



KERALA CO-OPERATIVE MILK MARKETING FEDERATION LTD.
CENTRAL PRODUCTS DAIRY, PUNNAPRA P.O, ALAPPUZHA – 688 004.
Tel: 0477-2255900, 2255999,2255921, E-mail: cpd@milma.com
GST:32AAAK5375M4ZD

CPD/ Engg/524/2023-24

16.02.2024

Sir,

Sub: Supply of equipments and maintenance & upgradation works of existing CIP System at CPD,Punnapra- reg.

Sealed Quotations super-scribed as "**Maintenance & upgradation works of existing CIP System**" are invited for the Supply of equipments and maintenance & upgradation works of existing Tetrapak make CIP System at Central Products Dairy, Punnapra subject to the terms and conditions and Technical specifications given below and the Annexure attached:

SCOPE OF WORK

Supply of equipments and maintenance & upgradation works of existing Tetrapak make CIP System at Central Products Dairy, Punnapra, Alappuzha District as detailed below:-

New Control Panel with Solenoid Valves, PLC & HMI:

This involves installing a new control panel equipped with solenoid valves, a Programmable Logic Controller (PLC), and a Human-Machine Interface (HMI). This upgrade likely aims to enhance the control and monitoring capabilities of the system.

Pneumatic and Electrical Wiring :

This includes the installation of both pneumatic and electrical wiring. Pneumatic wiring may involve connections related to air pressure control systems, while electrical wiring pertains to the power supply and connections for various components within the control system.

Replacement of Steam Control Valve:

This task involves removing the existing steam control valve and replacing it with a new one. This could be necessary due to wear and tear, inefficiency, or the need for a valve with updated features.

Servicing of Existing Valves and Spare Valve Supply with Actuator:

This involves maintenance work on existing valves to ensure they are in optimal working condition. Additionally, it includes the supply of spare valves equipped with actuators (devices for controlling the movement of valves). This ensures that there are backup components available in case of failures.

Installation and Commissioning with Reprogramming:

This step involves installing all the new components and ensuring they are correctly integrated into the system. Commissioning refers to the process of testing and fine-tuning the system to ensure it operates as intended. Reprogramming likely refers to configuring the PLC and HMI with the necessary control algorithms and user interfaces.

PRICE SCHEDULE

SI No.	Description	Amount
1	Supply of new SS Control Panel with Solenoid Valves, PLC & HMI	
2	Pneumatic and Electrical Wiring Charges	
3	Supply of Steam Control Valve	
4	Servicing of Existing Valves and Spare Valve Supply with Actuator	
5	Installation and Commissioning with Reprogramming	
TOTAL AMOUNT		

TERMS AND CONDITIONS

1. The rate quoted should be inclusive of GST.
2. All the installation works shall be carried out as per the directions of our plant Engineer.
3. All the material supplied as per the Scope of Work shall be of the approved make.
4. Lodging & boarding rates required by your Engineer shall be quoted extra to the Scope of works.
5. You shall arrange for all compliance to the ESI/PF rules in force. Milma Central Products Dairy shall not be liable for any benefits/mishaps, etc. during execution of work. The contractor shall provide suitable safety measures of workers.
6. All materials/debris/tools/equipments, etc, shall be completely removed from the site as per the instruction of our Maintenance Engineer.
7. **Completion Period**: All the work should be completed in all respects within 10 days from the date of receipt of work order. Any demurrage/detention/penalty charges incurred due to the delay in the completion of the work shall be charged on percentage basis to the Contractor's account.
8. Installation and commissioning charges are as per the number of days required for the work. Any additional days required shall be intimated to our Plant Engineer and shall be paid as per the quoted rate for additional days.
9. **Warranty**: You will give a warranty for the entire system for a period of 1 year from the date of commissioning of the system.
10. **Delivery Address & Billing Address**:
CENTRAL PRODUCTS DAIRY,
PUNNAPRA P.O, ALAPPUZHA - 688 004.
E-mail: cpd@milma.com
GST:32AAAK5375M4ZD
11. **Terms of Payment**:
Payment shall be released by CPD, Punnapra as follows:-
30 % of the order value shall be released as advance against submission of Bank Guarantee issued from any Nationalized Bank for an equal amount valid till completion of supply not less than six months.
50% of the order value shall be released on supply of the equipments at the unit.
10% of the order value shall be released on completion of testing and commissioning of the CIP System after maintenance and upgradation at the unit.
10% of the total value will be released on satisfactory completion of guarantee period of twelve months from the date of commissioning in all respect. However the said amount will be paid against a Bank guarantee valid for twelve months from the date of commissioning.
12. **Preferably sealed quotations super-scribed as "Maintenance & upgradation works of existing CIP System" shall reach our office on or before 2.00 P.M on 24.02.2024 and will be opened at 3:00 P.M on the same day.**

