



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

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

Request for Bid (RFB) for “**Supply, Installation & Commissioning of vacuum deodorizer/Vacreator**” as per given scope of work.

AFD: PUR: ENQ: P: 2023: 2300267



Inquiry Start Date	13/04/2023
Last date of vendor registration	19/04/2023
Last date for submission for technical bid	24/04/2023
Last date for submission of commercial bid	03/05/2023 16:00 Hrs.
Website for vendor registration	https://afdpurchase.amul.in/
Contact Person	Yogendrasinh Sodha- 7046036777

Supply, Installation and Commissioning of Vacuum Deodorizer/ Vacreator in existing milk processing line

Design base

Amul Dairy wish to install and commission Deaerator/ Deodorizer/ Vacreator in exiting Milk processing line of 30,000 LPH to deodorize the milk.

Exiting 30,000 LPH milk processing line is fully automatic and with separator and automatic standardization unit. 30,000 LPH pasteurizer consist of different plate packs like Regeneration and chilling, Cream cooling with the help of raw chilled milk, Milk heating and hot water section.

Existing pasteurizer is having 93% regeneration efficiency. Temperature of milk to separator shall be around 55 degree C and regeneration out let temperature shall be around 73 degree C.

Now AFD wish to install new De aerator/ Deodorizer/ Vacreator of 30,000 LPH within this existing milk processing line to deodorize milk with all required monitoring, controls and automation without affecting existing efficiency, capacity and quality.

Bidders to consider supply, installation, integration and commissioning of De aerator/ Deodorizer/ Vacreator in existing milk processing line considering all electrical, mechanical, instrumentation and automation work. Proper CIP of complete integrated system shall be Bidder's responsibility. Bidders to decide the location of de aerator within the pasteurizer to get desire output.

As existing milk processing line is fully automatic with al interlocks, proposed de aerator system is also to be integrated in existing system considering full automation with all interlocks. All automation including modification in SCADA with respect to de aerator shall be in bidder's scope.

Bidders to consider loading, unloading, shifting & positioning of equipment.

Bidders to provide integrated P&ID and GA drawing with technical Bid to evaluate.

Bidder can visit AFD to understand the process, automation and existing equipment lay out.

Technical specification of vacuum deodorizer/Vacreator

Application	To deodorize milk
Capacity	30,000 LPH
MOC	SS 316
Vacuum pump	As per design and capacity
Vacuum requirement	Optimum as per requirement
Pneumatic valve	As per design with ASI connectivity
Mounting	Skid mounted
Accessories	All required pneumatic valves, utility valves, instruments, pumps, vacuum pump, pipes and fittings, spray ball etc.
Supply, Installation, Integration and Commissioning	Bidder's scope
Loading, unloading, shifting & positioning	Bidder's scope

Recommended make for major Bough out items

Equipment	Make
Vacuum Deodorizer/Vacreator	IDMC/ GEA/ TETRAPK
Process pumps	Alfalaval (LKH)/ SPX
Vacuum pump	Joyam/ IVC/ equivelant
CIP spray ball/ Turbine	Alfalaval/ GEA Tauchenhagen/IDMC
SS tubes, Pipes and fittings	Apex, Heavy metals/IDMC/Alfalaval
Pneumatics	Festo/SMC
Process/CIP Pneumatic Valve	GEA Tauchenhagen/Alfalaval/SPX/ IDMC
Instrumentation and Automation	
VFD	Denfoss
Pressure Transmitter	EH/Emerson
RTD	Redix/Pyro/Altop
Flow Switch	IFM/Honeywell
Level switch	EH/Emerson
Flow Transmitters	EH/Emerson
Control Valves	Samson
Pressure Gauge	Warea/WICA/GIC
Electrical	
Electric Motors	ABB/CG/Siemens
MCCB/MPCB/Relay,	L&T/Siemens
Timer, Switch Fuse, MCB	L&T/Siemens
Push Button, LED	L&T/Siemens
PVC conduit and accessories	Polycab/others
Power cable	Poly cab/hevels/finolex/KEI
Instrument/signal cable	Lapp
Plug and Socket	Legrand/ Hensell
Utility valves and Pipes GI, MS	
Water vales, Butterfly	Audco/ intervalves/equivalent
NRV	Audco/ intervalves/equivalent
GI, MS pipe	Tata/Jindal/equivalent