



(Previously Known as Mother Dairy, Gandhinagar)

## Request for Quotation (RFQ)

AFD: PUR: HSG: MCC for Crate

25 Aug., 2025

To,

Dear Sir,

Sub: **Request for Quotation (RFQ)** for “MCC for Crate” as mentioned in annexure.

We invite your most competitive offer for **MCC for Crate at Packaging Film Plant** as per detailed specifications. Your offer should be based on following considerations:

1. The offer should reach:-AmulFed Dairy (Previously known as Mother Dairy-A Unit Of GCMF Ltd) Plot No-35, Nr. Indira Bridge, Ahmedabad - Gandhinagar Highway. Village Bhat, Dist - Gandhinagar. Pin - 382 424.

2. Due Date: **Technical due date Sept. 01, 2025 before 16:00 hours.**

**Commercial due date September 05, 2025 before 17:00 hours.**

3. The offer should be submitted in portal only.

4. Offer received after due date for whatsoever reason may be rejected.

5. Offer should valid for acceptance for 90 days from date for submission of offer.

6. The price should be quoted with all details.

7. **Specify your tax condition.** Non indication of above levies will mean that prices are inclusive of all taxes and above levies.

8. Realistic and earliest completion period should be indicated in offer.

9. It will not be binding on us to accept the lowest offer.

10. Right to accept/reject any/all offers without assigning reason is reserved by us.

11. Offers which are incomplete or not meeting the conditions are liable for rejection.

12. Payment terms after successful installation and commissioning of MCC within 30 days of invoice receipt. If the payment term is document through bank, all banking charges shall be borne by the suppliers.

13. **Please find below link to register your firm on Purchase Portal. Without completing registration process on portal can't submit offer. First of all, register your firm on shared link so can send inquiry through portal only. Vendors need to submit technical first. Only after technical clearance you will be able to submit commercial figures/values.**

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Interested bidders have to register your firm in our Purchase portal.

Website for our portal is as >>>: <http://afdpurchase.amul.in/>

Click Below links for Guidelines :

1. [Guide for VRF - MANUFACTURERS](#)

**14. Eligibility criteria: Must have executed similar type of order in last 5 year. Share credentials of the same. Bidder has valid electrical contractor licence. CPRI approved.**

We are an ISO 9001: 2015, ISO 14001:2015, ISO 22000:2018, ISO 50001:2018 and ISO 45001:2018 company; we follow sustainable eco-friendly processes in our organization and expect the same to be followed at your end. We emphasis on energy efficient system and utilization of renewable energy systems in eco-friendly and sustainable way.

**Rates must be inclusive of installation & commissioning.**

**FOR Packaging Film Plant, K-Road, Sector-25, Gandhinagar. Inclusive all.**

Note: If required please visit premises with prior confirmation before quote. Please arrange visit between 2:00 P.M. to 5:00 P.M. in working day.

: We may go for reverse auction/negotiation. If required we may ask for PBG.

Mail id as mentioned below.

Shri Hardik Gajjar : [hardik.gajjar@amul.coop](mailto:hardik.gajjar@amul.coop)

Shri Bhargav Kanabar : [bhargav.kanabar@amul.coop](mailto:bhargav.kanabar@amul.coop)

Shri Ajit Rana: [ajit.rana@amul.coop](mailto:ajit.rana@amul.coop)

Yours Faithfully,

For AmulFed Dairy,

Purchase Depart.



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**CRATE MCC INDOOR TYPE PANEL**  
with MS painted stand 600 mm height.

Sr. No.	Description	Type	Rating
1	Incomer	EDO Four pole Draw out type ACB with MP based OC, SC & EF, UV protection released with RS485 Multi-function meter.	1250 A
2	CRATE M/C-1	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	400 A
3	CHILLER M/C-1	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	100 A
4	ETA CRANE	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	100 A
5	MCB	MCB (4 pole ,63 A=2 nos) MCB (2 pole,32A=2 nos	4
6	Exhaust Fan	MPCB with ROM-2.5 to 4A	4
7	CRATE M/C-2	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	400 A
8	CHILLER M/C-1	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	100 A
9	SPARE	MCCB -Four Pole with ROM with MP based OC, SC & EF protection released with RS485 Multi-function meter.	100 A
10	MCB	MCB (4 pole ,63 A=2 nos) MCB (2 pole,32A=2 nos	4
11	MCB	MCB (4 pole ,63 A=2 nos) MCB (2 pole,32A=2 nos	4