13. The DAIRY MANAGER reserves the right to accept or reject any or all offers to the tendering process at any time prior to award of the contract, without thereby incurring any liability to the effected tenderer of tenders or any obligatory to inform the effected tenders on the grounds of Central Products Dairy, Punnapra's action.

Thanking you,

Yours sincerely.


MANAGER.

Encl: Annexure-A - IO List
Annexure-B - Bill of materials

ANNEXURE A : IO LIST

Equipments	QTY	Digital Input	Digital Output	AI Terminal Block	AO Terminal Block	RTD
Level switch	9	9				
Pushbutton-manual	3	3				
Emergency pushbutton	1	1				
Butter Fly Valve	17		17			
Conductivity Transmitter	1			1		
Buzzer	1		1			
RTD	4					4
total		13	18	1	1	4

ANNEXURE B : BILL OF MATERIALS

Sl.No	Description	QTY.
1	CPU SR30 18DI/12DO	1
2	RTD MODULE 4 CHANNEL	1
3	DIGITAL OUTPUT 8DO	1
4	ANALOG I/O MODULE 4AI/2AO	1
5	Relay Card 8 channel(1CO)	3
6	HMI 7"	1
7	DI Non- Fuse Terminal (2.5 mm)	36
8	DO Non- Fuse Terminal (2.5 mm)	48
9	0VDC Non-Fuse Terminal (2.5 mm)	10
10	24VDC Non-Fuse Terminal (2.5 mm)	10
11	AI Fused Terminal (2.5mm)	18
12	AO Fused Terminal (2.5 mm)	3
13	Short Link	20
14	DI - Blue wire single core 0.75 sqmm	300
15	DO - Grey wire single core 0.75 sqmm	300
16	AI & AO - Brown wire single core 0.75 sqmm	300
17	24VDC - Orange wire single core 0.75 sqmm	300
18	0VDC - White wire single core 0.75 sqmm	300
19	CABLE GLAND 11	30
20	CABLE GLAND 13.5	50
21	CABLE GLAND 16	30
22	CABLE GLAND 21	10
23	LUGS	
24	CABLE TIE	
25	INSULATION TAPE	
26	PVC DUCT	
27	SS PANEL	

INCOMER		
1	MCB FP 25A,10kA	1
2	ON/OFF SWITCH,4P,25A	1
3	Red Indication Lamp, 220VAC	1
4	Yellow Indication Lamp, 220VAC	1
5	Blue Indication Lamp, 220VAC	1
6	Fuse 2A	4
7	Single Phase Preventer	1
8	MCB DP 10A, 10KA	1
9	MCB DP 6A, 10KA	1
10	Power Supply 24VDC, 5A	1
11	Panel Light 6W, 230V AC	1
12	Door switch 1NO+1NC 220V AC	1
13	4" Fan filter set 230V AC	1
14	Buzzer 230V AC (without indicator)	1
15	SWITCH SOCKET 6A	1
FEED PUMP MOTOR		
1	STARTER FOR 10HP MOTOR	1
2	Start Pushbutton with 1NO	1
3	Stop Pushbutton with 1NO	1
4	Emergency Stop Pushbutton with NC	1
5	Buzzer Reset Pushbutton with NC	1
6	MCB 10A,TP,10kA	1
INSTRUMENTS		
1	Solenoid valve 3/2way, 1/4"	21
2	Manifold 1/4",3/2 (6 valve)	3
3	One Touch Fittings, Male elbow Dia 6 x 1/4, Standard, Elbow, Male Elbow, BSP, 1/4, 6	20
4	Filter Regulator combination, FRC- 1/4" (40Micron, 10bar)	1
5	Clamp for FRC	1
6	One Touch Fittings, Male connector Dia 6x3/8, Standard, Straight, Male Connector, BSP, 3/8, 6	2
7	Silencer, Button, 1/4, BSP	20
8	Equal Bulk Head connector Fit tube (OD-6mm & thread dia - 14mm)	20
9	Port Plug	2
10	PU Tube 6MM	25METERS