



AMULFED DAIRY

A UNIT OF GUJARAT CO-OPERATIVE MILK MARKETING FEDERATION LIMITED
PURCHASE ENQUIRY

Inquiry No : AFD: PUR: ENQ: 2022: 551, Dated: 13.08.2022

Description : Purchase Inquiry for Supply, Installation and Commissioning of 2 nos of FAV System on Buy Back offer basis.

Qty : As per BOQ

Last Date for vendor registration in our Purchase Portal: 30.08.2022 before 4:00 PMLast

date for submission for technical bid: 30.08.2022

Last date for submission of commercial bid: 02.08.2022 before 4:00 PM

Dear Sir,

You are requested to give your most competitive rates for supply & installation and commissioning of FAV units on buy back offer basis at AmulFed Dairy, Gandhinagar with all the accessories required, as per the annexure attached herewith:

Procedure to participate in above inquiry:

- 1) All the interested bidders have to participate in the inquiry through our purchase portal by registering your firm as a new vendor (if your firm already have registration in our PP, than you have to login to your account and request AFD to send RFQ).
- 2) Interested bidders have to registered your firm in our Purchase portal .
 - a. Website for our portal is as >>>: <http://afdpurchase.amul.in/>
 - b. Click Here for Circular from AFD : [Click Here](#) for circular
- 3) Click Below links for Guidelines :
 1. [Guide for VRF - Other than MANUFACTURERS](#)
 2. [Guide for VRF - MANUFACTURERS](#)
- 4) Offer through mail/hardcopy are not accepted and stand for rejection, your competitive bids should be submitted through our online portal only.
- 5) Detail technical specification is as below for your reference.
- 6) Interested bidders have to submit their technical specification/detail first, after technical evaluation/approval based on the below requirement, bidders will invited for submission of commercial bid.
- 7) For any query please contact Mr. Palak Shah (Mobile - 7359001666, E-Mail-palak.shah@amul.coop)

Amul SAGAR

Plot No. 35, Nr. India Bridge, Ahmedabad – Gandhinagar Highway, Village: Bhat, Dist.: Gandhinagar, PIN 382 428
Tel. No.: (079) 23969055 – 58, Fax No.: (079) 23969059
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Annexure-I

Technical Specifications for FAV System:

Scope of Work:

Scope of work covers replacement of existing FAV Units of UHT Area with New FAV Units under buy back basis including removal of old 2nos FAV units, supply of New Units (Bare units without fans and electrical work), unloading, erection, testing and commissioning of New 2 nos FAV (Air Washer) system with required ducting for cooling arrangement of UHT Area at AmulFED Dairy, Gandhinagar. All arrangements for lifting tools & tackles for unloading and installation of New FAV Units and removal of old FAV Units shall be in the scope of supplier even if buy back is not done by vendor.

Scope of work also covers installation of new ducting supports for existing ducts and removal of old supports. Approximate number of supports are 50.

Technical Specifications:

FAV system is to be supplied for APS plant designated area of plant as below:

1. UHT Area

Broad technical specifications of work are as under:

System Requirements and Ducting Technical Specifications:

Sr. No.	Particulars	DE Area
1	Capacity of FAV Unit	24000 CFM (existing units have 24000 CFM capacity at 55 mm static pressure and ducting is already laid.)
2	No. Of FAV (Air Washer)Units	2
3	Supply Air Temperature in peak summer °C at grills	28
4	Type of ducting	Factory fabricated ducts as per "SMACNA" Standards Rectangular/Square with RTV sealing at joints
5	MOC of ducting	GI with SS nut-bolts
6	Thickness of ducting	Outdoor 20 G, Indoor 22 G
7	Ducting insulation	13 mm Nitrile Rubber with Aluminium Foil faced.
8	Requirement of insulation	All ducts indoor and outdoor should be insulated.
9	Ducting supports	Hot Dip Galvanized angle frames with SS nut-bolts and SS hanging rods.
10	Air Control Dampers	Aluminium at required locations, to be decided by supplier for uniform air distribution

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Sr. No.	Particulars	DE Area
11	Supply Air Grills (Diffusers)	Aluminium Powder Coated, VCD Type with 15° coverage on either side. Condition of existing air grills to be assessed by bidder and replace wherever necessary.

FAV (Air Washer) Unit Technical Specifications:

Sr. No.	Particulars	Specifications
1	Fan Type	Plug type Fan with external VFD (Free issue by AFD)
	Fan Support Arrangement	All mounting support should be SS 304
2	Fan Static Pressure	55 mm WC
3	Unit Framing	Extruded Aluminium
4	Type of Unit	Unit must be blow through type, i.e. cooling section should be after the fan section. Access doors should be provided for ease of maintenance at required sections. Double skinned with 25 mm thick 40 Kg density PUF injected panel, 0.8 mm GI powder coated sheets on outer side and SS 304 0.8mm thick on inner walls. Floor panel shall be SS 304 1 mm thick. All fittings should be SS.
5	Water Tank	SS 304 18 gauge with bottom support. Heavy duty float Prayag make should be installed to withstand water supply pressure of 3.5 kg/cm ² without any trouble.
6	Water Pump	Centrifugal type, Kirloskar/Equivalent make. Water pump must be 3 Phase.
7	Pre-filters	10 Microns, washable type, with SS nut-bolts and framing of filter should be SS 304 and maximum terminal velocity of 500 FPM. Separate inlet section with louvers shall be provided before filter section to prevent direct dusting of filters. Structure Frame for Filters should be SS 304.
8	Cell Pad	Munters make with 300 mm thickness split in two cell pads. Cell pad support should be SS 304.
9	Saturation efficiency	Minimum 90%
10	Drift Eliminator	4 Pass PVC Eliminator

Notes:

- Water inlet to FAV system shall be provided by AFD. All other piping including strainer, float valve, pump etc shall be in scope of bidder.