The technical specification for MCC panel shall be as follows;

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<b><u>DESIGN DETAILS</u></b>					
<b>1</b>	<b>SYSTEM PARAMETERS</b>				
	<b>1.1</b>	Ambient temperature			
		0.1	Maximum ambient air temperature	Deg. C	45
		0.2	Reference ambient temperature for Design	Deg. C	50
	<b>1.2</b>	0.1	Maximum relative humidity	%	95% (non-condensing type)
	<b>1.3</b>		Rated voltage		
		0.1	Rated operational voltage	V	415V AC (+/- 10%), 3 Phase 4 wire System
		0.2	Highest system voltage	V	457 V AC
	<b>1.4</b>		Rated frequency	Hz	50 Hz (+/-3%)
	<b>1.5</b>		Earthing		Solidly Earthed
<b>2</b>	<b>CONSTRUCTION:</b>				
	<b>2.1</b>		Type of switchboard		ACB: Draw out type
					MCCB: Fixed type, Single Front,
					Compartmental
	<b>2.2</b>		Overall Dimension (W X H X D)	mm	Bidder has to provide
	<b>2.3</b>	Constructional features			
		0.1	Structure		2 mm CRCA
		0.2	Mounting Plate		2 mm CRCA
		0.3	Door		2 mm CRCA
		0.4	Partitions / Covers		1.6 mm CRCA
		0.5	Gland Plate		3 mm

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	<b>2.4</b>	<b>Installation</b>			
		0.1	Mounting on		Floor (Free standing), Indoor
		0.2	Additional channel frame for foundation		Base frame of 75 mm height.
		0.3	Lifting Arrangement		Lifting hook provided
		0.4	Front access		Hinged doors For Feeders & Cable Alley
					Bolted Covers for Busbar Alley
		0.5	Rear access		Hinged doors For Feeders & Cable Alley
					Bolted Covers for Busbar Alley
		0.6	Recommended minimum clearance required at front	mm	1500
		0.7	Recommended minimum clearance required at rear	mm	1500
		0.8	Future Extension		Extensible on both side
	<b>2.5</b>	<b>Degree of Protection</b>			IP 42
	<b>2.6</b>	<b>Paint</b>			
		0.1	Material		Epoxy Powder Coated min. 250 micron
		0.2	Inside shade		Siemens Grey
		0.3	Outside shade		Siemens Grey
		0.4	Mounting Plate		Orange
		0.5	Base Frame		Black
		0.6	Surface Preparation		7 tank Process

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	2.7		Name plates		Aluminum Anodized with letters engraved	
3	CONTROL/AUXILLARY SUPPLY:					
	3.1		Circuit	Rated	Bus bar/Wire	Source
				Operational Voltage (V)		
		0.1	Indication	240 V AC	Wire	Internal
		0.2	Metering	240 V AC	Wire	Internal
		0.3	Breaker Spring Charging Motor	240 V AC	Wire	Internal
		0.4	Breaker Closing Coil	240 V AC	Wire	Internal
		0.5	Breaker Shunt Trip coil	240 V AC	Wire	Internal
		0.6	Panel Space Heater	240 V AC	Wire	Internal
4	TERMINATION & WIRING/BUSBAR ARRANGEMENTS:					
	4.1		BUSBAR FEEDER CONNECTIONS			
		0.1	System		3Phase, 4 Wire System	
		0.2	Rated Current	Amp	Suitable	
		0.3	Material/ Grade (HBB)		Electrolytic grade Aluminum (E91E Grade)	
		0.4	Qty. X Cross section (HBB)	mm²	Suitable	
				mm²	Suitable	

