



AMULFED DAIRY

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

Inquiry No : **AFD: PUR: ENQ: 2020: 278, Dated: Nov 03, 2020**
Description : **Purchase Inquiry for Supply of Electrical Panels for PFP Plant.**
Qty : **2 Nos (Silo+CT Panel & CI Bus Bar Panel).**
Due Date : **12th Nov, 2020**

Dear Sir,

You are requested to give your most competitive rates for supply of Electrical Panels at PFP-AFD Plant, as per the attached specification/ requirement mentioned in the attached annexure.

1. The offer should reach, AmulFed Dairy (A Unit Of Gujarat Co - Operative Milk Marketing Federation Limited.) Plot No. - 35, Near Indira Bridge, Ahmedabad - Gandhinagar Highway, Village: Bhat, Dist.: Gandhinagar. Pin No.382 428.
2. The offer should be sent in sealed cover super scribing on the top left hand corner offer for inquiry no. **AFD: PUR: ENQ: 2020: 278, Dated: Nov 03, 2020**. Offer received after due date for whatsoever reason may be rejected.
3. Your offer should be sent through Post/Courier/mail only not personally.
4. Offer should be valid for acceptance, for 45 days from due date of submission of offer.
5. The price should be quoted on F.O.R basis inclusive of packing and forwarding, taxes, excise duties, freight etc. However if it is separate, it should be clearly mentioned in the quotation.
6. It should cover a warranty of at least one-year against manufacturing defect.
7. Realistic earliest delivery period should be indicated.
8. It is not binding on us to accept lowest offer.
9. Right to reject any or all the offers without assigning any reason is reserved by us.
10. Offer which are incomplete or not meeting the conditions or only for part items, are liable for rejections.
11. No queries regarding the status of the offer will be entertained at any time.
12. The final supplier will be the combined decision of our technical team and management and no reason of final selection will be conveyed to any bidder.
13. Payment terms with 30 days credit shall be preferred.
14. We are an ISO 14001 certified unit. We follow Eco- friendly processes in our factory & also expect same to be followed in your company.
15. For any query, you may contact Mr. Palak Shah, Purchase Department(07359001666),or mail: palak.shah@amul.coop

Encl: Annexure-I-Technical Specification

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
Website: www.amul.com



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TECHNICAL SPECIFICATIONS

Silo + CT Panel and CI panel Specification

Maximum Ambient Temperature	:	45 Deg. C
Reference Ambient temperature consider for Design	:	50 Deg. C
Rated operational Voltage	:	415V AC (+- 10%), 3 Phase 4 wire System
Highest System voltage	:	457 V AC
Rated Frequency	:	50 Hz (+/-3%)
Structure	:	2 mm CRCA
Mounting Plate	:	2 mm CRCA
Door	:	2 mm CRCA
Partition/cover	:	1.6 mm CRCA
Gland Plate	:	3 mm
Paint	:	Epoxy paint, min. 250 micron,
Base Frame	:	Black
Protection	:	All safety protection/ Tripping
Panel cooling system	:	Design sufficient cooling inside panel

1. Schedule of Requirement

Sr. No.	Description	UOM	Qty	Location
1	Silo + CT Panel, Double Door , IP 56 protection	No.	1	Open to sky
2	CI Bus panel	No.	1	Inside Building

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Note to vendor

- 1) Drawings to be submitted by the bidder for approval
 - a) GA of panel MCC and Busbar Terminal Box
 - b) Wiring diagram of panels
- 2) Detailed Technical Specification should be submitted by the vendor
- 3) Details Client list with references should be furnished with bid
- 4) Company profile should be submitted to establish qualification of the eligibility criteria
- 5) AFDG/PFP reserves the right of approving the make of all switchgears, Electricals, wires, cables and components. It will be binding on the successful bidder to supply panels using approved make items only.

Supplier to submit the GA drawing of the panel and bus bar

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APPLICABLE STANDARDS

Sr. No.	IS No.	Description
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.
20)	IS:8084-1972	: Insulated conductor rating.
21)	IS:2675-1983	: Enclosed distribution fuse boards and cutouts for Voltage not exceeding 1000 Volts.
22)	IS:732	: Code of practice for electrical wiring installation system Voltage not exceeding 650 Volts.
23)	IS:1646	: Code of practice for fire safety of Buildings (general) electrical installation.
24)	IS:3854	: Switches.
25)	IS:6538	: Plugs.
26)	IS:2834 -1954	: Shunt Capacitors for power systems.
27)	IS:2208	: HRC cartridge fuse and links up to 660 volts.
28)	IS:9224	: HRC fuses having rupturing capacity of 90 KA.