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- Civil work shall be done by AmulFED Dairy. However, anchoring work for support fixing shall be done by supplier.
- Bidder should quote the unit rates for supply and installation of ducts, removal/dismantling of old ducts, old FAV Units, Installation of New FAV (Air Washer) units, dampers and Grills. Final payment shall be made based on joint measurement sheets.
- Bidder should provide buy back price of old FAV Units and duct separately. Even if buy back not happened still need to consider removal/dismantling of old ducts and old FAV units in Vendor scope.
- Rates should include cost of nuts, bolts, gaskets and other such miscellaneous items, including fabrication and fixing of supports.
- All electrical and piping work shall be carried out on Lot basis. Bidder must visit the site and assess the volume of work involved.
- Before submission of offer, bidder must visit the site and understand the exact system requirements as well as site conditions.

Office, Store and Security

AFD shall not provide any office space or store. Bidder has to make his own arrangement with INSTA CABIN (Containerized Office and Store) near to proposed location, if required. No Shanties will be allowed to be built-up in Dairy premises. Bidder has to provide own security round the clock for safety of your materials.

Protection of Environment

Bidder shall store the material at site and carry out the work in such a manner that environment and green belt is not endangered. All construction/fabrication debris shall be shifted from site as soon as possible at the place and in the manner directed by the Engineer in Charge from AFD.

Safety

Special importance shall be given to Safety of persons engaged at site during the execution of work. The contractor shall abide by all rules and regulations in force to ensure workplace safety, including obtaining the labour license, taking site safety permission etc.

Labour license must be taken of numbers of person working at site exceeds 9 as per factory act. System design shall also be done in such a manner so as to ensure safety of personnel operating and maintaining the equipments.

Turnkey responsibilities

The scope of work covers supply, unloading, project management, erection, testing, commissioning

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and putting into successful operation of all equipments and achieving the intended performance of complete system.

Bidder should also consider activities like transit insurance, unloading, storage at site, workmen insurance, assembly, erection, regular inspection, pre-commissioning checks, obtaining statutory clearance, furnishing skilled/unskilled labors during work as well as commissioning etc. under the scope of work.

Tools and Tackles

All special tools and tackles like chain pulley block, Cranes etc. required for erection of equipments shall be included in the scope of supplier.

Warranty Period

All the equipments and systems shall be warranted for intended performance for a period of 24 months from the date of hand over.

Time Frame:

Successful bidder shall visit the site within a week of receipt of PO and finalize the drawings. Material shall be supplied within 6 weeks and the entire work shall be completed within maximum time frame of 10 weeks from the date of approval of drawings.

AFD reserves the right to consider the offer either in whole or in parts.

Approved Make List

Sr. No.	Item	Approved Make
1	Air Washer Unit	ZECO/NUTECH/EDGETECH/Citizen
2	GI Sheets	Tata/Zindal/SAIL/Nippon
3	FACTORY FABRICATED DUCTING	ETA-ALPHADUCT / TECHNO FABRI DUCT / ZECO/Rolastar
4	GRILLES / DIFFUSERS / VOLUME CONTROL DAMPER / LOUVERS	MAPRO / CARYAIRE / COSMOS / SYSTEM AIR
5	NITRILE RUBBER	ARMAFLEX/ AEROFLEX/ EQUIV.
6	FASTENERS	FISCHER / HILTI / CANNON
7	SS THREADED RODS	HI TECH / ROLASTAR
8	AIR FILTERS	AAF / ANFILCO / SPECTRUM / THRERMADYNE/ FREUDENBERG

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Bill of Quantity:

Sr. No.	Description	Qty	UOM	Unit Rate (Supply)	Total (Supply)	Unit Rate (Installation)	Total (Installation)	Total
1	FAV Units-24000 CFM (as per the inquiry specification)	2	Nos.					
2	20 gauge ducting (Outdoor)	375	Sq. Feet					
3	22 gauge ducting (indoor)	120	Sq. Feet					
4	SITC Alluminium air control damper	50	Sq. Feet					
5	SITC Aluminium Powder Coated Grills	50	Sq. Feet					
6	SITC 13 mm Nitrile rubber class"O" insulation with alluminium foil faced for ducting	500	Sq. Feet					
	SITC 25MM GI PIPING FOR AWU WITH ACES	20	Mtr					
7	SITC of Hot Dip Galvanized angle frames with SS nut-bolts and SS hanging rods.	60	Nos.					
8	Dismantling of old units	2	Nos.					
9	Buy Back of Old Units	2	Nos.					

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