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			<b>Note: Bidder to confirm the above size with calculation considering 0.8 A / sq.mm</b>		
		0.5	Material/ Grade (VBB)		Electrolytic grade Aluminum (E91E Grade)
		0.6	Qty. X Cross section (VBB)	mm	As Per feeder rating of vertical section
		0.7	Bus bar clearances	mm	To be designed as per relevant IS code
		0.8	Insulation (except at joints & tap-offs)		Heat shrink PVC sleeves
					Red for R Phase, Yellow for Y Phase, Blue for B Phase, Black for Neutral
	<b>4.2</b>		<b>Earth Bus bar</b>		
		0.1	Material / Grade		Electrolytic grade Aluminum (E91E Grade) as per relevant IS
		0.2	Qty. X Cross section (in mm)		As per design
	<b>4.3</b>	<b>Incomer</b>			
		0.1	Cable		Cable Entry
		0.2	Control cable entry from		bottom
	<b>4.4</b>	<b>Out-going feeder</b>			
		0.1	Power cable entry from		Bottom/top
		0.2	Control cable entry from		Bottom
	<b>4.5</b>	<b>Glands</b>			
		0.1	Supply		at site
		0.2	Drilling of gland plate		at site (Removable Gland Plate)
	<b>4.6</b>	<b>Wiring</b>			
		0.1	Type of wire		Single Core Cu. Flexible wire
		0.2	Insulation		1100 V PVC
		0.4	Control Wiring size		1.5 Sq.mm

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		0.5	C.T Wiring		2.5 Sq.mm
		0.6	Color coding for identification		Color sleeves at termination
		0.7	Power Termination		Crimped Tinned Copper Lugs Provided
		0.8	Control Termination		Crimped End Insulated Tinned Copper Lugs Provided
	<b>4.7</b>	<b>Power terminal</b>			
		0.1	Type of terminal		
		0.2	Size of terminal		
	<b>4.8</b>	<b>Control terminal</b>			
		0.1	Size of terminal		Suitable to 2.5 Sq.mm wire size
<b>5</b>	<b>EQUIPMENT:</b>				
	<b>5.1</b>	<b>Panel space heater</b>			
		0.1	Location		In Cable chamber
		0.2	Control / Protection		With SP MCB & Thermostat
<b>6</b>	<b>PANEL COOLING SYSTEM</b>				
	Proper Ventilation in all feeders and bidder has to provide proper heat dissipation system in each feeder with proper size cooling fan in each compartment				
<b>7</b>	<b>NOTES:</b>				
		1	Earthing of doors will be through 2.5-mm <sup>2</sup> yellow-green wires.		
		2	All the indication lamp shall be LED type.		
		3	All Out going and incomer compartments are covered with transparent insulation sheet from live busbar. (From Back side of each panel feeder)		

Note: Supplier to submit the GA drawing of the panel and bus bar sizing calculate

## 1. AIR CIRCUIT BREAKERS

ACB will be draw-out type suitable for 415 V, 50Hz supply. The ACB will have suitable built in solid state/ microprocessor based protective device with all accessories. Current rating, short

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circuit current, Earth Fault protection relays etc. will be provided. Mechanical interlock will be provided such that the ACB feeder cubical door can not be open when ACB is ON. All accessories such as 6 NO/6 NC auxiliary contact, safety shutter, door interlocking, locking in isolated position, racking interlock will be provided. The ACB shall be designed for fault level of 70-75 kA.

## 2. MOULDED CASE CIRCUIT BREAKERS

MCCBs will be manual type provided with operating handle mechanism and door interlocking. The MCCBs will be with four pole construction arranged for simultaneous four pole manual closing or opening & automatic instantaneous tripping on short circuit. Closing mechanism will be quick make & quick break & trip free type & will give a clear indication ON, OFF & TRIP indication. Fault rating of MCCB will be minimum 50 kA.

