



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:32AAAAK5375M4ZD

CPD/ Engg/524/2023-24/22708

05.02.2024

Sir,

Sub: Supply, installation, testing & commissioning of Level & Temperature monitoring system at CPD,Punnapra– reg.

Sealed Quotations super-scribed as "**Supply, installation, testing & commissioning of Level & Temperature monitoring system**" are invited for the Supply and Installation of Level-Temperature Monitoring 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, installation, testing & commissioning of Level & Temperature monitoring system in 5 Nos Milk Silos at Central Products Dairy, Punnapra, Alappuzha District as detailed below:-

SI No	Description	Qty	Rate
1	Supply of PLC, IO Modules and HMI	1	
2	Supply of Hensel Box with terminals, Power supply, MCB, Ducts, Ethernet switch etc	1	
3	Supply of 50" LED TV to be connected to 2 Nos of PCs for the display of Level & Temeperatures of Silos & HMSTs, as per our requirements	1	
4	Temperature & Level sensor 3 Core cables	300 meter	
5	Cable tray for carrying the sensor cables	300 meter	
6	Level transmitters for the existing 30 KL Milk Silo and the future Milk Silo to be supplied to the Dairy	1	
7	Customized Software development charges	1	
8	Installation & Commissioning charges	1	
TOTAL			

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.

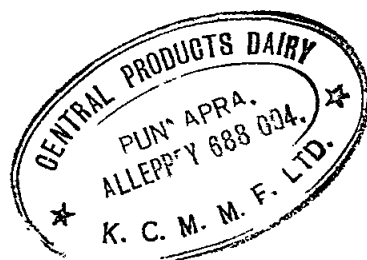
7. **Completion Period:** All the work should be completed in all respects within 10 days from the date of receipt of work order. Any demurrage/detention/penalty charges incurred due to the delay in the completion of the work shall be charged on percentage basis to the Contractor's account.
8. Installation 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:32AAAAK5375M4ZD
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 system at the unit.
10% of the order value shall be released on completion of testing and commissioning of the complete system 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. **Annual Maintenance Contract:** You shall provide Annual Maintenance Contract after completing warranty period. During AMC period you shall attend 2 routine services and breakdown services to the system
13. **Preferably sealed quotations super-scribed as "Supply, installation, testing & commissioning of Level & Temperature monitoring system" shall reach our office on or before 2.00 P.M on 10.02.2024 and will be opened at 3:00 P.M on the same day.**
14. 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



ANNEXURE-A

SI No.	Particulars	Qty	Remarks
1	<u>Panel Unit</u> Must consist of Processing Board/ PC unit, IO Modules, HMI, Ethernet S/W, RTU/ Data Gateway complete in moisture proof enclosure.	1	Mounting of panel enclosure in a moisture/condensate free position within the scope of contractor
2	Supply of Hensel Box with terminals, Power supply, MCB, Ducts, Ethernet switch etc	1	All necessary accessories like junction boxes, adaptors, glanding, lugs etc. For mounting all the mentioned field devices to make the system complete.
3	<u>Wall mounted LCD display. (min 50 ")</u> Supply, erection and commissioning of Silo real time level display screen which displays current level and temperature of 6 silos simultaneously in numerical as well as graphical representation. The display must specify Silo Number, Maximum Capacity and Present quantity in Litres. Screen must display visual alarm on high level also.	1	Installation, testing, commissioning and mounting on wall to be carried out by contractor, power cable from power source to screen also in scope of contractor. Screen must be rugged industrial make and should be suitable to be operated in wet hot and humid conditions. Additional atmospheric protective enclosure also to be provided. Make Samsung/LG/Acer
4	Temperature & Level sensor 3 Core cables	300 meter	Cable trays - perforated type (GI-Galvanized and powder coated). Along with C-type clamps and cover plates Cable laying (in enclosure) for carrying the signals from each signal points to PLC panels & computer. Cable tags and markers are provided at each cable end. All power cables are copper and armoured. Make : Finolex, Polycab All signal/control cables are shielded / braided.
5	Cable tray for carrying the sensor cables	300 meter	
6	<u>Level transmitter:</u> Flange mounted level transmitter - 0.075% of span accuracy and 100:1 range ability; supply complete with all mounting and accessories. Product wetted part must be SS 316/ 304 Transmitter must be hygienic and food safe. The transmitters are to be mounted in a process plant environment and highly susceptible to moisture, steam, dust and water. Cable glanding and mounting must be done accordingly Preferred make : E & H, Rosemount, Baumer, Anderson Negle.	1	Supply, Installation, testing, pre-commissioning and commissioning for 30 KL Milk Silo.
7	Customized Software development as per our requirements.	1	Combined Temperature and level indications have to be displayed in the

			LED TV provided flashing in fixed intervals and shall be accessible in the Dairy Plant computer also.
8	Installation & Commissioning charges	1	Design, installation, deployment, configuration, testing, commissioning and trial run User training (functional training and operating assistance to technical staff)
9	Alarm system: hooter/ alarm system for silo high level with alarm reset button	LOT	Alarm reset switch to be positioned in separate enclosure. Signal should be given from the system
10	Provision for data logging/ connectivity to existing LAN, Ethernet switch must be provided	LOT	Necessary ports, and arrangement to be provide so as silo levels can be accessed through existing LAN connection
11	<u>Calibration of all field devices :</u> Site calibration of all field and devices factory calibration certificate for all type of individual sensors. Certificates should be traceable to national standards	LOT	Calibration certificates traceable to national standards must be valid for one year from date of commissioning
12	<u>Specifications & Manuals:</u> Operation and maintenance manuals and service instructions along with the drawings showing details of part list against each item of your supply be sent to us in triplicate	LOT	Service requirements also should be specified along with quote