection for operator & service, etc.
- All error message shown in HMI screen and saved in history.
- Emergency switch near operating panel and other emergency for each panel.
- All servo Motor and drive Make –Rexroth.
- VFD where required (Make- Danfoss).
- All electrical parts like Motor, drive and VFD, etc., should be work in high ambient temperature.
- TTO Coding make Markem Image smart date X40 model.
- Static charge Eliminator (SCE).
- Air Expeller/Deflector, Ionizing Ring.
- Check Weigher require with machine (synchronize with machine for tendency control in auto)with SS rejection bin, tower light, reject pouch buzzer.
- Check weigher make Minebea only.
- Check weigher panel dust proof IP54 or upgradable.
- Machine and Check Weigher Data both to be made available in presentation form either through plant MIS or through separate individual/common PC and Printer. Software related to this and cable must be installed by the bidder in our PC (AFD).Bidder to give system for the same.
- Check weigher feedback cable and power cable both separate Plug and socket fitting require in nearest to machine body and MCB or other safety provided in machine panel.
- All proximity sensor same type (i.e PNP or NPN) with indicator stander make SICK or IFM.
- All panels/cabinet (if more than one panel, then panel AC accordingly) should be with panel A.C and lights should be on, once opened with safety inter lock.
- Caution stickers provided by Supplier.
- For easy identification need labeling inside the panel.
- Single phase service socket 5 pin type one number in panel.
- With voltage stabilizer for power side and control side **(if required)**and UPS for control wiring only must be in bidder scope.
- Machine must be designed considering all safety aspects related to HSE.

- Laminate film auto tracking control systems require (Laminate left to right or right to left shifting control purpose).
- SS wire mesh type cable tray in SS-304.
- All proxy sensors, servo motor or etc field electrical wire must be proper fitting in cable tray and proper path to prevent any damages during maintenance work.
- All motor must be double earthing.
- All Machine body parts must have earthing to eliminate powder conveying static charge.
- All electrical panel component (i.e., Contactor, MCB, RCCB, ELCB, MPCB, etc.) Make: L&T, Siemens, Schneider or Eton only.

Utility:

- AFD provided 3-phase main power supply from MCC-4 room in packing area after that all cables with laying and plug-socket with cable tray to be provided by bidder for machine power (including stabilizer and UPS if require).
- AFD provide 6 bar air pressure nearest to machine after that supplier provide main air valve or Air regulator and FRV/FRL which require.

KPI (Key Performance Indicator)

- Speed as per tender
- Weight accuracy as per tender
- Zero dusting, hygienic line.
- Operational and Maintenance Flexibility.
- Safety Interlocks

Warranty:

- 2 years from the date of successful commissioning as per KPI given above. Any components damaged during this period, must be replaced by the bidder on FOC basis (other than intentional or mala fide damages)

Installation & Commissioning

- Machi ne loading, unloading and shifting for installation at site to be carried out by bidder.

Recommended Machine Make:-

- 1. Bosch
- 2. Rovema
- 3. Hassia

2. Commissioning and spares for 2 years operation: - In supplier's scope.

The supplier should provide all the recommended spares required for smooth machine operation in addition to the tentative list provided below:-

Consumable spares list for machine

Sr.No	Name	Qty
1	Servo motor of each type (one each) Rexroth make (If total 5 servo motor use in machine but different types of model is 2 no's than 2 different types servo motor require	1 each

2	Servo drive of each type (one each) Rexroth make (If total 5 servo drive use in machine but different types of model is 2 no's than 2 different types servo drive require with loaded programmed	1 each
3	Motor VFD of each type (one each) Danfoss make (If total 5 VFD use in machine but different types of model is 2 no's than 2 different types VFD require with loaded programmed	1 each
4	All different types of proximity sensor 02 no's each (If total 15 proxi. sensor use in machine but different types of model is 5 no's then 10 proximity sensor require	2 each
5	All motor VFD parameter to be shared (soft coy and hard copy both)	1
6	Backup software for all HMI,PLC, VFD's, Servo motors,etc.	1
7	servo drive to servo motor cable set with connector	1
8	All pneumatic valves and coils FESTO make (02 no's each)	2 each
9	All different types of fuse (5 each)	5 each
10	SSR for Heater	3
11	Horizontal JAW heater	10
12	Vertical JAW heater	10
13	Jaw Heater cable set	5
14	Thermocouple	10
15	Door safety sensor	2
16	Photocell	1
17	PLC DI and DO card	5
18	PLC AI and AO card	5
19	All different types of relay (5 each)	5
20	Tracking sensor with motor	1
21	Draw-off belt	6
22	All different types of bearing Make-SKF (If 20 bearing used in machine then 01 set of 20 bearing require)	1 set
23	5 no's each of all different types of oil seal and O-ring and Bush	5 each
24	Check weigher conveyor belts	3
25	Check weigher timing belts	3
26	Check weigher conveyor motor	1
27	Jaw Knife	5
28	Roller (with bearing) of laminate path	5
29	Printer Rubber Roller	1
30	air gun	1
31	JAW front & rear die	1
32	1 set of 500gm auger	1
33	Flapper Rod	1 pair
34	Timing Belt	1 Each
35	Mixer Drive-Driven Sprocket	1

36	Coupler and rubber spider	1
37	Carbon blade of vacuum pump	1 set
38	Pneumatic cylinder used in machine	1 set

Old Machine detail for Buy Back

- Old buy back machine dismantling, shifting, packaging, loading, and transporting etc., all activity to be carried out by bidder.

Make: Hassia Redatron

Type:FLEXIBAG-250

Mfg. Year:2002-2003

Sr.No:07020729017

Input Volt:415 V 3Phase

Power:15 KVA

Excluding item:

- 1) Incline conveyor.
- 2) Online check weigher.
- 3) Acrylics cover back side.

Warranty for Machine: 2 Years from Date of Commissioning for new Unit

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			
SN	Description		Value (Rs)
1	Cash Balance	In Bank	
		In Hand	
		Total	
2	Fixed Assets	Gross	
		Net	
3	Current Asset	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	
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.