### APPLICABLE STANDARDS

<u>Sr. No.</u>	<u>IS No.</u>	<u>Description</u>
1)	IS:2516-1972	: Specification for AC circuit breakers.
2)	IS:2705	: CT for measuring and protection.
3)	IS:3155	: Voltage (Potential) Transformers.
4)	IS:3236 Part II	: Voltage Transformer.
5)	IS:373	: Busbar arrangement and marking.
6)	IS:2099	: Bushing
7)	IS:2629 & 2633	: Hot Dip Galvanizing
8)	IS:3842	: Relays.
9)	IS:1248-1958	: Meters (measuring).
10)	IS:3072-1975	: Installation of Switch gears.
11)	IS:1255	: Installation of HV cables and jointing.
12)	IS:3043	: Code of practice for earthing.
13)	IS:4047-1977	: HD Air breaker, Switch gears and fuses for Voltage not exceeding 1000 Volts.
14)	IS:8106-1966	: Selection, installation and maintenance of fuses upto 650 Volts.
15)	IS:4237-1967	: General requirements for switch gear and control gear for voltage not exceeding 1000 Volts.
16)	IS:2607-1976	: Air-break isolators for Voltage not exceeding 1000 Volts.
17)	IS:8623-1977	: Factory built assemblies of switch gears and control gears for voltage upto and including 1000 Volts A.C.
18)	IS:375-1963	: Marking and arrangement of switch gear busbars main connectors and auxiliary wiring.
19)	IS:2147-1962	: Cubical Boards.

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20)	<b>IS:8084-1972</b>	:	Insulated conductor rating.
21)	<b>IS:2675-1983</b>	:	Enclosed distribution fuse boards and cutouts for Voltage not exceeding 1000 Volts.
22)	<b>IS:732</b>	:	Code of practice for electrical wiring installation system Voltage not exceeding 650 Volts.
23)	<b>IS:1646</b>	:	Code of practice for fire safety of Buildings (general) electrical installation.
24)	<b>IS:3854</b>	:	Switches.
25)	<b>IS:6538</b>	:	Plugs.
26)	<b>IS:2834 -1954</b>	:	Shunt Capacitors for power systems.
27)	<b>IS:2208</b>	:	HRC cartridge fuse and links up to 660 volts.
28)	<b>IS:9224</b>	:	HRC fuses having rupturing capacity of 90 KA.

**NOTE:** All codes and standards mean the latest where not specified otherwise the installation shall generally follow the Indian Standard codes of practice or relevant British Standard Codes of Practice in the absence of corresponding Indian Standards.

## **1. List of Approved Makes for Cables, ACB, MCCB, Starters etc**

### **MAKES OF MAJOR SWITCHGEARS**

- ACB : Schneider (Draw out)
- MCB : Siemens, L&T, Schneider
- Cable Lugs : Dowells /3D
- Connectors : Elemax or Equivalent
- Energy Meter : L&T , Schneider
- Flexible cables : KEI, Polycab, havells, RR
- Push Button/LED Type indication Lamp : Siemens, L&T, Schneider or Equivalent
- Multifunction Meter : L&T, Schneider, Conserve



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**On Letter Head of Vendor / Customer.**

To,  
General Manager  
AmulFed Dairy (A Unit of GCMMF Ltd.)  
Village:- Bhat,  
Near Indira Bridge,  
Gandhinagar-382 428

Dear Sir,

**Sub : Fund Transfer Payments.**

I/we request and authorise you to effect Fund Transfer Payment to my / our Bank account as per the details given below (Please map our account in your SAP):

Vendor Name:- : \_\_\_\_\_  
Vendor Code : \_\_\_\_\_  
Bank Account Name : \_\_\_\_\_  
Bank Account Number : \_\_\_\_\_  
Branch Name & Address of Bank: \_\_\_\_\_  
\_\_\_\_\_  
Email Id : \_\_\_\_\_  
Permanent A/c Number (PAN) : \_\_\_\_\_  
Name of the Auth signatory : \_\_\_\_\_  
Contact Person : \_\_\_\_\_  
Contact Number : \_\_\_\_\_  
IFSC code : \_\_\_\_\_  
MICR Code : \_\_\_\_\_  
Type of Account : Savings / Current / Cash Credit

I, hereby declare that the particulars given above are correct. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I hereby authorise Bank ( as mentioned above) to credit my above mentioned account with the amount of instalment and I agree to discharge the responsibility expected of me as a participant under the scheme.

Date: \_\_\_\_\_

Signature of Account Holder (s)

- Mandatory fields -cannot be left blank.
- Kindly attach a blank cancelled cheque with this mandate form.