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NOTE : All codes and standards means 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.

MAKES OF MAJOR SWITCHGEARS

- | | | | |
|-----|--|---|--|
| 1) | Switch Fuse Unit
- AC 23 duty | : | L&T, Siemens, Schneider, ABB or Equivalent |
| 2) | HRC Fuses | : | L&T, Siemens, Schneider, ABB or Equivalent |
| 3) | Glands | : | Compression type, Heavy duty and deep
threading with rubber ring and double washers.
(Sample to be approved) HMI |
| 4) | Cable Lugs | : | Dowells or Equivalent |
| 5) | Connectors | : | Elemax or Equivalent |
| 6) | ACB/MCCB | : | L&T, Siemens, Schneider, ABB or Equivalent
(Draw out/non Draw out) |
| 7) | Relay | : | Alstom, Siemens, L&T, Schneider |
| 8) | Meter | : | L & T or Equivalent |
| 9) | Load Manager | : | Conzerv EM6436
(Suitable for PC Connectivity, Sample to be approved) |
| 10) | Flexible cables for internal
Control wiring | : | Finolex, Polycab, havells equivalent |
| 11) | Push Button/
LED Type indication Lamp | : | Reputed Make |

Recommended Makes for Cables and Wires:

- 1) Polycab
- 2) Havells
- 3) Torrent
- 4) KEI
- 5) Finolex
- 6) RR Kabel

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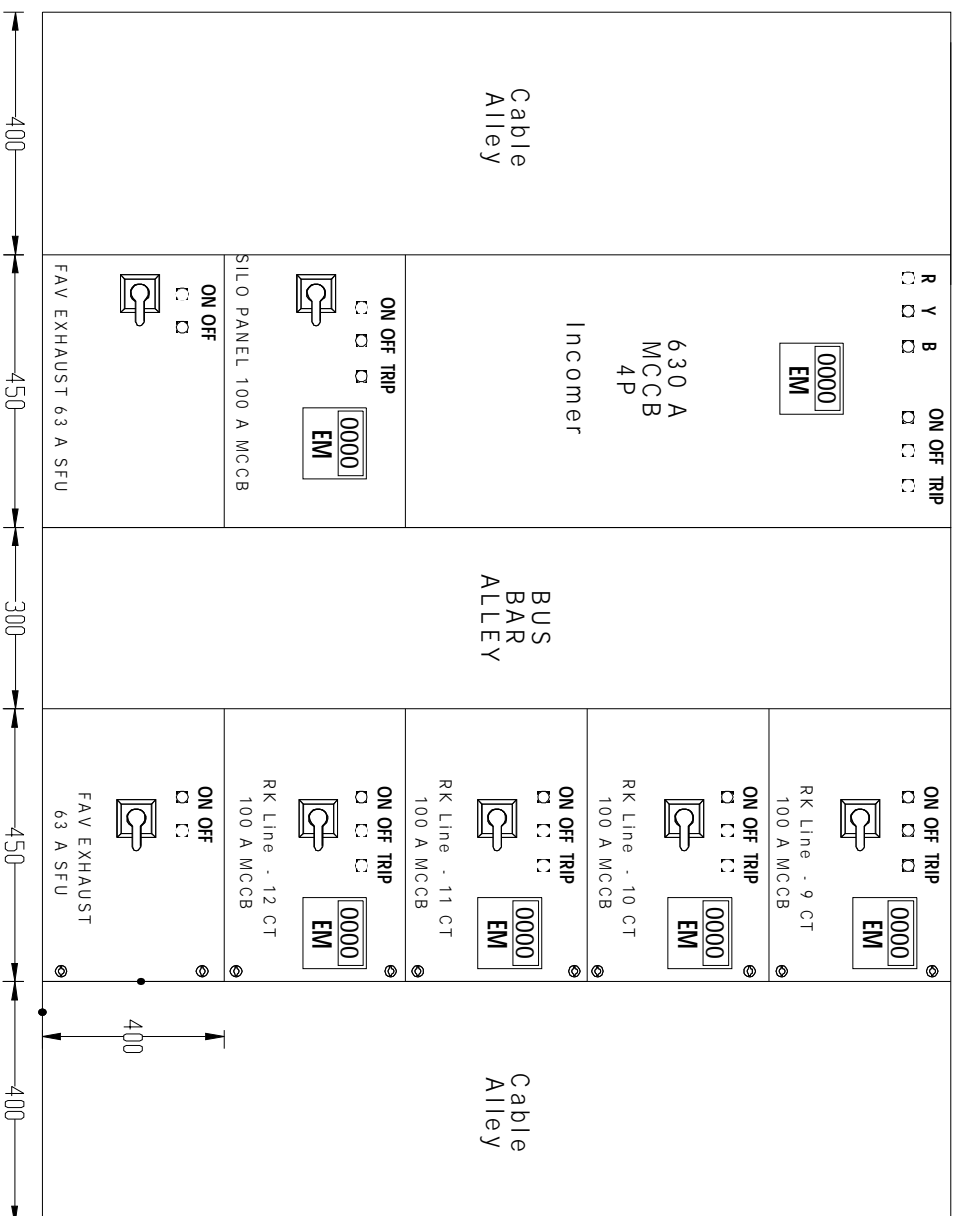
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SILO + CT PANEL