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**Bankers Attestation -**

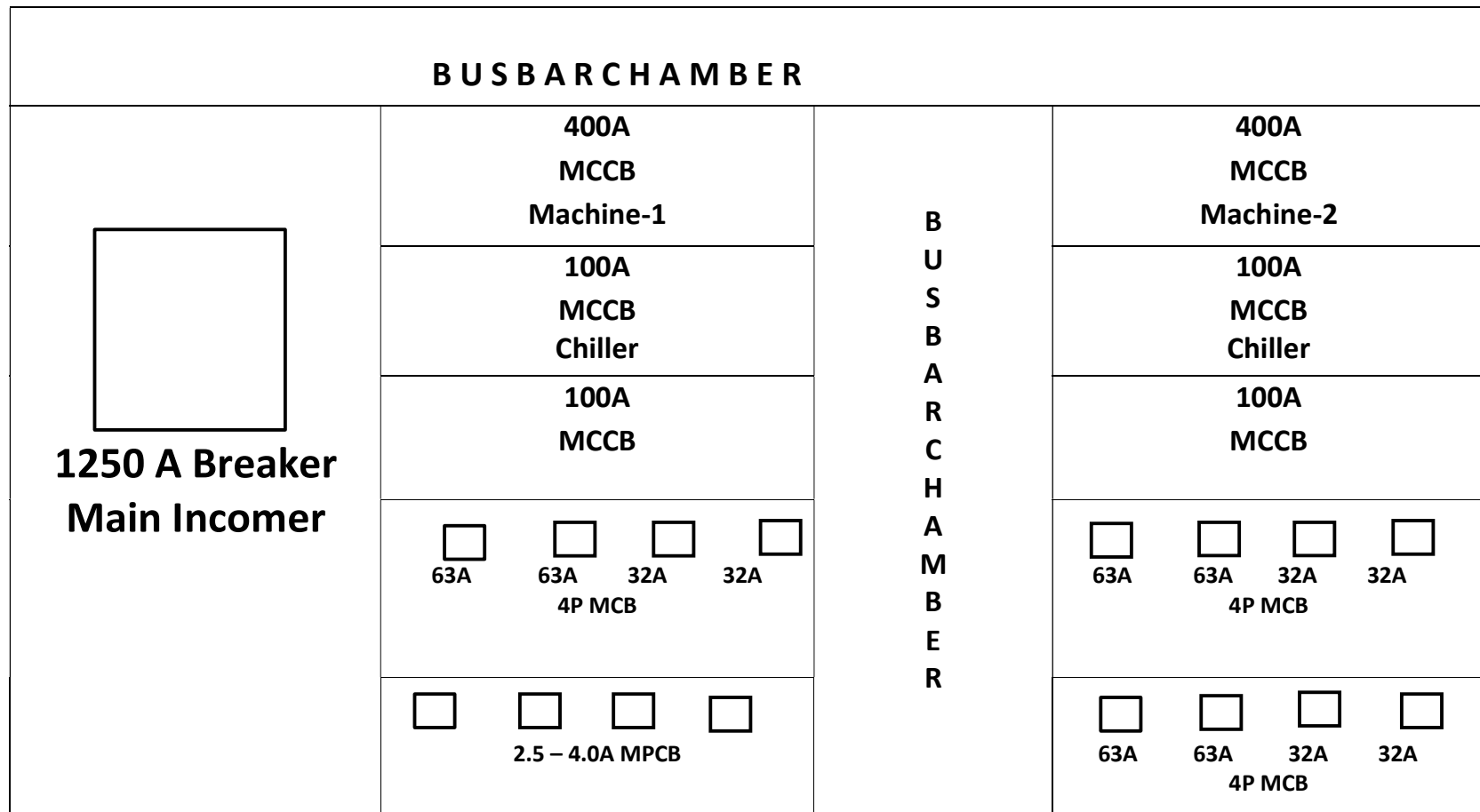
**CERTIFIED THAT THE PARTICULARS FURNISHED ABOVE ARE CORRECT AS PER OUR RECORDS.**

BANK STAMP \_\_\_\_\_

DATE : \_\_\_\_\_ SIGNATURE OF BANK OFFICIAL



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APPROX. DESIGN ARRANGEMENT WITH DIMENSION



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