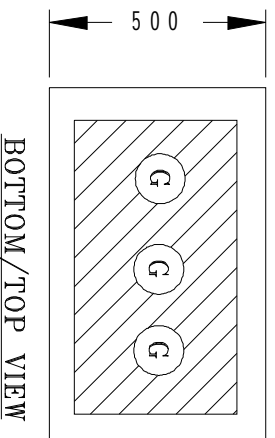
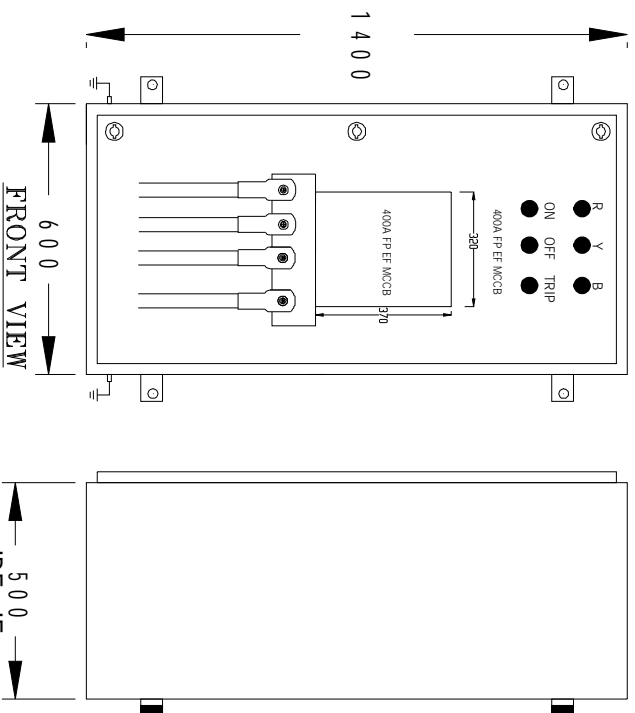
BUSBAR DETAILS		
PANEL	PANEL Qty	
630 A	01 No.	

ENCLOSURE DETAIL :

- HIGHT : 2000 mm
 - WIDTH : 2000 mm
 - DEPTH : 500 mm
 - MATERIAL : Sheet Steel
 - SHEET THICKNESS : 2 mm - Enclosure
 - : 1,6 mm - Doors & Covers
 - : 3 mm - Gland Plate
 - TYPE OF MOUNTING : Floor Mounting
 - PAINT FINISH : RAL 7032
 - PROTECTION CLASS : **IP 56**
- CABLE ENTRY :**
- Incoming : Bottom (Cable Size 1 * 3.5 * 240) AI
 - Outgoing : Bottom

Project: PPF EXPANSION PROJECT		Title: Silo + CT DOUBLE DOOR PANEL	
APRD	Sign	Date	Drawing No.
CKD	Sign		
DRN	Sign		
Rev	Date	Description	Appd
01	-		

CI BUS BAR PANEL



BUSBAR PANEL			
PANEL	PANEL Qty	BUSBAR DETAILS	
400 Amp	03 Nos.	1 * 40 * 10 for Phase	
		1 * 40 * 10 for Neutral	

ENCLOSURE DETAIL :

HIGHT : 1400 mm
 WIDTH : 600 mm
 DEPTH : 500 mm
 MATERIAL : Sheet Steel
 SHEET THICKNESS : 2 mm - Enclosure
 1.6 mm - Doors & Covers
 3 mm - Gland Plate
 TYPE OF MOUNTING : Floor Mounting
 PAINT FINISH : RAL 7032
 PROTECTION CLASS : IP 42

CABLE ENTRY :
 INCOMING : Bottom (Cable Size 2 * 3.5 * 95) Al
 OUTGOING : Cable Size 1 * 4C * 95, Cu Flexible

Project: PFP EXPANSION PROJECT		Title: BUSBAR PANEL	
AP/RD	Sign	DRN	Sign
CKD	Sign	Date	Drawing No.
01	Date	0	Rev: Page